Regal Rexnord

Energy Efficient Geared Motors

AC Variable Speed

Catalogue Edition 05/23 EN

BAUER GEAR MOTOR™

A REGAL REXNORD BRAND

Type Designations

B K 50 Z X - 1 1 U W A

- W A = A = SSV Cover; W = Double Shaft Seals
- V H = Front and Rear
- V = Flange A or C or Torque Arm front
- H = Flange A or C or screw-on Torque Arm rear
- U = Foot on top or Torque Arm screwed on in upward direction
- O = Foot on top or Torque Arm screwed on in upward direction
- R = Foot right or Torque Arm screwed on in the direction to the right
- L = Foot left or Torque Arm screwed in direction to the left
- 0 = Splined Shaft acc. to DIN 5480
- 1 = Solid Shaft, front
- 2 = Solid Shaft, rear
- 3 = Solid Shaft, front and rear
- 4 = Hollow Shaft with Keyway
- 5 = Hollow Shaft for Shrink disk connection, rear (Standard)
- 6 = Hollow Shaft for Shrink disk connection, front (Special)
- 7 = Solid Shaft front, flush with Standard-Flange only BG10-BG90 and BS02+BS03
- 8 = Solid Shaft rear, flush with Standard-Flange only BS02+BS03
- 9 = Solid Shaft front and rear, flush with Standard-Flange only BS02+BS03
- 0 = Gear Housing, no surfaces except torque arm bore for BF
- 1 = Gear Housing, Foot
- 2 = Gear Housing, Standard flange diameter 1 small A-Flange
- 3 = Gear Housing, Standard flange diameter 2 Standard A-Flange
- 4 = Gear Housing, Standard flange diameter 3 large A-Flange
- 5 = Gear Housing, with Torque Arm for BK + BS as screw-on
- 6 = Gear Housing, Foot-threaded bores
- 7 = Gear Housing, C - Flange
- 8 = Gear Housing, completely machined
- 9 = Gear Housing, with Footplate only BG (Universal housing)
- \- = seperates gear type from gear design
- X = reinforced bearings (radial)
- Z = Gearbox with pre-stage
- •• = Gear Size (03, 04, 05, 06, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100)
- B • = Gear type (BG, BF, BK, BS)

S .. 09 L A 4 - TF - S

- S = rectifier (see chapter 3)
- TF = Motor monitoring (see chapter 3)
- 4 = No. of pole for motor
- LA = Motor core length and design
- 09 = Motor size
- .. = A Aseptic motor
- .. = NF Motor without Gearbox, Motor in flange design
- .. = XE Expl.-Motor with increased safety – Zone 1 (Gas)
- .. = XN Expl.-Motor with increased safety – Zone 2 (Gas)
- .. = XC Expl.-Motor with increased safety – Zone 21 (Dust)
- .. = XS Expl.-Motor with increased safety – Zone 22 (Dust)
- .. = U Non-Ventilated
- S = Permanent Magnet Synchronous Motor

ES 010 A 9 HN

- HA = Hand Release (lockable)
- HN = Hand Release (none lockable)
- 9 = Code for setting torque
- A = Design
- 010 = Brake size
- ES = Single disk brakes - HOLDING BRAKE
- ZS = Double disk brakes - HOLDING BRAKE
- ESX = Single disk brakes - WORKING BRAKE
- ZSX = Double disk brakes - WORKING BRAKE

Table of contents

1 General 15
Advantages of Bauer-Geared Motors ... 17
Bauer Gearmotors ... 17
Bauer Gearboxes ... 17
Bauer Motors ... 17
Bauer Brakes ... 17

2 Product Description 19
Selection of geared motors ... 21
Installed positions of geared motors ... 21
Notes on safety ... 21
Guards for rotating parts ... 21
Touch protection ... 21
Operating noise ... 21
Painting and corrosion protection ... 21
Modular system overview ... 22

3 Type Designations 25
Significance of type designation ... 27
BG-series helical-geared motor ... 28
BF-series shaft-mounted geared motor ... 29
BK-series bevel-geared motor ... 30
BS-series worm-geared motor ... 31
Versions and options ... 32
BG and BF series ... 32
BK and BS series ... 32
Motor ... 33
Permanentmagnet synchronous motor (PMSM) ... 33
Motor protection ... 33
Brake rectifier in motor terminal box ... 33
Plug connector ... 33
Heavy-duty fan ... 33
Protective cover ... 33
CleanDrive ... 33
Supplement types ... 34
Brake ... 34
Digital and analogue encoder ... 34
Second shaft end ... 34
Forced ventilation ... 34
Overall design ... 34

4 Gear Motor Selection 35
Selection of geared motors ... 37
Drive configuration ... 38
Drive configuration - General ... 38
Required data for drive configuration ... 38
Determining the motor power ... 39
Determining the required torque ... 39
Determining the gear reduction ratio ... 39
Determining the factor of inertia ... 39
Determining the shock load ... 40
Determining the minimum service factor f_{Bmin} ... 40
Brake specification ... 40
Motor configuration ... 41
Torque-speed characteristic ... 41
Radial and axial forces on the output shaft ... 45
Maximum allowable radial force at force application point X ... 45
Bearing load limit ... 45
Shaft strength ... 46
Helical gear unit BG series ... 46
Shaft-mounted gear unit BF series ... 47
Bevel gear unit BK series ... 48
Worm gear unit BS series ... 48

Table of contents

Transmission components 49
Factor f_z for the type of transmission component 49
Axial force 49
Shock loads of machinery 50

5 Gearboxes & Lubrication 53
Standard mounting positions 55
Postion of the terminal box 57
Position of the terminal box and the cable entry points (BG and BF) 57
Position of the terminal box and the cable entry points (BK and BS) 58
Gearboxes 59
Radial and axial forces at the output shaft 59
Dimensions and fits of output shafts and keyways 59
Installing transmission elements 59
Gear with solid shaft 59
Gear with hollow shaft 59
Shrink disc coupling 59
Torque restraint 60
Notes for installing shaft mount gears with hollow shaft and keyway 60
Gear ventilation 60
Output shaft seals 60
Lubricants 61
Lubricant quantities 62
Lubricant quantities, BG-series gears 63
Lubricant quantities, BG20-01R 64
Lubricant quantities, BF-series gears 65
Lubricant quantities, BK-series gears 66
Lubricant quantities, BS-series gears 67
Lubricant quantities, pre-stage gears (Z) 68
Lubrication quantity for intermediate gear 69
Threaded plugs 70
Position of threaded plugs 70
-BG-series gears 70
-BG-20-01R 71
-BF-series gears 72
-BK-series gears 73
-BS-series gears 75
-pre-stage gears (Z) 75
-in the System Cover Design with Standard Geared Motor 76
-in the System Cover Design with foreign motor or gear design with input shaft 77

6 BG-series helical-geared motors - Selection 79
Description of helical-geared units 81
Sizes 81
Bauer service factors (f_B) for helical- geared motors 81
Continuous operation without switchingfrequency Z ≤1/h 81
Switching duty 81
Bauer service factor 81
Explanation of shock classification 82
Key to abbreviations 82
Selection tables, helical-geared motors 82
Selection helical-geared motors - n_1 = 1500 $^1/_{min}$ 83
Selection helical-geared motors - n_1 = 3000 $^1/_{min}$ 116

7 BF-series shaft-mounted geared motors - Selection 151
Description of shaft-mounted gear units 153
Sizes 153
Bauer service factors (f_B) for shaft-mounted geared motors 153
Continuous operation without switching frequency Z ≤1/h 153
Switching duty 153
Bauer service factor 153
Explanation of shock classification 153
Key to abbreviations 154
Selection tables shaft-mounted geared motors 154
Selection - shaft-mounted geared motors - n_1 = 1500 $^1/_{min}$ 155
Selection - shaft-mounted geared motors - n_1 = 3000 $^1/_{min}$ 180

Table of contents

8 BK-series bevel-geared motors - Selection 207

Description of bevel-gear units 209
Sizes 209
Bauer service factors (f_B) for bevel-geared motors 209
Continuous operation without switching frequency Z ≤1/h 209
Switching duty 209
Bauer Service factor 209
Explanation of shock classification 210
Key to abbreviations 210
Selection tables, bevel-geared motors 210
Selection - bevel geared motors - n_1 = 1500 $^1/_{min}$ 211
Selection - bevel geared motors - n_1 = 3000 $^1/_{min}$ 233

9 BS-series worm-geared motors - Selection 257

Description of worm-gear units 259
Sizes 259
Efficiency 259
Bauer service factors (f_B) for worm-geared motors 259
Continuous operation without switching frequency Z ≤1/h 259
Switching duty 260
Ambient temperature 260
Bauer service factor 260
Explanation of shock classification 260
Key to abbreviations 261
Selection tables, worm-geared motors 261
Selection - worm-geared motors - n_1 = 1500 $^1/_{min}$ 262
Selection - worm-geared motors - n_1 = 3000 $^1/_{min}$ 276

10 BG-series helical-geared motors - Dimensions 291

Dimension - Standard 293
BG04 293
BG05 294
BG06 295
BG10-BG10Z 296
BG10X-BG10XZ 298
BG15 301
BG20-BG20Z 302
BG30-BG30Z 304
BG40-BG40Z 306
BG50-BG50Z 308
BG60-BG60Z 310
BG70 - BG70Z 312
BG80-BG80Z 314
BG90-BG90Z 316
BG100-BG100Z 318
Dimension - Tandem Gearbox 321
BG06G04 321
BG10G06 322
BG10XG06 324
BG20G06 326
BG30G06 328
BG40G10 330
BG50G10 332
BG60G20 334
BG70G20 336
BG80G40 338
BG90G50 340
BG100G50 342

11 BF-series shaft-mounted geared motors - Dimensions 345

Dimension - Standard 346
BF06 346
BF10-BF10Z 348
BF20-BF20Z 350
BF30-BF30Z 352
BF40-BF40Z 354

Table of contents

BF50-BF50Z 356
BF60-BF60Z 358
BF70-BF70Z 360
BF80-BF80Z 362
BF90-BF90Z 364
Dimension - Tandem Gearbox 366
BF10G06 366
BF20G06 368
BF30G06 370
BF40G10 372
BF50G10 374
BF60G20 376
BF70G20 378
BF80G40 380
BF90G50 382
Additional Dimension Sheet 385
Splined shaft 385
Shrink disc coupling (SSV) 386
Shrink disc coupling with (SSV) cover 387
Tapped Holes Side (H) → shaft cover 388
Rubber buffer for torque restraint 389
Assembly tools for hollow shaft and keyway 390
Assembly tools for shaft mounted gears with splined shaft 392
Shaft cap (VK) 394
Shaft cover (VD) 395

12 BK-series bevel-geared motors - Dimensions 397
Dimension - Standard 398
BK06 398
BK08 400
BK10-BK10Z 402
BK17 404
BK20-BK20Z 406
BK30-BK30Z 408
BK40-BK40Z 410
BK50-BK50Z 412
BK60-BK60Z 414
BK70-BK70Z 416
BK80-BK80Z 418
BK90-BK90Z 420
Dimension - Tandem Gearbox 422
BK10G06 422
BK20G06 424
BK30G06 426
BK40G10 428
BK50G10 430
BK60G20 432
BK70G20 434
BK80G40 436
BK90G50 438
Additional Dimension Sheet 441
Splined shaft 441
Shrink disc couplings (SSV) 442
Shrink disc connection with cover (SSV) 443
Rubber buffer for torque arm 444
Position of the torque arm 445
Foot with tapped holes 446
Foot plate with clearance holes 447
Assembly tools for hollow shaft and keyway 448
Assembly tools for splined shaft 450
Shaft cap (VK) 452
Shaft cover (VD) 453

13 BS-series worm-geared motors - Dimensions 455
Dimension - Standard 456
BS02 456

BS03 458
BS04 460
BS06 462
BS10-BS10Z 464
BS20-BS20Z 466
BS30-BS30Z 468
BS40-BS40Z 470
Dimension - Tandem Gearbox 472
BS06G04 472
BS10G06 474
BS20G06 476
BS30G06 478
BS40G10 480
Additional Dimension Sheet 482
Shrink disc couplings (SSV) 482
Shrink disc couplings with (SSV) cover 483
Rubber buffer for torque arm 484
Position of the torque arm 485
Threaded foot 486
Foot plate, left 487
Assembly tools for hollow shaft and keyway 488
Shaft cap (VK) 490
Shaft cover (VD) 491

14 Motors 493
General 495
ErP Directive 2009/125/EC 495
Regulation (EG) 640/2009 & (EU) 4/2014 495
Regulation (EU) 2019/1781 496
Torques 498
Line voltages 498
Line frequencies 499
Rating plate 499
Terminal box 499
Motor connections 500
Terminal connections for single speed motors 501
Terminal connections for single speed motors with thermal motor protection 502
Terminal connections for pole changing motors in Dahlander connection (Δ/YY or Y/YY) 503
Terminal connections for pole changing motors with two separate windings (Y/Y or Δ/Δ) 504
Plug-and-socket connection 505
Motor protection 506
Thermistors (PTC) 506
Thermostatic protection 507
KTY sensors 508
PT100 sensors 509
Insulation 510
IP – Protection classes 510
Degrees of protection provided by enclosures for electrical equipment 510
Speed of output shaft 511
Duty types as defined by EN 60034 512
General 512
Continuous running duty (S1) 512
Short-time duty (S2) 512
Intermittent periodic duty (S3) 513
Intermittent periodic duty with starting (S4) 514
Intermittent periodic duty with electric braking (S5) 515
Continuous-operation periodic duty (S6) 516
Continuous-operation periodic duty with electric braking (S7) 516
Continuous-operation periodic duty with relative load/speed changes (S8) 517
Duty with non-periodic load and speed variations (S9) 517
Duty with discreet constant loads and speeds (S10) 518
Operation with frequency converter 519
Notes on design 519
Increased torque with reduced duty factor 519
Increased torque with external fan 519
Energy-saving function 520

Table of contents

Regeneration 520
Notes on operation with other-make frequency inverters 520
Explosion protection 521
General 521
ATEX 521
Frequency converters 521
Protective device 521
Voltages 522
Gears with non-electrical explosion protection 522
Technical data 523
Standard Motors 523
Motors with rated speed 1500 1/min 523
Motor torques in the adjusting range 150 1/min - 1800 1/min. duty type S1 525
Motors with rated speed 2250 1/min 529
Motor torques in the adjusting range 150 1/min - 3600 1/min. duty type S1 531
Motors with rated speed 3000 1/min 533
Motor torques in the adjusting range 150 1/min - 3600 1/min. duty type S1 536
Aseptic-Motors 540
Aseptic motors with rated speed 1500 1/min 540
Aseptic motors torques in the adjusting range 150 1/min - 1800 1/min. duty type S1 540
Aseptic motors with rated speed 3000 1/min 542
Aseptic motor torques in the adjusting range 150 1/min - 3600 1/min. duty type S1 542
Stainless Steel Motors 544
Stainless steel motors with rated speed 1500 1/min 544
Stainless steel motors torques in the adjusting range 150 1/min - 1800 1/min. duty type S1 544
Stainless steel motors with rated speed 3000 1/min 546
Stainless steel motors torques in the adjusting range 150 1/min - 3000 1/min. duty type S1 546
Atex-Motors 548
Rated speed 1500 1/min 548
-Type S.XE.08MA4-.. 548
-Type S.XE.08LA4-.. 550
-Type S.XE.09SA4-.. 552
-Type S.XE.09XA4-.. 554
-Type S.XE.11SA6-.. 556
-Type S.XE.11MA6-.. 558
-Type S.XE.11LA6-.. 560
Rated speed 3000 1/min 562
-Type S.XE.08MA4-.. 562
-Type S.XE.08LA4-.. 564
-Type S.XE.09SA4-.. 566
-Type S.XE.09XA4-.. 568
-Type S.XE.11SA6-.. 570
-Type S.XE.11MA6-.. 572
-Type S.XE.11LA6-.. 574

15 Motor Mounted Components 577
Brake 579
Functional description 579
Product description of type ES(X) spring-actuated brakes 579
Product description of type ZS(X) spring-actuated brakes 580
Brake selection and sizing 581
Electrical connection 584
Specifications of holding brakes with emergency stop capability 587
Specifications of working brakes 588
Connection 590
DC connection via terminals (K) 590
Standard rectifier (S) 591
Rectifier for electronic rapid shutdown (E) 592
Rectifier for overexcitation and rapid shutdown (M) 593
Brake connection, operation with frequency converter 594
Manual release (HA, HN) 594
Second motor shaft extension (ZW, ZV) 595
Protective fan cowl (D) 595
Motor-independent fan (FV) 595
Technical Data Motor-independent fan 595
Encoder system 596

Shaft encoder (G) 596
Incremental rotary encoder 597
Functional description 597
Electrical specifications 597
Plug end view with male pin insert 597
Signal assignments 597
SinCos feedback 598
Functional description 598
Electrical specifications 598
Ansichten auf Steckseite, Stiftkontakteinsatz 598
Terminal assignment 598
Absolute rotary encoders 599
Functional description 599
Profibus DP interface 599
SSI interface 600
Modular motor system 601
Motor and encoder 601
Motor, brake and encoder 601
Motor and forced ventilation 601

16 Motor Mounted Components - Dimensions 603
Dimensions 605
Standard terminal box 605
Terminal box for plug-connector 606
Motor with standard brake 607
“Heavy-Duty“ - brake 608
Motor with second shaft end 609
Motor with brake and second shaft end 610
Motor with “heavy duty“ brake and second shaft end 611
Motor with protective hood 612
Motor with independent fan 613
Motor with brake and independent fan 614
Motor with encoder and built-on independent fan 615
Motor with brake and encoder with built-on independent fan 616
Motor with encoder 617
Motor with “heavy duty“ encoder 618
Motor with brake and encoder 619
Motor with “heavy duty“ brake and encoder 620
Motor in IEC design 621

17 BAUER global 623
North America 625
Latin America 626
Europe 627
Eastern Europe 630
Middle East & Africa 631

Energy Efficient Geared Motors

Bauer Gear Motor - profile

Innovation since 1927

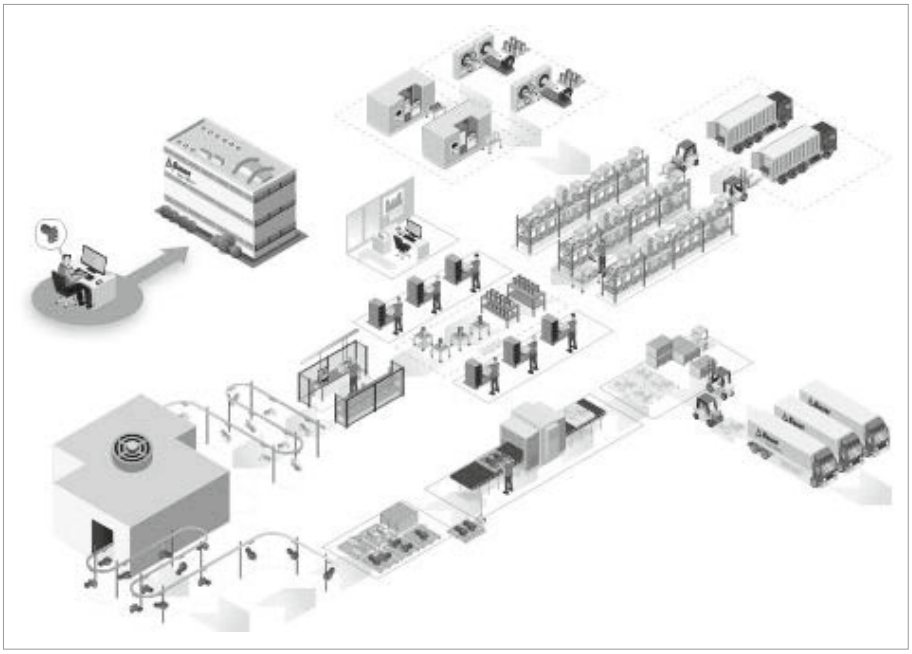
During its 90-year history, Bauer Gear Motor has developed to become the preferred international provider of high-quality and extremely reliable geared motors. A great deal of knowledge has been accrued over the decades, and this has continually been built upon and shared. Bauer has pioneered many new geared motor solutions and will continue to do so in the future. Our engineers develop technically-advanced solutions that feature energy-efficient motors paired with optimal gearboxes so that we can offer our customers the lowest possible operating costs. It is not without reason that the Bauer brand has become world famous; this is because our geared motor solutions are the driving power in drive technology.

Competent and customer-focused

We see ourselves as the value adding partner for individual drive technology solutions along the entire customer value chain **... Uncomplicated ... Competent ... Enduring**. With our global sales and expertise, we are there to support you side by side- right from the design of your drive. Our employees will ensure that you have the optimum geared motor solution for your application

Our quick response time to requests ensures that you receive the required offer within 24 hours. After your order has arrived, we check your order details and you will receive a confirmation of the order within 24 hours. This means that you will have the details for your own production planning process by the following day.

As we concentrate our production in regional factories, we are also able to deliver customised solutions from the factory reliably and directly, with an extremely short delivery period.



Closer to the customer‘s needs thanks to greater flexibility

Orders are processed immediately and passed on to our production team. By reducing set-up times, we are able to start producing the order specific parts right away. This is synchronised with assembly, ensuring that the parts are available according to just-in-time principles.

The entire manufacturing processes starting from the production of the motor, the mechanical geared motor parts and the electrical components, are perfectly coordinated to ensure greater process reliability and availability. This means that a high delivery reliability of over 95% can be achieved, while maintaining Bauer‘s high quality.

The product range

Energy Efficient Geared Motors

Bauer Gear Motor - profile

Helical Geared Motors

- Power range from 0.03 kW to 75 kW
- 13 gear sizes for torques ranging from 20 Nm to 18500 Nm
- New attachment possibilities with low design height
- High efficiency through 2-stage base design
- High protection rating of IP65 as standard

Shaft Mounted Geared Motors

- Power range from 0.03 kW to 75 kW
- 10 gear sizes for torques ranging from 90 Nm to 18500 Nm
- Gearbox housing with integral torque arm
- High efficiency through 2-stage base design
- High protection rating of IP65 as standard

Bevel Geared Motors

- Power range from 0.03 kW to 75 kW
- 10 gearbox sizes for torques ranging from 80 Nm to 18500 Nm
- Right angle with universal, space-saving mounting options
- High efficiency through 2-stage base design
- High protection rating of IP65 as standard

Worm Geared Motors

- Power range from 0.03 kW to 5.5 kW
- 8 gearbox sizes for torques ranging from 25 Nm to 1000 Nm
- Hollow shaft version available from 25 Nm
- Heavy duty worm gearing for a long service life
- High protection rating of IP65 as standard

Monorail Geared Motor Drives

- Torque rating from 30 Nm to 680 Nm
- Radial force up to 25,000 N
- Gearboxes with a wide range of mounting options
- High protection rating of IP65 as standard
- Improved efficiency
- low energy consumption - ideal for travel drives
- Reverse motion of gearbox possible with released brake

AsepticDRIVE

- Motor without cooling ribs and fan
- Available with helical, shaft-mounted, bevel and worm gearboxes
- Motor winding with thermistors and ISO class F as standard
- IP67 and IP69K protection ratings with alkali and acid-resistant coating as standard.
- Motor connection through standard, round stainless steel connector

CleanDRIVE

- Motor without cooling ribs and fan
- Available with helical, shaft-mounted, bevel and worm gearboxes
- Motor winding with thermistors and ISO class F as standard
- Motor connection through a standard terminal box or stainless steel cable gland

HiflexDRIVE

BK04 gearbox

- Torque	80 Nm
- Gear reductions	7.25 – 63.33

BK08 gearbox

- Torque	200 Nm
- Gear reductions	4.44 - 102.5

BK17 gearbox

- Torque	330 Nm
- Gear reductions	4.54 - 108.6

Motors

- Output power	0.12 kW ... 3.0 kW
- Efficiency classes	no rating and IE1 to IE4
- Enclosure	IP65 (standard) IP67 / IP69K (optional)

Energy-efficient motor solutions

Mains Supply

■ IE1 asynchronous technology	0.12 kW – 45 kW
■ IE2 asynchronous technology	0.12 kW – 45 kW
■ IE3 asynchronous technology	0.12 kW – 45 kW
■ IE4 asynchronous technology	0.55 kW – 4 kW

Inverter Duty

■ IE3 PMSM-technology	1.5 kW – 15 kW
■ IE4 PMSM-technology	0.55 kW – 11 kW

Energy-efficient motor solutions for explosion hazard areas

The S series in permanent magnet synchronous motors (PMSMs) offers variable-speed geared motors in efficiency class IE4 for use in explosion hazard areas[1].

■ Design torque M_N:	5 Nm – 48 Nm
■ Rated power P_N:	0.75 kW – 15 kW
■ Increased safety for zone 1	II 2 G Ex e IIC T1 - T3 Gb
■ Dust explosion protection – Zone 21	II 2 D Ex tb IIIC T 160°C ... 120° Db

[1] Individual motor designs can show lower efficiency classes than IE4 at rated torque.

EtaK2.0 Decentral Solutions

- PMSM enabled
- Integrated safety technology and field bus communication according to specific needs
- Modular structure minimises spare parts stock
- Energy savings of up to 30 % possible under partial load conditions
- Suited to extremely harsh environments thanks to IP65 enclosure rating
- 200 % overload current (3 s)
- Sensorless vector control
- CANopen, Profibus, Profinet, EtherCAT, EtherNet/IP and AS-Interface
- STO safety function

Energy Efficient Geared Motors

Bauer Gear Motor - profile

Submersible Solutions

- **Special sealing concepts** for maximum leakage protection
- **Reinforced bearings** for higher strength and longer service life
- **Shafts** available on request in V4A steel or coating
- **Motor Connection**
  - Standard with cast terminal box
  - Optional with special plug connection
- **Additional features**:
  - Special design for continuous submersible operation
  - Electronic leakage detection available on request
  - Brakes available in IP68 design
  - Water depths of 5m (deeper on request)
- **Corrosion category Im2** based on DIN ISO 12944-5

Customised geared motor solutions for all applications

- Special applications
- Special adaptations
- Special environments
- Series production

Based on our modular, geared motor programme, we offer specific solutions for applications in all key markets such as, for example, food & beverage, energy, wastewater, concrete, metals and material handling in applications such as washdown conveyor systems, rolling mills, monorail systems and overhead conveyors, sludge thickeners, cranes, fans and blowers and turbines. Our aim is to provide our customers with products tailored to their needs. At the same time, we take care to ensure that a geared motor solution will prove to be especially profitable throughout its entire life cycle.

We already equip our geared motors with highly efficient permanent magnet motors to achieve low life cycle costs because low energy consumption will be particularly important in the future. We are very confident that we are once again pioneers in this sector

Learn more about Bauer Gear Motor, its products and philosophy at www.bauergears.com.

1

General

Advantages of Bauer-Geared Motors 17
Bauer Gearmotors 17
Bauer Gearboxes 17
Bauer Motors 17
Bauer Brakes 17

Bauer Gearmotors

- Low operating costs due to a high total efficiency
- 2-stage gearbox concept gives a longer lifetime due to a reduced number of moving parts
- Lower servicing costs due to a modular system
- No additonal protective measures (e.g. dusty environment) through the IP65 enclosure as standard
- The electrical design of the motor is aligned to the gearbox
- Quick reaction time in emergency situations (Breakdowns etc.) through Fast Assembly Delivery (within 24 hours)

Bauer Gearboxes

- Easy access to the fixation points reduces assembly times and installation costs
- Low servicing costs as the lubrication change results in normal duty with a lubrication temperature of approx. 80 °C first after 15 000 operating hours when using CLP 220 or 25 000 operating hours when using PGLP 220 / PGLP 460.
- 2-stage gearbox concept reduces the spare part stocking
- A variety of attachment possibilities (Foot, Flange, Solid and Hollow shafts, Torque arms)
- Sealed housing design reduces the risk of oil leakage and increases the oil lifetime
- The large housing volume allows usage in very harsh environments

Bauer Motors

- Low operating costs due to high motor efficiencies (IE1, IE2, IE3 and IE4 as Standard)
- All efficiency classes in the same motor frame size. No motor size change.
- Low installation costs through CAGE CLAMP® instead of the classical terminal block connection
- A variety of additional designs (connectors, brakes, backstops, rain covers, forced cooling, encoders etc.)
- Cost reduction of connection cabling and avoidance of additional protective elements (chokes, filters etc.), through built-on inverters (ETA-K2.0)
- Ideal for frequency inverter duty through insulation class F as standard

Bauer Brakes

- Low servicing costs through long lifetime of the brake discs (without adjustment)
- Brake-Motor correlation tailor made to the application by virtue of on average three brake sizes per motor size
- A variety of designs (lockable and non-lockable hand release, microswitch, heaters)
- Robust design for heavy duty applications
- Enclosure IP65 as Standard
- Very high wear resistance

2

Product Description

Selection of geared motors **21**
Installed positions of geared motors 21
Notes on safety 21
Guards for rotating parts 21
Touch protection 21
Operating noise 21
Painting and corrosion protection 21
Modular system overview **22**

Installed positions of geared motors

Bauer geared motors can be supplied for any type of fitting position. Vertical installation positions (motor-down) place a particularly severe strain on the shaft seal. It is advisable to avoid this arrangement especially at high motor speeds (e.g. above 1800 r/min) and continuous operation

Notes on safety

See the notes on safety regarding installation in Operationg Indstructions.

Guards for rotating parts

The shrink disk (SSV) guards required under the German law relating to technical materials (Law Concerning Industrial Equipment - Equipment safety law GPSG) or by the Accident Prevention Regulations (UVV) are not included in the standard scope of supply because they are fitted by the customer in most cases, or the risk of accident can be eliminated by suitable installation.

See the Operating Instruction.

Touch protection

The fan hoods, via the externally mounted fan wheels, of the entire B2000 motor series fulfil the protection against contact with the standard finger (Ø12 mm).

Operating noise

The typical operating noise levels of BAUER geared motors are within the limits stipulated by VDI directive 2159 for gears and EN 60034-9, Table 2 for motors.

For physical reasons, low-ratio, high-speed gears produce more noise than medium- and high-ratio gears operating at low speeds.

Painting and corrosion protection

BAUER geared motors are spray-painted in RAL 7031 to DIN 1843 as standard. Other RAL colours are available at extra cost.

The output shafts are shipped in protective sleeves or with a protective coating to prevent corrosion.

The prerequisite for achieving a long protection period is the right choice of coating. The coating system from Bauer Gear Motor GmbH, based on DIN EN 12944-5, offers suitable and long-lasting corrosion protection for all areas of application.

Category	Loads	Examples of indoor areas	Examples of outdoor areas	Possible IP-Protection class
Standard	Insignificant	Insulated and heated buildings with neutral atmosphere	—	IP54 IP65
C1	Insignificant	Insulated and heated buildings with neutral atmosphere	—	IP54 IP65
C2	Low	Uninsulated and unheated buildings where condensation can occur, e.g. warehouses, sports halls	Atmosphere with low corrosive load, mostly rural areas	IP54 IP65
C3	Moderate	Production rooms with high relative humidity and some air pollution, e.g. facilities for food production, laundries, breweries, dairies	Urban and industrial atmosphere, moderate pollution by sulphur dioxide. Moderate coastal area with low salt pollution	IP65 IP66
C4	Strong	chemical plants, swimming pools, objects above sea water	Industrial and coastal areas with moderate salt exposure	IP65 IP66
C5-I	Very strong (industry)	areas with almost constant condensation and heavy contamination	Industrial areas with high relative humidity and aggressive atmosphere	IP66
C5-M	Very strong (sea)	areas with almost constant condensation and heavy contamination	Coastal and offshore areas with high salt pollution, buildings with almost constant condensation and heavy air pollution	IP66
IM2	Sea or brackish water	IP68 Underwater Drives	Port areas, lock gates, moles, offshore installations	IP68
Aseptics (proprietary development of Bauer)	Very strong	For indoor and outdoor use with very high environmental pollution and in hygiene-sensitive areas, in each case with high-pressure cleaning with chemical cleaning agents		IP67/IP69K

Duration of protection according to DIN EN ISO 12944-5: medium (M) 5 to 15 years

Product Description

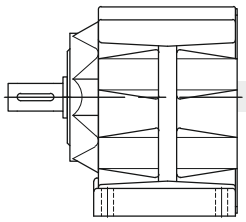
Modular system overview

Gear design

Motor terminal box design

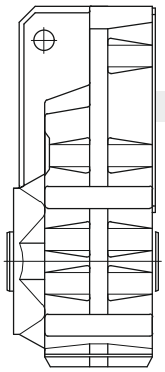
BG

Helical gear



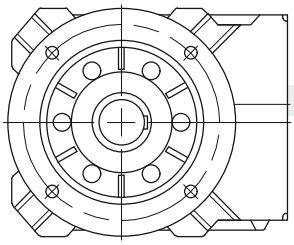
BF

Shaft-mounted gear



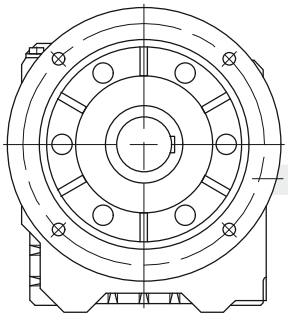
BK

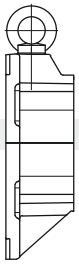
Bevel gear



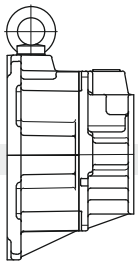
BS

Worm gear

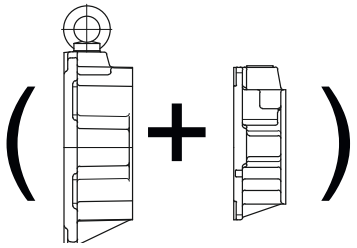




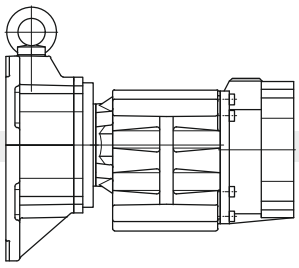
System cover



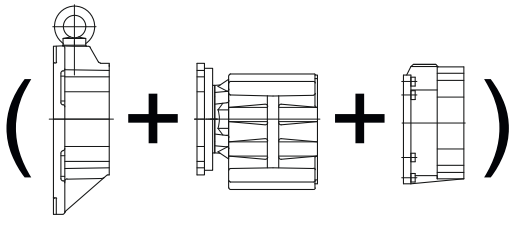
Pre-stage



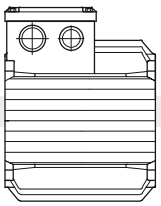
Pre-stage + System cover



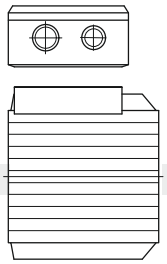
Intermediate gear



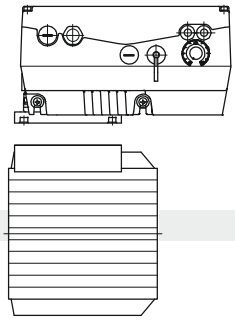
(System cover + Intermediate gear + System cover)



Motor with cast-on terminal box (KAG)



Motor with screwed-on terminal box (TB)

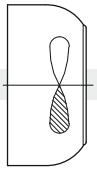


Motor with ETA-K-Converter

Covers B-Side

Extensions Standard Motor

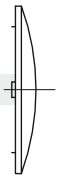
Extensions Motor with Brake



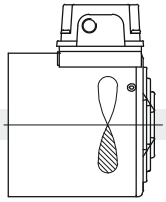
Standard fan cover

Encoder

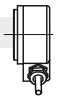
2. Shaft end



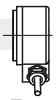
Rain cover



Forced Cooling



Encoder

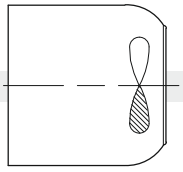


Encoder

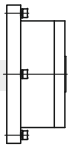
Brake

2. Shaft end

Manual release

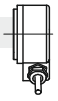


Brake fan cover



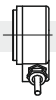
Backstop

Manual release



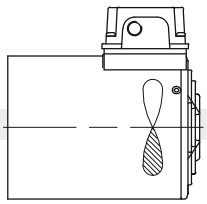
Encoder

Brake

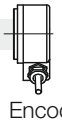


Encoder

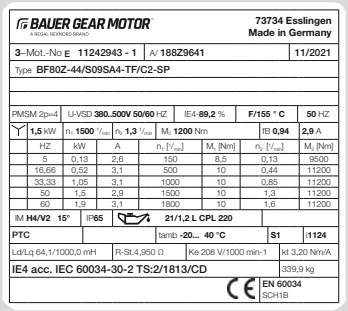
Manual release



Forced cooling with brake



Encoder


BAUER GEAR MOTOR
A NEGAL TECHNOCO BRAND

73734 Esslingen
Made in Germany

3~Mot.-No E 11242943 - 1	A/ 188Z9641	11/2021
Type BF80Z-44/S09SA4-TF/C2-SP		

PMSM 2p=4	U-VSD 380..500V 50/60 HZ	IE4-89,2 %	F/155 ° C	50 HZ
1,5 kW	n_1 1500 $^1/_{min}$	n_2 1,3 $^1/_{min}$	M_2 1200 Nm	IB 0,94 2,9 A

	HZ	kW	A	n_1 [$^1/_{min}$]	M_1 [Nm]	n_2 [$^1/_{min}$]	M_2 [Nm]
	5	0,13	2,6	150	8,5	0,13	9500
	16,66	0,52	3,1	500	10	0,44	11200
	33,33	1,05	3,1	1000	10	0,85	11200
	50	1,5	2,9	1500	10	1,3	11200
	60	1,9	3,1	1800	10	1,6	11200

IM H4/V2 15°	IP65	21/1,2 L CPL 220		
PTC		tamb -20... 40 °C	S1	I1124
Ld/Lq 64,1/1000,0 mH	R-St.4,950 Ω	Ke 208 V/1000 min-1	kt 3,20 Nm/A	
IE4 acc. IEC 60034-30-2 TS:2/1813/CD			339.9 kg	
CE			EN 60034 SCH1B	

3

Type Designations

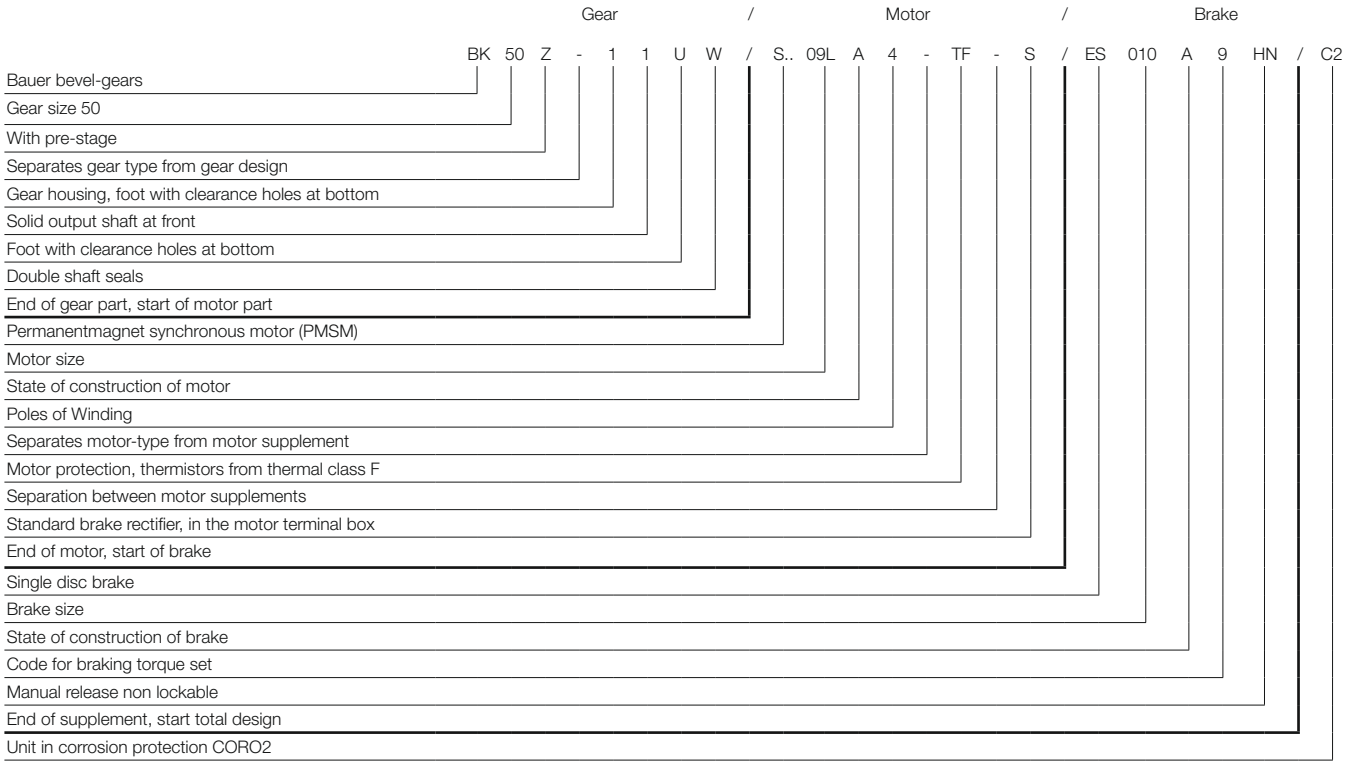
Significance of type designation **27**
BG-series helical-geared motor **28**
BF-series shaft-mounted geared motor **29**
BK-series bevel-geared motor **30**
BS-series worm-geared motor **31**
Versions and options **32**
BG and BF series 32
BK and BS series 32
Motor **33**
Permanentmagnet synchronous motor (PMSM) 33
Motor protection 33
Brake rectifier in motor terminal box 33
Plug connector 33
Heavy-duty fan 33
Protective cover 33
CleanDrive 33
Supplement types **34**
Brake 34
Digital and analogue encoder 34
Second shaft end 34
Forced ventilation 34
Overall design 34

Example: Bauer bevel-geared motor with brake and standard add-ons

Significance of type designation

The type designation of a BAUER geared motor is a code designating all the features in the drive configuration.

The build-up of the type designation is explained with the help of the following example of a bevel geared motor with brake and series options.

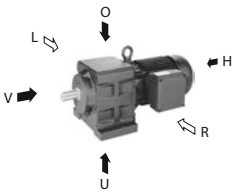


Type Designations

BG-series helical-geared motor

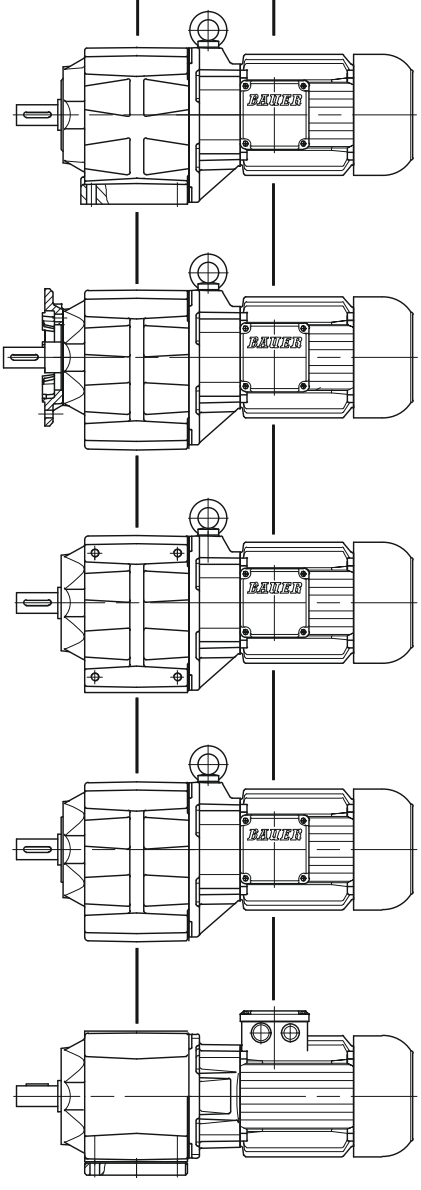
BG 10 Z X-71 / S..08 LA4

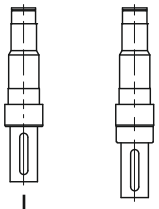
- Gear type
- Gear size
- Pre-stage
- Re-inforced bearings (only BG10)
- Code for gear design
- Code for shaft design
- Three-phase motor
- Motor size
- Core lenght
- Design edition
- Number of poles



- Z-. . — Gear with pre-stage
- G-. . — Tandem gear

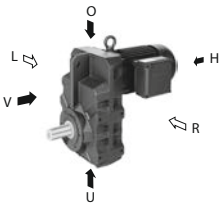
- 1 . — Foot with clearance holes
- 2 . — Small A-flange with clearance holes
- 3 . — Standard A-flange with clearance holes
- 4 . — Large A-flange with clearance holes
- 6 . L — Foot with tapped holes, left
- 6 . R — Foot with tapped holes, right
- 6 . LR — Foot with tapped holes, left and right
- 7 . — C-flange with threaded holes
- 8 . — Completely machined
- 9 . L — Foot plate, left
- 9 . R — Footplate, right
- 9 . LR — Footplate, left and right





- . 1 Solid shaft on gear side V
- . 7 Solid shaft on gear side V for flange as from BG10

.. W Double shaft seals



Gear type
Gear size
Pre-stage
Re-inforced bearing (≥BF60)
Code for gear design
Code for shaft design
Three-phase motor
Motor size
Core lenght
Design edition
Number of poles

BF 70 Z X-74 / S..11 LA4

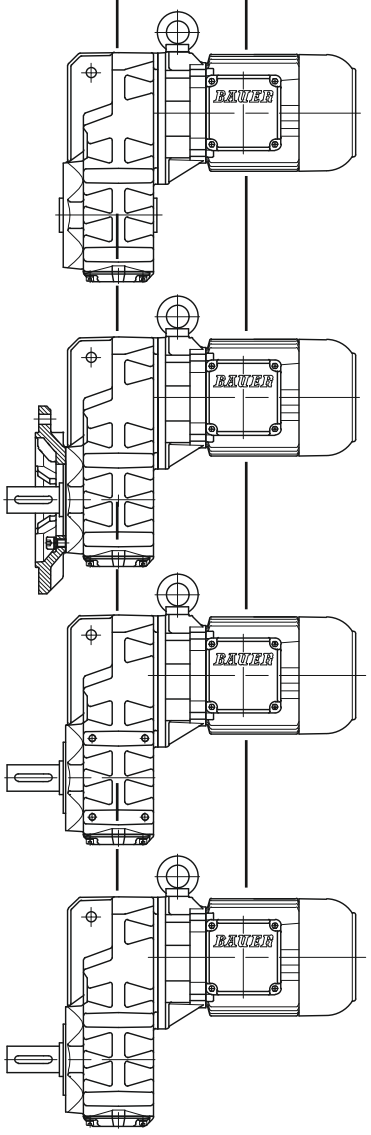
Z-. . — Gear with pre-stage
X- . . — Gear with re-inforced bearing
G-.. — Tandem gear

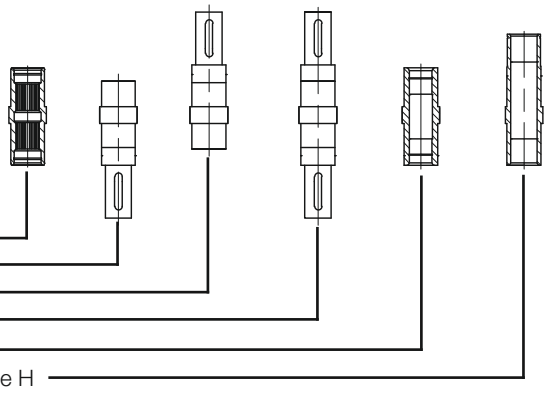
0 . — Cast-in torque arm

2 . — Small A-flange with clearance holes
3 . — Standard A-flange with clearance holes
4 . — Large A-flange with clearance holes

1 . LR — Foot with clearance holes left and right
6 . L — Foot with threaded holes, left
6 . R — Foot with threaded holes, right
6 . LR — Foot with threaded holes, left and right

7 . — C-flange with threaded holes
8 . — Completely machined





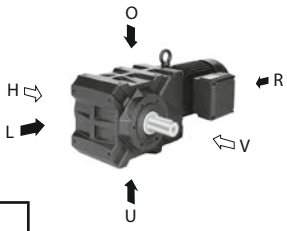
. 0 Splined shaft acc. DIN 5480
. 1 Solid shaft on gear side V
. 2 Solid shaft on gear side H
. 3 Solid shaft on gear side V und H
. 4 Hollow shaft with keyway
. 5 Hollow shaft for shrink disc SSV on gear side H
.. W Double shaft seals
.. A Cover for shrink disc SSV

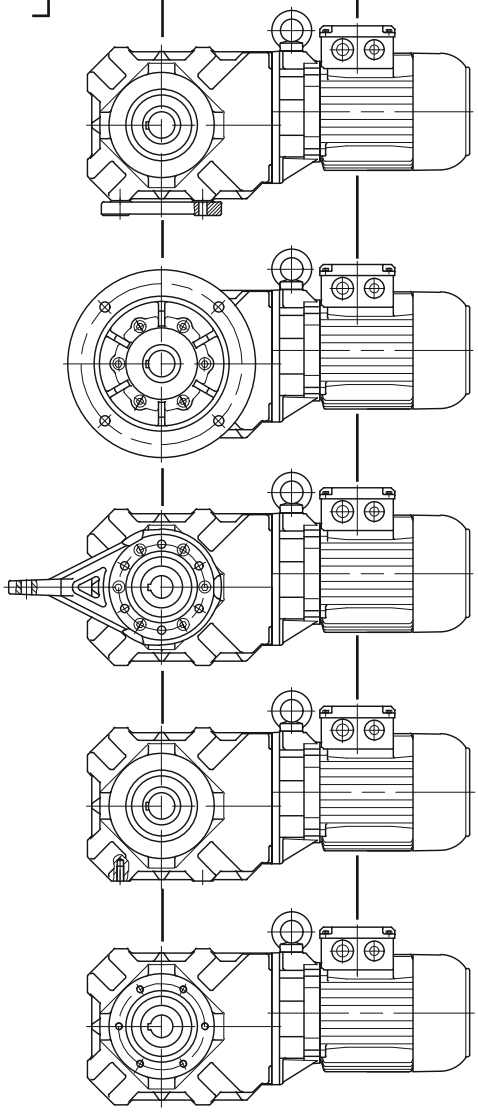
Type Designations

BK-series bevel-geared motor

BK 20 Z X-64 / S..06 LA 4

- Gear type
- Gear size
- Pre-stage
- Re-inforced bearings (only BK20)
- Code for gear design
- Code for shaft design
- Three-phase motor
- Motor size
- Core lenght
- Design edition
- Number of poles





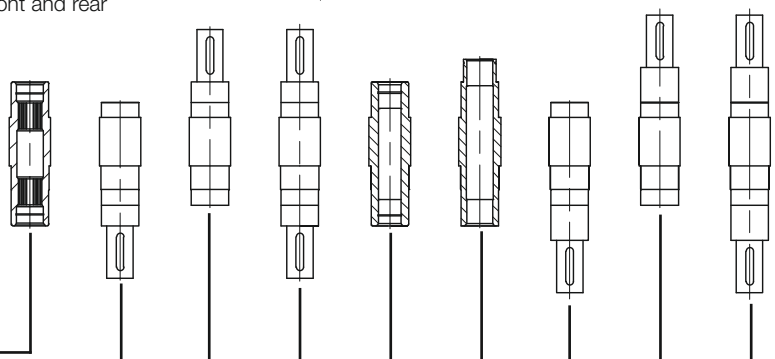
1 . U — Foot with clearance holes, bottom
1 . L — Foot with clearance holes, left
1 . O — Foot with clearance holes, top

2 . V — small A-flange with clearance holes , front
3 . V — Standard A-flange with clearance holes, front
4 . V — large A-flange with clearance holes, front
. . H — A-flange, rear
. . VH — A-flange, front and rear

5 . V — Torque arm at front
5 . VL — Torque arm, front to left
5 . VO — Torque arm, front to top
5 . VU — Torque arm, front to bottom
5 . HL — Torque arm, rear to left
5 . HO — Torque arm, rear to top
5 . HU — Torque arm, rear to bottom

6 . U — Foot with threaded holes, bottom
6 . L — Foot with threaded holes, left
6 . O — Foot with threaded holes, top

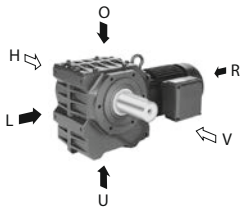
7 . V — C-flange with threaded holes, front
7 . H — C-flange with threaded holes, rear
7 . VH — C-flange with threaded holes, front and rear
8 . — Completely machined

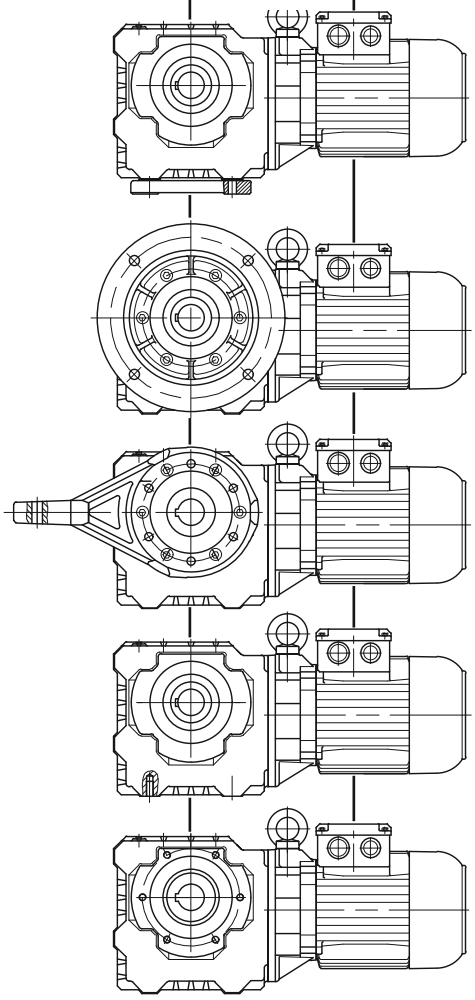


. 0 Splined shaft acc. DIN 5480
. 1 Solid shaft on gear side V
. 2 Solid shaft on gear side H
. 3 Solid shaft on gear side V and H
. 4 Hollow shaft with keyway
. 5 Hollow shaft for shrink disc SSV on gear side H
. 7 Solid shaft at gear side V for flange (only BK06)
. 8 Solid shaft at gear side H for flange (only BK06)
. 9 Solid shaft at gear side V and H for flange (only BK06)
. . W Double shaft seals
. . A Cover for shrink disc SSV

BS 20 Z X-64 / S..06 LA 4

- Gear type
- Gear size
- Pre-stage
- Code for gear design
- Code for shaft design
- Three-phase motor
- Motor size
- Core lenght
- Design edition
- Number of poles





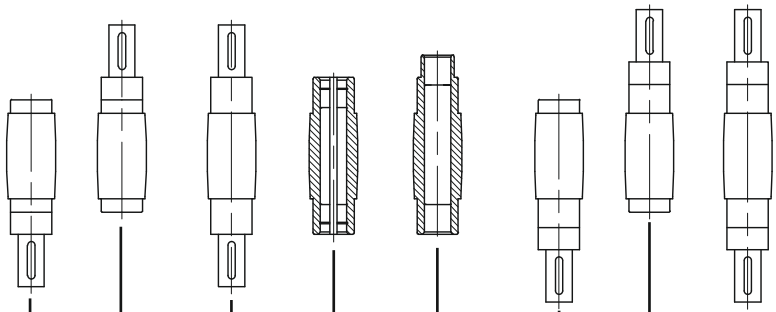
1 . U — Foot with clearance holes, bottom
1 . L — Foot with clearance holes, left
1 . O — Foot with clearance holes, top

2 . V — small A-flange with clearance holes , front
3 . V — Standard A-flange with clearance holes, front
4 . V — large A-flange with clearance holes, front
. . H — A-flange, rear
. . VH — A-flange, front and rear

5 . V — Torque arm at front
5 . VL — Torque arm, front to left
5 . VO — Torque arm, front to top
5 . VU — Torque arm, front to bottom
5 . HL — Torque arm, rear to left
5 . HO — Torque arm, rear to top
5 . HU — Torque arm, rear to bottom

6 . U — Foot with threaded holes, bottom
6 . L — Foot with threaded holes, left
6 . O — Foot with threaded holes, top

7 . V — C-flange with threaded holes, front
7 . H — C-flange with threaded holes, rear
7 . VH — C-flange with threaded holes, front and rear
8 . — Completely machined



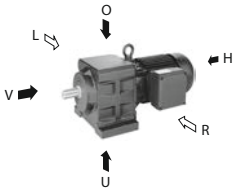
. 1 Solid shaft at gear side V
. 2 Solid shaft at gear side H
. 3 Solid shaft at gear side V and H
. 4 Hollow shaft with keyway
. 5 Hollow shaft for shrink disc SSV
. 7 Solid shaft at gear side V for flange (only BS02 and BS03)
. 8 Solid shaft at gear side H (only BS02 and BS03)
. 9 Solid shaft at gear side V and H (only BS02 and BS03
. . W Double shaft seals as from BS10
. . A Cover for shrink disc SSV as from BS10

Type Designations

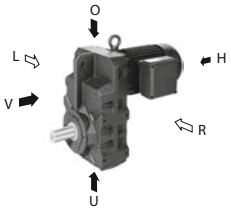
Versions and options

BG and BF series

BG series: type H4



BF series: type H4



V = Front
The side of the gear unit facing away from the motor or the source of motive power

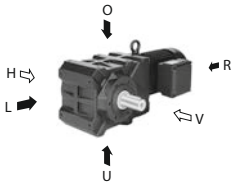
H = Rear
The side of the gear unit facing toward the motor or the source of motive power

L = Left
The left side of the gear unit as viewed from the output shaft side of type B3 for the BG series or type H4 for the BF series

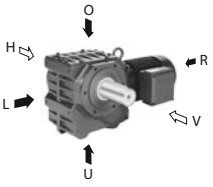
R = Right
The right side of the gear unit as viewed from the output shaft side of type B3 for the BG series or type H4 for the BF series

BK and BS series

BK series: type H1



BS series: type H1



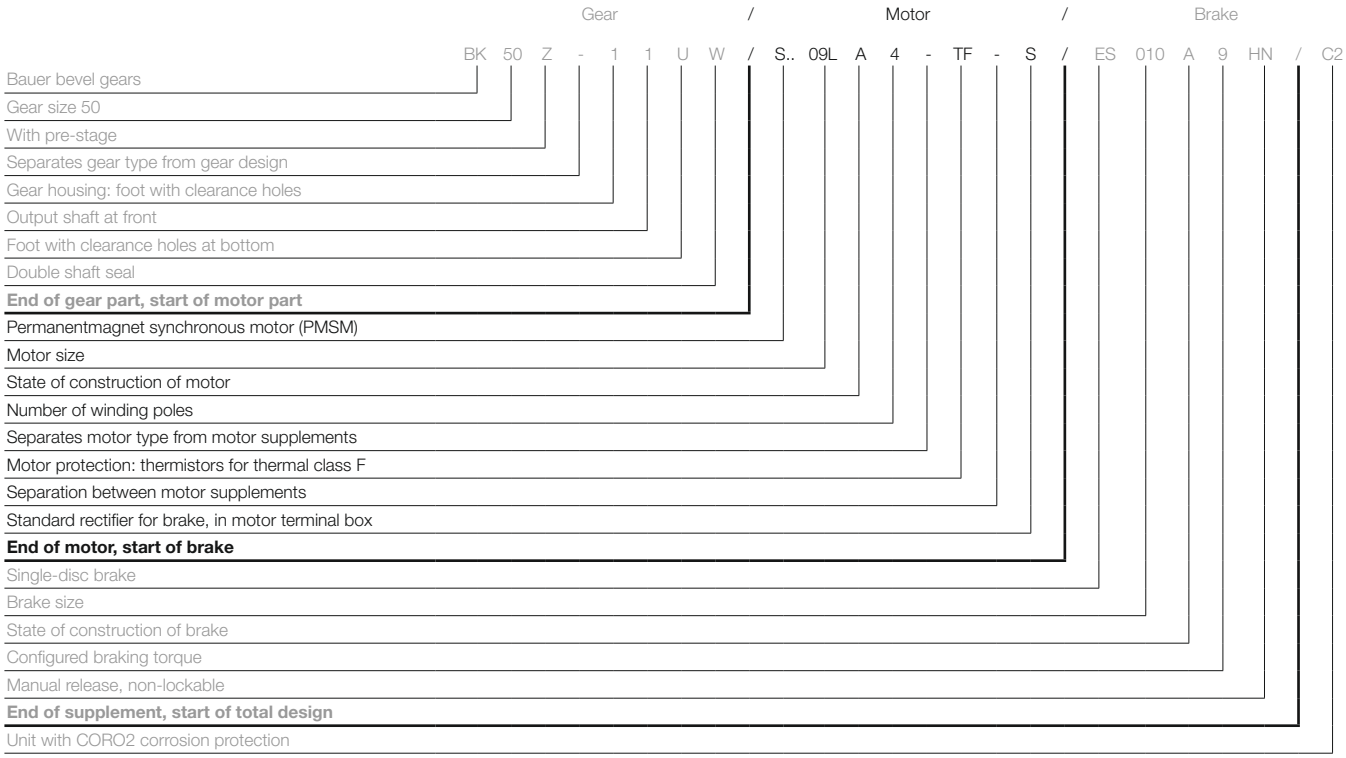
V = Front
The side of the gear unit facing toward the viewer looking toward the type H1 unit

H = Rear
The side of the gear unit facing away from the viewer looking toward the type H1 unit

L = Left
The left side of the gear unit as viewed from the output shaft side of type H1, or the torque brace oriented to the left

O = Top
The top side of the gear unit as viewed from the output shaft side of type H1, or the torque brace oriented upwards

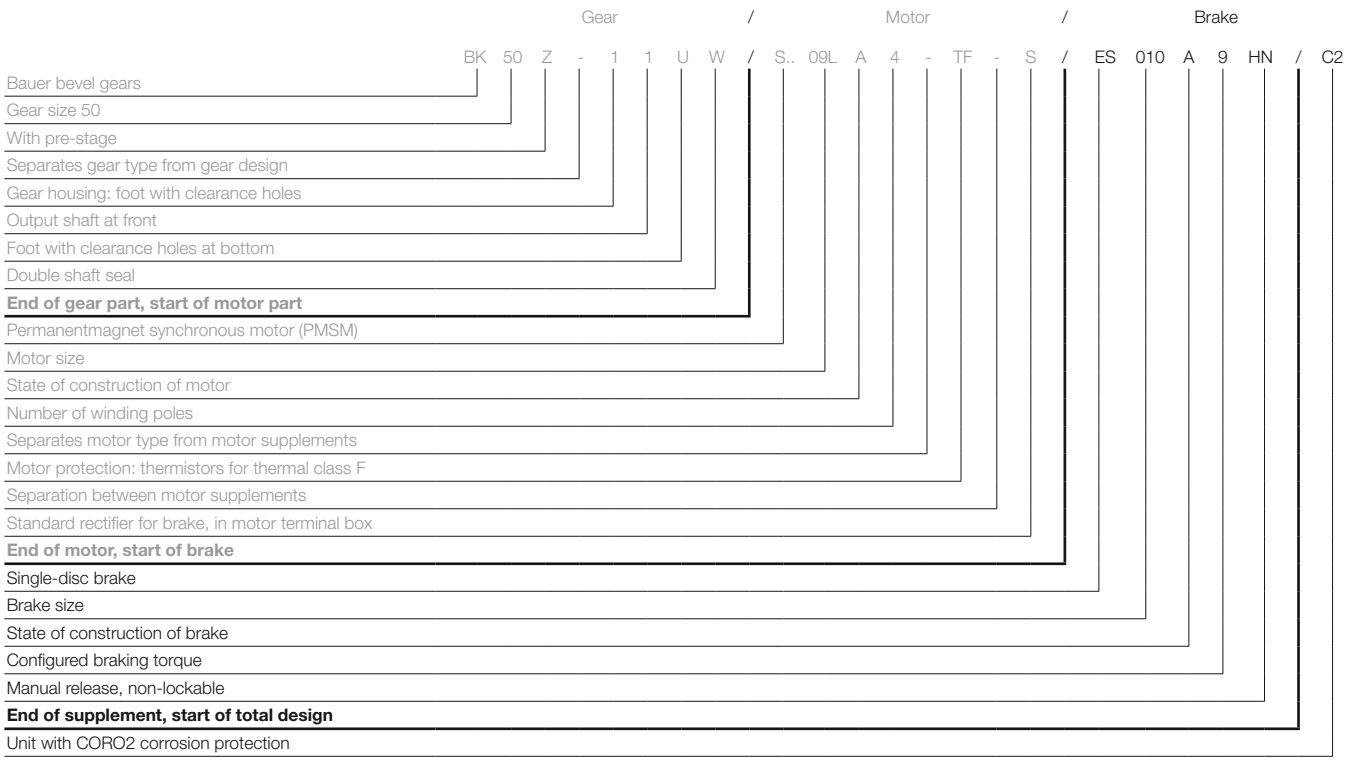
U = Bottom
The bottom side of the gear unit as viewed from the output shaft side of type H1, or the torque brace oriented downwards



Permanentmagnet synchronous motor (PMSM)	S	=	Permanentmagnet synchronous motor (PMSM)	
	. A	=	Aseptic motor (germ-free drive)	
	. N	=	Motor without gear unit; foot-mount version	
	. NF	=	Motor without gear unit; flange-mount version	
	. U	=	Unventilated (no forced ventilation)	
Motor protection	TB	=	Thermistor 140°	
	TF	=	Thermistor 160°	
	TH	=	Thermistor 180°	
	TEB	=	Thermistor warning/shutdown 120°/140°	
	TBF	=	Thermistor warning/shutdown 140°/160°	
	TFH	=	Thermistor warning/shutdown 160°/180°	
	TOB	=	Thermostatic switch, NC 140°	
	TOF	=	Thermostatic switch, NC 160°	
	TOH	=	Thermostatic switch, NC 180°	
	TSB	=	Thermostatic switch, NO 125°	
	TSF	=	Thermostatic switch, NO 160°	
	TSH	=	Thermostatic switch, NO 180°	
	TX	=	Other	
Brake rectifier in motor terminal box	S	=	Standard rectifier	SG
	E	=	Special rectifier	ESG
	M	=	Special rectifier	MSG
Plug connector	ST	=	Harting (other)	
Heavy-duty fan	SL			
Protective cover	D			
CleanDrive	CD	=	Aseptic drive with cable	

Type Designations

Supplement types



3

Brake	E	=	Single-disc brake
	ES	=	Single-disc holding brake
	EH	=	Single-disc holding brake in heavy duty
	ZS	=	Two-disc holding brake
	ESX	=	Single-disc service brake
	EHX	=	Single-disc service brake in heavy duty version
	ZSX	=	Two-disc service brake
	… 010	=	Brake size
	… … A	=	Construction state
	… … . 9	=	Code for configured braking torque
	… … . . HN	=	Manual release (not lockable)
	… … . . HA	=	Manual release (lockable)
Digital and analogue encoder	G		
Second shaft end	ZW	=	With key
	ZV	=	With square shaft
Forced ventilation	FV		
Overall design	UL	=	US version
	C1	=	Coro1 corrosion protection
	C2	=	Coro2 corrosion protection
	C3	=	Coro3 corrosion protection
	C4	=	Coro4 corrosion protection
	C5I	=	Coro5 corrosion protection
	C5M	=	Coro5 corrosion protection
	IM2	=	Protection against sea or brackish water
	SP	=	Non-catalogue version

4

Gear Motor Selection

Selection of geared motors **259**
Drive configuration **260**
Drive configuration - General 260
Required data for drive configuration 260
Determining the motor power 261
Determining the required torque 261
Determining the gear reduction ratio 261
Determining the factor of inertia 261
Determining the shock load 262
Determining the minimum service factor f_{Bmin} 262
Brake specification 262
Motor configuration **263**
Torque-speed characteristic 263
Radial and axial forces on the output shaft **267**
Maximum allowable radial force at force application point X 267
Bearing load limit 267
Shaft strength 268
Helical gear unit BG series 268
Shaft-mounted gear unit BF series 269
Bevel gear unit BK series 270
Worm gear unit BS series 270
Transmission components 271
Factor f_z for the type of transmission component 271
Axial force 271
Shock loads of machinery **272**

BAUER GEAR MOTOR
A REGAL REXNORD BRAND

Bauer Gear Motor GmbH
Eberhard-Bauer-Str. 37 73734 Esslingen
+49 (711) 3518-0 info.@bauergears.com

Information
Company: _____
Contact person: _____
Phone: _____
Email: _____

Questionnaire for geared motor selection

Gearbox type

☐ BG
Helical gears BG

☐ BF
Parallel shaft gears

☐ BK
Bevel gears

☐ BS
Worm gears

☐ Hiflex
☐ Standard
☐ Stainless

Number of items: _____
Country of operation: _____

Technical Data

Output shaft speed n2: _____ rpm
Torque M2: _____ Nm
Motor power: kW
Temperature class: ☐ B ☐ F ☐ H
Rated speed: ☐ 1500 1/min ☐ 3000 1/min

Operation

Service factor required: min _____ max _____
or Type of loads (conveyor, mixer, crusher, centrifuge, etc.): _____
Number of switching per hour: _____

Daily operating time:	☐ 8 hour	☐ 16 hour	☐ 24 hour
	☐ Light shock load	☐ Medium shock load	☐ Heavy shock load

Output shaft design

☐ Solid shaft on side V/H/VH: _____
☐ Hollow shaft with keyway
☐ Special shaft dimensions (DxL), _____ x ____ mm
☐ Second shaft end on motor (DxL), ___ x ___ mm
☐ Solid shaft without parallel key
☐ Hollow Shaft for shrink disk
☐ Shrink disk
☐ Second shaft end on motor with parallel key (ZW)
☐ Second shaft end on motor with square shaft (ZV)
☐ Other (sketch attached)
☐ Splined Shaft acc. to DIN 5480

Mounting position

☐ Foot with clearance hole	☐ A-Flange	☐ rear	☐ bottom
☐ Foot with tapped holes	☐ C-Flange with tapped holes	☐ front	☐ top
☐ Torque arm with rubber buffers	☐ Foot plate	☐ left	☐ right

Mounting (acc. to page. 2 - H1, H2, V1, V2, etc.): _____
Terminal box position (acc. to page. 3): ☐ I ☐ II ☐ III ☐ IV
other: _____

Painting
☐ Standard RAL 7031
☐ other RAL _____

Environment

IP prot. type per EN 60034: ☐ IP54 ☐ IP65 ☐ IP66 ☐ IP67 ☐ IP68 ☐ IP69K
☐ Indoor installation ☐ Outdoor installation ☐ Corrosive environment: _____
Ambient temperature range: from _____ °C to + _____ °C Relative humidity: _____ %

Motor Accessories

☐ Brake, voltage: _____ V
☐ Brake wear/function monitoring
☐ Thermistor motor protection
☐ Temperatursensor KTY
☐ Encoder type _____
☐ Rain cover
Required braking torque: _____ Nm
☐ Thermostats motor protection
☐ Temperatursensor PT100
No. of pulse: _____
☐ Forced ventilation
☐ Manual brake release
☐ Brake heater
☐ Anticondensatemotor heater
Supply voltage ☐ HTL \ ☐ TTL

Additional requirements may be specified in a free written form.

Drive configuration - General

Motions are necessary in production plants and equipment for the manufacture of goods and products. Geared motors are used to implement these motions in stationary production equipment. The objective of drive configuration is to obtain the optimal motor for each type of motion.

Motions in machines and equipment vary considerably. Experienced design engineers reduce the necessary motions to a few standard types:

These are:

- continuous linear motion
- reciprocating linear motion
- horizontal linear motion
- vertical or oblique linear motion for lifting and lowering loads
- continuous rotary motion and reciprocating rotary motion

All motions can be divided into:

- an acceleration phase
- a constant-velocity phase
- a braking (deceleration) phase

These motion phases must be examined separately when sizing a drive, in order to determine the phase with the highest load. After the maximum load has been determined, the drive system can be selected.

See our separate “Design Guide” publication for assistance with various use cases.

Required data for drive configuration

In addition to the data on (Specification of geared motors), the following data is necessary for drive configuration:

Designation	Description	Unit
t_d	Operating time per day	[h]
t_a	Deceleration time	[s]
n_2	Output speed	[rpm]
n	Rated rotor shaft speed	[rpm]
J	Moment of inertia	[kgm²]
J_{ext}	External moment of inertia	[kgm²]
J_{ext}	External moment of inertia referred to the rotor shaft	[kgm²]
J_{rot}	Rotor moment of inertia	[kgm²]
F	Force	[N]
m	Mass	[kg]
v	Velocity	[m/s]
a	Acceleration	[m/s²]
g	Earth gravitational constant	[m/s²]
P_{dyn}	Dynamic power	[kW]
P_s	Static power	[kW]
P	Power	[kW]
M_2	Output torque	[Nm]
M_N	Rated torque at rotor shaft	[Nm]
M_a	Deceleration torque	[Nm]
M_L	Braking or driving load torque	[Nm]
M_{grenz}	Specific limiting torque of gearbox at gear ratio i	[Nm]
M_{Br}	Rated braking torque	[Nm]
i	Gear reduction ratio	
FI	Inertia ratio	

Drive configuration process

Motor configuration

Determining the motor power

The required power can generally be calculated as follows:

$$P = \frac{F \times v}{\eta}$$

As previously described, all motions are divided into an acceleration phase (dynamic power), a constant-velocity phase (static power), and a braking (deceleration) phase.

Depending on the type of motion, the force F necessary to overcome all opposing forces such as rolling friction, linear friction, gravitational force, acceleration and so on arising from the drive train has a strong influence on the required power and must be determined explicitly for each use case.

Determining the required torque

After the motor power has been determined, the required gearbox output torque can be calculated with:

$$M_2 = \frac{P \times 9550}{n_2}$$

Determining the gear reduction ratio

The gear reduction ratio is the ratio of the rated speed of the motor (see the motor data in Section 13) to the desired output speed of the geared motor.

$$i = \frac{n}{n_2}$$

Gearbox size selection

Determining the factor of inertia

The inertia ratio is the ratio of the sum of the moments of inertia of all masses driven by the motor and converted to the motor speed, including the moment of inertia of the motor rotor, to the moment of inertia of the rotor:

$$FI = \frac{J_{ext'} + J_{rot}}{J_{rot}} \quad \text{where} \quad J_{ext'} = \frac{J_{ext}}{i^2}$$

Determining the shock load

The shock load (see Sections 6, 7, 8 and 9) is determined from the inertia factor, the type of transmission component and the relative moment of acceleration.

Determining the minimum service factor f_{Bmin}

Based on the operating time per day, the cycle rate and the ascertained shock load, the service factor f_{Bmin} can be taken from the tables in Sections 6, 7, 8 and 9.

Based on this minimum service factor f_{Bmin}, select a geared motor from the tables that has a higher service factor as well as the required output speed, output torque and motor power.

Note: The service factor relates solely to the required torque for static operation needed by the application, which should be covered by the output torque of the selected geared motor. The dynamic portion is not taken into consideration here.

The actual service factor of the geared motor with regard to required torque for static operation can therefore be calculated as follows:

$$f_B = \frac{M_{gr}}{M_{2erf}}$$

The final step is to specify the accessory options for the geared motor.

Brake specification

Essentially it is necessary to determine, based on the amount of friction energy to be dissipated by the brake, whether the brake is a holding brake or a service brake.

See Section 14 for the definitions of holding brakes and service brakes.

Once all the necessary data and requirements are known, the required braking torque can be calculated as follows:

$$M_{br} = M_a \pm M_L$$

$$M_a = \frac{J \times n}{9{,}55 \times t_a}$$

If the specific application data is not known, for horizontally driven equipment we recommend selecting a braking torque that is 1.0 to 1.5 times the rated torque of the motor.

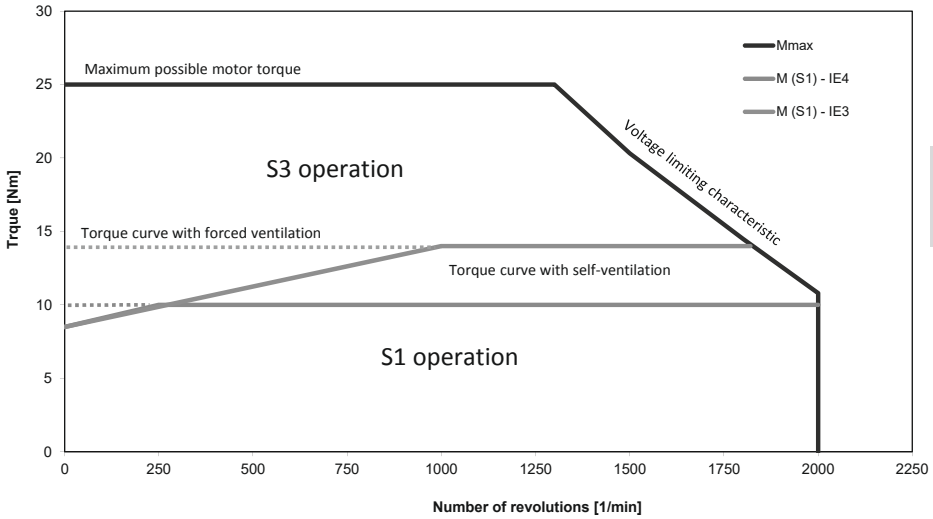
In the case of applications with significant external moments of inertia (Fl greater than 2) and with operating cycles per hour, the brake size must always be selected on the basis of the thermally allowable braking energy. See Section 14 for detailed information on brake configuration.

In the case of lifting equipment, for safety reasons a braking torque twice as large as the rated torque of the motor should always be selected.

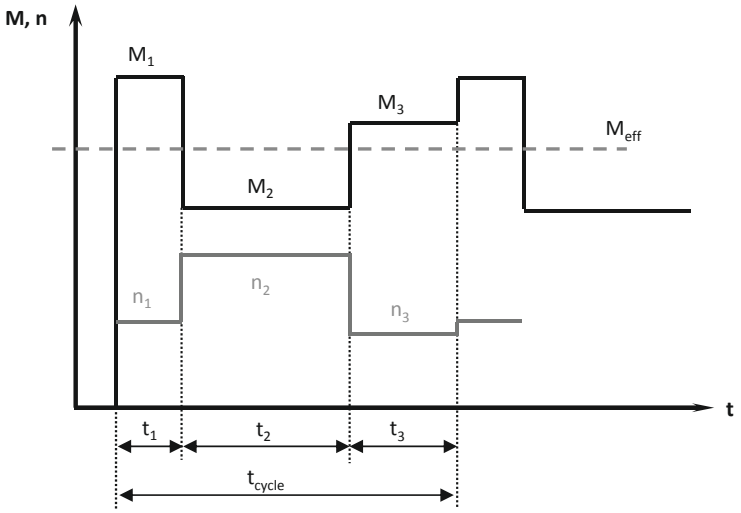
Torque-speed characteristic

The torque versus speed curve shows the operating characteristics of the PMSM.
The reference points shown schematically on the torque versus speed curve are significant criteria for motor selection.

Torque vs. Speed Curve



The motor is determined by the effective motor torque and the average motor speed.
Both values Meff and neff must be below the S1 limit characteristic curve of the motor to be selected.



Effective torque

$$M_{eff} = \sqrt{\frac{M_1^2 \cdot t_1 + M_2^2 \cdot t_2 + M_3^2 \cdot t_3 + ... + M_n^2 \cdot t_n}{t_1 + t_2 + t_3 + ... + t_n}}$$

Effective rpm

$$n_{eff} = \frac{n_1 \cdot t_1 + n_2 \cdot t_2 + n_3 \cdot t_3 + ... + n_n \cdot t_n}{t_1 + t_2 + t_3 + ... + t_n}$$

Acceleration

Dynamic power
The dynamic power is the power that accelerates the entire system (load, transmission components, gears and motor)

$$P_{dyn} = \frac{m \times a \times v}{\eta}$$

P_{dyn}	Dynamic power [W]
m	Mass [kg]
a	Acceleration [m/s²]
v	Speed [m/s]
η	Level of efficiency

Dynamic load torque

$$M_{dyn_1} = m \cdot a \cdot \frac{1}{\eta} \cdot \frac{D}{2} \cdot \frac{1}{i}$$

D	Impeller diameter
i	Gear reduction ratio

Constant speed

Static performance
The static power takes into account all forces that occur in the unaccelerated state. These include: rolling friction, frictional forces, lifting capacity on slopes and wind force.

$$P_S = \frac{F_F \times v}{\eta}$$

P_S	Static power [W]
F_F	Driving resistance [N]

Static load torque (simplified)

$$M_{statt} = m \cdot g \cdot \frac{1}{\eta} \cdot \frac{D}{2} \cdot \frac{1}{i}$$

g	Acceleration due to gravity

Deceleration

Deceleration torque

$$M_{dyn2} = m \cdot (-a) \cdot \eta_L \cdot \frac{D}{2} \cdot \frac{1}{i}$$

$$M_{VER} = M_{stat} + M_{dyn2}$$

M_{Verz} Deceleration torque

Load torques in the driving cycle

Acceleration phase

$$M_{Motor} = M_{stat} + M_{dyn1}$$

Constant speed

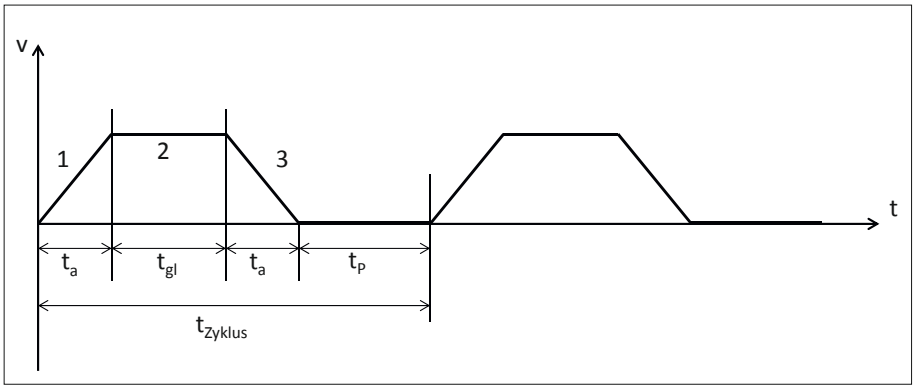
$$M_{Motor} = M_{stat}$$

Braking phase

$$M_{Motor} = M_{stat} + M_{dyn2}$$

Motor selection

Example:



Required dynamic torque on the motor (acceleration):	M1	=	20Nm
Required static torque on the motor:	M2	=	8,0Nm
Deceleration torque:	M3	=	10Nm
Acceleration time/deceleration time	t_a	=	0,5s
Duration constant travel	t_{gl}	=	5s
Cycle time	t_{Zykl}	=	10s
Motor speed for constant travel	n	=	1450 1/min

Effective motor torque and moderate motor speed

$$M_{eff} = \sqrt{\frac{M_1^2 \cdot t_a + M_2^2 \cdot t_{gl} + M_3^2 \cdot t_a}{t_{Zykl}}} = 7{,}55 \text{ Nm}$$

$$n_{eff} = \frac{n \cdot t_a + n \cdot t_{gl} + n \cdot t_a}{t_{Zykl}} = \frac{n \cdot (2 \cdot t_a + t_{gl})}{t_{Zykl}} = 870 \text{ min}^{-1}$$

The following motor is selected:
Type: SSE08LA4
Rated power P_n = 1,55 kW
Rated torque M_n = 10 m
Rated speed n_n = 1500 min^{-1}

With proper utilisation of the gears by doubling the reduction and increasing the revs of the motor to 3000 min^{-1}, the torque requirement for the motor can be halved, and this makes it possible to decrease the size of the motor.

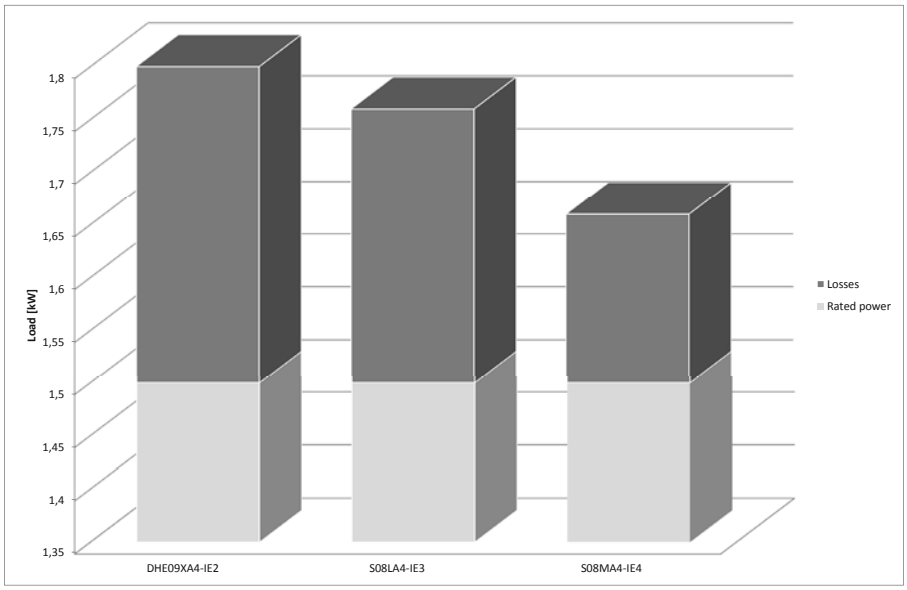
Instead of the S08LA4, the following motor could be selected in this case:

Type: S5E08MA4
Rated power P_n =1,55 kW
Rated torque M_n = 5 Nm
Rated speed n_n = 3000 min^{-1}

This increases the efficiency of the motor on the one hand, while also reducing the package length. The result is a cheaper drive with increased energy savings.

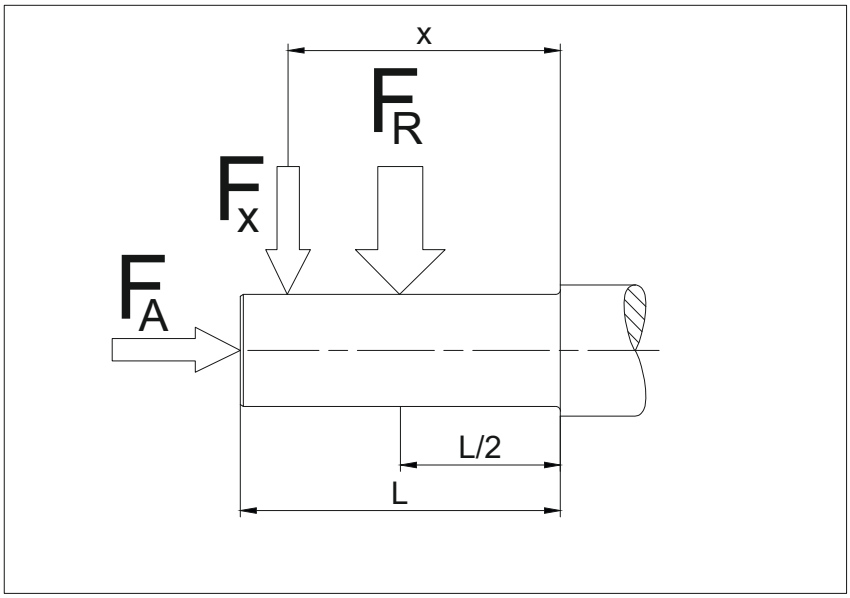
The diagram below shows the potential energy savings of using the different IE efficiency motors.

With the utilisation of the gears and the **use** of the **S08MA4 IE4** motor, **compared** with the **IE3 S08LA4** the **power loss can be reduced by 36.24%** and **by 45.58%** compared with the **IE2 DHE09XA4**.
With 8 hours of operation, 5 days a week and 50 weeks of the year, this results in an **energy saving** of **187.37 kW/h** compared with the **IE3 S08LA4** and **276.14 kW/h compared with** the **IE2 DHE09XA4**.



For each geared motor with a solid shaft, the allowable radial force $F_{R\,(N,V)}$ referred to the centre of the output shaft, x = l/2, is listed in the selection tables. The listed data applies to both foot-mounted and flange-mounted versions. If the force application point F_X is off centre, the allowable radial force must be recalculated taking into account the bearing lifetime and the shaft strength.

Maximum allowable radial force at force application point X



$F_{R(N, V)}$	Allowable radial force (x = l/2) according to the selection tables [N]
X	Distance from shaft junction to the force application point [mm]
F_A	Axial force [N]

To evaluate the radial force present at the force application point X, the allowable radial forces at position X must be determined with respect to the load limits of the bearings and the shaft strength.

If the calculated allowable radial forces at the force application point X are greater than the radial force that is present, the gearbox may be selected for the application.
If the calculated values are not sufficient or the force application point X is not within the stub shaft length l, please consult us.

Bearing load limit

$$F_{XL1} = F_q \times \frac{0{,}5 + b}{\left(\frac{X}{l} + b\right)}$$

$$F_{XL2} = F_q \times \frac{0{,}5 + a}{\left(\frac{X}{l} + a\right)}$$

Gear Motor Selection

Radial and axial forces on the output shaft

Shaft strength

$$F_{XW1} = F_{qmax} \times \frac{0,5}{\left(\frac{X}{l}\right)}$$

$$F_{XW2} = F_{qmax} \times \frac{0,5 + c}{\left(\frac{X}{l} + c\right)}$$

Thereby are:

For the selected gear ratio and bearing type (normal or reinforced), F_q is the allowable perpendicular force F_{RN} or F_{RV} from the geared motor selection tables.

F_{qmax} is the maximum allowable perpendicular force for the selected gearbox size as listed in the geared motor selection tables, independent of the bearing type (normal or reinforced).

The factors a, b and c for the individual gearbox types are listed in the following tables.

Helical gear unit BG series

Taille	Paliers	Arbre Code	l	a	b	c
BG04	normaux	-.1	24	0.5625	1.5000	-
BG05	normaux	-.1	28	0.5893	1.3929	-
BG06	normaux	-.1	30	0.6667	1.4167	-
BG10	normaux	-.1	40	0.7125	1.6750	-
		-.7		1.1000	2.0625	-
BG20	normaux	-.1	50	0.6100	2.2500	-
		-.7		0.9400	2.5800	-
BG30	normaux	-.1	60	0.5917	2.1750	-
		-.7		0.9417	2.5250	-
BG40	normaux	-.1	60	0.6917	2.3667	-
		-.7		1.0083	2.6833	-
BG50	normaux	-.1	80	0.5625	2.0000	-
		-.7		0.8563	2.2938	-
BG60	normaux	-.1	100	0.5300	2.0200	-
		-.7		0.7650	2.2550	-
BG70	normaux	-.1	120	0.4750	1.7292	-
		-.7		0.7292	1.9833	-
BG80	normaux	-.1	140	0.4286	1.7000	-
		-.7		0.6000	1.8714	-
BG90	normaux	-.1	200	0.3675	1.5300	-
		-.7		0.5825	1.7450	-
BG100	normaux	-.1	220	0.3477	1.4341	-
		-.7		0.5386	1.6250	-

Shaft-mounted gear unit BF series

Frame size	Bearings	Output shaft code	l	a	b	c
BF06	normal	-.1	50	0.4500	1.4100	-
BF10	normal	-.1	60	0.5083	1.4833	-
		-.2		0.6500	1.6250	-
BF20	normal	-.1	70	0.4286	1.3571	-
		-.2		0.5571	1.4857	-
BF30	normal	-.1	80	0.3875	1.2563	-
		-.2		0.5688	1.4375	-
BF40	normal	-.1	100	0.4050	1.2250	-
		-.2		0.5250	1.3450	-
BF50	normal	-.1	120	0.3125	1.0625	-
		-.2		0.3959	1.1458	-
BF60	normal	-.1	140	0.3286	1.0821	-
		-.2		0.4036	1.1571	-
	reinforced	-.1		-	-	0.2750
		-.2		-	-	0.3643
BF70	normal	-.1	180	0.2722	1.0566	-
		-.2		0.3056	1.0889	-
	reinforced	-.1		-	-	0.2194
		-.2		-	-	0.2639
BF80	normal	-.1	220	0.2878	1.3536	-
		-.2		0.2873	1.3518	-
	reinforced	-.1		-	-	0.2364
		-.2		-	-	0.2268
BF90	normal	-.1	260	0.2500	1.4231	-
		-.2		0.2500	1.4231	-
	reinforced	-.1		-	-	0.2027
		-.2		-	-	0.1950

Gear Motor Selection

Radial and axial forces on the output shaft

Bevel gear unit BK series

Frame size	Bearings	Output shaft code	l	a	b	c
BK06	normal	-.1	50	0.4375	1.9875	-
		-.2		0.4375	1.9875	-
		-.7		0.9125	2.4625	-
		-.8		0.9125	2.4625	-
BK10	normal	-.1	60	0.5917	2.2417	-
		-.2		0.5917	2.2417	-
BK20	normal	-.1	70	0.5071	2.2357	-
		-.2		0.5071	2.2357	-
	reinforced	-.1		-	-	0.3929
		-.2		-	-	0.3929
BK30	normal	-.1	80	0.5250	2.2750	-
		-.2		0.5250	2.2750	-
	reinforced	-.1		-	-	0.4125
		-.2		-	-	0.4125
BK40	normal	-.1	100	0.4300	2.1700	-
		-.2		0.4300	2.1700	-
	reinforced	-.1		-	-	0.3400
		-.2		-	-	0.3400
BK50	normal	-.1	120	0.4083	1.9417	-
		-.2		0.4083	1.417	-
	reinforced	-.1		-	-	0.3250
		-.2		-	-	0.3250
BK60	normal	-.1	140	0.3536	1.8036	-
		-.2		0.3536	1.0836	-
	reinforced	-.1		-	-	0.3121
		-.2		-	-	0.2979
BK70	normal	-.1	180	0.2861	1.6694	-
		-.2		0.2861	1.6694	-
	reinforced	-.1		-	-	0.2428
		-.2		-	-	0.2317
BK80	normal	-.1	220	0.2818	1.5545	-
		-.2		0.2818	1.5545	-
	reinforced	-.1		-	-	0.2305
		-.2		-	-	0.2214
BK90	normal	-.1	260	0.2519	1.6096	-
		-.2		0.2519	1.6096	-
	reinforced	-.1		-	-	0.1989
		-.2		-	-	0.1912

Worm gear unit BS series

Frame size	Bearings	Output shaft code	l	a	b	c
BS02	normal	-.1	30	0.6000	2.1000	-
		-.2		-	-	-
		-.7		1.3333	2.8333	-
		-.8		-	-	-
BS03	normal	-.1	40	0.4375	1.9875	-
		-.2		-	-	-
		-.7		0.9125	2.4625	-
		-.8		-	-	-
BS04	normal	-.1	40	0.5375	1.7875	-
		-.2		-	-	-
BS06	normal	-.1	50	0.4800	1.9400	-
		-.2		-	-	-
BS10	normal	-.1	60	0.5917	2.3083	-
		-.2		-	-	-
BS20	normal	-.1	70	0.5500	2.4357	-
		-.2		-	-	-
BS30	normal	-.1	80	0.5312	2.4313	-
		-.2		-	-	-
BS40	normal	-.1	120	0.4292	1.7042	-
		-.2		-	-	-

Transmission components

If a transmission component is used (gearwheels, chainwheels, V-belt, etc.), the resulting radial forces can be determined as follows.

$$F_R = \frac{2000 \times M}{D_T} \times f_Z \leq F_{R(N,V)}$$

F_R Radial force [N]
M Torque [Nm]
D_T Pitch radius of the transmission component [mm]
f_Z Safety factor

Factor f_z for the type of transmission component

A safety factor f_Z depending on the type of transmission component attached to the output shaft must be included when determining the value of the radial force FR that is present.

Transmission component	Safety factor f_z	Note
Gearwheel	1	= > 17 teeth
Gearwheel	1,15	< 17 teeth
Chainwheel	1	= > 17 teeth
Chainwheel	1,25	< 17 teeth
Toothed rack	1,15	< 17 teeth (pinion)
V-belt	2……2,5	From tensioning force
Flat belt	2….3	From tensioning force
Friction wheel	3….4	

Axial force

The following specification applies to the allowable axial force FA on the output shaft (either tension or compression) for all Bauer geared motors and for foot, flange or hollow-shaft versions:

$$F_A = 0{,}5 \times F_{R(N,V)}$$

Please consult us in case of larger axial forces.

Shock loads of machinery

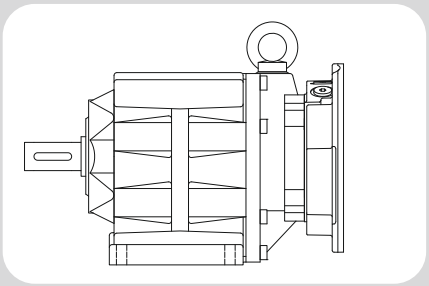
Shock loads for various types of machinery are listed in standards and guidelines as well as industry-specific documents and manufacturer's documents. If for example a crusher or a press is listed here with an shock load class of III, this is justified. On the other hand, under favourable conditions a belt conveyor could have an shock load class of I, but this could quickly change to III with on/off operation, high speed and overdrive due to a loose chain.
Consequently, the classifications in the following table should by no means be taken blindly. They provide a rough point of reference, but the ultimate classification of the shock load should always take into account the factors specified by Bauer, in particular the inertia ratio, the cycle rate and the transmission component(s).

Drive	Shock load		
Construction machinery			
Construction lifts		II	
Concrete mixers		II	
Road construction machinery		II	
Chemical industry			
Cooling drums		II	
Mixers		II	
Stirrers (light media)	I		
Stirrers (viscous media)		II	
Drying drums		II	
Centrifuges (light)	I		
Centrifuges (heavy)		II	
Transport and conveying systems			
Hauling winches		II	
Conveying machines			III
Apron conveyors		II	
Belt conveyors (bulk material)	I		
Belt conveyors (piece goods)		II	
Bucket belt conveyors		II	
Chain conveyors		II	
Circular conveyors		II	
Freight lifts		II	
Flour bucket conveyors	I		
Passenger lifts		II	
Flat belts		II	
Screw conveyors		II	
Gravel bucket conveyors		II	
Inclined lifts			III
Steel belt conveyors		II	
Chain conveyors		II	
Blowers and fans			
Roots blowers		II	
Blowers (axial and radial)	I		
Cooling tower fans		II	
Suction blowers		II	

Drive	Shock load		
Rubber			
Extruders			III
Calenders		II	
Kneaders			III
Mixers		II	
Rolling mills			III
Timber processing and woodworking			
Debarking drums			III
Planers		II	
Woodworking machinery	I		
Saw frames			III
Crane systems			
Luffing mechanisms	I		
Traversing mechanisms			III
Hoisting mechanisms	I		
Slewing mechanisms		II	
Jib mechanisms		II	
Plastics			
Extruders		II	
Calenders		II	
Mixers		II	
Grinders and pulverisers		II	
Metalworking			
Plate bending machines		II	
Plate straightening machines			III
Hammers			III
Planers			III
Presses			III
Shears		II	
Forging presses			III
Punches			III
Countershafts and driveshafts	I		
Machine tools (principal)		II	
Machine tools (ancillary)	I		

Drive	Shock load		
Food processing			
Filling machines	I		
Kneading machines		II	
Mashing machines		II	
Packaging machines	I		
Sugar cane cutters		II	
Sugar cane mills			III
Sugar beet cutters		II	
Sugar beet washers		II	
Paper			
Couching			III
Smoothing rolls			III
Hollander		II	
Pulp grinder			III
Calender		II	
Wet presses			III
Shredders			III
Suction presses			III
Suction rolls			III
Drying rolls			III
Stone and soil			
Crushers			III
Rotary kilns			III
Hammer mills			III
Tube mills			III
Beating mills			III
Tile and block presses			III
Fabrics			
Winders		II	
Printing and dying machines		II	
Tanning vats		II	
Shredders		II	
Looms		II	

Drive	Shock load		
Rolling mills			
Plate shears			III
Plate turners		II	
Billet presses			III
Billet and slab lines			III
Billet conveyors			III
Wire drawing machines		II	
Descaling machines			III
Sheet metal mills			III
Plate mills			III
Winders (strip and wire)		II	
Cold rolling mills			III
Chain transports		II	
Billet shears			III
Cooling beds		II	
Cross transports		II	
Roller tables (light)		II	
Roller tables (heavy)			III
Roll straighteners		II	
Tube welders			III
Trimming shears		II	
Cropping shears			III
Continuous casting machines			III
Roll adjustment devices		II	
Manipulators			III
Laundry			
Drum dryers		II	
Washing machines		II	
Water treatment			
Centrifugal aerators		II	
Archimedes screw		II	

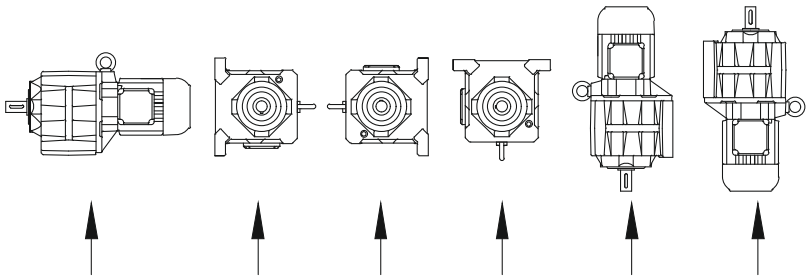


5

Gearboxes & Lubrication

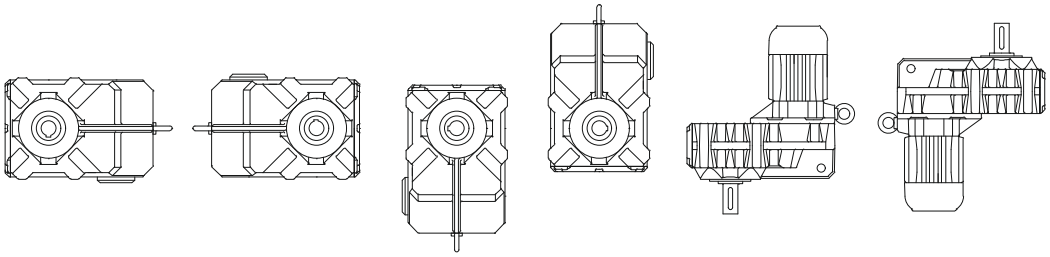
Standard mounting positions **55**
Postion of the terminal box **57**
Position of the terminal box and the cable entry points (BG and BF) 57
Position of the terminal box and the cable entry points (BK and BS) 58
Gearboxes **59**
Radial and axial forces at the output shaft 59
Dimensions and fits of output shafts and keyways 59
Installing transmission elements 59
Gear with solid shaft 59
Gear with hollow shaft 59
Shrink disc coupling 59
Torque restraint 60
Notes for installing shaft mount gears with hollow shaft and keyway 60
Gear ventilation 60
Output shaft seals 60
Lubricants **61**
Lubricant quantities 62
Lubricant quantities, BG-series gears 63
Lubricant quantities, BG20-01R 64
Lubricant quantities, BF-series gears 65
Lubricant quantities, BK-series gears 66
Lubricant quantities, BS-series gears 67
Lubricant quantities, pre-stage gears (Z) 68
Lubrication quantity for intermediate gear 69
Threaded plugs **70**
Position of threaded plugs 70
-BG-series gears 70
-BG-20-01R 71
-BF-series gears 72
-BK-series gears 73
-BS-series gears 75
-pre-stage gears (Z) 75
-in the System Cover Design with Standard Geared Motor 76
-in the System Cover Design with foreign motor or gear design with input shaft 77

BG series



Gear side	(U)	(R)	(L)	(O)	(V)	(H)
Mounting position	H4	H1	H2	H3	V1	V2

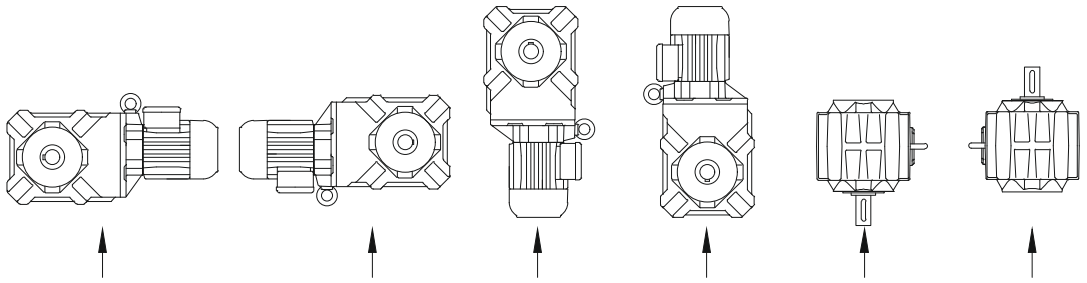
BF series



Gear side	(R)	(L)	(O)	(U)	(V)	(H)
Mounting position	H1	H2	H3	H4	V1	V2

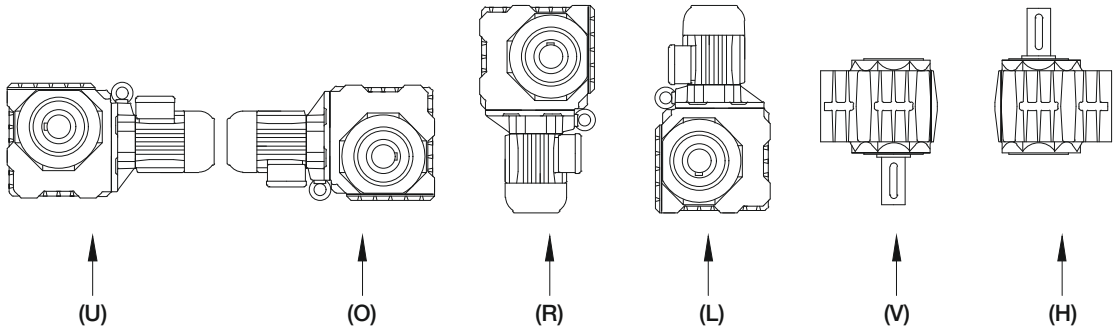
Standard mounting positions

BK series



Gear side	(U)	(O)	(R)	(L)	(V)	(H)
Mounting position	H1	H2	H3	H4	V1	V2

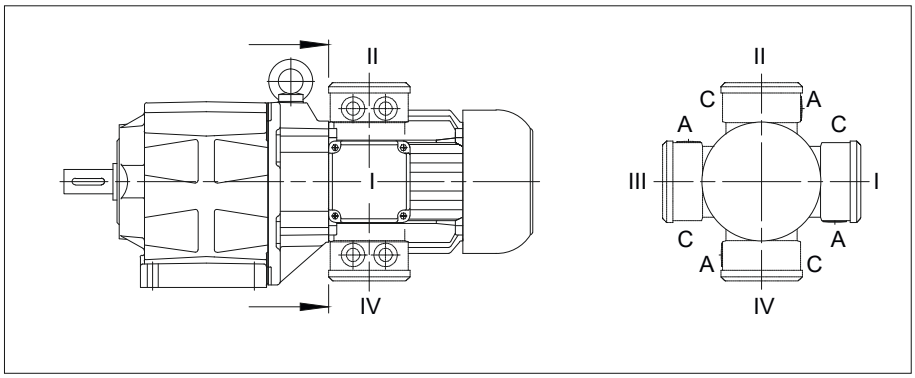
BS series

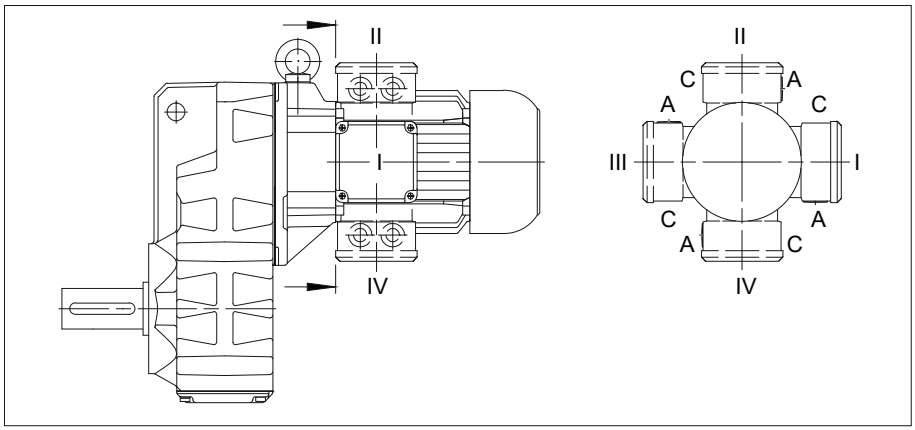


Gear side	(U)	(O)	(R)	(L)	(V)	(H)
Mounting position	H1	H2	H3	H4	V1	V2

Position of the terminal box and the cable entry points (BG and BF)

The standard position of the terminal box for helical-gear and shaft- mounted geared motors is position I. Cables may be introduced from side A or C.





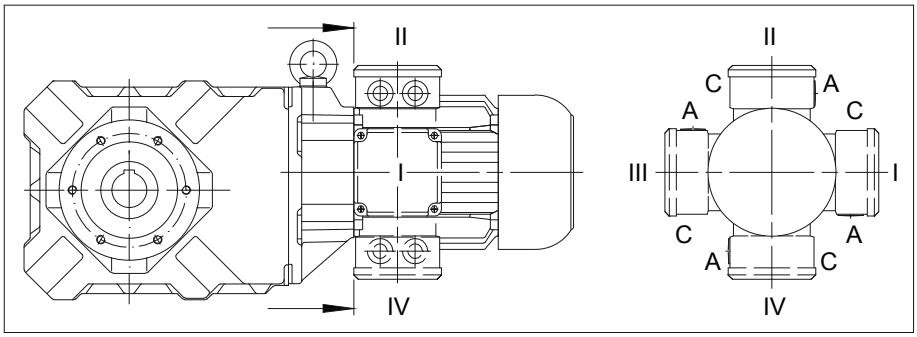
Turning or rotating the gearbox in space in the different mounting positions according to DIN 42950 does not influence the marking as shown. The details of the terminal box always show the position of the terminal box and the cable entry in relation to the gearbox and not in space. The mounting according to DIN 42950 is to be given separately.

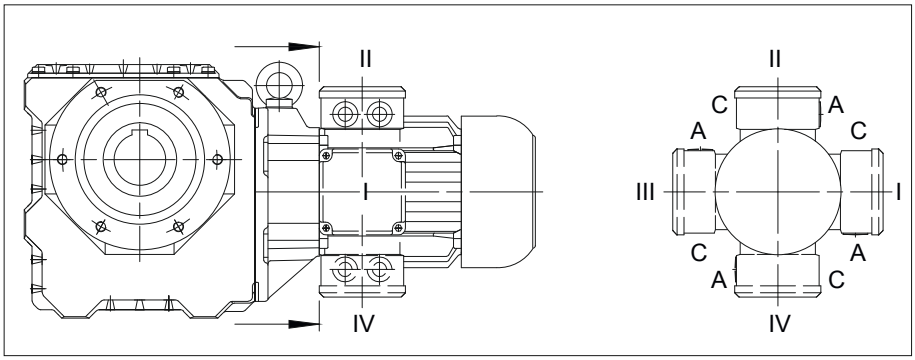
Position of the terminal box

Position of the terminal box and the cable entry points (BK and BS)

The standard position of the terminal box for bevel-geared and worm- geared motors is position II.

Cable entry through side A or side C is possible





Turning or rotating the gearbox in space in the different mounting positions according to DIN 42950 does not influence the marking as shown. The details of the terminal box always show the position of the terminal box and the cable entry in relation to the gearbox and not in space. The mounting according to DIN 42950 is to be given separately.

Radial and axial forces at the output shaft

The output shafts and output-shaft bearings are matched to the motor torques. It is advisable to locate the drive-transmission element‘s point of application as close as possible to the shaft collar to ensure that the load imposed by external radial forces is not unnecessarily high. Permissible values for radial forces referred to the output shaft centreline are listed in the selection tables. Please consult us if your application involves extra-high axial loading.

Dimensions and fits of output shafts and keyways

Output shaft and second shaft stub, keyway and key are in compliance with the DIN standards and ISO fits listed below:

Solid shaft

Shaft diameter	to D = 50 mm in ISO k6 (DIN 748 Page1)
	as of D = 50 mm in ISO m6 (DIN 748 Page 1)
Keyway	ISO P9 (DIN 6885 Page 1)
Key, height	ISO h9 (DIN 6885 Page 1 and DIN 6880)
Bore - customer	ISO H7

Hollow shaft with keyway

Bore diameter	ISO H7 (DIN 748)
Keyway	ISO JS9 (DIN 6885 Page 1)
Key, height	ISO h9 (DIN 6885 Page 1 and DIN 6880)
Customer shaft	ISO h6

Hollow shaft for shrink-on disc coupling (SSV)

Outside diameter	ISO f7
Inside diameter	ISO H7
Customer shaft	ISO h6

Installing transmission elements

Note:
Gearboxes using torque reaction by means of a flange (Code 2.; 3; 4.; 7.; 8.) or torque arm (Code 5.), must have the side for the torque reaction the same as where the radial force on the output shaft occurs (see rubber buffers for torque arms)! Please consult the factory for other designs.

Gear with solid shaft

Always exercise meticulous care when fitting transmission elements onto output shafts and, whenever possible, use the DIN 332 tapped bore provided for this purpose. Fitting is usually easier if the transmission element can be heated to approximately 100° C for installation. Dimension the locating bore to ISO H7.

Gears with solid shaft at each end (gear code -.3/): alignment of the two keys is subject to the DIN 7168 tolerances, the degree of accuracy is “fine”.

Gear with hollow shaft

Hollow shafts usually engage solid shafts of the driven machinery. The gear unit must be mounted such as to be free of constraint and be fixed axially (e.g. by means of assembly help acc. following description “notes for installing shaft mount gears with hollow shaft and keyway”). Special contract provision must be made if the hollow shaft has to guide the solid shaft or, for any other reason, close out-of-round tolerance referenced to a point on the gear housing (such as a flange, for instance) is required.

Shrink disc coupling

A shrink disc coupling (SSV) can transmit high torque from the non-grooved hub to the smooth shaft. The SSV is easily secured and released, using commercially available bolts. SSVs are the ideal supplement for shaft mount gears. The maximum transmittable torque for the selected shrink discs when fitted and mounted according to instructions is above the starting torque of the respective motors classified as standard (for classification of shrink disc sizes see chapter 11, 12, 13 “Additional dimensional drawings for Shrink disc coupling)

Torque restraint

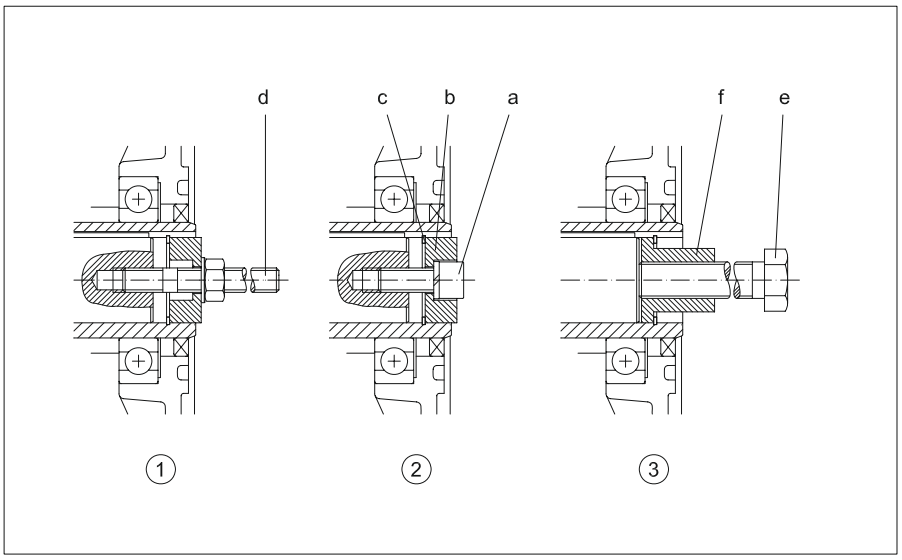
Shaft-mounted geared motors require a suitable torque restraint to resist the reaction torque. Shaft-mounted gears have cast torque arms as standard. Bevel gears and worm gears are available with bolt-on torque arms on request. The torque arm is screwed onto the front “V” on the side of the gear unit. It is always important to ensure that the torque arm does not create excessive constraining forces due to the driven shaft running untrue, for example. Excessive play can result in excessive shock torques in switching or reversing operations. Consequently, we recommend the use of pre-tensioned rubber damping elements. These rubber buffers are part of the scope of supply for designs with a torque arm (see chaper 11, 12, 13 dimensional drawings “Rubber buffer for torque restraint”)

Notes for installing shaft mount gears with hollow shaft and keyway

(1) Attaching the hollow shaft to the customer shaft
Threaded bolt (d) is screwed into the end thread of the shaft to be driven. By tightening the nut, apply force to thrust plate (b) and locating ring (c) to draw the gear unit onto the shaft.

(2) Axial fastening
Pressure piece (b) is rotated and fitted against retaining ring (c) using fixing screw (a).

(3) Removing
Extractor (f) is fitted between the end face of the shaft and retainer ring (c). Tighten press-off screw (e) against the end of the shaft and pull the gear unit off the shaft.
Manufacturing drawings for the required parts are available on request. These parts are not included in the scope of supply.



Detailed information on shaft-mounted gear units, bevel-gear units and worm-gear units is available (see chaper 11, 12, 13 dimensional drawings “Tools for fitting shaft-mounted gear with hollow shaft and keyway”).

Gear ventilation

The lifetime of the gearbox lubricant increases the better it is protected from negative environmental influences. Should the oil level or the gearbox ratio cause a very high lubricant temperature, the gearbox will be supplied as standard with a breather plug. Either on request or for corresponding high ambient temperatures, all gearboxes from size 10 can be supplied with a breather plug.

For the position of the threaded plugs see chapter 5 theraded plugs.

Output shaft seals

All size 10 and larger gears are available with double seals for the output shaft on request and at extra cost. Double seals are particularly effective if the output shaft points down and as protection against external influences

Lubricants

The drives are shipped ready-filled with gear lubricant. Lubricated in this way, the gear units are suitable for ambient temperatures in the range -20 °C to + 40 °C. The quantity of lubricant is optimised for the desired installed position as is stated on the nameplate. The type of lubricant is stated in the Operating Instructions. Lubricants for other temperature ranges or special applications available on request.

Wear-protective EP gear oils as indicated in the following table have proven particularly effective:

Manufacturer	Lubricant type					
	Mineral Oil	Synthetic Oil				USDA H1 Oil
	ISO VG 220	ISO VG 68		ISO VG 220	ISO VG 460	ISO VG 220
	Standard oil for gearboxes in the series **BF06-BF90 BG04-BG100 BK60-BK90**	Low temperature oil for gearboxes in the series **BF06-BF90 BG04-BG100**	**BK06-BK90 BM09-BM40 BS02-BS40**	Standard oil for gearboxes in the series **BS02-BS10 BK06-BK10 BM09-BM40** High temperature oil for gearboxes in the series **BS02-BS10 BK06-BK10 BF06-BF90 BG04-BG100 BK60-BK90 BM09-BM10**	Standard oil for gearboxes in the series **BS20-BS40 BK17-BK50 BM20-BM40** High temperature oil for gearboxes **BS20-BS40 BK17-BK50 BM20-BM40**	Food and Beverage Industry Oil for gearboxes in the series **BF06-BF90 BG04-BG100 BK06-BK90 BM09-BM40 BS02-BS40**
AGIP	BLASIA 220 [13 02 08]	–	–	BLASIA S 220 [13 02 06]	BLASIA S 460 [13 02 06]	–
BECHEM RHUS	STAROIL G 220 [13 02 08]	–	BERUSYNTH EP 68 [13 02 06]	BERUSYNTH EP 220 [13 02 06]	BERUSYNTH EP 460 [13 02 06]	BERUSYNTH EP 220 H1 [13 02 06]
CASTROL	ALPHA EP 220 [13 02 08] ALPHA SP 220 [13 02 08] OPTIGEAR EP 220 [13 02 08] OPTIGEAR 1100/220 [13 02 08]	Alphasyn T68 [13 02 06]	–	ALPHASYN PG 220 [13 02 06] OPTIGEAR 800/220 [13 02 06] OPTIGEAR 1300/220 [13 02 06] ALPHASYN GS 220 [13 02 06]	ALPHASYN PG 460 [13 02 06] OPTIGEAR 800/460 [13 02 06] OPTIGEAR 1300/460 [13 02 06] ALPHASYN GS 460 [13 02 06]	OPTILEB GT 220 (CLP-HC) [13 02 06] OPTILEB GT 1800/220 (CLP-PG) [13 02 08]
CHEVRON	Meropa 220 [13 02 08] GEARTEX EP-A SAE 85W-90 [13 02 06]	–	Meropa Synlube WS 68 [13 02 06]	Meropa Synlube WS 220 [13 02 06]	Meropa Synlube WS 460 [13 02 06]	Chevron lubricating oils FM 220 (USA) [13 02 06]
FUCHS	RENOLIN CLP 220 [13 02 08] RENOLIN CLPF 220 SUPER [13 02 08] RENOLIN CLP 220 PLUS [13 02 08]	RENOLIN UNISYN CLP 68 [13 02 06]	RENOLIN PG 68 [13 02 06]	RENOLIN PG 220 [13 02 06]	RENOLIN PG 460 [13 02 06]	CASSIDA FLUID GL 220 [13 02 06]
KLÜBER	KLÜBEROIL GEM 1-220 N [13 02 08]	–	KLÜBERSYNTH GH 6-80 [13 02 06]	KLÜBERSYNTH GH 6-220 [13 02 06]	KLÜBERSYNTH GH 6-460 [13 02 06]	KLÜBEROIL 4UH1-220 N [13 02 06] KLÜBERSYNTH UH1 6-220 [13 02 06]
MOBIL	MOBILGEAR 600 XP 220 [13 02 08]	MOBIL SHC 626 [13 02 06]	–	MOBIL SHC Gear 220 [13 02 06] MOBIL SHC 630 [13 02 06]	MOBIL SHC Gear460 [13 02 06] MOBIL SHC 634 [13 02 06]	MOBIL SHC CIBUS 220 [13 02 06]
OEST	Gearol 220 [13 02 06]	–	–	–	–	–
SHELL	OMALA S2 GX220 [13 02 08]	–	–	OMALA S4 WE 220 [13 02 06]	OMALA S4 WE 460 [13 02 06]	–
TOTAL	CARTER EP 220 [13 02 08] CARTER XEP 220 [13 02 06]	–	–	CARTER SY 220 [13 02 06]	CARTER SY 460 [13 02 06]	NEVASTANE SL220 [13 02 06] NEVASTANE EP 220 [13 02 06] NEVASTANE SY 220 [13 02 06]
WINTERSHALL	SRS ERSOLAN 220 [13 02 08]	–	–	–	–	–

[....] European Waste Catalogue Code (Decision 2001/118/CE)

Lubricants

Important:
Synthetic gear oils of a Polyglykol base (e.g. PGLP…) must be disposed of separately to mineral oil as **Special Waste.**

So long as the ambient temperature does not fall below –20 °C the international definition of the viscosity class at 40 °C according to ISO 3448 and DIN 51519 ISO the viscosity class VG220 (SAE90) is recommended according, in North America AGMA 5EP.

For lower temperatures it is recommended to use oils of a lower nominal viscosity with a corresponding better starting characteristic, for instance a PGLP with a nominal viscosity VG68 (SAE80) or AGMA 2EP respectively. These types of oil can already be necessary at a temperature around the freezing point, if the break away torque of a drive is reduced by some smooth starting device or if the motor has a relatively low power

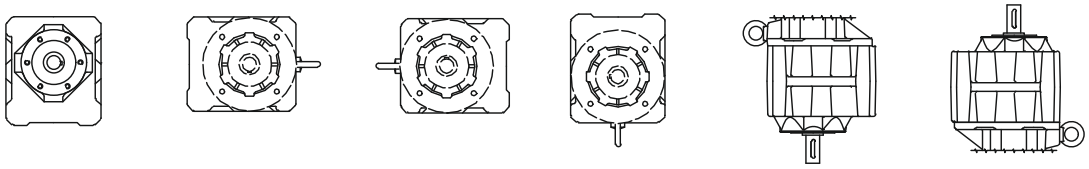
Lubricant quantities

The preferred quantity of lubricant for the planned type of installation is stated on the motor‘s rating plate (symbol “oil can”). When topping up care should be taken to ensure that, depending on the fitting position, gearwheels and rolling contact bearings positioned at the top are also properly oiled. In special versions the oil level mark should be noted. Information about the quantity of lubricant required for other types of installation can be obtained from the factory

Lubricant quantities, BG-series gears

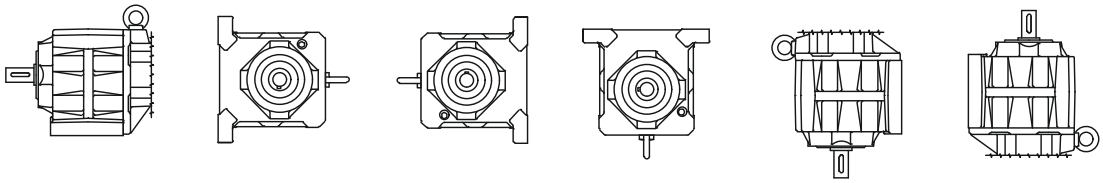
Gear-housing with flange or foot

Flange (Code-2./Code-3./Code-4./Code-7.)
Foot with threaded holes (Code -6.)
Foot with clearance holes (Code-9.)
Completely machined (Code -8.)



Foot housing

cast foot with clearance holes (Code -1.)



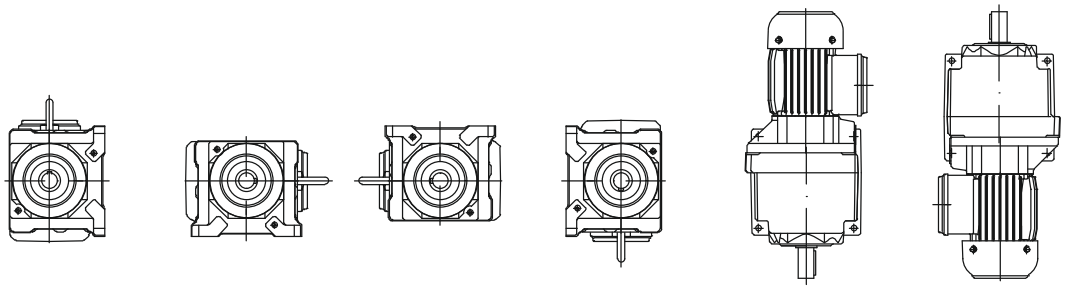
Gearbox type		H4	H1	H2	H3	V1	V2
BG04	*	0.03	0.03	0.03	0.03	0.05	0.05
	**	0.05	0.05	0.05	0.05	0.1	0.05
BG05	*	0.05	0.05	0.05	0.05	0.08	0.08
	**	0.08	0.08	0.08	0.08	0.16	0.8
BG06	*	0.08	0.08	0.08	0.08	0.15	0.15
	**	0.12	0.12	0.12	0.12	0.24	0.15
BG10	*	0.65	0.65	0.65	0.85	1.05	0.85
	**	0.45	0.45	0.45	0.6	0.75	0.6
BG15	**	0.4	0.4	0.4	0.35	0.62	0.55
BG20	*	0.8	0.8	0.8	1.1	1.4	1.1
	**	0.6	0.6	0.6	1.0	1.15	0.9
BG30	*	1.0	1.0	1.0	1.7	2.4	1.6
	**	1.0	1.0	1.0	1.7	2.3	1.7
BG40	*	1.7	1.7	1.7	2.5	3.5	2.1
	**	1.7	1.7	1.7	2.5	3.5	2.1
BG50	*	3.0	3.0	3.0	4.5	5.5	3.3
	**	3.0	3.0	3.0	4.5	5.5	3.3
BG60	*	5.5	5.5	5.5	7.0	10.9	6.4
	**	5.5	5.5	5.5	7.0	10.9	6.4
BG70		6.5	6.5	6.5	8.0	13.5	9.0
BG80		11.0	11.0	11.0	11.0	22.5	15.0
BG90		19.0	19.0	19.0	19.0	40.0	26.0
BG100		35.0	35.0	55.0	50.0	66.0	50.0

* Flange Housing
** Foot Housing

Lubrication quantity in litre

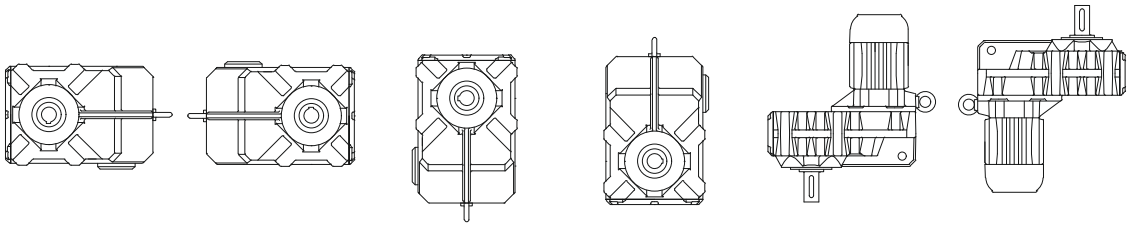
Lubricants

Lubricant quantities, BG20-01R



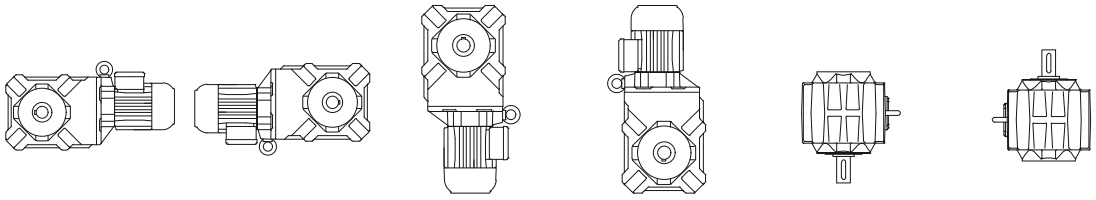
Gear type	H4	H1	H2	H3	V1	V2
BG20R	0.8	1.0	0.8	1.4	1.65	1.0
	Lubrication quantity in litre					

Lubricant quantities, BF-series gears



Gear type	H1	H2	H3	H4	V1	V2
BF06	0.25	0.25	0.25	0.37	0.35	0.3
BF10	0.85	0.85	0.85	1.1	1.45	1.5
BF20	1.3	1.3	1.3	1.7	2.2	2.25
BF30	1.7	1.7	1.7	2.2	3.2	3.0
BF40	2.7	2.7	2.7	3.5	4.9	4.8
BF50	3.8	3.8	3.8	5.0	6.7	6.7
BF60	6.7	6.7	6.7	9.0	12.3	12.0
BF70	12.2	12.2	12.2	16.0	24.2	21.8
BF80	17.0	17.0	17.0	21.0	32.2	27.5
BF90	32.0	32.0	32.0	41.0	62.0	53.0
	Lubrication quantity in litre					

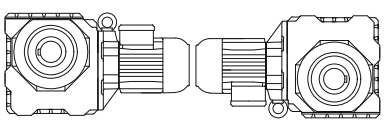
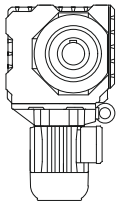
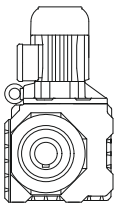
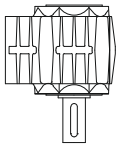
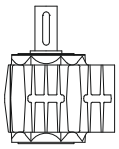
Lubricant quantities, BK-series gears



Gear type	H1	H2	H3	H4	V1	V2
BK06	0.15	0.23	0.29	0.31	0.18	0.23
BK10	0.83	0.83	0.92	1.75	0.92	0.92
BK17	1.0	1.7	1.8	2.6	1.3	1.8
BK20	1.5	1.5	1.6	2.9	1.65	1.65
BK30	2.2	2.2	2.3	4.4	2.4	2.4
BK40	3.5	3.5	3.5	7.0	3.7	3.7
BK50	5.8	5.8	5.8	11.5	6.0	6.0
BK60	6.0	8.7	6.9	12.0	8.6	8.6
BK70	10.2	15.0	11.5	20.5	13.5	14.5
BK80	18.0	25.5	19.0	37.0	23.5	25.5
BK90	33.0	48.0	36.0	69.0	45.0	48.0

Lubrication quantity in litre

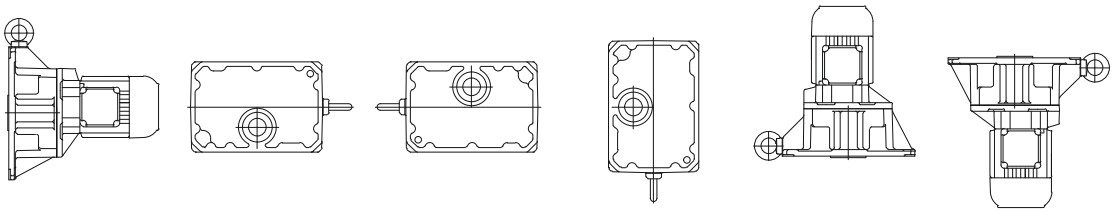
Lubricant quantities, BS-series gears

Gear type	H1	H2	H3	H4	V1	V2
BS02	0.06	0.06	0.06	0.06	0.06	0.06
BS03	0.17	0.17	0.17	0.17	0.17	0.17
BS04	0.11	0.17	0.11	0.2	0.11	0.11
BS06	0.24	0.36	0.24	0.45	0.24	0.24
BS10	0.9	1.3	0.9	1.6	0.9	0.9
BS20	1.5	2.1	1.5	2.7	1.5	1.5
BS30	2.2	3.0	2.2	3.8	2.2	2.2
BS40	3.5	4.7	3.5	6.0	3.5	3.5

Lubrication quantity in litre

Lubricant quantities, pre-stage gears (Z)



BF BG	H4	H1	H2	H3	V1	V2
BK BS	H1	V1	V2	H2	H4	H3
Gear type						
BF10Z BF10Z BK10Z BS10Z	0.10	0.05	0.12	0.07	0.16	0.07
BG20Z BF20Z BK20Z BS20Z	0.15	0.07	0.19	0.17	0.27	0.10
BG30Z BF30Z BK30Z BS30Z BM30Z BM30Z	0.2*	0.10	0.35	0.22	0.35	0.19
BG40Z BF40Z BK40Z BS40Z BM40Z	0.32*	0.17	0.50	0.37	0.6	0.32
BG50Z BF50Z BK50Z	0.5	0.3	0.92	0.7	1.15	0.5
BG60Z BF60Z BK60Z	0.9	0.5	1.55	1.1	2.0	0.7
BG70Z BF70Z BK70Z BS70Z	1.2	0.6	1.8	1.6	2.4	1.4
BG80Z BF80Z BK80Z BS80Z	3.1	1.3	4.0	2.6	5.2	2.0
BG90Z BK90Z	4.2	1.5	5.4	3.5	7.7	3.0

*: with BM30Z/BM40Z the pre-stage lubricant is filled via the main gearbox.

Lubrication quantity in litre

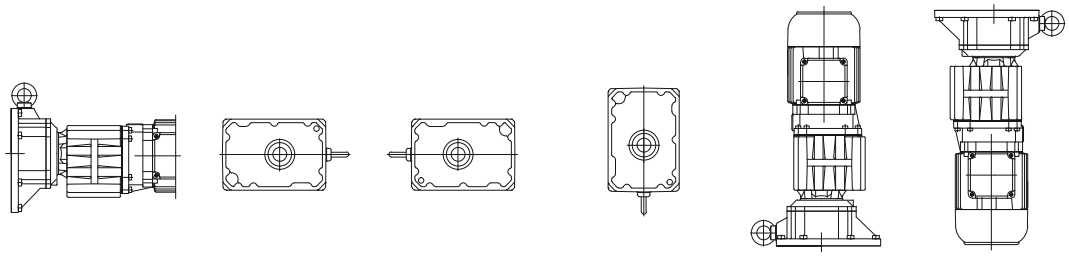
Lubrication quantity for intermediate gear

Definition of the terminal box position

Terminal box position for intermediate gear is similar to the main gearbox that means

Main gearbox BG, BF terminal box pos. I -> intermediate gearbox terminal box pos. I

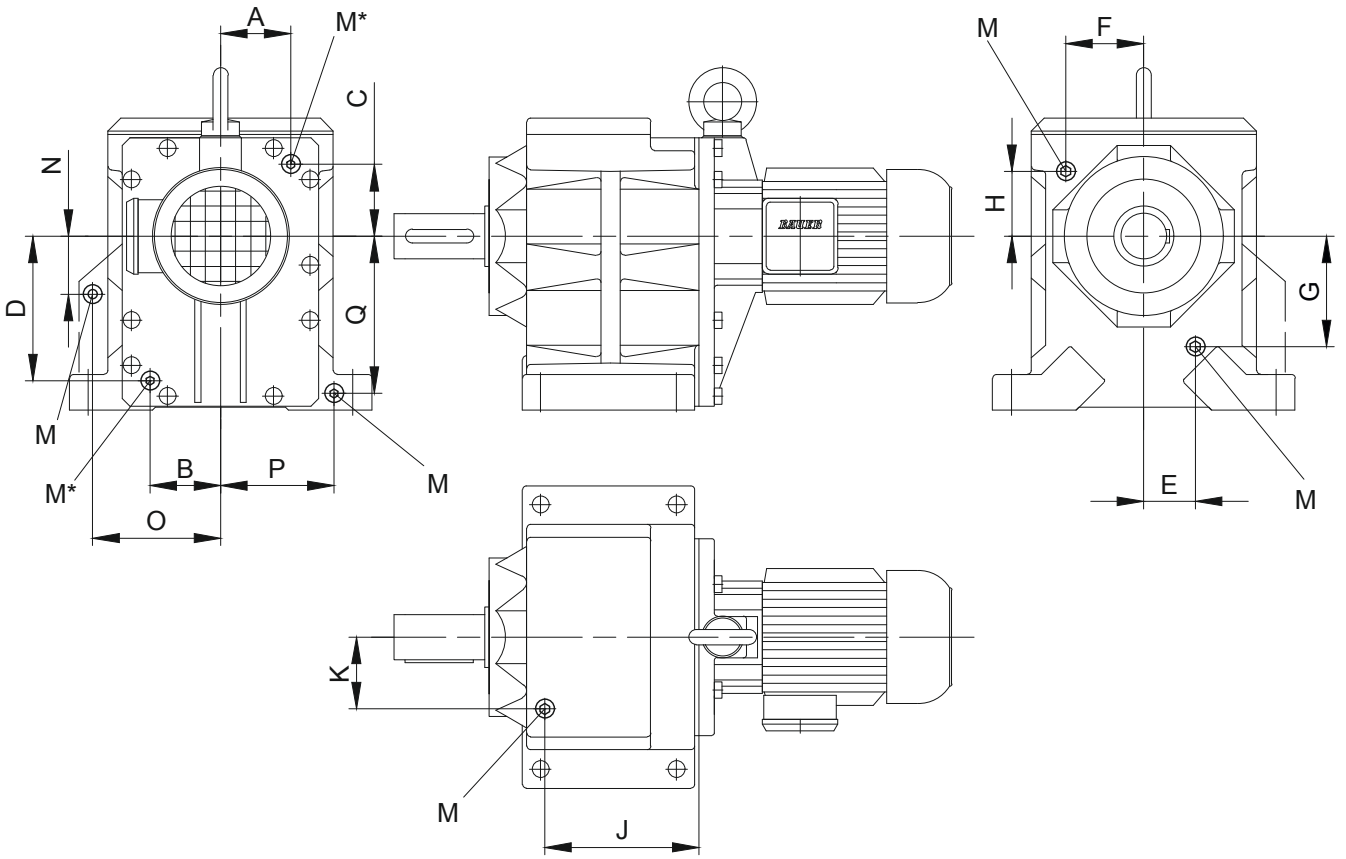
Main gearbox BK, BS terminal box pos. II -> intermediate gearbox terminal box pos. II



Mounting position of main gearbox							
	BF	H4	H1	H2	H3	V1	V2
	BG						
	BK	H1	V1	V2	H2	H4	H3
	BS						
Type designation of double gearbox combination							
BG06G04 BS06G04 BK06G04		0.03	0.03	0.03	0.03	0.05	0.05
BG10G06 BF10G06 BK10G06 BS10G06		0.08	0.08	0.08	0.08	0.15	0.15
BG20G06 BF20G06 BK20G06 BS20G06		0.08	0.08	0.08	0.08	0.15	0.15
BG30G06 BF30G06 BK30G06 BS30G06		0.08	0.08	0.08	0.08	0.15	0.15
BG40G10 BF40G10 BK40G10 BS40G10		0.65	0.65	0.65	0.85	1.05	0.85
BG50G10 BF50G10 BK50G10		0.65	0.65	0.65	0.85	1.05	0.85
BG60G20 BF60G20 BK60G20		0.8	0.8	0.8	1.1	1.4	1.1
BG70G20 BF70G20 BK70G20		0.8	0.8	0.8	1.1	1.4	1.1
BG80G40 BF80G40 BK80G40		1.7	1.7	1.7	2.5	3.3	2.1
BG90G50 BF90G50 BK90G50 BG100G50		3.0	3.0	3.0	4.5	5.5	3.3
Lubrication quantity in litre							

Threaded plugs

Position of threaded plugs
-BG-series gears

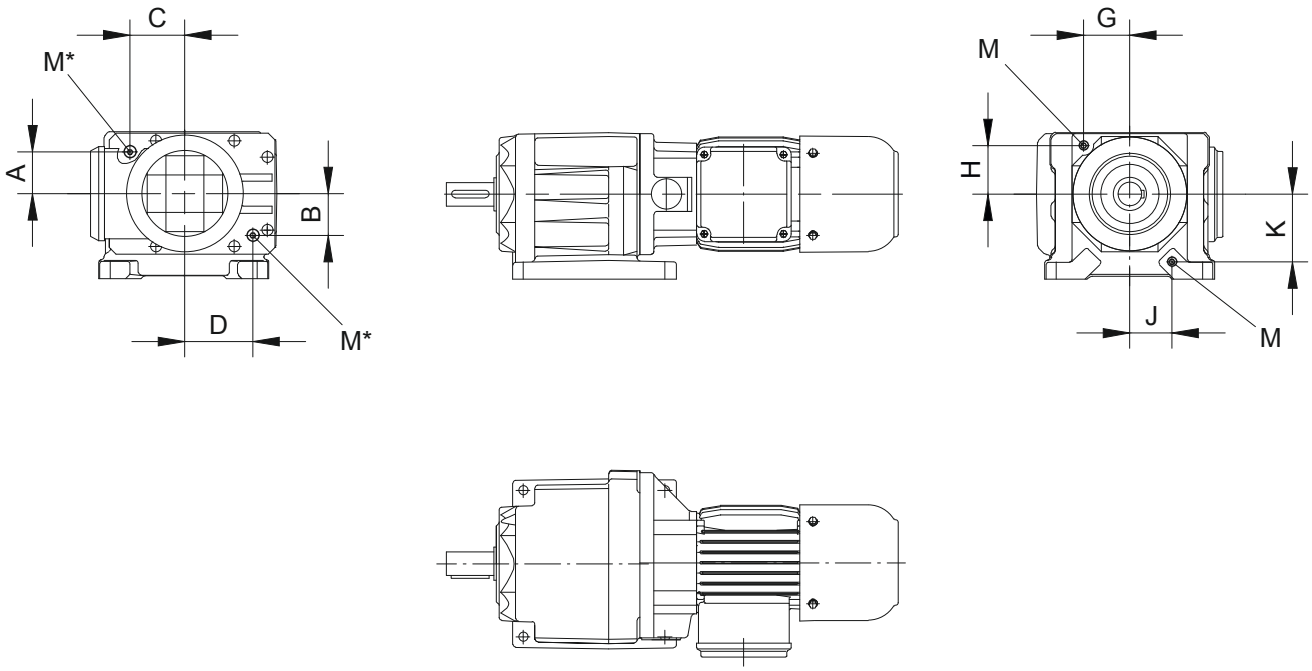


Typ		A	B	C	D	E	F	G	H	J	K	N	O	P	Q	M
BG10	Foot housing	see position of the oil drain and filler plugs on the system cover	Tab.I-Tab.III size B.10			33	42	48	41.5	-	-	-	-	-	-	M10x1
BG10	Flange housing		Tab.I-Tab.III size B.10			27	-	73	-	-	-	-	-	-	-	M10x1
BG15	Foot housing		Tab.I-Tab.III size B.10			-	-	-	-	-	-	-	-	-	-	-
BG20	Foot housing		Tab.I-Tab.III size B.20			-	47	-	52.5	-	-	-	-	-	-	M10x1
BG20	Flange housing		Tab.I-Tab.III size B.20			-	28	-	68	-	-	-	-	-	-	-
BG30	Foot housing		Tab.I-Tab.III size B.30			-	54	-	58	-	-	-	-	-	-	M10x1
BG30	Flange housing		Tab.I-Tab.III size B.30			-	58	-	48	-	-	-	-	-	-	M10x1
BG40	Foot housing		Tab.I-Tab.III size B.40			-	75	-	48	-	-	-	-	-	-	M14x1.5
BG40	Flange housing		Tab.I-Tab.III size B.40			-	75	-	48	-	-	-	-	-	-	M14x1.5
BG50	Foot housing		Tab.I-Tab.III size B.50			-	53	-	100	-	-	-	-	-	-	M14x1.5
BG50	Flange housing		Tab.I-Tab.III size B.50			-	53	-	100	-	-	-	-	-	-	M14x1.5
BG60	Foot housing		Tab.I-Tab.III size B.60			-	70	-	119	-	-	-	-	-	-	M20x1.5
BG60	Flange housing		Tab.I-Tab.III size B.60			-	70	-	119	-	-	-	-	-	-	M20x1.5
BG70			Tab.I-Tab.III size B.70			-	103	-	86	204	95	-	-	-	-	M20x1.5
BG80			Tab.I-Tab.III size B.80			-	133	-	110	237	111	-	-	-	-	M20x1.5
BG90			Tab.I-Tab.III size B.90			-	165	-	124	297	140	-	-	-	-	M24x1.5
BG100			Tab.I-Tab.III size B.80			-	202	-	128	420	165	135	263	202	293	M24x1.5

M = Plug according to DIN 908
Dimensions in millimetres (mm)

M* = Size and position of the drain plug see page 76.

Position of threaded plugs
-BG-20-01R

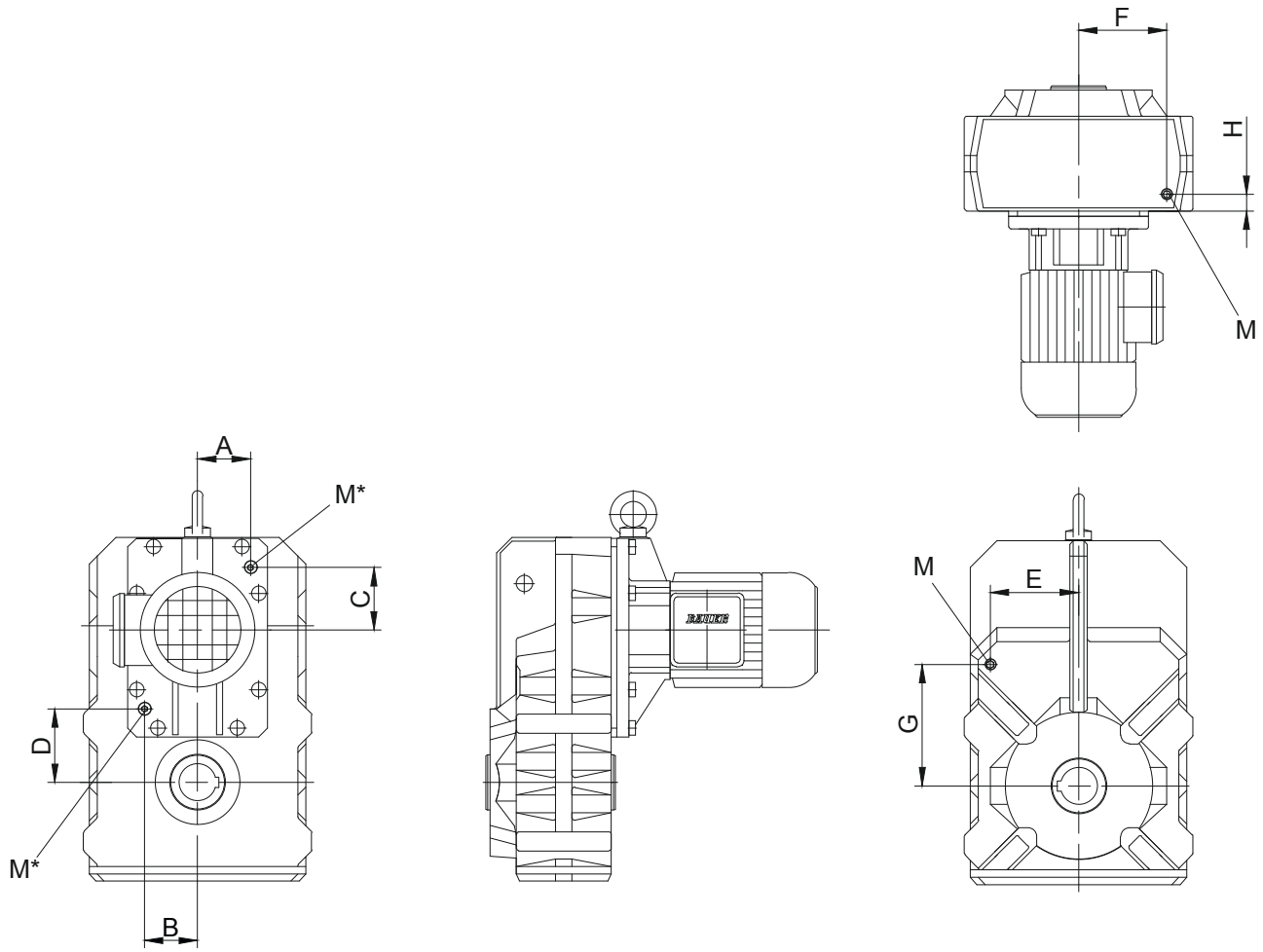


Type	A	B	C	D	G	H	J	K	M
BG20-01R Roller table	see position of the oil drain and filler plugs on the system cover Tab.I-Tab.III size B20				48.5	51.5	45	71.5	M10x1
M = Plug according to DIN 908 Dimensions in millimetres (mm)									

M* = Size and position of the drain plug see page 76.

Threaded plugs

Position of threaded plugs
-BF-series gears



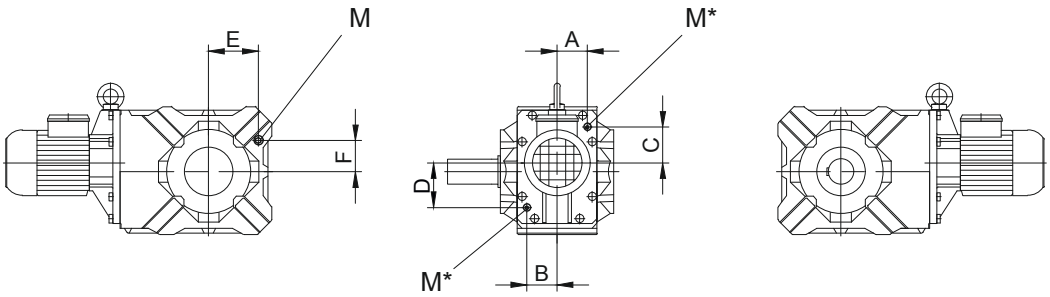
Type	A	B	C	D	E	F	G	H	M
BF06	see position of the oil drain and filler plugs on the system cover	on request							
BF10		Tab.I-Tab.III size		B.10	64	65	97	28	M10x1
BF20		Tab.I-Tab.III size		B.20	77	70	115	30.5	M10x1
BF30		Tab.I-Tab.III size		B.30	88	82	125	36.5	M10x1
BF40		Tab.I-Tab.III size		B.40	100	86	141	33	M14x1.5
BF50		Tab.I-Tab.III size		B.50	120	105	165	42.3	M14x1.5
BF60		Tab.I-Tab.III size		B.60	140	145	200	50.5	M20x1.5
BF70		Tab.I-Tab.III size		B.70	165	177	235	52.5	M20x1.5
BF80		Tab.I-Tab.III size		B.70	145	148	255	123	M20x1.5
BF90		Tab.I-Tab.III size		B.80	155	176	347.5	260	M24x1.5

M = Plug according to DIN 908
Dimensions in millimetres (mm)

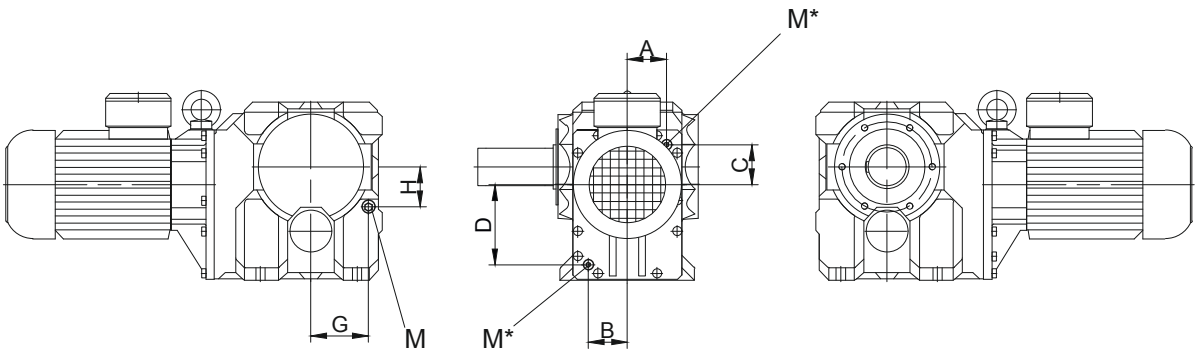
M* = Size and position of the drain plug see page 76.

Position of threaded plugs
-BK-series gears

BK10 - BK50



BK60 - BK90



Type	A	B	C	D	E	F	G	H	M
BK06	see position of the oil drain and filler plugs on the system cover	on request							
BK10		Tab.I-Tab.III size B.10			62	32.5	-	-	M10x1
BK20		Tab.I-Tab.III size B.20			73.5	37.5	-	-	M10x1
BK30		Tab.I-Tab.III size B.30			80	43	-	-	M10x1
BK40		Tab.I-Tab.III size B.40			88	49	-	-	M14x1.5
BK50		Tab.I-Tab.III size B.50			118	74	-	-	M14x1.5
BK60		Tab.I-Tab.III size B.60			-	-	93	87	M20x1.5
BK70		Tab.I-Tab.III size B.70			-	-	137	95	M20x1.5
BK80		Tab.I-Tab.III size B.80			-	-	150	117	M20x1.5
BK90		Tab.I-Tab.III size B.90			-	-	208	135	M24x1.5

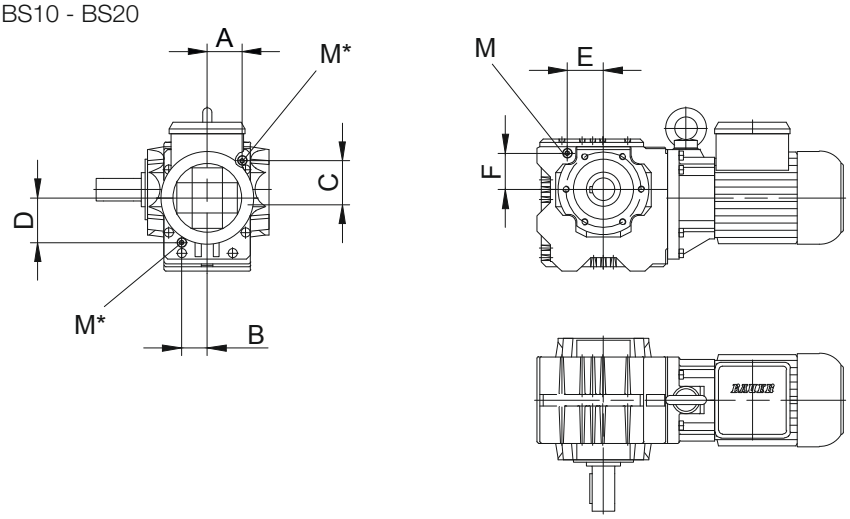
M = Plug according to DIN 908
Dimensions in millimetres (mm)

M* = Size and position of the drain plug see page 76.

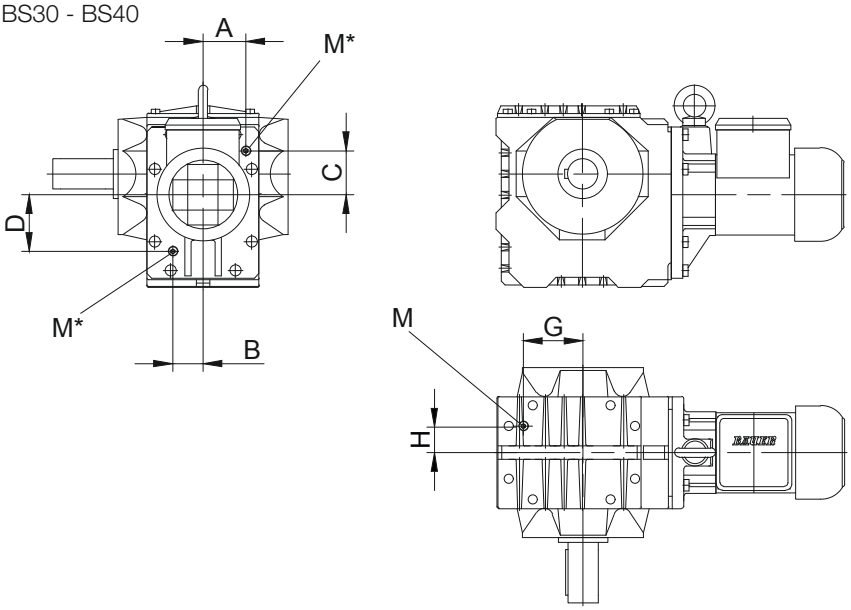
Threaded plugs

Position of threaded plugs
-BS-series gears

BS10 - BS20



BS30 - BS40

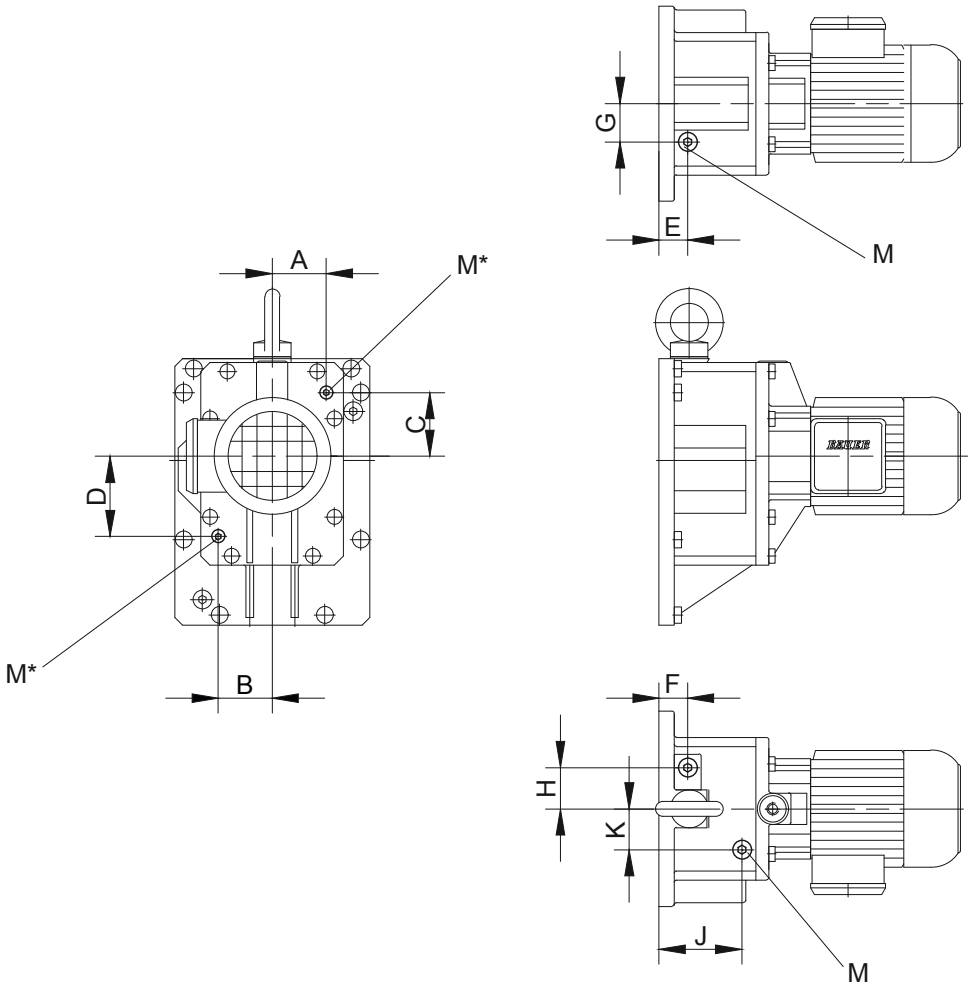


Type	A	B	C	D	E	F	G	H	M
BS10	see position of the oil drain and filler plugs on the system cover	Tab.I-Tab.III size B.10			48	50	-	-	M10x1
BS20		Tab.I-Tab.III size B.20			59	63	-	-	M10x1
BS30		Tab.I-Tab.III size B.30			-	-	79	35	M10x1
BS40		Tab.I-Tab.III size B.40			-	-	93.5	41.5	M14x1.5

M = Plug according to DIN 908
Dimensions in millimetres (mm)

M* = Size and position of the drain plug see page 76.

Position of threaded plugs
-pre-stage gears (Z)



Gear	A	B	C	D	E	F	G	H	J	K	M
BG10(Z);BK10(Z)	-	-	-	-	25	-	17.5	-	44	25	M10x1
BF10(Z);BS10(Z)											
BG20(Z);BK20(Z)	-	-	-	-	49	-	28.5	-	23.5	28	M10x1
BF20(Z);BS20(Z)											
BG30(Z);BK30(Z)	see position of the oil drain and filler plugs on the system cover	Tab.I and Tab.III size B10			-	24	-	30	-	-	M10x1
BF30(Z);BS30(Z)											
BG40(Z);BK40(Z)		Tab.I and Tab.III size B20			-	27.5	-	36.5	-	-	M14x1.5
BF40(Z);BS40(Z)											
BG50(Z);BK50(Z)		Tab.I and Tab.III size B30			-	-	-	-	29	43	M14x1.5
BF50(Z)											
BG60(Z);BK60(Z)		Tab.I and Tab.III size B40			-	33	-	48	-	-	M20x1.5
BF60(Z)											
BG70(Z);BK70(Z)		Tab.I and Tab.III size B50			-	38	-	55	-	-	M20x1.5
BF70(Z);BF80(Z)											
BG80(Z);BK80(Z)		Tab.I and Tab.III size B60			-	45	-	-	-	-	M20x1.5
BF90(Z);BG100(Z)											
BG90(Z);BK90(Z)		Tab.I and Tab.III size B70			-	-	-	-	-	-	M24x1.5
M = Plug according to DIN 908 Dimensions in millimetres (mm)											

M* = Size and position of the drain plug see page 76.

Threaded plugs

Position of threaded plugs
-in the System Cover Design with Standard Geared Motor

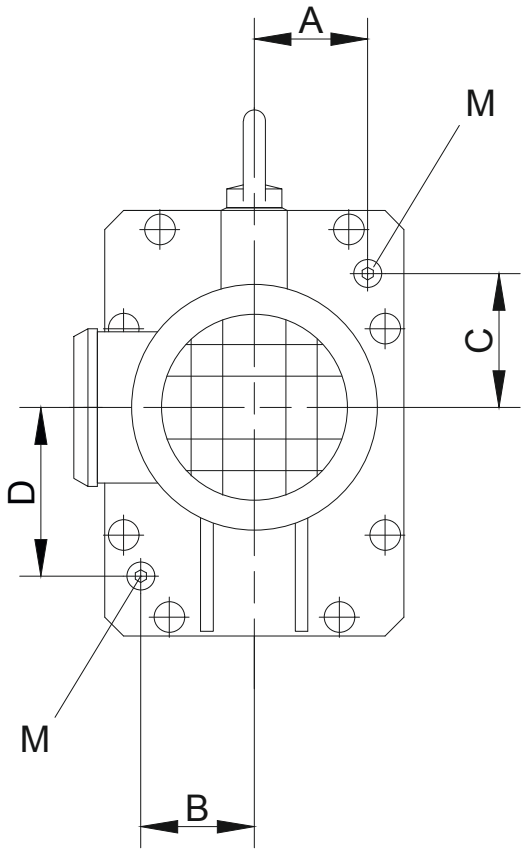


Table I: Design with Standard Geared Motor

Gear	Size	A	B	C	D	M
BG10(Z); BK10(Z); BF10(Z);BS10(Z)	D05-D..09	36	34	43.5	59	M10x1
BG15	D05-D..09	36	34	43.5	59	M10x1
BG20(Z); BK20(Z); BF20(Z);BS20(Z)	D05-D..09	44	44	58	72.5	M10x1
BG30(Z); BK30(Z); BF30(Z);BS30(Z)	D05-D..09	56.5	40	58.2	75	M10x1
BG40(Z); BK40(Z); BF40(Z);BS40(Z)	D..08-D..11	66	71	71	94	M14x1.5
BG50(Z); BK50(Z);	D..08-D..11	72	74	85	109	M14x1.5
BF50(Z);	D..13-D..16	78	74	82	109	M14x1.5
BG60(Z); BK60(Z);	D..09-D..13	84	81	120	155	M20x1.5
BF60(Z);	D..16	86	81	120	155	M20x1.5
BG70(Z); BK70(Z); BF70(Z);BF80(Z)	D..09-D..18	95	85	97	193	M20x1.5
BG80(Z); BK80(Z); BF90(Z);BG100(Z)	D..11-D..18	118	118	110	245	M20x1.5
BG90(Z); BK90(Z);	D..13-D..18	145	145	116	294	M24x1.5

M = Plug according to DIN 908
Dimensions in millimetres (mm)

Position of the drain plugs for BG, BK, BS and BF gear ranges and pre-stages.

Position of threaded plugs
-in the System Cover Design with foreign motor or gear design with input shaft

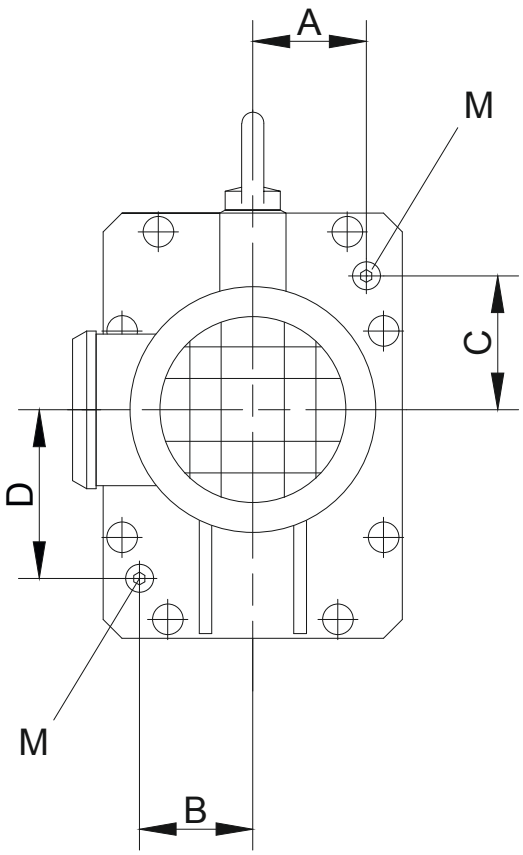
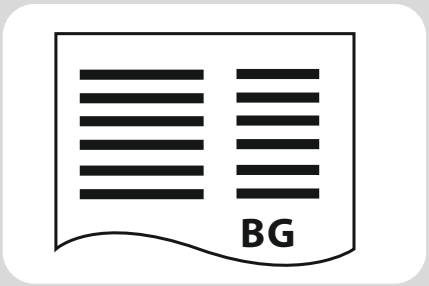


Table II: Design with foreign motor or gear design with input shaft

Gear	A	B	C	D	M
BG10(Z); BK10(Z); BF10(Z);BS10(Z)	1.34	1.34	1.59	2.24	M10x1
BG15	1.34	1.34	1.59	2.24	M10x1
BG20(Z); BK20(Z); BF20(Z);BS20(Z)	1.73	1.73	2.24	2.83	M10x1
BG30(Z); BK30(Z); BF30(Z);BS30(Z)	2.30	1.61	2.27	3.03	M10x1
BG40(Z); BK40(Z); BF40(Z);BS40(Z)	2.72	2.87	2.76	3.82	M14x1.5
BG50(Z); BK50(Z); BF50(Z);	2.95	2.95	3.23	4.33	M14x1.5
BG60(Z); BK60(Z); BF60(Z);	3.31	3.19	4.69	6.10	M20x1.5
BG70(Z); BK70(Z); BF70(Z);BF80(Z)	3.78	3.74	3.78	7.60	M20x1.5
BG80(Z); BK80(Z); BF90(Z);BG100(Z)	4.65	4.65	4.33	9.65	M20x1.5
BG90(Z); BK90(Z);	5.71	5.71	4.57	11.57	M24x1.5
M = Plug according to DIN 908 Dimensions in millimetres (mm)					

Position of the drain plugs for BG, BK, BS and BF gear ranges and pre-stages.



6

BG-series helical-geared motors - Selection

Description of helical-geared units **81**
Sizes 81
Bauer service factors (f_B) for helical- geared motors 81
Continuous operation without switchingfrequency Z ≤1/h 81
Switching duty 81
Bauer service factor 81
Explanation of shock classification 82
Key to abbreviations 82
Selection tables, helical-geared motors 82
Selection helical-geared motors - n_1 = 1500 $^1/_{min}$ **83**
Selection helical-geared motors - n_1 = 3000 $^1/_{min}$ **116**

Sizes

Bauer BG-series helical-geared motors are available in 13 standard sizes with torques from 20 Nm to 18,500 Nm. Higher torques are available on request. The geared unit is accommodated in a sturdy cast housing.

Bauer service factors (f_B) for helical-geared motors

Of the numerous factors influencing the total loading of a geared unit, the most important include:

- Mean torque (rated torque)
- Daily operating hours
- Severity of torque peaks (shock classification)
- Frequency of torque peaks (switching duty)

These factors can be represented in a simplified and practical manner by ***service factors***. The tables and explanations below aim to provide an objective description of the ***shock classification***, rather than a classification of the driven machinery. Experience has shown that, in addition to the torque shocks caused by the driven machinery (M_x/M_N), above all the power transmission components (clutches, chains etc.) plus the mass ratios play a decisive role in this.

See Bauer special imprint SD32 for more information (available on request).

Continuous operation without switchingfrequency Z ≤1/h

Factor f_1 for shock classification and operating time

Shock classification	Operating hours per day t_d	>4 h	>8 h	>16 h
		≤8 h	≤16 h	≤24 h
I		0,8	1,0	1,2
II		1,05	1,25	1,45
III		1,45	1,55	1,7

Switching duty

Factor f_2 for shock classification and switching frequency

Switching frequency in single-shift operation t_d ≤8 h/d

Shock classification	1 <Z ≤100	100 <Z ≤1000	1000 <Z
I	0,95	1,1	1,15
II	1,2	1,35	1,4
III	1,55	1,6	1,6

Switching frequency in multiple-shift operation t_d >8 h/d

Shock classification	1 <Z ≤100	100 <Z ≤1000	1000 <Z
I	1,3	1,45	1,5
II	1,5	1,6	1,65
III	1,75	1,8	1,8

Bauer service factor

Bauer service factor $f_B = f_1$ or $f_B = f_2$

For example: Shock classification II for Z = 100 switching operations per hour and multiple-shift operation yields a service factor $f_B = f_2 = 1.5$

Explanation of shock classification

Shock classification I:

Uniform without shock loads. All the following requirements must be satisfied:
- FI ≤1.3
- M_x/M_N ≤1.0
- Shock-absorbing power transmission components (e.g. highly resilient, zero-play coupling, φ N≥ 5°)

Shock classification II:

Moderate shock loads. At least one of the following conditions applies:
- 1.3 <FI ≤4
- 1 <M_x/M_N ≤1.6
- Shock-neutral power transmission components (e.g. gear wheels, zero- play rigid coupling or resilient coupling with φ N <5°)

Shock classification III:

Heavy shock loads. At least one of the following conditions applies:
- FI >4
- 1.6 <M_x/M_N ≤2.0
- Shock-amplifying power transmission components (e.g. coupling with play or chain drive)

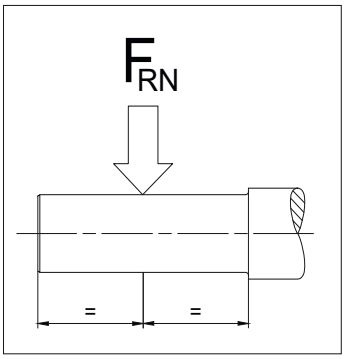
Key to abbreviations

Z	Switching duty number of switching operations per hour
t_d	Daily operating time in hours (h/d)
FI	Factor of inertia FI = $(J_{ext} + J_{rot})/J_{rot}$
J_{ext}	Mass moment of inertia of the machine to be driven, in relation to the motor's rotor shaft (kgm^2)
J_{rot}	Mass moment of inertia of the motor rotor (kgm^2)
M_x	Highest impact torque above the static torque which can occur during normal operation or in emergency situations
M_N	Required static load torque for the application
M_x/M_N	Relative torque - Factor
φ_N	Torsional offset of the resilient coupling under rated torque

Selection tables, helical-geared motors

Key to abbreviations

P	Rated output Power
n_2	Rated speed of the output shaft
i	Gear reduction ratio
M_2	Rated torque at the output shaft
f_B	Bauer service factor
F_{RN}	Maximum permissible radial force with a standard solid shaft (Code -.1 and -.7)
F_{RV}	Maximum permissible radial force with reinforced bearings in each case with standard solid shaft (Code -.1 and -.7)

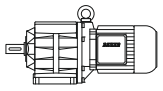


Use the selection tables to determine the size of geared motor required. The codes clearly define the Type of gear (see chapter 10 “dimensional drawings, helical-geared motors”).

Motor power overload protection

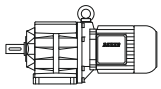
Motor-power ratings, particularly in conjunction with four-stage and multi-stage gear units, are more than ample in some instances. Consequently, and in much the same way as with low-power motors, rated current is not a measure of gear loading and cannot be used to protect the gear unit against overloading. It is advisable to provide gears at risk from excessive load or blockage with a protective mechanism (e. g., slip clutch, slip hub, shear pin or an alternative).

MN = 0.76 Nm (PN = 0.12 kW)



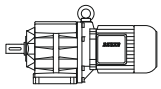
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
0.76	0.12	590	1.9	2.1	2.51	IE4	**BG04-../S4E04SA4-1**	59	199	395	590	710	1.9	1.9	1.9	1.9	1.9	4.4	340	-
0.76	0.12	410	2.75	1.8	3.65	IE4	**BG04-../S4E04SA4-1**	41	136	270	410	490	2.75	2.75	2.75	2.75	2.75	4.4	390	-
0.76	0.12	340	3.3	2.1	4.39	IE4	**BG04-../S4E04SA4-1**	34	113	225	340	410	3.3	3.3	3.3	3.3	3.3	4.4	380	-
0.76	0.12	275	4.05	2.2	5.36	IE4	**BG04-../S4E04SA4-1**	27.5	93	186	275	335	4.05	4.05	4.05	4.05	4.05	4.4	380	-
0.76	0.12	240	4.65	2.3	6.18	IE4	**BG04-../S4E04SA4-1**	24	80	161	240	290	4.65	4.65	4.65	4.65	4.65	4.4	415	-
0.76	0.12	220	5	2	6.67	IE4	**BG04-../S4E04SA4-1**	22	74	149	220	265	5	5	5	5	5	4.4	410	-
0.76	0.12	220	5.1	2.1	6.8	IE4	**BG04-../S4E04SA4-1**	22	73	147	220	260	5.1	5.1	5.1	5.1	5.1	4.4	420	-
0.76	0.12	174	6.5	1.7	8.58	IE4	**BG04-../S4E04SA4-1**	17	58	116	174	205	6.5	6.5	6.5	6.5	6.5	4.4	410	-
0.76	0.12	166	6.8	1.8	9	IE4	**BG04-../S4E04SA4-1**	16.5	55	111	166	200	6.8	6.8	6.8	6.8	6.8	4.4	470	-
0.76	0.12	151	7.5	1.7	9.9	IE4	**BG04-../S4E04SA4-1**	15	50	101	151	181	7.5	7.5	7.5	7.5	7.5	4.4	480	-
0.76	0.12	138	8.2	1.7	10.82	IE4	**BG04-../S4E04SA4-1**	13.5	46	92	138	166	8.2	8.2	8.2	8.2	8.2	4.4	480	-
0.76	0.12	126	9	1.7	11.9	IE4	**BG04-../S4E04SA4-1**	12.5	42	84	126	151	9	9	9	9	9	4.4	490	-
0.76	0.12	119	9.5	1.6	12.55	IE4	**BG04-../S4E04SA4-1**	11.5	39.5	79	119	143	9.5	9.5	9.5	9.5	9.5	4.4	490	-
0.76	0.12	113	10	1.6	13.2	IE4	**BG04-../S4E04SA4-1**	11	37.5	75	113	136	10	10	10	10	10	4.4	500	-
0.76	0.12	103	11	1.5	14.52	IE4	**BG04-../S4E04SA4-1**	10	34	68	103	123	11	11	11	11	11	4.4	510	-
0.76	0.12	91	12.4	1.4	16.44	IE4	**BG04-../S4E04SA4-1**	9.1	30	60	91	109	12.4	12.4	12.4	12.4	12.4	4.4	530	-
0.76	0.12	82	13.7	1.3	18.08	IE4	**BG04-../S4E04SA4-1**	8.2	27.5	55	82	99	13.7	13.7	13.7	13.7	13.7	4.4	540	-
0.76	0.12	71	16	1.2	21.12	IE4	**BG04-../S4E04SA4-1**	7.1	23.5	47	71	85	16	16	16	16	16	4.4	560	-
0.76	0.12	64	17.6	1.1	23.23	IE4	**BG04-../S4E04SA4-1**	6.4	21.5	43	64	77	17.6	17.6	17.6	17.6	17.6	4.4	600	-
0.76	0.12	61	18.5	1.1	24.45	IE4	**BG04-../S4E04SA4-1**	6.1	20	40.5	61	73	18.5	18.5	18.5	18.5	18.5	4.4	610	-
0.76	0.12	55	20	0.98	26.89	IE4	**BG04-../S4E04SA4-1**	5.5	18.5	37	55	66	20	20	20	20	20	4.4	650	-
0.76	0.12	48.5	23	0.85	30.91	IE4	**BG04-../S4E04SA4-1**	4.8	16	32	48.5	58	23	23	23	23	23	4.4	690	-
0.76	0.12	192	5.9	3	7.8	IE4	**BG05-../S4E04SA4-1**	19	64	128	192	230	5.9	5.9	5.9	5.9	5.9	5.1	530	-
0.76	0.12	184	6.1	2.9	8.15	IE4	**BG05-../S4E04SA4-1**	18	61	122	184	220	6.1	6.1	6.1	6.1	6.1	5.1	510	-
0.76	0.12	176	6.4	2.9	8.51	IE4	**BG05-../S4E04SA4-1**	17.5	58	117	176	210	6.4	6.4	6.4	6.4	6.4	5.1	550	-
0.76	0.12	144	7.9	2.4	10.4	IE4	**BG05-../S4E04SA4-1**	14	48	96	144	173	7.9	7.9	7.9	7.9	7.9	5.1	510	-
0.76	0.12	141	8	2.5	10.59	IE4	**BG05-../S4E04SA4-1**	14	47	94	141	169	8	8	8	8	8	5.1	590	-
0.76	0.12	129	8.7	2.4	11.55	IE4	**BG05-../S4E04SA4-1**	12.5	43	86	129	155	8.7	8.7	8.7	8.7	8.7	5.1	600	-
0.76	0.12	124	9.1	2.3	12.05	IE4	**BG05-../S4E04SA4-1**	12	41	82	124	149	9.1	9.1	9.1	9.1	9.1	5.1	510	-
0.76	0.12	119	9.5	2.3	12.6	IE4	**BG05-../S4E04SA4-1**	11.5	39.5	79	119	142	9.5	9.5	9.5	9.5	9.5	5.1	610	-
0.76	0.12	109	10.4	2.2	13.75	IE4	**BG05-../S4E04SA4-1**	10.5	36	72	109	130	10.4	10.4	10.4	10.4	10.4	5.1	630	-
0.76	0.12	98	11.5	2.1	15.23	IE4	**BG05-../S4E04SA4-1**	9.8	32.5	65	98	118	11.5	11.5	11.5	11.5	11.5	5.1	640	-
0.76	0.12	90	12.6	2	16.62	IE4	**BG05-../S4E04SA4-1**	9	30	60	90	108	12.6	12.6	12.6	12.6	12.6	5.1	660	-
0.76	0.12	79	14.3	1.8	18.82	IE4	**BG05-../S4E04SA4-1**	7.9	26.5	53	79	95	14.3	14.3	14.3	14.3	14.3	5.1	680	-
0.76	0.12	73	15.6	1.7	20.53	IE4	**BG05-../S4E04SA4-1**	7.3	24	48.5	73	87	15.6	15.6	15.6	15.6	15.6	5.1	700	-
0.76	0.12	62	18.2	1.5	24	IE4	**BG05-../S4E04SA4-1**	6.2	20.5	41.5	62	75	18.2	18.2	18.2	18.2	18.2	5.1	740	-
0.76	0.12	57	19.8	1.5	26.18	IE4	**BG05-../S4E04SA4-1**	5.7	19	38	57	68	19.8	19.8	19.8	19.8	19.8	5.1	760	-
0.76	0.12	53	21	1.4	27.82	IE4	**BG05-../S4E04SA4-1**	5.3	17.5	35.5	53	64	21	21	21	21	21	5.1	770	-
0.76	0.12	49	23	1.3	30.35	IE4	**BG05-../S4E04SA4-1**	4.9	16	32.5	49	59	23	23	23	23	23	5.1	760	-
0.76	0.12	42.5	26.5	1.1	35	IE4	**BG05-../S4E04SA4-1**	4.2	14	28.5	42.5	51	26.5	26.5	26.5	26.5	26.5	5.1	810	-
0.76	0.12	39	29	1	38.18	IE4	**BG05-../S4E04SA4-1**	3.9	13	26	39	47	29	29	29	29	29	5.1	850	-
0.76	0.12	37.5	30	0.99	39.94	IE4	**BG05-../S4E04SA4-1**	3.7	12.5	25	37.5	45	30	30	30	30	30	5.1	860	-
0.76	0.12	34	33	0.91	43.57	IE4	**BG05-../S4E04SA4-1**	3.4	11	22.5	34	41	33	33	33	33	33	5.1	900	-
0.76	0.12	31.5	35.5	0.84	47	IE4	**BG05-../S4E04SA4-1**	3.1	10.5	21	31.5	38	35.5	35.5	35.5	35.5	35.5	5.1	930	-
0.76	0.12	101	11.2	3	14.78	IE4	**BG06-../S4E04SA4-1**	10	33.5	67	101	121	11.2	11.2	11.2	11.2	11.2	6.1	730	-
0.76	0.12	92	12.2	2.9	16.13	IE4	**BG06-../S4E04SA4-1**	9.2	30.5	61	92	111	12.2	12.2	12.2	12.2	12.2	6.1	740	-
0.76	0.12	86	13.2	2.9	17.4	IE4	**BG06-../S4E04SA4-1**	8.6	28.5	57	86	103	13.2	13.2	13.2	13.2	13.2	6.1	760	-
0.76	0.12	79	14.4	2.8	18.98	IE4	**BG06-../S4E04SA4-1**	7.9	26	52	79	94	14.4	14.4	14.4	14.4	14.4	6.1	770	-
0.76	0.12	72	15.8	2.5	20.82	IE4	**BG06-../S4E04SA4-1**	7.2	24	48	72	86	15.8	15.8	15.8	15.8	15.8	6.1	800	-
0.76	0.12	66	17.2	2.5	22.71	IE4	**BG06-../S4E04SA4-1**	6.6	22	44	66	79	17.2	17.2	17.2	17.2	17.2	6.1	810	-
0.76	0.12	58	19.3	2.3	25.48	IE4	**BG06-../S4E04SA4-1**	5.8	19.5	39	58	70	19.3	19.3	19.3	19.3	19.3	6.1	850	-
0.76	0.12	53	21	2.1	27.8	IE4	**BG06-../S4E04SA4-1**	5.3	17.5	35.5	53	64	21	21	21	21	21	6.1	840	-
0.76	0.12	46.5	24	1.8	32.22	IE4	**BG06-../S4E04SA4-1**	4.6	15.5	31	46.5	55	24	24	24	24	24	6.1	890	-
0.76	0.12	42.5	26.5	1.7	35.15	IE4	**BG06-../S4E04SA4-1**	4.2	14	28	42.5	51	26.5	26.5	26.5	26.5	26.5	6.1	880	-
0.76	0.12	40.5	28	1.6	36.91	IE4	**BG06-../S4E04SA4-1**	4	13.5	27	40.5	48.5	28	28	28	28	28	6.1	890	-
0.76	0.12	37	30.5	1.5	40.26	IE4	**BG06-../S4E04SA4-1**	3.7	12	24.5	37	44.5	30.5	30.5	30.5	30.5	30.5	6.1	890	-
0.76	0.12	32	35	1.3	46.19	IE4	**BG06-../S4E04SA4-1**	3.2	10.5	21.5	32	38.5	35	35	35	35	35	6.1	890	-
0.76	0.12	29.5	38	1.2	50.38	IE4	**BG06-../S4E04SA4-1**	2.9	9.9	19.5	29.5	35.5	38	38	38	38	38	6.1	940	-
0.76	0.12	28.5	39.5	1.1	52.56	IE4	**BG06-../S4E04SA4-1**	2.8	9.5	19	28.5	34	39.5	39.5	39.5	39.5	39.5	6.1	950	-
0.76	0.12	26	43.5	1	57.34	IE4	**BG06-../S4E04SA4-1**	2.6	8.7	17	26	31	43.5	43.5	43.5	43.5	43.5	6.1	1000	-
0.76	0.12	24.5	46.5	0.97	61.22	IE4	**BG06-../S4E04SA4-1**	2.4	8.1	16	24.5	29	46.5	46.5	46.5	46.5	46.5	6.1	1020	-
0.76	0.12	22	50	0.89	66.79	IE4	**BG06-../S4E04SA4-1**	2.2	7.4	14.5	22	26.5	50	50	50	50	50	6.1	1070	-
0.76	0.12	22	51	2	67.54	IE4	**BG10Z-../S4E04SA4-1**	2.2	7.4	14.5	22	26.5	51	51	51	51	51	11	2000	2800
0.76	0.12	19	58	2	77.4	IE4	**BG10Z-../S4E04SA4-1**	1.9	6.4	12.5	19	23	58	58	58	58	58	11	2000	2800
0.76	0.12	17	65	1.8	85.76	IE4	**BG10Z-../S4E04SA4-1**	1.7	5.8	11.5	17	20.5	65	65	65	65	65	11	2000	2800
0.76	0.12	16	70	1.7	92.19	IE4	**BG10Z-../S4E04SA4-1**	1.6	5.4	10.5	16	19.5	70	70	70	70	70	11	2000	2800
0.76	0.12	14.5	77	1.5	102.1	IE4	**BG10Z-../S4E04SA4-1**	1.4	4.8	9.7	14.5	17.5	77	77	77	77	77	11	2000	2800
0.76	0.12	13.5	83	1.4	109.8	IE4	**BG10Z-../S4E04SA4-1**	1.3	4.5	9.1	13.5	16	83	83	83	83	83	11	2000	2800
0.76	0.12	12	92	1.3	121.7	IE4	**BG10Z-../S4E04SA4-1**	1.2	4.1	8.2	12	14.5	92	92	92	92	92	11	2000	2800
0.76	0.12	11	100	1.2	131.8	IE4	**BG10Z-../S4E04SA4-1**	1.1	3.7	7.5	11	13.5	100	100	100	100	100	11	2000	2800
0.76	0.12	10	110	1.1	146	IE4	**BG10Z-../S4E04SA4-1**	1	3.4	6.8	10	12	110	110	110	110	110	11	2000	2800
0.76	0.12	9	126	0.95	166	IE4	**BG10Z-../S4E04SA4-1**	0.9	3	6	9	10.5	126	126	126	126	126	11	2000	2800
0.76	0.12	8.1	139	0.86	184	IE4	**BG10Z-../S4E04SA4-1**	0.8	2.7	5.4	8.1	9.7	139	139	139	139	139	11	2000	2800
0.76	0.12	7.7	147	0.81	194.6	IE4	**BG10Z-../S4E04SA4-1**	0.75	2.5	5.1	7.7	9.2	147	147	147	147	147	11	2000	2800
0.76	0.12	9.9	114	1.1	150.1	IE4	**BG10G06-../S4E04SA4-1**	0.95	3.3	6.6	9.9	11.5	114	114	114	114	114	14	2000	2800
0.76	0.12	9	126	1	166.3	IE4	**BG10G06-../S4E04SA4-1**	0.9	3	6	9	10.5	126	126	126	126	126	14	2000	2800
0.76	0.12	7.6	148	0.88	194.9	IE4	**BG10G06-../S4E04SA4-1**	0.75	2.5	5.1	7.6	9.2	148	148	148	148	148	14	2000	2800
0.76	0.12	17	66	3	87.3	IE4	**BG20Z-../S4E04SA4-1**	1.7	5.7	11	17	20.5	66	66	66	66	66	13	5000	-

MN = 0.76 Nm (PN = 0.12 kW)



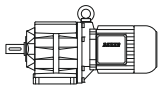
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
0.76	0.12	15.5	71	2.8	94.27	IE4	**BG20Z-../S4E04SA4-1**	1.5	5.3	10.5	15.5	19	71	71	71	71	71	13	5000	-
0.76	0.12	14	79	2.5	104.7	IE4	**BG20Z-../S4E04SA4-1**	1.4	4.7	9.5	14	17	79	79	79	79	79	13	5000	-
0.76	0.12	13	85	2.3	112.8	IE4	**BG20Z-../S4E04SA4-1**	1.3	4.4	8.8	13	15.5	85	85	85	85	85	13	5000	-
0.76	0.12	11.5	95	2.1	125.3	IE4	**BG20Z-../S4E04SA4-1**	1.1	3.9	7.9	11.5	14	95	95	95	95	95	13	5000	-
0.76	0.12	10.5	107	1.9	141.3	IE4	**BG20Z-../S4E04SA4-1**	1	3.5	7	10.5	12.5	107	107	107	107	107	13	5000	-
0.76	0.12	9.5	119	1.7	157	IE4	**BG20Z-../S4E04SA4-1**	0.95	3.1	6.3	9.5	11	119	119	119	119	119	13	5000	-
0.76	0.12	9.2	123	1.6	162.2	IE4	**BG20Z-../S4E04SA4-1**	0.9	3	6.1	9.2	11	123	123	123	123	123	13	5000	-
0.76	0.12	8.3	136	1.5	180.1	IE4	**BG20Z-../S4E04SA4-1**	0.8	2.7	5.5	8.3	9.9	136	136	136	136	136	13	5000	-
0.76	0.12	7.5	151	1.3	199.9	IE4	**BG20Z-../S4E04SA4-1**	0.75	2.5	5	7.5	9	151	151	151	151	151	13	5000	-
0.76	0.12	6.7	168	1.2	222.1	IE4	**BG20Z-../S4E04SA4-1**	0.65	2.2	4.5	6.7	8.1	168	168	168	168	168	13	5000	-
0.76	0.12	6	188	1.2	248	IE4	**BG20G06-../S4E04SA4-1**	0.6	2	4	6	7.2	188	188	188	188	188	17	5000	2100
0.76	0.12	5	225	0.97	297.9	IE4	**BG20G06-../S4E04SA4-1**	0.5	1.6	3.3	5	6	225	225	225	225	225	17	5000	2100
0.76	0.12	4.2	265	0.82	352.1	IE4	**BG20G06-../S4E04SA4-1**	0.42	1.4	2.8	4.2	5.1	265	265	265	265	265	17	5000	2100
0.76	0.12	5.8	193	1.7	254.9	IE4	**BG30G06-../S4E04SA4-1**	0.55	1.9	3.9	5.8	7	193	193	193	193	193	21	6000	-
0.76	0.12	4.8	230	1.4	306.2	IE4	**BG30G06-../S4E04SA4-1**	0.48	1.6	3.2	4.8	5.8	230	230	230	230	230	21	6000	-
0.76	0.12	4.3	260	1.2	346.8	IE4	**BG30G06-../S4E04SA4-1**	0.43	1.4	2.8	4.3	5.1	260	260	260	260	260	21	6000	-
0.76	0.12	3.7	305	1.1	401.9	IE4	**BG30G06-../S4E04SA4-1**	0.37	1.2	2.4	3.7	4.4	305	305	305	305	305	21	6000	-
0.76	0.12	3.1	355	0.9	472.8	IE4	**BG30G06-../S4E04SA4-1**	0.31	1	2.1	3.1	3.8	355	355	355	355	355	21	6000	-

MN = 1 Nm (PN = 0.157 kW)



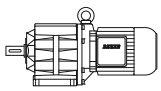
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
1	0.157	590	2.5	1.6	2.51	IE2	**BG04-../SHE04SA4-1**	59	199	395	590	710	1.9	2.1	2.5	2.5	2.5	4.4	340	-
1	0.157	410	3.65	1.4	3.65	IE2	**BG04-../SHE04SA4-1**	41	136	270	410	490	2.75	3.1	3.65	3.65	3.65	4.4	390	-
1	0.157	340	4.35	1.6	4.39	IE2	**BG04-../SHE04SA4-1**	34	113	225	340	410	3.3	3.7	4.35	4.35	4.35	4.4	380	-
1	0.157	275	5.3	1.7	5.36	IE2	**BG04-../SHE04SA4-1**	27.5	93	186	275	335	4.05	4.55	5.3	5.3	5.3	4.4	380	-
1	0.157	240	6.1	1.8	6.18	IE2	**BG04-../SHE04SA4-1**	24	80	161	240	290	4.65	5.2	6.1	6.1	6.1	4.4	415	-
1	0.157	220	6.6	1.5	6.67	IE2	**BG04-../SHE04SA4-1**	22	74	149	220	265	5	5.6	6.6	6.6	6.6	4.4	410	-
1	0.157	220	6.8	1.6	6.8	IE2	**BG04-../SHE04SA4-1**	22	73	147	220	260	5.1	5.7	6.8	6.8	6.8	4.4	420	-
1	0.157	174	8.5	1.3	8.58	IE2	**BG04-../SHE04SA4-1**	17	58	116	174	205	6.5	7.2	8.5	8.5	8.5	4.4	410	-
1	0.157	166	9	1.3	9	IE2	**BG04-../SHE04SA4-1**	16.5	55	111	166	200	6.8	7.6	9	9	9	4.4	470	-
1	0.157	151	9.9	1.3	9.9	IE2	**BG04-../SHE04SA4-1**	15	50	101	151	181	7.5	8.4	9.9	9.9	9.9	4.4	480	-
1	0.157	138	10.8	1.3	10.82	IE2	**BG04-../SHE04SA4-1**	13.5	46	92	138	166	8.2	9.1	10.8	10.8	10.8	4.4	480	-
1	0.157	126	11.9	1.3	11.9	IE2	**BG04-../SHE04SA4-1**	12.5	42	84	126	151	9	10.1	11.9	11.9	11.9	4.4	490	-
1	0.157	119	12.5	1.2	12.55	IE2	**BG04-../SHE04SA4-1**	11.5	39.5	79	119	143	9.5	10.6	12.5	12.5	12.5	4.4	490	-
1	0.157	113	13.1	1.2	13.2	IE2	**BG04-../SHE04SA4-1**	11	37.5	75	113	136	10	11.2	13.1	13.1	13.1	4.4	500	-
1	0.157	103	14.5	1.2	14.52	IE2	**BG04-../SHE04SA4-1**	10	34	68	103	123	11	12.3	14.5	14.5	14.5	4.4	510	-
1	0.157	91	16.4	1.1	16.44	IE2	**BG04-../SHE04SA4-1**	9.1	30	60	91	109	12.4	13.9	16.4	16.4	16.4	4.4	530	-
1	0.157	82	18	1	18.08	IE2	**BG04-../SHE04SA4-1**	8.2	27.5	55	82	99	13.7	15.3	18	18	18	4.4	540	-
1	0.157	71	21	0.9	21.12	IE2	**BG04-../SHE04SA4-1**	7.1	23.5	47	71	85	16	17.9	21	21	21	4.4	560	-
1	0.157	64	23	0.86	23.23	IE2	**BG04-../SHE04SA4-1**	6.4	21.5	43	64	77	17.6	19.7	23	23	23	4.4	600	-
1	0.157	61	24	0.82	24.45	IE2	**BG04-../SHE04SA4-1**	6.1	20	40.5	61	73	18.5	20.5	24	24	24	4.4	610	-
1	0.157	440	3.35	3	3.38	IE2	**BG05-../SHE04SA4-1**	44	147	295	440	530	2.55	2.85	3.35	3.35	3.35	5.1	460	-
1	0.157	325	4.55	2.6	4.59	IE2	**BG05-../SHE04SA4-1**	32.5	108	215	325	390	3.45	3.9	4.55	4.55	4.55	5.1	490	-
1	0.157	270	5.4	2.6	5.46	IE2	**BG05-../SHE04SA4-1**	27	91	183	270	325	4.1	4.6	5.4	5.4	5.4	5.1	490	-
1	0.157	245	6	2.8	6.09	IE2	**BG05-../SHE04SA4-1**	24.5	82	164	245	295	4.6	5.1	6	6	6	5.1	480	-
1	0.157	225	6.5	2.4	6.6	IE2	**BG05-../SHE04SA4-1**	22.5	75	151	225	270	5	5.6	6.5	6.5	6.5	5.1	510	-
1	0.157	225	6.6	2.6	6.64	IE2	**BG05-../SHE04SA4-1**	22.5	75	150	225	270	5	5.6	6.6	6.6	6.6	5.1	500	-
1	0.157	192	7.8	2.3	7.8	IE2	**BG05-../SHE04SA4-1**	19	64	128	192	230	5.9	6.6	7.8	7.8	7.8	5.1	530	-
1	0.157	184	8.1	2.2	8.15	IE2	**BG05-../SHE04SA4-1**	18	61	122	184	220	6.1	6.9	8.1	8.1	8.1	5.1	510	-
1	0.157	176	8.5	2.2	8.51	IE2	**BG05-../SHE04SA4-1**	17.5	58	117	176	210	6.4	7.2	8.5	8.5	8.5	5.1	550	-
1	0.157	144	10.4	1.8	10.4	IE2	**BG05-../SHE04SA4-1**	14	48	96	144	173	7.9	8.8	10.4	10.4	10.4	5.1	510	-
1	0.157	141	10.5	1.9	10.59	IE2	**BG05-../SHE04SA4-1**	14	47	94	141	169	8	9	10.5	10.5	10.5	5.1	590	-
1	0.157	129	11.5	1.8	11.55	IE2	**BG05-../SHE04SA4-1**	12.5	43	86	129	155	8.7	9.8	11.5	11.5	11.5	5.1	600	-
1	0.157	124	12	1.7	12.05	IE2	**BG05-../SHE04SA4-1**	12	41	82	124	149	9.1	10.2	12	12	12	5.1	510	-
1	0.157	119	12.5	1.7	12.6	IE2	**BG05-../SHE04SA4-1**	11.5	39.5	79	119	142	9.5	10.7	12.5	12.5	12.5	5.1	610	-
1	0.157	109	13.7	1.7	13.75	IE2	**BG05-../SHE04SA4-1**	10.5	36	72	109	130	10.4	11.6	13.7	13.7	13.7	5.1	630	-
1	0.157	98	15.2	1.6	15.23	IE2	**BG05-../SHE04SA4-1**	9.8	32.5	65	98	118	11.5	12.9	15.2	15.2	15.2	5.1	640	-
1	0.157	90	16.6	1.5	16.62	IE2	**BG05-../SHE04SA4-1**	9	30	60	90	108	12.6	14.1	16.6	16.6	16.6	5.1	660	-
1	0.157	79	18.8	1.4	18.82	IE2	**BG05-../SHE04SA4-1**	7.9	26.5	53	79	95	14.3	15.9	18.8	18.8	18.8	5.1	680	-
1	0.157	73	20.5	1.3	20.53	IE2	**BG05-../SHE04SA4-1**	7.3	24	48.5	73	87	15.6	17.4	20.5	20.5	20.5	5.1	700	-
1	0.157	62	24	1.2	24	IE2	**BG05-../SHE04SA4-1**	6.2	20.5	41.5	62	75	18.2	20	24	24	24	5.1	740	-
1	0.157	57	26	1.1	26.18	IE2	**BG05-../SHE04SA4-1**	5.7	19	38	57	68	19.8	22	26	26	26	5.1	760	-
1	0.157	53	27.5	1.1	27.82	IE2	**BG05-../SHE04SA4-1**	5.3	17.5	35.5	53	64	21	23.5	27.5	27.5	27.5	5.1	770	-
1	0.157	49	30	0.99	30.35	IE2	**BG05-../SHE04SA4-1**	4.9	16	32.5	49	59	23	25.5	30	30	30	5.1	760	-
1	0.157	42.5	35	0.86	35	IE2	**BG05-../SHE04SA4-1**	4.2	14	28.5	42.5	51	26.5	29.5	35	35	35	5.1	810	-
1	0.157	146	10.2	3	10.24	IE2	**BG06-../SHE04SA4-1**	14.5	48.5	97	146	175	7.7	8.7	10.2	10.2	10.2	6.1	640	-
1	0.157	132	11.2	2.8	11.28	IE2	**BG06-../SHE04SA4-1**	13	44	88	132	159	8.5	9.5	11.2	11.2	11.2	6.1	670	-
1	0.157	121	12.3	2.7	12.3	IE2	**BG06-../SHE04SA4-1**	12	40.5	81	121	146	9.3	10.4	12.3	12.3	12.3	6.1	670	-
1	0.157	115	12.9	2.5	12.98	IE2	**BG06-../SHE04SA4-1**	11.5	38.5	77	115	138	9.8	11	12.9	12.9	12.9	6.1	600	-
1	0.157	101	14.7	2.3	14.78	IE2	**BG06-../SHE04SA4-1**	10	33.5	67	101	121	11.2	12.5	14.7	14.7	14.7	6.1	730	-
1	0.157	92	16.1	2.2	16.13	IE2	**BG06-../SHE04SA4-1**	9.2	30.5	61	92	111	12.2	13.7	16.1	16.1	16.1	6.1	740	-
1	0.157	86	17.3	2.2	17.4	IE2	**BG06-../SHE04SA4-1**	8.6	28.5	57	86	103	13.2	14.7	17.3	17.3	17.3	6.1	760	-

MN = 1 Nm (PN = 0.157 kW)



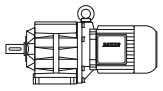
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
1	0.157	79	18.9	2.1	18.98	IE2	**BG06-../SHE04SA4-1**	7.9	26	52	79	94	14.4	16.1	18.9	18.9	18.9	6.1	770	-
1	0.157	72	20.5	1.9	20.82	IE2	**BG06-../SHE04SA4-1**	7.2	24	48	72	86	15.8	17.6	20.5	20.5	20.5	6.1	800	-
1	0.157	66	22.5	1.9	22.71	IE2	**BG06-../SHE04SA4-1**	6.6	22	44	66	79	17.2	19.3	22.5	22.5	22.5	6.1	810	-
1	0.157	58	25	1.8	25.48	IE2	**BG06-../SHE04SA4-1**	5.8	19.5	39	58	70	19.3	21.5	25	25	25	6.1	850	-
1	0.157	53	27.5	1.6	27.8	IE2	**BG06-../SHE04SA4-1**	5.3	17.5	35.5	53	64	21	23.5	27.5	27.5	27.5	6.1	840	-
1	0.157	46.5	32	1.4	32.22	IE2	**BG06-../SHE04SA4-1**	4.6	15.5	31	46.5	55	24	27	32	32	32	6.1	890	-
1	0.157	42.5	35	1.3	35.15	IE2	**BG06-../SHE04SA4-1**	4.2	14	28	42.5	51	26.5	29.5	35	35	35	6.1	880	-
1	0.157	40.5	36.5	1.2	36.91	IE2	**BG06-../SHE04SA4-1**	4	13.5	27	40.5	48.5	28	31	36.5	36.5	36.5	6.1	890	-
1	0.157	37	40	1.1	40.26	IE2	**BG06-../SHE04SA4-1**	3.7	12	24.5	37	44.5	30.5	34	40	40	40	6.1	890	-
1	0.157	32	46	0.97	46.19	IE2	**BG06-../SHE04SA4-1**	3.2	10.5	21.5	32	38.5	35	39	46	46	46	6.1	890	-
1	0.157	29.5	50	0.89	50.38	IE2	**BG06-../SHE04SA4-1**	2.9	9.9	19.5	29.5	35.5	38	42.5	50	50	50	6.1	940	-
1	0.157	28.5	52	0.86	52.56	IE2	**BG06-../SHE04SA4-1**	2.8	9.5	19	28.5	34	39.5	44.5	52	52	52	6.1	950	-
1	0.157	22	67	1.5	67.54	IE2	**BG10Z-../SHE04SA4-1**	2.2	7.4	14.5	22	26.5	51	57	67	67	67	11	2000	2800
1	0.157	19	77	1.6	77.4	IE2	**BG10Z-../SHE04SA4-1**	1.9	6.4	12.5	19	23	58	65	77	77	77	11	2000	2800
1	0.157	17	85	1.4	85.76	IE2	**BG10Z-../SHE04SA4-1**	1.7	5.8	11.5	17	20.5	65	72	85	85	85	11	2000	2800
1	0.157	16	92	1.3	92.19	IE2	**BG10Z-../SHE04SA4-1**	1.6	5.4	10.5	16	19.5	70	78	92	92	92	11	2000	2800
1	0.157	14.5	102	1.2	102.1	IE2	**BG10Z-../SHE04SA4-1**	1.4	4.8	9.7	14.5	17.5	77	86	102	102	102	11	2000	2800
1	0.157	13.5	109	1.1	109.8	IE2	**BG10Z-../SHE04SA4-1**	1.3	4.5	9.1	13.5	16	83	93	109	109	109	11	2000	2800
1	0.157	12	121	0.99	121.7	IE2	**BG10Z-../SHE04SA4-1**	1.2	4.1	8.2	12	14.5	92	103	121	121	121	11	2000	2800
1	0.157	11	131	0.91	131.8	IE2	**BG10Z-../SHE04SA4-1**	1.1	3.7	7.5	11	13.5	100	112	131	131	131	11	2000	2800
1	0.157	10	146	0.82	146	IE2	**BG10Z-../SHE04SA4-1**	1	3.4	6.8	10	12	110	124	146	146	146	11	2000	2800
1	0.157	9.9	150	0.87	150.1	IE2	**BG10G06-../SHE04SA4-1**	0.95	3.3	6.6	9.9	11.5	114	127	150	150	150	14	2000	2800
1	0.157	25.5	58	2.9	58.58	IE2	**BG20Z-../SHE04SA4-1**	2.5	8.5	17	25.5	30.5	44.5	49.5	58	58	58	13	5000	-
1	0.157	22	67	3	67.53	IE2	**BG20Z-../SHE04SA4-1**	2.2	7.4	14.5	22	26.5	51	57	67	67	67	13	5000	-
1	0.157	20	75	2.7	75	IE2	**BG20Z-../SHE04SA4-1**	2	6.6	13	20	24	57	63	75	75	75	13	5000	-
1	0.157	19	78	2.5	78.6	IE2	**BG20Z-../SHE04SA4-1**	1.9	6.3	12.5	19	22.5	59	66	78	78	78	13	5000	-
1	0.157	17	87	2.3	87.3	IE2	**BG20Z-../SHE04SA4-1**	1.7	5.7	11	17	20.5	66	74	87	87	87	13	5000	-
1	0.157	15.5	94	2.1	94.27	IE2	**BG20Z-../SHE04SA4-1**	1.5	5.3	10.5	15.5	19	71	80	94	94	94	13	5000	-
1	0.157	14	104	1.9	104.7	IE2	**BG20Z-../SHE04SA4-1**	1.4	4.7	9.5	14	17	79	88	104	104	104	13	5000	-
1	0.157	13	112	1.8	112.8	IE2	**BG20Z-../SHE04SA4-1**	1.3	4.4	8.8	13	15.5	85	95	112	112	112	13	5000	-
1	0.157	11.5	125	1.6	125.3	IE2	**BG20Z-../SHE04SA4-1**	1.1	3.9	7.9	11.5	14	95	106	125	125	125	13	5000	-
1	0.157	10.5	141	1.4	141.3	IE2	**BG20Z-../SHE04SA4-1**	1	3.5	7	10.5	12.5	107	120	141	141	141	13	5000	-
1	0.157	9.5	157	1.3	157	IE2	**BG20Z-../SHE04SA4-1**	0.95	3.1	6.3	9.5	11	119	133	157	157	157	13	5000	-
1	0.157	9.2	162	1.2	162.2	IE2	**BG20Z-../SHE04SA4-1**	0.9	3	6.1	9.2	11	123	137	162	162	162	13	5000	-
1	0.157	8.3	180	1.1	180.1	IE2	**BG20Z-../SHE04SA4-1**	0.8	2.7	5.5	8.3	9.9	136	153	180	180	180	13	5000	-
1	0.157	7.5	199	1	199.9	IE2	**BG20Z-../SHE04SA4-1**	0.75	2.5	5	7.5	9	151	169	199	199	199	13	5000	-
1	0.157	6.7	220	0.9	222.1	IE2	**BG20Z-../SHE04SA4-1**	0.65	2.2	4.5	6.7	8.1	168	188	220	220	220	13	5000	-
1	0.157	6	245	0.89	248	IE2	**BG20G06-../SHE04SA4-1**	0.6	2	4	6	7.2	188	210	245	245	245	17	5000	2100
1	0.157	5.8	250	1.3	254.9	IE2	**BG30G06-../SHE04SA4-1**	0.55	1.9	3.9	5.8	7	193	215	250	250	250	21	6000	-
1	0.157	4.8	305	1.1	306.2	IE2	**BG30G06-../SHE04SA4-1**	0.48	1.6	3.2	4.8	5.8	230	260	305	305	305	21	6000	-
1	0.157	4.3	345	0.94	346.8	IE2	**BG30G06-../SHE04SA4-1**	0.43	1.4	2.8	4.3	5.1	260	290	345	345	345	21	6000	-
1	0.157	3.7	400	0.81	401.9	IE2	**BG30G06-../SHE04SA4-1**	0.37	1.2	2.4	3.7	4.4	305	340	400	400	400	21	6000	-

MN = 1.3 Nm (PN = 0.2 kW)



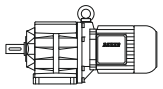
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
1.3	0.2	560	3.4	2.6	2.64	IE5	**BG05-../S5E06MA4**	56	189	375	560	680	3.4	3.4	3.4	3.4	3.4	8.5	420	-
1.3	0.2	440	4.35	2.3	3.38	IE5	**BG05-../S5E06MA4**	44	147	295	440	530	4.35	4.35	4.35	4.35	4.35	8.5	460	-
1.3	0.2	325	5.9	2	4.59	IE5	**BG05-../S5E06MA4**	32.5	108	215	325	390	5.9	5.9	5.9	5.9	5.9	8.5	490	-
1.3	0.2	270	7	2	5.46	IE5	**BG05-../S5E06MA4**	27	91	183	270	325	7	7	7	7	7	8.5	490	-
1.3	0.2	245	7.9	2.1	6.09	IE5	**BG05-../S5E06MA4**	24.5	82	164	245	295	7.9	7.9	7.9	7.9	7.9	8.5	480	-
1.3	0.2	225	8.5	1.9	6.6	IE5	**BG05-../S5E06MA4**	22.5	75	151	225	270	8.5	8.5	8.5	8.5	8.5	8.5	510	-
1.3	0.2	225	8.6	2	6.64	IE5	**BG05-../S5E06MA4**	22.5	75	150	225	270	8.6	8.6	8.6	8.6	8.6	8.5	500	-
1.3	0.2	192	10.1	1.8	7.8	IE5	**BG05-../S5E06MA4**	19	64	128	192	230	10.1	10.1	10.1	10.1	10.1	8.5	530	-
1.3	0.2	184	10.5	1.7	8.15	IE5	**BG05-../S5E06MA4**	18	61	122	184	220	10.5	10.5	10.5	10.5	10.5	8.5	510	-
1.3	0.2	176	11	1.7	8.51	IE5	**BG05-../S5E06MA4**	17.5	58	117	176	210	11	11	11	11	11	8.5	550	-
1.3	0.2	144	13.5	1.4	10.4	IE5	**BG05-../S5E06MA4**	14	48	96	144	173	13.5	13.5	13.5	13.5	13.5	8.5	510	-
1.3	0.2	141	13.7	1.5	10.59	IE5	**BG05-../S5E06MA4**	14	47	94	141	169	13.7	13.7	13.7	13.7	13.7	8.5	590	-
1.3	0.2	129	15	1.4	11.55	IE5	**BG05-../S5E06MA4**	12.5	43	86	129	155	15	15	15	15	15	8.5	600	-
1.3	0.2	124	15.6	1.3	12.05	IE5	**BG05-../S5E06MA4**	12	41	82	124	149	15.6	15.6	15.6	15.6	15.6	8.5	510	-
1.3	0.2	119	16.3	1.3	12.6	IE5	**BG05-../S5E06MA4**	11.5	39.5	79	119	142	16.3	16.3	16.3	16.3	16.3	8.5	610	-
1.3	0.2	109	17.8	1.3	13.75	IE5	**BG05-../S5E06MA4**	10.5	36	72	109	130	17.8	17.8	17.8	17.8	17.8	8.5	630	-
1.3	0.2	98	19.7	1.2	15.23	IE5	**BG05-../S5E06MA4**	9.8	32.5	65	98	118	19.7	19.7	19.7	19.7	19.7	8.5	640	-
1.3	0.2	90	21.5	1.2	16.62	IE5	**BG05-../S5E06MA4**	9	30	60	90	108	21.5	21.5	21.5	21.5	21.5	8.5	660	-
1.3	0.2	79	24	1.1	18.82	IE5	**BG05-../S5E06MA4**	7.9	26.5	53	79	95	24	24	24	24	24	8.5	680	-
1.3	0.2	73	26.5	1	20.53	IE5	**BG05-../S5E06MA4**	7.3	24	48.5	73	87	26.5	26.5	26.5	26.5	26.5	8.5	700	-
1.3	0.2	62	31	0.9	24	IE5	**BG05-../S5E06MA4**	6.2	20.5	41.5	62	75	31	31	31	31	31	8.5	740	-
1.3	0.2	57	34	0.85	26.18	IE5	**BG05-../S5E06MA4**	5.7	19	38	57	68	34	34	34	34	34	8.5	760	-
1.3	0.2	53	36	0.83	27.82	IE5	**BG05-../S5E06MA4**	5.3	17.5	35.5	53	64	36	36	36	36	36	8.5	770	-
1.3	0.2	210	9.1	2.9	7.01	IE5	**BG06-../S5E06MA4**	21	71	142	210	255	9.1	9.1	9.1	9.1	9.1	9.5	580	-
1.3	0.2	178	10.9	2.6	8.39	IE5	**BG06-../S5E06MA4**	17.5	59	119	178	210	10.9	10.9	10.9	10.9	10.9	9.5	600	-
1.3	0.2	159	12.1	2.5	9.38	IE5	**BG06-../S5E06MA4**	15.5	53	106	159	191	12.1	12.1	12.1	12.1	12.1	9.5	640	-

MN = 1.3 Nm (PN = 0.2 kW)



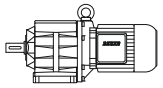
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
1.3	0.2	146	13.3	2.3	10.24	IE5	**BG06-../S5E06MA4**	14.5	48.5	97	146	175	13.3	13.3	13.3	13.3	13.3	9.5	640	-
1.3	0.2	132	14.6	2.2	11.28	IE5	**BG06-../S5E06MA4**	13	44	88	132	159	14.6	14.6	14.6	14.6	14.6	9.5	670	-
1.3	0.2	121	15.9	2.1	12.3	IE5	**BG06-../S5E06MA4**	12	40.5	81	121	146	15.9	15.9	15.9	15.9	15.9	9.5	670	-
1.3	0.2	115	16.8	2	12.98	IE5	**BG06-../S5E06MA4**	11.5	38.5	77	115	138	16.8	16.8	16.8	16.8	16.8	9.5	600	-
1.3	0.2	101	19.2	1.8	14.78	IE5	**BG06-../S5E06MA4**	10	33.5	67	101	121	19.2	19.2	19.2	19.2	19.2	9.5	730	-
1.3	0.2	92	20.5	1.7	16.13	IE5	**BG06-../S5E06MA4**	9.2	30.5	61	92	111	20.5	20.5	20.5	20.5	20.5	9.5	740	-
1.3	0.2	86	22.5	1.7	17.4	IE5	**BG06-../S5E06MA4**	8.6	28.5	57	86	103	22.5	22.5	22.5	22.5	22.5	9.5	760	-
1.3	0.2	79	24.5	1.6	18.98	IE5	**BG06-../S5E06MA4**	7.9	26	52	79	94	24.5	24.5	24.5	24.5	24.5	9.5	770	-
1.3	0.2	72	27	1.5	20.82	IE5	**BG06-../S5E06MA4**	7.2	24	48	72	86	27	27	27	27	27	9.5	800	-
1.3	0.2	66	29.5	1.5	22.71	IE5	**BG06-../S5E06MA4**	6.6	22	44	66	79	29.5	29.5	29.5	29.5	29.5	9.5	810	-
1.3	0.2	58	33	1.4	25.48	IE5	**BG06-../S5E06MA4**	5.8	19.5	39	58	70	33	33	33	33	33	9.5	850	-
1.3	0.2	53	36	1.2	27.8	IE5	**BG06-../S5E06MA4**	5.3	17.5	35.5	53	64	36	36	36	36	36	9.5	840	-
1.3	0.2	46.5	41.5	1.1	32.22	IE5	**BG06-../S5E06MA4**	4.6	15.5	31	46.5	55	41.5	41.5	41.5	41.5	41.5	9.5	890	-
1.3	0.2	42.5	45.5	0.98	35.15	IE5	**BG06-../S5E06MA4**	4.2	14	28	42.5	51	45.5	45.5	45.5	45.5	45.5	9.5	880	-
1.3	0.2	40.5	47.5	0.94	36.91	IE5	**BG06-../S5E06MA4**	4	13.5	27	40.5	48.5	47.5	47.5	47.5	47.5	47.5	9.5	890	-
1.3	0.2	37	52	0.86	40.26	IE5	**BG06-../S5E06MA4**	3.7	12	24.5	37	44.5	52	52	52	52	52	9.5	890	-
1.3	0.2	47.5	40.5	2.9	31.52	IE5	**BG10-../S5E06MA4**	4.7	15.5	31.5	47.5	57	40.5	40.5	40.5	40.5	40.5	13	1600	2200
1.3	0.2	42.5	45	2.6	34.92	IE5	**BG10-../S5E06MA4**	4.2	14	28.5	42.5	51	45	45	45	45	45	13	1690	2350
1.3	0.2	37.5	51	2.3	39.7	IE5	**BG10-../S5E06MA4**	3.7	12.5	25	37.5	45	51	51	51	51	51	13	1780	2450
1.3	0.2	34	57	2.1	43.99	IE5	**BG10-../S5E06MA4**	3.4	11	22.5	34	40.5	57	57	57	57	57	13	1880	2600
1.3	0.2	32	60	2	46.55	IE5	**BG10-../S5E06MA4**	3.2	10.5	21	32	38.5	60	60	60	60	60	13	1920	2650
1.3	0.2	29	67	1.8	51.57	IE5	**BG10-../S5E06MA4**	2.9	9.6	19	29	34.5	67	67	67	67	67	13	2000	2800
1.3	0.2	26	74	1.6	57.48	IE5	**BG10-../S5E06MA4**	2.6	8.6	17	26	31	74	74	74	74	74	13	2000	2800
1.3	0.2	23.5	82	1.4	63.69	IE5	**BG10-../S5E06MA4**	2.3	7.8	15.5	23.5	28	82	82	82	82	82	13	2000	2800
1.3	0.2	22.5	85	1.4	66	IE5	**BG10-../S5E06MA4**	2.2	7.5	15	22.5	27	85	85	85	85	85	13	2000	2800
1.3	0.2	20.5	95	1.3	73.13	IE5	**BG10-../S5E06MA4**	2	6.8	13.5	20.5	24.5	95	95	95	95	95	13	2000	2800
1.3	0.2	22	87	1.2	67.54	IE5	**BG10Z-../S5E06MA4**	2.2	7.4	14.5	22	26.5	87	87	87	87	87	14	2000	2800
1.3	0.2	19	100	1.2	77.4	IE5	**BG10Z-../S5E06MA4**	1.9	6.4	12.5	19	23	100	100	100	100	100	14	2000	2800
1.3	0.2	17	111	1.1	85.76	IE5	**BG10Z-../S5E06MA4**	1.7	5.8	11.5	17	20.5	111	111	111	111	111	14	2000	2800
1.3	0.2	16	119	1	92.19	IE5	**BG10Z-../S5E06MA4**	1.6	5.4	10.5	16	19.5	119	119	119	119	119	14	2000	2800
1.3	0.2	14.5	132	0.9	102.1	IE5	**BG10Z-../S5E06MA4**	1.4	4.8	9.7	14.5	17.5	132	132	132	132	132	14	2000	2800
1.3	0.2	13.5	142	0.84	109.8	IE5	**BG10Z-../S5E06MA4**	1.3	4.5	9.1	13.5	16	142	142	142	142	142	14	2000	2800
1.3	0.2	39.5	49	3	37.9	IE5	**BG15-../S5E06MA4**	3.9	13	26	39.5	47	49	49	49	49	49	13	3000	6000
1.3	0.2	28	69	2.9	53.22	IE5	**BG20-../S5E06MA4**	2.8	9.3	18.5	28	33.5	69	69	69	69	69	16	4950	-
1.3	0.2	25	76	2.6	59.07	IE5	**BG20-../S5E06MA4**	2.5	8.4	16.5	25	30	76	76	76	76	76	16	5000	-
1.3	0.2	22.5	85	2.3	65.62	IE5	**BG20-../S5E06MA4**	2.2	7.6	15	22.5	27	85	85	85	85	85	16	5000	-
1.3	0.2	25.5	76	2.3	58.58	IE5	**BG20Z-../S5E06MA4**	2.5	8.5	17	25.5	30.5	76	76	76	76	76	16	5000	-
1.3	0.2	22	87	2.3	67.53	IE5	**BG20Z-../S5E06MA4**	2.2	7.4	14.5	22	26.5	87	87	87	87	87	16	5000	-
1.3	0.2	20	97	2.1	75	IE5	**BG20Z-../S5E06MA4**	2	6.6	13	20	24	97	97	97	97	97	16	5000	-
1.3	0.2	19	102	2	78.6	IE5	**BG20Z-../S5E06MA4**	1.9	6.3	12.5	19	22.5	102	102	102	102	102	16	5000	-
1.3	0.2	17	113	1.8	87.3	IE5	**BG20Z-../S5E06MA4**	1.7	5.7	11	17	20.5	113	113	113	113	113	16	5000	-
1.3	0.2	15.5	122	1.6	94.27	IE5	**BG20Z-../S5E06MA4**	1.5	5.3	10.5	15.5	19	122	122	122	122	122	16	5000	-
1.3	0.2	14	136	1.5	104.7	IE5	**BG20Z-../S5E06MA4**	1.4	4.7	9.5	14	17	136	136	136	136	136	16	5000	-
1.3	0.2	13	146	1.4	112.8	IE5	**BG20Z-../S5E06MA4**	1.3	4.4	8.8	13	15.5	146	146	146	146	146	16	5000	-
1.3	0.2	11.5	162	1.2	125.3	IE5	**BG20Z-../S5E06MA4**	1.1	3.9	7.9	11.5	14	162	162	162	162	162	16	5000	-
1.3	0.2	10.5	183	1.1	141.3	IE5	**BG20Z-../S5E06MA4**	1	3.5	7	10.5	12.5	183	183	183	183	183	16	5000	-
1.3	0.2	9.5	200	0.98	157	IE5	**BG20Z-../S5E06MA4**	0.95	3.1	6.3	9.5	11	200	200	200	200	200	16	5000	-
1.3	0.2	9.2	210	0.95	162.2	IE5	**BG20Z-../S5E06MA4**	0.9	3	6.1	9.2	11	210	210	210	210	210	16	5000	-
1.3	0.2	8.3	230	0.85	180.1	IE5	**BG20Z-../S5E06MA4**	0.8	2.7	5.5	8.3	9.9	230	230	230	230	230	16	5000	-
1.3	0.2	18	106	2.8	81.55	IE5	**BG30Z-../S5E06MA4**	1.8	6.1	12	18	22	106	106	106	106	106	22	6000	-
1.3	0.2	17	111	2.7	86.13	IE5	**BG30Z-../S5E06MA4**	1.7	5.8	11.5	17	20.5	111	111	111	111	111	22	6000	-
1.3	0.2	15.5	124	2.4	95.55	IE5	**BG30Z-../S5E06MA4**	1.5	5.2	10	15.5	18.5	124	124	124	124	124	22	6000	-
1.3	0.2	13.5	142	2.1	109.6	IE5	**BG30Z-../S5E06MA4**	1.3	4.5	9.1	13.5	16	142	142	142	142	142	22	6000	-
1.3	0.2	12	158	1.9	121.6	IE5	**BG30Z-../S5E06MA4**	1.2	4.1	8.2	12	14.5	158	158	158	158	158	22	6000	-
1.3	0.2	11.5	167	1.8	128.5	IE5	**BG30Z-../S5E06MA4**	1.1	3.8	7.7	11.5	14	167	167	167	167	167	22	6000	-
1.3	0.2	10.5	185	1.6	142.5	IE5	**BG30Z-../S5E06MA4**	1	3.5	7	10.5	12.5	185	185	185	185	185	22	6000	-
1.3	0.2	9.9	196	1.5	151.5	IE5	**BG30Z-../S5E06MA4**	0.95	3.3	6.6	9.9	11.5	196	196	196	196	196	22	6000	-
1.3	0.2	8.9	215	1.4	168.1	IE5	**BG30Z-../S5E06MA4**	0.85	2.9	5.9	8.9	10.5	215	215	215	215	215	22	6000	-
1.3	0.2	8.2	235	1.3	182.9	IE5	**BG30Z-../S5E06MA4**	0.8	2.7	5.4	8.2	9.8	235	235	235	235	235	22	6000	-
1.3	0.2	7.3	260	1.1	202.9	IE5	**BG30Z-../S5E06MA4**	0.7	2.4	4.9	7.3	8.8	260	260	260	260	260	22	6000	-
1.3	0.2	6.6	290	1	225.9	IE5	**BG30Z-../S5E06MA4**	0.65	2.2	4.4	6.6	7.9	290	290	290	290	290	22	6000	-
1.3	0.2	5.9	325	0.92	250.6	IE5	**BG30Z-../S5E06MA4**	0.55	1.9	3.9	5.9	7.1	325	325	325	325	325	22	6000	-
1.3	0.2	5.7	340	0.88	261.9	IE5	**BG30Z-../S5E06MA4**	0.55	1.9	3.8	5.7	6.8	340	340	340	340	340	22	6000	-
1.3	0.2	5.8	330	0.98	254.9	IE5	**BG30G06-../S5E06MA4**	0.55	1.9	3.9	5.8	7	330	330	330	330	330	25	6000	-
1.3	0.2	4.8	395	0.82	306.2	IE5	**BG30G06-../S5E06MA4**	0.48	1.6	3.2	4.8	5.8	395	395	395	395	395	25	6000	-
1.3	0.2	13.5	139	3	107.5	IE5	**BG40Z-../S5E06MA4**	1.3	4.6	9.3	13.5	16.5	139	139	139	139	139	38	7000	-
1.3	0.2	12	157	2.7	121.3	IE5	**BG40Z-../S5E06MA4**	1.2	4.1	8.2	12	14.5	157	157	157	157	157	38	7000	-
1.3	0.2	11	174	2.4	134.6	IE5	**BG40Z-../S5E06MA4**	1.1	3.7	7.4	11	13	174	174	174	174	174	38	7000	-
1.3	0.2	10.5	183	2.3	141.4	IE5	**BG40Z-../S5E06MA4**	1	3.5	7	10.5	12.5	183	183	183	183	183	38	7000	-
1.3	0.2	9.5	200	2.1	156.9	IE5	**BG40Z-../S5E06MA4**	0.95	3.1	6.3	9.5	11	200	200	200	200	200	38	7000	-
1.3	0.2	9	215	2	166.1	IE5	**BG40Z-../S5E06MA4**	0.9	3	6	9	10.5	215	215	215	215	215	38	7000	-
1.3	0.2	8.1	235	1.8	184.4	IE5	**BG40Z-../S5E06MA4**	0.8	2.7	5.4	8.1	9.7	235	235	235	235	235	38	7000	-
1.3	0.2	7.5	255	1.6	199.9	IE5	**BG40Z-../S5E06MA4**	0.75	2.5	5	7.5	9	255	255	255	255	255	38	7000	-
1.3	0.2	6.7	285	1.5	221.9	IE5	**BG40Z-../S5E06MA4**	0.65	2.2	4.5	6.7	8.1	285	285	285	285	285	38	7000	-
1.3	0.2	6	320	1.3	246.5	IE5	**BG40Z-../S5E06MA4**	0.6	2	4	6	7.3	320	320	320	320	320	38	7000	-
1.3	0.2	5.4	355	1.2	273.6	IE5	**BG40Z-../S5E06MA4**	0.5	1.8	3.6	5.4	6.5	355	355	355	355	355	38	7000	-
1.3	0.2	5.1	375	1.2	288.6	IE5	**BG40G10-../S5E06MA4**	0.5	1.7	3.4	5.1	6.2	375	375	375	375	375	43	7000	-

MN = 1.3 Nm (PN = 0.2 kW)



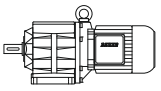
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
1.3	0.2	4.2	455	1	353.5	IE5	**BG40G10-../S5E06MA4**	0.42	1.4	2.8	4.2	5	455	455	455	455	455	43	7000	-
1.3	0.2	3.3	580	0.8	448.8	IE5	**BG40G10-../S5E06MA4**	0.33	1.1	2.2	3.3	4	580	580	580	580	580	43	7000	-
1.3	0.2	9	210	2.9	164.9	IE5	**BG50Z-../S5E06MA4**	0.9	3	6	9	10.5	210	210	210	210	210	47	10000	-
1.3	0.2	8.2	235	2.7	182.8	IE5	**BG50Z-../S5E06MA4**	0.8	2.7	5.4	8.2	9.8	235	235	235	235	235	47	10000	-
1.3	0.2	7.3	265	2.4	204.7	IE5	**BG50Z-../S5E06MA4**	0.7	2.4	4.8	7.3	8.7	265	265	265	265	265	47	10000	-
1.3	0.2	6.6	290	2.1	226.9	IE5	**BG50Z-../S5E06MA4**	0.65	2.2	4.4	6.6	7.9	290	290	290	290	290	47	10000	-
1.3	0.2	5.8	335	1.9	258.6	IE5	**BG50Z-../S5E06MA4**	0.55	1.9	3.8	5.8	6.9	335	335	335	335	335	47	10000	-
1.3	0.2	5.2	370	1.7	286.7	IE5	**BG50Z-../S5E06MA4**	0.5	1.7	3.4	5.2	6.2	370	370	370	370	370	47	10000	-
1.3	0.2	5.2	370	1.8	287.1	IE5	**BG50G10-../S5E06MA4**	0.5	1.7	3.4	5.2	6.2	370	370	370	370	370	51	10000	-
1.3	0.2	4.2	455	1.5	351.7	IE5	**BG50G10-../S5E06MA4**	0.42	1.4	2.8	4.2	5.1	455	455	455	455	455	51	10000	-
1.3	0.2	3.3	580	1.2	446.5	IE5	**BG50G10-../S5E06MA4**	0.33	1.1	2.2	3.3	4	580	580	580	580	580	51	10000	-
1.3	0.2	2.8	690	1	531.5	IE5	**BG50G10-../S5E06MA4**	0.28	0.9	1.8	2.8	3.3	690	690	690	690	690	51	10000	-
1.3	0.2	2.4	800	0.85	621.3	IE5	**BG50G10-../S5E06MA4**	0.24	0.8	1.6	2.4	2.8	800	800	800	800	800	51	10000	-
1.3	0.2	4.4	430	3	334.3	IE5	**BG60G20-../S5E06MA4**	0.44	1.4	2.9	4.4	5.3	430	430	430	430	430	100	16000	-
1.3	0.2	4	480	2.7	370.5	IE5	**BG60G20-../S5E06MA4**	0.4	1.3	2.6	4	4.8	480	480	480	480	480	100	16000	-
1.3	0.2	3.4	560	2.3	437.3	IE5	**BG60G20-../S5E06MA4**	0.34	1.1	2.2	3.4	4.1	560	560	560	560	560	100	16000	-
1.3	0.2	2.9	650	2	504.9	IE5	**BG60G20-../S5E06MA4**	0.29	0.95	1.9	2.9	3.5	650	650	650	650	650	100	16000	-
1.3	0.2	2.6	720	1.8	559.5	IE5	**BG60G20-../S5E06MA4**	0.26	0.85	1.7	2.6	3.2	720	720	720	720	720	100	16000	-
1.3	0.2	2.3	840	1.5	651.3	IE5	**BG60G20-../S5E06MA4**	0.23	0.75	1.5	2.3	2.7	840	840	840	840	840	100	16000	-
1.3	0.2	1.8	1040	1.2	804.5	IE5	**BG60G20-../S5E06MA4**	0.18	0.6	1.2	1.8	2.2	1040	1040	1040	1040	1040	100	16000	-
1.3	0.2	1.6	1150	1.1	891.5	IE5	**BG60G20-../S5E06MA4**	0.16	0.55	1.1	1.6	2	1150	1150	1150	1150	1150	100	16000	-
1.3	0.2	1.4	1360	0.95	1051	IE5	**BG60G20-../S5E06MA4**	0.14	0.47	0.95	1.4	1.7	1360	1360	1360	1360	1360	100	16000	-
1.3	0.2	1.2	1510	0.86	1168	IE5	**BG60G20-../S5E06MA4**	0.12	0.42	0.85	1.2	1.5	1510	1510	1510	1510	1510	100	16000	-
1.3	0.2	2.2	860	2.9	665.8	IE5	**BG70G20-../S5E06MA4**	0.22	0.75	1.5	2.2	2.7	860	860	860	860	860	130	20000	-
1.3	0.2	1.8	1020	2.4	790.2	IE5	**BG70G20-../S5E06MA4**	0.18	0.6	1.2	1.8	2.2	1020	1020	1020	1020	1020	130	20000	-
1.3	0.2	1.7	1140	2.2	877.6	IE5	**BG70G20-../S5E06MA4**	0.17	0.55	1.1	1.7	2	1140	1140	1140	1140	1140	130	20000	-
1.3	0.2	1.4	1340	1.9	1035	IE5	**BG70G20-../S5E06MA4**	0.14	0.48	0.95	1.4	1.7	1340	1340	1340	1340	1340	130	20000	-
1.3	0.2	1.2	1550	1.6	1193	IE5	**BG70G20-../S5E06MA4**	0.12	0.41	0.8	1.2	1.5	1550	1550	1550	1550	1550	130	20000	-
1.3	0.2	1	1800	1.4	1389	IE5	**BG70G20-../S5E06MA4**	0.1	0.35	0.7	1	1.2	1800	1800	1800	1800	1800	130	20000	-
1.3	0.2	0.95	2000	1.2	1543	IE5	**BG70G20-../S5E06MA4**	0.095	0.32	0.6	0.95	1.1	2000	2000	2000	2000	2000	130	20000	-
1.3	0.2	0.9	2150	1.2	1666	IE5	**BG70G20-../S5E06MA4**	0.09	0.3	0.6	0.9	1	2150	2150	2150	2150	2150	130	20000	-
1.3	0.2	0.75	2550	0.96	1994	IE5	**BG70G20-../S5E06MA4**	0.075	0.25	0.5	0.75	0.9	2550	2550	2550	2550	2550	130	20000	-
1.3	0.2	0.65	2850	0.87	2215	IE5	**BG70G20-../S5E06MA4**	0.065	0.22	0.45	0.65	0.8	2850	2850	2850	2850	2850	130	20000	-

MN = 1.6 Nm (PN = 0.25 kW)



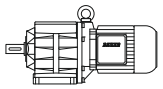
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
1.6	0.25	560	4.2	2.1	2.64	IE4	**BG05-../S4E06MA4**	56	189	375	560	680	4.2	4.2	4.2	4.2	4.2	8.5	420	-
1.6	0.25	440	5.4	1.8	3.38	IE4	**BG05-../S4E06MA4**	44	147	295	440	530	5.4	5.4	5.4	5.4	5.4	8.5	460	-
1.6	0.25	325	7.3	1.6	4.59	IE4	**BG05-../S4E06MA4**	32.5	108	215	325	390	7.3	7.3	7.3	7.3	7.3	8.5	490	-
1.6	0.25	270	8.7	1.6	5.46	IE4	**BG05-../S4E06MA4**	27	91	183	270	325	8.7	8.7	8.7	8.7	8.7	8.5	490	-
1.6	0.25	245	9.7	1.7	6.09	IE4	**BG05-../S4E06MA4**	24.5	82	164	245	295	9.7	9.7	9.7	9.7	9.7	8.5	480	-
1.6	0.25	225	10.5	1.5	6.6	IE4	**BG05-../S4E06MA4**	22.5	75	151	225	270	10.5	10.5	10.5	10.5	10.5	8.5	510	-
1.6	0.25	225	10.6	1.6	6.64	IE4	**BG05-../S4E06MA4**	22.5	75	150	225	270	10.6	10.6	10.6	10.6	10.6	8.5	500	-
1.6	0.25	192	12.4	1.4	7.8	IE4	**BG05-../S4E06MA4**	19	64	128	192	230	12.4	12.4	12.4	12.4	12.4	8.5	530	-
1.6	0.25	184	13	1.4	8.15	IE4	**BG05-../S4E06MA4**	18	61	122	184	220	13	13	13	13	13	8.5	510	-
1.6	0.25	176	13.6	1.4	8.51	IE4	**BG05-../S4E06MA4**	17.5	58	117	176	210	13.6	13.6	13.6	13.6	13.6	8.5	550	-
1.6	0.25	144	16.6	1.1	10.4	IE4	**BG05-../S4E06MA4**	14	48	96	144	173	16.6	16.6	16.6	16.6	16.6	8.5	510	-
1.6	0.25	141	16.9	1.2	10.59	IE4	**BG05-../S4E06MA4**	14	47	94	141	169	16.9	16.9	16.9	16.9	16.9	8.5	590	-
1.6	0.25	129	18.4	1.1	11.55	IE4	**BG05-../S4E06MA4**	12.5	43	86	129	155	18.4	18.4	18.4	18.4	18.4	8.5	600	-
1.6	0.25	124	19.2	1.1	12.05	IE4	**BG05-../S4E06MA4**	12	41	82	124	149	19.2	19.2	19.2	19.2	19.2	8.5	510	-
1.6	0.25	119	20	1.1	12.6	IE4	**BG05-../S4E06MA4**	11.5	39.5	79	119	142	20	20	20	20	20	8.5	610	-
1.6	0.25	109	22	1	13.75	IE4	**BG05-../S4E06MA4**	10.5	36	72	109	130	22	22	22	22	22	8.5	630	-
1.6	0.25	98	24	0.98	15.23	IE4	**BG05-../S4E06MA4**	9.8	32.5	65	98	118	24	24	24	24	24	8.5	640	-
1.6	0.25	90	26.5	0.94	16.62	IE4	**BG05-../S4E06MA4**	9	30	60	90	108	26.5	26.5	26.5	26.5	26.5	8.5	660	-
1.6	0.25	79	30	0.86	18.82	IE4	**BG05-../S4E06MA4**	7.9	26.5	53	79	95	30	30	30	30	30	8.5	680	-
1.6	0.25	73	32.5	0.82	20.53	IE4	**BG05-../S4E06MA4**	7.3	24	48.5	73	87	32.5	32.5	32.5	32.5	32.5	8.5	700	-
1.6	0.25	330	7.2	3	4.54	IE4	**BG06-../S4E06MA4**	33	110	220	330	395	7.2	7.2	7.2	7.2	7.2	9.5	530	-
1.6	0.25	250	9.5	2.5	5.96	IE4	**BG06-../S4E06MA4**	25	83	167	250	300	9.5	9.5	9.5	9.5	9.5	9.5	570	-
1.6	0.25	210	11.2	2.3	7.01	IE4	**BG06-../S4E06MA4**	21	71	142	210	255	11.2	11.2	11.2	11.2	11.2	9.5	580	-
1.6	0.25	178	13.4	2.1	8.39	IE4	**BG06-../S4E06MA4**	17.5	59	119	178	210	13.4	13.4	13.4	13.4	13.4	9.5	600	-
1.6	0.25	159	15	2	9.38	IE4	**BG06-../S4E06MA4**	15.5	53	106	159	191	15	15	15	15	15	9.5	640	-
1.6	0.25	146	16.3	1.9	10.24	IE4	**BG06-../S4E06MA4**	14.5	48.5	97	146	175	16.3	16.3	16.3	16.3	16.3	9.5	640	-
1.6	0.25	132	18	1.8	11.28	IE4	**BG06-../S4E06MA4**	13	44	88	132	159	18	18	18	18	18	9.5	670	-
1.6	0.25	121	19.6	1.7	12.3	IE4	**BG06-../S4E06MA4**	12	40.5	81	121	146	19.6	19.6	19.6	19.6	19.6	9.5	670	-
1.6	0.25	115	20.5	1.6	12.98	IE4	**BG06-../S4E06MA4**	11.5	38.5	77	115	138	20.5	20.5	20.5	20.5	20.5	9.5	600	-
1.6	0.25	101	23.5	1.4	14.78	IE4	**BG06-../S4E06MA4**	10	33.5	67	101	121	23.5	23.5	23.5	23.5	23.5	9.5	730	-
1.6	0.25	92	25.5	1.4	16.13	IE4	**BG06-../S4E06MA4**	9.2	30.5	61	92	111	25.5	25.5	25.5	25.5	25.5	9.5	740	-
1.6	0.25	86	27.5	1.4	17.4	IE4	**BG06-../S4E06MA4**	8.6	28.5	57	86	103	27.5	27.5	27.5	27.5	27.5	9.5	760	-
1.6	0.25	79	30	1.3	18.98	IE4	**BG06-../S4E06MA4**	7.9	26	52	79	94	30	30	30	30	30	9.5	770	-
1.6	0.25	72	33	1.2	20.82	IE4	**BG06-../S4E06MA4**	7.2	24	48	72	86	33	33	33	33	33	9.5	800	-
1.6	0.25	66	36	1.2	22.71	IE4	**BG06-../S4E06MA4**	6.6	22	44	66	79	36	36	36	36	36	9.5	810	-

MN = 1.6 Nm (PN = 0.25 kW)



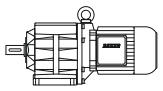
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
1.6	0.25	58	40.5	1.1	25.48	IE4	**BG06-../S4E06MA4**	5.8	19.5	39	58	70	40.5	40.5	40.5	40.5	40.5	9.5	850	-
1.6	0.25	53	44	1	27.8	IE4	**BG06-../S4E06MA4**	5.3	17.5	35.5	53	64	44	44	44	44	44	9.5	840	-
1.6	0.25	46.5	51	0.87	32.22	IE4	**BG06-../S4E06MA4**	4.6	15.5	31	46.5	55	51	51	51	51	51	9.5	890	-
1.6	0.25	42.5	56	0.8	35.15	IE4	**BG06-../S4E06MA4**	4.2	14	28	42.5	51	56	56	56	56	56	9.5	880	-
1.6	0.25	57	42	2.9	26.26	IE4	**BG10-../S4E06MA4**	5.7	19	38	57	68	42	42	42	42	42	13	1460	2000
1.6	0.25	51	46.5	2.6	29.09	IE4	**BG10-../S4E06MA4**	5.1	17	34	51	61	46.5	46.5	46.5	46.5	46.5	13	1540	2150
1.6	0.25	47.5	50	2.4	31.52	IE4	**BG10-../S4E06MA4**	4.7	15.5	31.5	47.5	57	50	50	50	50	50	13	1600	2200
1.6	0.25	42.5	55	2.1	34.92	IE4	**BG10-../S4E06MA4**	4.2	14	28.5	42.5	51	55	55	55	55	55	13	1690	2350
1.6	0.25	37.5	63	1.9	39.7	IE4	**BG10-../S4E06MA4**	3.7	12.5	25	37.5	45	63	63	63	63	63	13	1780	2450
1.6	0.25	34	70	1.7	43.99	IE4	**BG10-../S4E06MA4**	3.4	11	22.5	34	40.5	70	70	70	70	70	13	1880	2600
1.6	0.25	32	74	1.6	46.55	IE4	**BG10-../S4E06MA4**	3.2	10.5	21	32	38.5	74	74	74	74	74	13	1920	2650
1.6	0.25	29	82	1.5	51.57	IE4	**BG10-../S4E06MA4**	2.9	9.6	19	29	34.5	82	82	82	82	82	13	2000	2800
1.6	0.25	26	91	1.3	57.48	IE4	**BG10-../S4E06MA4**	2.6	8.6	17	26	31	91	91	91	91	91	13	2000	2800
1.6	0.25	23.5	101	1.2	63.69	IE4	**BG10-../S4E06MA4**	2.3	7.8	15.5	23.5	28	101	101	101	101	101	13	2000	2800
1.6	0.25	22.5	105	1.1	66	IE4	**BG10-../S4E06MA4**	2.2	7.5	15	22.5	27	105	105	105	105	105	13	2000	2800
1.6	0.25	20.5	117	1	73.13	IE4	**BG10-../S4E06MA4**	2	6.8	13.5	20.5	24.5	117	117	117	117	117	13	2000	2800
1.6	0.25	22	108	0.95	67.54	IE4	**BG10Z-../S4E06MA4**	2.2	7.4	14.5	22	26.5	108	108	108	108	108	14	2000	2800
1.6	0.25	19	123	0.97	77.4	IE4	**BG10Z-../S4E06MA4**	1.9	6.4	12.5	19	23	123	123	123	123	123	14	2000	2800
1.6	0.25	17	137	0.87	85.76	IE4	**BG10Z-../S4E06MA4**	1.7	5.8	11.5	17	20.5	137	137	137	137	137	14	2000	2800
1.6	0.25	16	147	0.81	92.19	IE4	**BG10Z-../S4E06MA4**	1.6	5.4	10.5	16	19.5	147	147	147	147	147	14	2000	2800
1.6	0.25	43.5	54	2.7	34.2	IE4	**BG15-../S4E06MA4**	4.3	14.5	29	43.5	52	54	54	54	54	54	13	3000	6000
1.6	0.25	39.5	60	2.5	37.9	IE4	**BG15-../S4E06MA4**	3.9	13	26	39.5	47	60	60	60	60	60	13	3000	6000
1.6	0.25	35.5	66	3	41.76	IE4	**BG20-../S4E06MA4**	3.5	11.5	23.5	35.5	43	66	66	66	66	66	16	4500	-
1.6	0.25	32	74	2.7	46.38	IE4	**BG20-../S4E06MA4**	3.2	10.5	21.5	32	38.5	74	74	74	74	74	16	4700	-
1.6	0.25	31	76	2.6	47.92	IE4	**BG20-../S4E06MA4**	3.1	10	20.5	31	37.5	76	76	76	76	76	16	4750	-
1.6	0.25	28	85	2.3	53.22	IE4	**BG20-../S4E06MA4**	2.8	9.3	18.5	28	33.5	85	85	85	85	85	16	4950	-
1.6	0.25	25	94	2.1	59.07	IE4	**BG20-../S4E06MA4**	2.5	8.4	16.5	25	30	94	94	94	94	94	16	5000	-
1.6	0.25	22.5	104	1.9	65.62	IE4	**BG20-../S4E06MA4**	2.2	7.6	15	22.5	27	104	104	104	104	104	16	5000	-
1.6	0.25	25.5	93	1.8	58.58	IE4	**BG20Z-../S4E06MA4**	2.5	8.5	17	25.5	30.5	93	93	93	93	93	16	5000	-
1.6	0.25	22	108	1.9	67.53	IE4	**BG20Z-../S4E06MA4**	2.2	7.4	14.5	22	26.5	108	108	108	108	108	16	5000	-
1.6	0.25	20	120	1.7	75	IE4	**BG20Z-../S4E06MA4**	2	6.6	13	20	24	120	120	120	120	120	16	5000	-
1.6	0.25	19	125	1.6	78.6	IE4	**BG20Z-../S4E06MA4**	1.9	6.3	12.5	19	22.5	125	125	125	125	125	16	5000	-
1.6	0.25	17	139	1.4	87.3	IE4	**BG20Z-../S4E06MA4**	1.7	5.7	11	17	20.5	139	139	139	139	139	16	5000	-
1.6	0.25	15.5	150	1.3	94.27	IE4	**BG20Z-../S4E06MA4**	1.5	5.3	10.5	15.5	19	150	150	150	150	150	16	5000	-
1.6	0.25	14	167	1.2	104.7	IE4	**BG20Z-../S4E06MA4**	1.4	4.7	9.5	14	17	167	167	167	167	167	16	5000	-
1.6	0.25	13	180	1.1	112.8	IE4	**BG20Z-../S4E06MA4**	1.3	4.4	8.8	13	15.5	180	180	180	180	180	16	5000	-
1.6	0.25	11.5	200	1	125.3	IE4	**BG20Z-../S4E06MA4**	1.1	3.9	7.9	11.5	14	200	200	200	200	200	16	5000	-
1.6	0.25	10.5	225	0.88	141.3	IE4	**BG20Z-../S4E06MA4**	1	3.5	7	10.5	12.5	225	225	225	225	225	16	5000	-
1.6	0.25	9.5	250	0.8	157	IE4	**BG20Z-../S4E06MA4**	0.95	3.1	6.3	9.5	11	250	250	250	250	250	16	5000	-
1.6	0.25	22	107	2.8	67.44	IE4	**BG30-../S4E06MA4**	2.2	7.4	14.5	22	26.5	107	107	107	107	107	20	6000	-
1.6	0.25	22.5	105	2.5	65.79	IE4	**BG30Z-../S4E06MA4**	2.2	7.5	15	22.5	27	105	105	105	105	105	22	6000	-
1.6	0.25	20	117	2.6	73.51	IE4	**BG30Z-../S4E06MA4**	2	6.8	13.5	20	24	117	117	117	117	117	22	6000	-
1.6	0.25	18	130	2.3	81.55	IE4	**BG30Z-../S4E06MA4**	1.8	6.1	12	18	22	130	130	130	130	130	22	6000	-
1.6	0.25	17	137	2.2	86.13	IE4	**BG30Z-../S4E06MA4**	1.7	5.8	11.5	17	20.5	137	137	137	137	137	22	6000	-
1.6	0.25	15.5	152	2	95.55	IE4	**BG30Z-../S4E06MA4**	1.5	5.2	10	15.5	18.5	152	152	152	152	152	22	6000	-
1.6	0.25	13.5	175	1.7	109.6	IE4	**BG30Z-../S4E06MA4**	1.3	4.5	9.1	13.5	16	175	175	175	175	175	22	6000	-
1.6	0.25	12	194	1.5	121.6	IE4	**BG30Z-../S4E06MA4**	1.2	4.1	8.2	12	14.5	194	194	194	194	194	22	6000	-
1.6	0.25	11.5	205	1.5	128.5	IE4	**BG30Z-../S4E06MA4**	1.1	3.8	7.7	11.5	14	205	205	205	205	205	22	6000	-
1.6	0.25	10.5	225	1.3	142.5	IE4	**BG30Z-../S4E06MA4**	1	3.5	7	10.5	12.5	225	225	225	225	225	22	6000	-
1.6	0.25	9.9	240	1.2	151.5	IE4	**BG30Z-../S4E06MA4**	0.95	3.3	6.6	9.9	11.5	240	240	240	240	240	22	6000	-
1.6	0.25	8.9	265	1.1	168.1	IE4	**BG30Z-../S4E06MA4**	0.85	2.9	5.9	8.9	10.5	265	265	265	265	265	22	6000	-
1.6	0.25	8.2	290	1	182.9	IE4	**BG30Z-../S4E06MA4**	0.8	2.7	5.4	8.2	9.8	290	290	290	290	290	22	6000	-
1.6	0.25	7.3	320	0.92	202.9	IE4	**BG30Z-../S4E06MA4**	0.7	2.4	4.9	7.3	8.8	320	320	320	320	320	22	6000	-
1.6	0.25	6.6	360	0.83	225.9	IE4	**BG30Z-../S4E06MA4**	0.65	2.2	4.4	6.6	7.9	360	360	360	360	360	22	6000	-
1.6	0.25	5.8	405	0.8	254.9	IE4	**BG30G06-../S4E06MA4**	0.55	1.9	3.9	5.8	7	405	405	405	405	405	25	6000	-
1.6	0.25	16	145	2.9	91.02	IE4	**BG40Z-../S4E06MA4**	1.6	5.4	10.5	16	19.5	145	145	145	145	145	38	7000	-
1.6	0.25	15	154	2.7	96.86	IE4	**BG40Z-../S4E06MA4**	1.5	5.1	10	15	18.5	154	154	154	154	154	38	7000	-
1.6	0.25	13.5	172	2.5	107.5	IE4	**BG40Z-../S4E06MA4**	1.3	4.6	9.3	13.5	16.5	172	172	172	172	172	38	7000	-
1.6	0.25	12	194	2.2	121.3	IE4	**BG40Z-../S4E06MA4**	1.2	4.1	8.2	12	14.5	194	194	194	194	194	38	7000	-
1.6	0.25	11	215	2	134.6	IE4	**BG40Z-../S4E06MA4**	1.1	3.7	7.4	11	13	215	215	215	215	215	38	7000	-
1.6	0.25	10.5	225	1.9	141.4	IE4	**BG40Z-../S4E06MA4**	1	3.5	7	10.5	12.5	225	225	225	225	225	38	7000	-
1.6	0.25	9.5	250	1.7	156.9	IE4	**BG40Z-../S4E06MA4**	0.95	3.1	6.3	9.5	11	250	250	250	250	250	38	7000	-
1.6	0.25	9	265	1.6	166.1	IE4	**BG40Z-../S4E06MA4**	0.9	3	6	9	10.5	265	265	265	265	265	38	7000	-
1.6	0.25	8.1	295	1.4	184.4	IE4	**BG40Z-../S4E06MA4**	0.8	2.7	5.4	8.1	9.7	295	295	295	295	295	38	7000	-
1.6	0.25	7.5	315	1.3	199.9	IE4	**BG40Z-../S4E06MA4**	0.75	2.5	5	7.5	9	315	315	315	315	315	38	7000	-
1.6	0.25	6.7	355	1.2	221.9	IE4	**BG40Z-../S4E06MA4**	0.65	2.2	4.5	6.7	8.1	355	355	355	355	355	38	7000	-
1.6	0.25	6	390	1.1	246.5	IE4	**BG40Z-../S4E06MA4**	0.6	2	4	6	7.3	390	390	390	390	390	38	7000	-
1.6	0.25	5.4	435	0.97	273.6	IE4	**BG40Z-../S4E06MA4**	0.5	1.8	3.6	5.4	6.5	435	435	435	435	435	38	7000	-
1.6	0.25	5.1	460	1	288.6	IE4	**BG40G10-../S4E06MA4**	0.5	1.7	3.4	5.1	6.2	460	460	460	460	460	43	7000	-
1.6	0.25	4.2	560	0.82	353.5	IE4	**BG40G10-../S4E06MA4**	0.42	1.4	2.8	4.2	5	560	560	560	560	560	43	7000	-
1.6	0.25	10	225	2.8	142.9	IE4	**BG50Z-../S4E06MA4**	1	3.4	6.9	10	12.5	225	225	225	225	225	47	10000	-
1.6	0.25	9	260	2.4	164.9	IE4	**BG50Z-../S4E06MA4**	0.9	3	6	9	10.5	260	260	260	260	260	47	10000	-
1.6	0.25	8.2	290	2.2	182.8	IE4	**BG50Z-../S4E06MA4**	0.8	2.7	5.4	8.2	9.8	290	290	290	290	290	47	10000	-
1.6	0.25	7.3	325	1.9	204.7	IE4	**BG50Z-../S4E06MA4**	0.7	2.4	4.8	7.3	8.7	325	325	325	325	325	47	10000	-
1.6	0.25	6.6	360	1.7	226.9	IE4	**BG50Z-../S4E06MA4**	0.65	2.2	4.4	6.6	7.9	360	360	360	360	360	47	10000	-
1.6	0.25	5.8	410	1.5	258.6	IE4	**BG50Z-../S4E06MA4**	0.55	1.9	3.8	5.8	6.9	410	410	410	410	410	47	10000	-

MN = 1.6 Nm (PN = 0.25 kW)



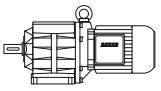
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
1.6	0.25	5.2	455	1.4	286.7	IE4	**BG50Z-../S4E06MA4**	0.5	1.7	3.4	5.2	6.2	455	455	455	455	455	47	10000	-
1.6	0.25	5.2	455	1.5	287.1	IE4	**BG50G10-../S4E06MA4**	0.5	1.7	3.4	5.2	6.2	455	455	455	455	455	51	10000	-
1.6	0.25	4.2	560	1.2	351.7	IE4	**BG50G10-../S4E06MA4**	0.42	1.4	2.8	4.2	5.1	560	560	560	560	560	51	10000	-
1.6	0.25	3.3	710	0.97	446.5	IE4	**BG50G10-../S4E06MA4**	0.33	1.1	2.2	3.3	4	710	710	710	710	710	51	10000	-
1.6	0.25	2.8	850	0.81	531.5	IE4	**BG50G10-../S4E06MA4**	0.28	0.9	1.8	2.8	3.3	850	850	850	850	850	51	10000	-
1.6	0.25	5.4	440	2.9	276.2	IE4	**BG60G20-../S4E06MA4**	0.5	1.8	3.6	5.4	6.5	440	440	440	440	440	100	16000	-
1.6	0.25	4.9	485	2.7	306.1	IE4	**BG60G20-../S4E06MA4**	0.49	1.6	3.2	4.9	5.8	485	485	485	485	485	100	16000	-
1.6	0.25	4.4	530	2.4	334.3	IE4	**BG60G20-../S4E06MA4**	0.44	1.4	2.9	4.4	5.3	530	530	530	530	530	100	16000	-
1.6	0.25	4	590	2.2	370.5	IE4	**BG60G20-../S4E06MA4**	0.4	1.3	2.6	4	4.8	590	590	590	590	590	100	16000	-
1.6	0.25	3.4	690	1.9	437.3	IE4	**BG60G20-../S4E06MA4**	0.34	1.1	2.2	3.4	4.1	690	690	690	690	690	100	16000	-
1.6	0.25	2.9	800	1.6	504.9	IE4	**BG60G20-../S4E06MA4**	0.29	0.95	1.9	2.9	3.5	800	800	800	800	800	100	16000	-
1.6	0.25	2.6	890	1.5	559.5	IE4	**BG60G20-../S4E06MA4**	0.26	0.85	1.7	2.6	3.2	890	890	890	890	890	100	16000	-
1.6	0.25	2.3	1040	1.2	651.3	IE4	**BG60G20-../S4E06MA4**	0.23	0.75	1.5	2.3	2.7	1040	1040	1040	1040	1040	100	16000	-
1.6	0.25	1.8	1280	1	804.5	IE4	**BG60G20-../S4E06MA4**	0.18	0.6	1.2	1.8	2.2	1280	1280	1280	1280	1280	100	16000	-
1.6	0.25	1.6	1420	0.91	891.5	IE4	**BG60G20-../S4E06MA4**	0.16	0.55	1.1	1.6	2	1420	1420	1420	1420	1420	100	16000	-
1.6	0.25	2.5	920	2.7	577.3	IE4	**BG70G20-../S4E06MA4**	0.25	0.85	1.7	2.5	3.1	920	920	920	920	920	130	20000	-
1.6	0.25	2.2	1060	2.3	665.8	IE4	**BG70G20-../S4E06MA4**	0.22	0.75	1.5	2.2	2.7	1060	1060	1060	1060	1060	130	20000	-
1.6	0.25	1.8	1260	2	790.2	IE4	**BG70G20-../S4E06MA4**	0.18	0.6	1.2	1.8	2.2	1260	1260	1260	1260	1260	130	20000	-
1.6	0.25	1.7	1400	1.8	877.6	IE4	**BG70G20-../S4E06MA4**	0.17	0.55	1.1	1.7	2	1400	1400	1400	1400	1400	130	20000	-
1.6	0.25	1.4	1650	1.5	1035	IE4	**BG70G20-../S4E06MA4**	0.14	0.48	0.95	1.4	1.7	1650	1650	1650	1650	1650	130	20000	-
1.6	0.25	1.2	1900	1.3	1193	IE4	**BG70G20-../S4E06MA4**	0.12	0.41	0.8	1.2	1.5	1900	1900	1900	1900	1900	130	20000	-
1.6	0.25	1	2200	1.1	1389	IE4	**BG70G20-../S4E06MA4**	0.1	0.35	0.7	1	1.2	2200	2200	2200	2200	2200	130	20000	-
1.6	0.25	0.95	2450	1	1543	IE4	**BG70G20-../S4E06MA4**	0.095	0.32	0.6	0.95	1.1	2450	2450	2450	2450	2450	130	20000	-
1.6	0.25	0.9	2650	0.94	1666	IE4	**BG70G20-../S4E06MA4**	0.09	0.3	0.6	0.9	1	2650	2650	2650	2650	2650	130	20000	-

MN = 2.4 Nm (PN = 0.37 kW)



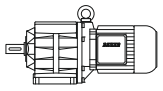
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
2.4	0.37	560	6.3	1.4	2.64	IE4	**BG05-../S4E06LA4**	56	189	375	560	680	6.3	6.3	6.3	6.3	6.3	8.5	420	-
2.4	0.37	560	6.3	1.4	2.64	IE1	**BG05-../SSE06MA4**	56	189	375	560	680	4.75	5.2	5.8	6.3	6.3	8.5	420	-
2.4	0.37	440	8.1	1.2	3.38	IE4	**BG05-../S4E06LA4**	44	147	295	440	530	8.1	8.1	8.1	8.1	8.1	8.5	460	-
2.4	0.37	440	8.1	1.2	3.38	IE1	**BG05-../SSE06MA4**	44	147	295	440	530	6	6.7	7.4	8.1	8.1	8.5	460	-
2.4	0.37	325	11	1.1	4.59	IE4	**BG05-../S4E06LA4**	32.5	108	215	325	390	11	11	11	11	11	8.5	490	-
2.4	0.37	325	11	1.1	4.59	IE1	**BG05-../SSE06MA4**	32.5	108	215	325	390	8.2	9.1	10	11	11	8.5	490	-
2.4	0.37	270	13.1	1.1	5.46	IE1	**BG05-../SSE06MA4**	27	91	183	270	325	9.8	10.9	12	13.1	13.1	8.5	490	-
2.4	0.37	270	13.1	1.1	5.46	IE4	**BG05-../S4E06LA4**	27	91	183	270	325	13.1	13.1	13.1	13.1	13.1	8.5	490	-
2.4	0.37	245	14.6	1.2	6.09	IE4	**BG05-../S4E06LA4**	24.5	82	164	245	295	14.6	14.6	14.6	14.6	14.6	8.5	480	-
2.4	0.37	245	14.6	1.2	6.09	IE1	**BG05-../SSE06MA4**	24.5	82	164	245	295	10.9	12.1	13.3	14.6	14.6	8.5	480	-
2.4	0.37	225	15.8	1	6.6	IE4	**BG05-../S4E06LA4**	22.5	75	151	225	270	15.8	15.8	15.8	15.8	15.8	8.5	510	-
2.4	0.37	225	15.9	1.1	6.64	IE1	**BG05-../SSE06MA4**	22.5	75	150	225	270	11.9	13.2	14.6	15.9	15.9	8.5	500	-
2.4	0.37	225	15.9	1.1	6.64	IE4	**BG05-../S4E06LA4**	22.5	75	150	225	270	15.9	15.9	15.9	15.9	15.9	8.5	500	-
2.4	0.37	225	15.8	1	6.6	IE1	**BG05-../SSE06MA4**	22.5	75	151	225	270	11.8	13.1	14.5	15.8	15.8	8.5	510	-
2.4	0.37	192	18.7	0.96	7.8	IE4	**BG05-../S4E06LA4**	19	64	128	192	230	18.7	18.7	18.7	18.7	18.7	8.5	530	-
2.4	0.37	192	18.7	0.96	7.8	IE1	**BG05-../SSE06MA4**	19	64	128	192	230	14	15.6	17.1	18.7	18.7	8.5	530	-
2.4	0.37	184	19.5	0.92	8.15	IE4	**BG05-../S4E06LA4**	18	61	122	184	220	19.5	19.5	19.5	19.5	19.5	8.5	510	-
2.4	0.37	184	19.5	0.92	8.15	IE1	**BG05-../SSE06MA4**	18	61	122	184	220	14.6	16.3	17.9	19.5	19.5	8.5	510	-
2.4	0.37	176	20	0.93	8.51	IE4	**BG05-../S4E06LA4**	17.5	58	117	176	210	20	20	20	20	20	8.5	550	-
2.4	0.37	176	20	0.93	8.51	IE1	**BG05-../SSE06MA4**	17.5	58	117	176	210	15.3	17	18.7	20	20	8.5	550	-
2.4	0.37	395	9	2.2	3.78	IE4	**BG06-../S4E06LA4**	39.5	132	260	395	475	9	9	9	9	9	9.5	520	-
2.4	0.37	395	9	2.2	3.78	IE1	**BG06-../SSE06MA4**	39.5	132	260	395	475	6.8	7.5	8.3	9	9	9.5	520	-
2.4	0.37	330	10.8	2	4.54	IE1	**BG06-../SSE06MA4**	33	110	220	330	395	8.1	9	9.9	10.8	10.8	9.5	530	-
2.4	0.37	330	10.8	2	4.54	IE4	**BG06-../S4E06LA4**	33	110	220	330	395	10.8	10.8	10.8	10.8	10.8	9.5	530	-
2.4	0.37	250	14.3	1.7	5.96	IE1	**BG06-../SSE06MA4**	25	83	167	250	300	10.7	11.9	13.1	14.3	14.3	9.5	570	-
2.4	0.37	250	14.3	1.7	5.96	IE4	**BG06-../S4E06LA4**	25	83	167	250	300	14.3	14.3	14.3	14.3	14.3	9.5	570	-
2.4	0.37	210	16.8	1.5	7.01	IE1	**BG06-../SSE06MA4**	21	71	142	210	255	12.6	14	15.4	16.8	16.8	9.5	580	-
2.4	0.37	210	16.8	1.5	7.01	IE4	**BG06-../S4E06LA4**	21	71	142	210	255	16.8	16.8	16.8	16.8	16.8	9.5	580	-
2.4	0.37	178	20	1.4	8.39	IE4	**BG06-../S4E06LA4**	17.5	59	119	178	210	20	20	20	20	20	9.5	600	-
2.4	0.37	178	20	1.4	8.39	IE1	**BG06-../SSE06MA4**	17.5	59	119	178	210	15.1	16.7	18.4	20	20	9.5	600	-
2.4	0.37	159	22.5	1.3	9.38	IE1	**BG06-../SSE06MA4**	15.5	53	106	159	191	16.8	18.7	20.5	22.5	22.5	9.5	640	-
2.4	0.37	159	22.5	1.3	9.38	IE4	**BG06-../S4E06LA4**	15.5	53	106	159	191	22.5	22.5	22.5	22.5	22.5	9.5	640	-
2.4	0.37	146	24.5	1.3	10.24	IE1	**BG06-../SSE06MA4**	14.5	48.5	97	146	175	18.4	20	22.5	24.5	24.5	9.5	640	-
2.4	0.37	146	24.5	1.3	10.24	IE4	**BG06-../S4E06LA4**	14.5	48.5	97	146	175	24.5	24.5	24.5	24.5	24.5	9.5	640	-
2.4	0.37	132	27	1.2	11.28	IE4	**BG06-../S4E06LA4**	13	44	88	132	159	27	27	27	27	27	9.5	670	-
2.4	0.37	132	27	1.2	11.28	IE1	**BG06-../SSE06MA4**	13	44	88	132	159	20	22.5	24.5	27	27	9.5	670	-
2.4	0.37	121	29.5	1.1	12.3	IE4	**BG06-../S4E06LA4**	12	40.5	81	121	146	29.5	29.5	29.5	29.5	29.5	9.5	670	-
2.4	0.37	121	29.5	1.1	12.3	IE1	**BG06-../SSE06MA4**	12	40.5	81	121	146	22	24.5	27	29.5	29.5	9.5	670	-
2.4	0.37	115	31	1.1	12.98	IE4	**BG06-../S4E06LA4**	11.5	38.5	77	115	138	31	31	31	31	31	9.5	600	-
2.4	0.37	115	31	1.1	12.98	IE1	**BG06-../SSE06MA4**	11.5	38.5	77	115	138	23	25.5	28.5	31	31	9.5	600	-
2.4	0.37	101	35	0.96	14.78	IE4	**BG06-../S4E06LA4**	10	33.5	67	101	121	35	35	35	35	35	9.5	730	-
2.4	0.37	101	35	0.96	14.78	IE1	**BG06-../SSE06MA4**	10	33.5	67	101	121	26.5	29.5	32.5	35	35	9.5	730	-
2.4	0.37	92	38.5	0.9	16.13	IE1	**BG06-../SSE06MA4**	9.2	30.5	61	92	111	29	32	35	38.5	38.5	9.5	740	-
2.4	0.37	92	38.5	0.9	16.13	IE4	**BG06-../S4E06LA4**	9.2	30.5	61	92	111	38.5	38.5	38.5	38.5	38.5	9.5	740	-

MN = 2.4 Nm (PN = 0.37 kW)



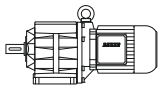
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
2.4	0.37	86	41.5	0.91	17.4	IE4	**BG06-../S4E06LA4**	8.6	28.5	57	86	103	41.5	41.5	41.5	41.5	41.5	9.5	760	-
2.4	0.37	86	41.5	0.91	17.4	IE1	**BG06-../SSE06MA4**	8.6	28.5	57	86	103	31	34.5	38	41.5	41.5	9.5	760	-
2.4	0.37	79	45.5	0.88	18.98	IE4	**BG06-../S4E06LA4**	7.9	26	52	79	94	45.5	45.5	45.5	45.5	45.5	9.5	770	-
2.4	0.37	79	45.5	0.88	18.98	IE1	**BG06-../SSE06MA4**	7.9	26	52	79	94	34	37.5	41.5	45.5	45.5	9.5	770	-
2.4	0.37	72	49.5	0.8	20.82	IE1	**BG06-../SSE06MA4**	7.2	24	48	72	86	37	41.5	45.5	49.5	49.5	9.5	800	-
2.4	0.37	72	49.5	0.8	20.82	IE4	**BG06-../S4E06LA4**	7.2	24	48	72	86	49.5	49.5	49.5	49.5	49.5	9.5	800	-
2.4	0.37	92	38.5	3	16.15	IE4	**BG10-../S4E06LA4**	9.2	30.5	61	92	111	38.5	38.5	38.5	38.5	38.5	13	1140	1590
2.4	0.37	92	38.5	3	16.15	IE1	**BG10-../SSE06MA4**	9.2	30.5	61	92	111	29	32	35.5	38.5	38.5	13	1140	1590
2.4	0.37	81	44	2.7	18.51	IE4	**BG10-../S4E06LA4**	8.1	27	54	81	97	44	44	44	44	44	13	1210	1690
2.4	0.37	81	44	2.7	18.51	IE1	**BG10-../SSE06MA4**	8.1	27	54	81	97	33	37	40.5	44	44	13	1210	1690
2.4	0.37	73	49	2.4	20.51	IE1	**BG10-../SSE06MA4**	7.3	24	48.5	73	87	36.5	41	45	49	49	13	1290	1800
2.4	0.37	73	49	2.4	20.51	IE4	**BG10-../S4E06LA4**	7.3	24	48.5	73	87	49	49	49	49	49	13	1290	1800
2.4	0.37	68	52	2.3	22.04	IE1	**BG10-../SSE06MA4**	6.8	22.5	45	68	81	39.5	44	48	52	52	13	1330	1860
2.4	0.37	68	52	2.3	22.04	IE4	**BG10-../S4E06LA4**	6.8	22.5	45	68	81	52	52	52	52	52	13	1330	1860
2.4	0.37	61	58	2	24.42	IE1	**BG10-../SSE06MA4**	6.1	20	40.5	61	73	43.5	48.5	53	58	58	13	1410	1970
2.4	0.37	61	58	2	24.42	IE4	**BG10-../S4E06LA4**	6.1	20	40.5	61	73	58	58	58	58	58	13	1410	1970
2.4	0.37	57	63	1.9	26.26	IE1	**BG10-../SSE06MA4**	5.7	19	38	57	68	47	52	57	63	63	13	1460	2000
2.4	0.37	57	63	1.9	26.26	IE4	**BG10-../S4E06LA4**	5.7	19	38	57	68	63	63	63	63	63	13	1460	2000
2.4	0.37	51	69	1.7	29.09	IE1	**BG10-../SSE06MA4**	5.1	17	34	51	61	52	58	63	69	69	13	1540	2150
2.4	0.37	51	69	1.7	29.09	IE4	**BG10-../S4E06LA4**	5.1	17	34	51	61	69	69	69	69	69	13	1540	2150
2.4	0.37	47.5	75	1.6	31.52	IE4	**BG10-../S4E06LA4**	4.7	15.5	31.5	47.5	57	75	75	75	75	75	13	1600	2200
2.4	0.37	47.5	75	1.6	31.52	IE1	**BG10-../SSE06MA4**	4.7	15.5	31.5	47.5	57	56	63	69	75	75	13	1600	2200
2.4	0.37	42.5	83	1.4	34.92	IE4	**BG10-../S4E06LA4**	4.2	14	28.5	42.5	51	83	83	83	83	83	13	1690	2350
2.4	0.37	42.5	83	1.4	34.92	IE1	**BG10-../SSE06MA4**	4.2	14	28.5	42.5	51	62	69	76	83	83	13	1690	2350
2.4	0.37	37.5	95	1.3	39.7	IE1	**BG10-../SSE06MA4**	3.7	12.5	25	37.5	45	71	79	87	95	95	13	1780	2450
2.4	0.37	37.5	95	1.3	39.7	IE4	**BG10-../S4E06LA4**	3.7	12.5	25	37.5	45	95	95	95	95	95	13	1780	2450
2.4	0.37	34	105	1.1	43.99	IE1	**BG10-../SSE06MA4**	3.4	11	22.5	34	40.5	79	87	96	105	105	13	1880	2600
2.4	0.37	34	105	1.1	43.99	IE4	**BG10-../S4E06LA4**	3.4	11	22.5	34	40.5	105	105	105	105	105	13	1880	2600
2.4	0.37	32	111	1.1	46.55	IE4	**BG10-../S4E06LA4**	3.2	10.5	21	32	38.5	111	111	111	111	111	13	1920	2650
2.4	0.37	32	111	1.1	46.55	IE1	**BG10-../SSE06MA4**	3.2	10.5	21	32	38.5	83	93	102	111	111	13	1920	2650
2.4	0.37	29	123	0.97	51.57	IE4	**BG10-../S4E06LA4**	2.9	9.6	19	29	34.5	123	123	123	123	123	13	2000	2800
2.4	0.37	29	123	0.97	51.57	IE1	**BG10-../SSE06MA4**	2.9	9.6	19	29	34.5	92	103	113	123	123	13	2000	2800
2.4	0.37	26	137	0.87	57.48	IE4	**BG10-../S4E06LA4**	2.6	8.6	17	26	31	137	137	137	137	137	13	2000	2800
2.4	0.37	26	137	0.87	57.48	IE1	**BG10-../SSE06MA4**	2.6	8.6	17	26	31	103	114	126	137	137	13	2000	2800
2.4	0.37	55	64	2.3	27.08	IE1	**BG15-../SSE06MA4**	5.5	18	36.5	55	66	48.5	54	59	64	64	13	3000	6000
2.4	0.37	55	64	2.3	27.08	IE4	**BG15-../S4E06LA4**	5.5	18	36.5	55	66	64	64	64	64	64	13	3000	6000
2.4	0.37	49.5	72	2.1	30.08	IE4	**BG15-../S4E06LA4**	4.9	16.5	33	49.5	59	72	72	72	72	72	13	3000	6000
2.4	0.37	49.5	72	2.1	30.08	IE1	**BG15-../SSE06MA4**	4.9	16.5	33	49.5	59	54	60	66	72	72	13	3000	6000
2.4	0.37	43.5	82	1.8	34.2	IE1	**BG15-../SSE06MA4**	4.3	14.5	29	43.5	52	61	68	75	82	82	13	3000	6000
2.4	0.37	43.5	82	1.8	34.2	IE4	**BG15-../S4E06LA4**	4.3	14.5	29	43.5	52	82	82	82	82	82	13	3000	6000
2.4	0.37	39.5	90	1.6	37.9	IE1	**BG15-../SSE06MA4**	3.9	13	26	39.5	47	68	75	83	90	90	13	3000	6000
2.4	0.37	39.5	90	1.6	37.9	IE4	**BG15-../S4E06LA4**	3.9	13	26	39.5	47	90	90	90	90	90	13	3000	6000
2.4	0.37	53	66	3	27.85	IE1	**BG20-../SSE06MA4**	5.3	17.5	35.5	53	64	50	55	61	66	66	16	3800	-
2.4	0.37	53	66	3	27.85	IE4	**BG20-../S4E06LA4**	5.3	17.5	35.5	53	64	66	66	66	66	66	16	3800	-
2.4	0.37	48	74	2.7	30.94	IE1	**BG20-../SSE06MA4**	4.8	16	32	48	58	55	61	68	74	74	16	4000	-
2.4	0.37	48	74	2.7	30.94	IE4	**BG20-../S4E06LA4**	4.8	16	32	48	58	74	74	74	74	74	16	4000	-
2.4	0.37	45	79	2.5	33.33	IE4	**BG20-../S4E06LA4**	4.5	15	30	45	54	79	79	79	79	79	16	4100	-
2.4	0.37	45	79	2.5	33.33	IE1	**BG20-../SSE06MA4**	4.5	15	30	45	54	59	66	73	79	79	16	4100	-
2.4	0.37	40.5	88	2.3	37.02	IE4	**BG20-../S4E06LA4**	4	13.5	27	40.5	48.5	88	88	88	88	88	16	4300	-
2.4	0.37	40.5	88	2.3	37.02	IE1	**BG20-../SSE06MA4**	4	13.5	27	40.5	48.5	66	74	81	88	88	16	4300	-
2.4	0.37	35.5	100	2	41.76	IE1	**BG20-../SSE06MA4**	3.5	11.5	23.5	35.5	43	75	83	91	100	100	16	4500	-
2.4	0.37	35.5	100	2	41.76	IE4	**BG20-../S4E06LA4**	3.5	11.5	23.5	35.5	43	100	100	100	100	100	16	4500	-
2.4	0.37	32	111	1.8	46.38	IE4	**BG20-../S4E06LA4**	3.2	10.5	21.5	32	38.5	111	111	111	111	111	16	4700	-
2.4	0.37	32	111	1.8	46.38	IE1	**BG20-../SSE06MA4**	3.2	10.5	21.5	32	38.5	83	92	102	111	111	16	4700	-
2.4	0.37	31	115	1.7	47.92	IE1	**BG20-../SSE06MA4**	3.1	10	20.5	31	37.5	86	95	105	115	115	16	4750	-
2.4	0.37	31	115	1.7	47.92	IE4	**BG20-../S4E06LA4**	3.1	10	20.5	31	37.5	115	115	115	115	115	16	4750	-
2.4	0.37	28	127	1.6	53.22	IE1	**BG20-../SSE06MA4**	2.8	9.3	18.5	28	33.5	95	106	117	127	127	16	4950	-
2.4	0.37	28	127	1.6	53.22	IE4	**BG20-../S4E06LA4**	2.8	9.3	18.5	28	33.5	127	127	127	127	127	16	4950	-
2.4	0.37	25	141	1.4	59.07	IE4	**BG20-../S4E06LA4**	2.5	8.4	16.5	25	30	141	141	141	141	141	16	5000	-
2.4	0.37	25	141	1.4	59.07	IE1	**BG20-../SSE06MA4**	2.5	8.4	16.5	25	30	106	118	129	141	141	16	5000	-
2.4	0.37	22.5	157	1.3	65.62	IE1	**BG20-../SSE06MA4**	2.2	7.6	15	22.5	27	118	131	144	157	157	16	5000	-
2.4	0.37	22.5	157	1.3	65.62	IE4	**BG20-../S4E06LA4**	2.2	7.6	15	22.5	27	157	157	157	157	157	16	5000	-
2.4	0.37	25.5	140	1.2	58.58	IE4	**BG20Z-../S4E06LA4**	2.5	8.5	17	25.5	30.5	140	140	140	140	140	16	5000	-
2.4	0.37	25.5	140	1.2	58.58	IE1	**BG20Z-../SSE06MA4**	2.5	8.5	17	25.5	30.5	105	117	128	140	140	16	5000	-
2.4	0.37	22	162	1.2	67.53	IE4	**BG20Z-../S4E06LA4**	2.2	7.4	14.5	22	26.5	162	162	162	162	162	16	5000	-
2.4	0.37	22	162	1.2	67.53	IE1	**BG20Z-../SSE06MA4**	2.2	7.4	14.5	22	26.5	121	135	148	162	162	16	5000	-
2.4	0.37	20	180	1.1	75	IE4	**BG20Z-../S4E06LA4**	2	6.6	13	20	24	180	180	180	180	180	16	5000	-
2.4	0.37	20	180	1.1	75	IE1	**BG20Z-../SSE06MA4**	2	6.6	13	20	24	135	150	165	180	180	16	5000	-
2.4	0.37	19	188	1.1	78.6	IE4	**BG20Z-../S4E06LA4**	1.9	6.3	12.5	19	22.5	188	188	188	188	188	16	5000	-
2.4	0.37	19	188	1.1	78.6	IE1	**BG20Z-../SSE06MA4**	1.9	6.3	12.5	19	22.5	141	157	172	188	188	16	5000	-
2.4	0.37	17	205	0.95	87.3	IE1	**BG20Z-../SSE06MA4**	1.7	5.7	11	17	20.5	157	174	192	205	205	16	5000	-
2.4	0.37	17	205	0.95	87.3	IE4	**BG20Z-../S4E06LA4**	1.7	5.7	11	17	20.5	205	205	205	205	205	16	5000	-
2.4	0.37	15.5	225	0.88	94.27	IE4	**BG20Z-../S4E06LA4**	1.5	5.3	10.5	15.5	19	225	225	225	225	225	16	5000	-
2.4	0.37	15.5	225	0.88	94.27	IE1	**BG20Z-../SSE06MA4**	1.5	5.3	10.5	15.5	19	169	188	205	225	225	16	5000	-
2.4	0.37	14	250	0.8	104.7	IE1	**BG20Z-../SSE06MA4**	1.4	4.7	9.5	14	17	188	205	230	250	250	16	5000	-
2.4	0.37	14	250	0.8	104.7	IE4	**BG20Z-../S4E06LA4**	1.4	4.7	9.5	14	17	250	250	250	250	250	16	5000	-
2.4	0.37	35	101	2.9	42.46	IE1	**BG30-../SSE06MA4**	3.5	11.5	23.5	35	42	76	84	93	101	101	20	5900	-
2.4	0.37	35	101	2.9	42.46	IE4	**BG30-../S4E06LA4**	3.5	11.5	23.5	35	42	101	101	101	101	101	20	5900	-

MN = 2.4 Nm (PN = 0.37 kW)



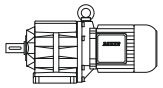
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
2.4	0.37	31.5	113	2.7	47.11	IE4	**BG30-../S4E06LA4**	3.1	10.5	21	31.5	38	113	113	113	113	113	20	6000	-
2.4	0.37	31.5	113	2.7	47.11	IE1	**BG30-../SSE06MA4**	3.1	10.5	21	31.5	38	84	94	103	113	113	20	6000	-
2.4	0.37	28.5	125	2.4	52.44	IE1	**BG30-../SSE06MA4**	2.8	9.5	19	28.5	34	94	104	115	125	125	20	6000	-
2.4	0.37	28.5	125	2.4	52.44	IE4	**BG30-../S4E06LA4**	2.8	9.5	19	28.5	34	125	125	125	125	125	20	6000	-
2.4	0.37	25.5	139	2.1	58.18	IE1	**BG30-../SSE06MA4**	2.5	8.5	17	25.5	30.5	104	116	127	139	139	20	6000	-
2.4	0.37	25.5	139	2.1	58.18	IE4	**BG30-../S4E06LA4**	2.5	8.5	17	25.5	30.5	139	139	139	139	139	20	6000	-
2.4	0.37	24.5	145	2.1	60.79	IE4	**BG30-../S4E06LA4**	2.4	8.2	16	24.5	29.5	145	145	145	145	145	20	6000	-
2.4	0.37	24.5	145	2.1	60.79	IE1	**BG30-../SSE06MA4**	2.4	8.2	16	24.5	29.5	109	121	133	145	145	20	6000	-
2.4	0.37	22	161	1.9	67.44	IE4	**BG30-../S4E06LA4**	2.2	7.4	14.5	22	26.5	161	161	161	161	161	20	6000	-
2.4	0.37	22	161	1.9	67.44	IE1	**BG30-../SSE06MA4**	2.2	7.4	14.5	22	26.5	121	134	148	161	161	20	6000	-
2.4	0.37	22.5	157	1.7	65.79	IE4	**BG30Z-../S4E06LA4**	2.2	7.5	15	22.5	27	157	157	157	157	157	22	6000	-
2.4	0.37	22.5	157	1.7	65.79	IE1	**BG30Z-../SSE06MA4**	2.2	7.5	15	22.5	27	118	131	144	157	157	22	6000	-
2.4	0.37	20	176	1.7	73.51	IE1	**BG30Z-../SSE06MA4**	2	6.8	13.5	20	24	132	147	161	176	176	22	6000	-
2.4	0.37	20	176	1.7	73.51	IE4	**BG30Z-../S4E06LA4**	2	6.8	13.5	20	24	176	176	176	176	176	22	6000	-
2.4	0.37	18	195	1.5	81.55	IE1	**BG30Z-../SSE06MA4**	1.8	6.1	12	18	22	146	163	179	195	195	22	6000	-
2.4	0.37	18	195	1.5	81.55	IE4	**BG30Z-../S4E06LA4**	1.8	6.1	12	18	22	195	195	195	195	195	22	6000	-
2.4	0.37	17	205	1.5	86.13	IE4	**BG30Z-../S4E06LA4**	1.7	5.8	11.5	17	20.5	205	205	205	205	205	22	6000	-
2.4	0.37	17	205	1.5	86.13	IE1	**BG30Z-../SSE06MA4**	1.7	5.8	11.5	17	20.5	155	172	189	205	205	22	6000	-
2.4	0.37	15.5	225	1.3	95.55	IE4	**BG30Z-../S4E06LA4**	1.5	5.2	10	15.5	18.5	225	225	225	225	225	22	6000	-
2.4	0.37	15.5	225	1.3	95.55	IE1	**BG30Z-../SSE06MA4**	1.5	5.2	10	15.5	18.5	171	191	210	225	225	22	6000	-
2.4	0.37	13.5	260	1.1	109.6	IE4	**BG30Z-../S4E06LA4**	1.3	4.5	9.1	13.5	16	260	260	260	260	260	22	6000	-
2.4	0.37	13.5	260	1.1	109.6	IE1	**BG30Z-../SSE06MA4**	1.3	4.5	9.1	13.5	16	197	215	240	260	260	22	6000	-
2.4	0.37	12	290	1	121.6	IE1	**BG30Z-../SSE06MA4**	1.2	4.1	8.2	12	14.5	215	240	265	290	290	22	6000	-
2.4	0.37	12	290	1	121.6	IE4	**BG30Z-../S4E06LA4**	1.2	4.1	8.2	12	14.5	290	290	290	290	290	22	6000	-
2.4	0.37	11.5	305	0.97	128.5	IE4	**BG30Z-../S4E06LA4**	1.1	3.8	7.7	11.5	14	305	305	305	305	305	22	6000	-
2.4	0.37	11.5	305	0.97	128.5	IE1	**BG30Z-../SSE06MA4**	1.1	3.8	7.7	11.5	14	230	255	280	305	305	22	6000	-
2.4	0.37	10.5	340	0.88	142.5	IE1	**BG30Z-../SSE06MA4**	1	3.5	7	10.5	12.5	255	285	310	340	340	22	6000	-
2.4	0.37	10.5	340	0.88	142.5	IE4	**BG30Z-../S4E06LA4**	1	3.5	7	10.5	12.5	340	340	340	340	340	22	6000	-
2.4	0.37	9.9	360	0.83	151.5	IE4	**BG30Z-../S4E06LA4**	0.95	3.3	6.6	9.9	11.5	360	360	360	360	360	22	6000	-
2.4	0.37	9.9	360	0.83	151.5	IE1	**BG30Z-../SSE06MA4**	0.95	3.3	6.6	9.9	11.5	270	300	330	360	360	22	6000	-
2.4	0.37	22	162	2.6	67.74	IE1	**BG40Z-../SSE06MA4**	2.2	7.3	14.5	22	26.5	121	135	149	162	162	38	7000	-
2.4	0.37	22	162	2.6	67.74	IE4	**BG40Z-../S4E06LA4**	2.2	7.3	14.5	22	26.5	162	162	162	162	162	38	7000	-
2.4	0.37	19.5	180	2.4	75.19	IE1	**BG40Z-../SSE06MA4**	1.9	6.6	13	19.5	23.5	135	150	165	180	180	38	7000	-
2.4	0.37	19.5	180	2.4	75.19	IE4	**BG40Z-../S4E06LA4**	1.9	6.6	13	19.5	23.5	180	180	180	180	180	38	7000	-
2.4	0.37	18	196	2.2	82	IE1	**BG40Z-../SSE06MA4**	1.8	6	12	18	21.5	147	164	180	196	196	38	7000	-
2.4	0.37	18	196	2.2	82	IE4	**BG40Z-../S4E06LA4**	1.8	6	12	18	21.5	196	196	196	196	196	38	7000	-
2.4	0.37	16	215	1.9	91.02	IE4	**BG40Z-../S4E06LA4**	1.6	5.4	10.5	16	19.5	215	215	215	215	215	38	7000	-
2.4	0.37	16	215	1.9	91.02	IE1	**BG40Z-../SSE06MA4**	1.6	5.4	10.5	16	19.5	163	182	200	215	215	38	7000	-
2.4	0.37	15	230	1.8	96.86	IE1	**BG40Z-../SSE06MA4**	1.5	5.1	10	15	18.5	174	193	210	230	230	38	7000	-
2.4	0.37	15	230	1.8	96.86	IE4	**BG40Z-../S4E06LA4**	1.5	5.1	10	15	18.5	230	230	230	230	230	38	7000	-
2.4	0.37	13.5	255	1.6	107.5	IE4	**BG40Z-../S4E06LA4**	1.3	4.6	9.3	13.5	16.5	255	255	255	255	255	38	7000	-
2.4	0.37	13.5	255	1.6	107.5	IE1	**BG40Z-../SSE06MA4**	1.3	4.6	9.3	13.5	16.5	193	215	235	255	255	38	7000	-
2.4	0.37	12	290	1.5	121.3	IE4	**BG40Z-../S4E06LA4**	1.2	4.1	8.2	12	14.5	290	290	290	290	290	38	7000	-
2.4	0.37	12	290	1.5	121.3	IE1	**BG40Z-../SSE06MA4**	1.2	4.1	8.2	12	14.5	215	240	265	290	290	38	7000	-
2.4	0.37	11	320	1.3	134.6	IE1	**BG40Z-../SSE06MA4**	1.1	3.7	7.4	11	13	240	265	295	320	320	38	7000	-
2.4	0.37	11	320	1.3	134.6	IE4	**BG40Z-../S4E06LA4**	1.1	3.7	7.4	11	13	320	320	320	320	320	38	7000	-
2.4	0.37	10.5	335	1.3	141.4	IE1	**BG40Z-../SSE06MA4**	1	3.5	7	10.5	12.5	250	280	310	335	335	38	7000	-
2.4	0.37	10.5	335	1.3	141.4	IE4	**BG40Z-../S4E06LA4**	1	3.5	7	10.5	12.5	335	335	335	335	335	38	7000	-
2.4	0.37	9.5	375	1.1	156.9	IE1	**BG40Z-../SSE06MA4**	0.95	3.1	6.3	9.5	11	280	310	345	375	375	38	7000	-
2.4	0.37	9.5	375	1.1	156.9	IE4	**BG40Z-../S4E06LA4**	0.95	3.1	6.3	9.5	11	375	375	375	375	375	38	7000	-
2.4	0.37	9	395	1.1	166.1	IE1	**BG40Z-../SSE06MA4**	0.9	3	6	9	10.5	295	330	365	395	395	38	7000	-
2.4	0.37	9	395	1.1	166.1	IE4	**BG40Z-../S4E06LA4**	0.9	3	6	9	10.5	395	395	395	395	395	38	7000	-
2.4	0.37	8.1	440	0.96	184.4	IE4	**BG40Z-../S4E06LA4**	0.8	2.7	5.4	8.1	9.7	440	440	440	440	440	38	7000	-
2.4	0.37	8.1	440	0.96	184.4	IE1	**BG40Z-../SSE06MA4**	0.8	2.7	5.4	8.1	9.7	330	365	405	440	440	38	7000	-
2.4	0.37	7.5	475	0.89	199.9	IE1	**BG40Z-../SSE06MA4**	0.75	2.5	5	7.5	9	355	395	435	475	475	38	7000	-
2.4	0.37	7.5	475	0.89	199.9	IE4	**BG40Z-../S4E06LA4**	0.75	2.5	5	7.5	9	475	475	475	475	475	38	7000	-
2.4	0.37	6.7	530	0.8	221.9	IE1	**BG40Z-../SSE06MA4**	0.65	2.2	4.5	6.7	8.1	395	440	485	530	530	38	7000	-
2.4	0.37	6.7	530	0.8	221.9	IE4	**BG40Z-../S4E06LA4**	0.65	2.2	4.5	6.7	8.1	530	530	530	530	530	38	7000	-
2.4	0.37	15.5	225	2.7	95.58	IE4	**BG50Z-../S4E06LA4**	1.5	5.2	10	15.5	18.5	225	225	225	225	225	47	10000	-
2.4	0.37	15.5	225	2.7	95.58	IE1	**BG50Z-../SSE06MA4**	1.5	5.2	10	15.5	18.5	172	191	210	225	225	47	10000	-
2.4	0.37	14	250	2.5	106	IE1	**BG50Z-../SSE06MA4**	1.4	4.7	9.4	14	16.5	190	210	230	250	250	47	10000	-
2.4	0.37	14	250	2.5	106	IE4	**BG50Z-../S4E06LA4**	1.4	4.7	9.4	14	16.5	250	250	250	250	250	47	10000	-
2.4	0.37	11.5	305	2	128.9	IE4	**BG50Z-../S4E06LA4**	1.1	3.8	7.7	11.5	13.5	305	305	305	305	305	47	10000	-
2.4	0.37	11.5	305	2	128.9	IE1	**BG50Z-../SSE06MA4**	1.1	3.8	7.7	11.5	13.5	230	255	280	305	305	47	10000	-
2.4	0.37	10	340	1.8	142.9	IE1	**BG50Z-../SSE06MA4**	1	3.4	6.9	10	12.5	255	285	310	340	340	47	10000	-
2.4	0.37	10	340	1.8	142.9	IE4	**BG50Z-../S4E06LA4**	1	3.4	6.9	10	12.5	340	340	340	340	340	47	10000	-
2.4	0.37	9	395	1.6	164.9	IE4	**BG50Z-../S4E06LA4**	0.9	3	6	9	10.5	395	395	395	395	395	47	10000	-
2.4	0.37	9	395	1.6	164.9	IE1	**BG50Z-../SSE06MA4**	0.9	3	6	9	10.5	295	325	360	395	395	47	10000	-
2.4	0.37	8.2	435	1.4	182.8	IE4	**BG50Z-../S4E06LA4**	0.8	2.7	5.4	8.2	9.8	435	435	435	435	435	47	10000	-
2.4	0.37	8.2	435	1.4	182.8	IE1	**BG50Z-../SSE06MA4**	0.8	2.7	5.4	8.2	9.8	325	365	400	435	435	47	10000	-
2.4	0.37	7.3	490	1.3	204.7	IE4	**BG50Z-../S4E06LA4**	0.7	2.4	4.8	7.3	8.7	490	490	490	490	490	47	10000	-
2.4	0.37	7.3	490	1.3	204.7	IE1	**BG50Z-../SSE06MA4**	0.7	2.4	4.8	7.3	8.7	365	405	450	490	490	47	10000	-
2.4	0.37	6.6	540	1.2	226.9	IE4	**BG50Z-../S4E06LA4**	0.65	2.2	4.4	6.6	7.9	540	540	540	540	540	47	10000	-
2.4	0.37	6.6	540	1.2	226.9	IE1	**BG50Z-../SSE06MA4**	0.65	2.2	4.4	6.6	7.9	405	450	495	540	540	47	10000	-
2.4	0.37	5.8	620	1	258.6	IE1	**BG50Z-../SSE06MA4**	0.55	1.9	3.8	5.8	6.9	465	510	560	620	620	47	10000	-
2.4	0.37	5.8	620	1	258.6	IE4	**BG50Z-../S4E06LA4**	0.55	1.9	3.8	5.8	6.9	620	620	620	620	620	47	10000	-
2.4	0.37	5.2	680	0.92	286.7	IE1	**BG50Z-../SSE06MA4**	0.5	1.7	3.4	5.2	6.2	510	570	630	680	680	47	10000	-
2.4	0.37	5.2	680	0.92	286.7	IE4	**BG50Z-../S4E06LA4**	0.5	1.7	3.4	5.2	6.2	680	680	680	680	680	47	10000	-
2.4	0.37	5.2	680	1	287.1	IE1	**BG50G10-../SSE06MA4**	0.5	1.7	3.4	5.2	6.2	510	570	630	680	680	51	10000	-
2.4	0.37	5.2	680	1	287.1	IE4	**BG50G10-../S4E06LA4**	0.5	1.7	3.4	5.2	6.2	680	680	680	680	680	51	10000	-

MN = 2.4 Nm (PN = 0.37 kW)



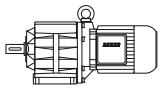
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
2.4	0.37	4.2	840	0.82	351.7	IE1	**BG50G10-../SSE06MA4**	0.42	1.4	2.8	4.2	5.1	630	700	770	840	840	51	10000	-
2.4	0.37	4.2	840	0.82	351.7	IE4	**BG50G10-../S4E06LA4**	0.42	1.4	2.8	4.2	5.1	840	840	840	840	840	51	10000	-
2.4	0.37	5.4	660	2	276.2	IE4	**BG60G20-../S4E06LA4**	0.5	1.8	3.6	5.4	6.5	660	660	660	660	660	100	16000	-
2.4	0.37	5.4	660	2	276.2	IE1	**BG60G20-../SSE06MA4**	0.5	1.8	3.6	5.4	6.5	495	550	600	660	660	100	16000	-
2.4	0.37	4.9	730	1.8	306.1	IE4	**BG60G20-../S4E06LA4**	0.49	1.6	3.2	4.9	5.8	730	730	730	730	730	100	16000	-
2.4	0.37	4.9	730	1.8	306.1	IE1	**BG60G20-../SSE06MA4**	0.49	1.6	3.2	4.9	5.8	550	610	670	730	730	100	16000	-
2.4	0.37	4.4	800	1.6	334.3	IE4	**BG60G20-../S4E06LA4**	0.44	1.4	2.9	4.4	5.3	800	800	800	800	800	100	16000	-
2.4	0.37	4.4	800	1.6	334.3	IE1	**BG60G20-../SSE06MA4**	0.44	1.4	2.9	4.4	5.3	600	660	730	800	800	100	16000	-
2.4	0.37	4	880	1.5	370.5	IE4	**BG60G20-../S4E06LA4**	0.4	1.3	2.6	4	4.8	880	880	880	880	880	100	16000	-
2.4	0.37	4	880	1.5	370.5	IE1	**BG60G20-../SSE06MA4**	0.4	1.3	2.6	4	4.8	660	740	810	880	880	100	16000	-
2.4	0.37	3.4	1040	1.2	437.3	IE4	**BG60G20-../S4E06LA4**	0.34	1.1	2.2	3.4	4.1	1040	1040	1040	1040	1040	100	16000	-
2.4	0.37	3.4	1040	1.2	437.3	IE1	**BG60G20-../SSE06MA4**	0.34	1.1	2.2	3.4	4.1	780	870	960	1040	1040	100	16000	-
2.4	0.37	2.9	1210	1.1	504.9	IE1	**BG60G20-../SSE06MA4**	0.29	0.95	1.9	2.9	3.5	900	1000	1110	1210	1210	100	16000	-
2.4	0.37	2.9	1210	1.1	504.9	IE4	**BG60G20-../S4E06LA4**	0.29	0.95	1.9	2.9	3.5	1210	1210	1210	1210	1210	100	16000	-
2.4	0.37	2.6	1340	0.97	559.5	IE4	**BG60G20-../S4E06LA4**	0.26	0.85	1.7	2.6	3.2	1340	1340	1340	1340	1340	100	16000	-
2.4	0.37	2.6	1340	0.97	559.5	IE1	**BG60G20-../SSE06MA4**	0.26	0.85	1.7	2.6	3.2	1000	1110	1230	1340	1340	100	16000	-
2.4	0.37	2.3	1560	0.83	651.3	IE1	**BG60G20-../SSE06MA4**	0.23	0.75	1.5	2.3	2.7	1170	1300	1430	1560	1560	100	16000	-
2.4	0.37	2.3	1560	0.83	651.3	IE4	**BG60G20-../S4E06LA4**	0.23	0.75	1.5	2.3	2.7	1560	1560	1560	1560	1560	100	16000	-
2.4	0.37	3.8	930	2.7	387.6	IE1	**BG70G20-../SSE06MA4**	0.38	1.2	2.5	3.8	4.6	690	770	850	930	930	130	20000	-
2.4	0.37	3.8	930	2.7	387.6	IE4	**BG70G20-../S4E06LA4**	0.38	1.2	2.5	3.8	4.6	930	930	930	930	930	130	20000	-
2.4	0.37	3.5	1000	2.5	417.8	IE4	**BG70G20-../S4E06LA4**	0.35	1.1	2.3	3.5	4.3	1000	1000	1000	1000	1000	130	20000	-
2.4	0.37	3.5	1000	2.5	417.8	IE1	**BG70G20-../SSE06MA4**	0.35	1.1	2.3	3.5	4.3	750	830	910	1000	1000	130	20000	-
2.4	0.37	3	1190	2.1	495.9	IE4	**BG70G20-../S4E06LA4**	0.3	1	2	3	3.6	1190	1190	1190	1190	1190	130	20000	-
2.4	0.37	3	1190	2.1	495.9	IE1	**BG70G20-../SSE06MA4**	0.3	1	2	3	3.6	890	990	1090	1190	1190	130	20000	-
2.4	0.37	2.5	1380	1.8	577.3	IE1	**BG70G20-../SSE06MA4**	0.25	0.85	1.7	2.5	3.1	1030	1150	1270	1380	1380	130	20000	-
2.4	0.37	2.5	1380	1.8	577.3	IE4	**BG70G20-../S4E06LA4**	0.25	0.85	1.7	2.5	3.1	1380	1380	1380	1380	1380	130	20000	-
2.4	0.37	2.2	1590	1.6	665.8	IE4	**BG70G20-../S4E06LA4**	0.22	0.75	1.5	2.2	2.7	1590	1590	1590	1590	1590	130	20000	-
2.4	0.37	2.2	1590	1.6	665.8	IE1	**BG70G20-../SSE06MA4**	0.22	0.75	1.5	2.2	2.7	1190	1330	1460	1590	1590	130	20000	-
2.4	0.37	1.8	1890	1.3	790.2	IE1	**BG70G20-../SSE06MA4**	0.18	0.6	1.2	1.8	2.2	1420	1580	1730	1890	1890	130	20000	-
2.4	0.37	1.8	1890	1.3	790.2	IE4	**BG70G20-../S4E06LA4**	0.18	0.6	1.2	1.8	2.2	1890	1890	1890	1890	1890	130	20000	-
2.4	0.37	1.7	2100	1.2	877.6	IE4	**BG70G20-../S4E06LA4**	0.17	0.55	1.1	1.7	2	2100	2100	2100	2100	2100	130	20000	-
2.4	0.37	1.7	2100	1.2	877.6	IE1	**BG70G20-../SSE06MA4**	0.17	0.55	1.1	1.7	2	1570	1750	1930	2100	2100	130	20000	-
2.4	0.37	1.4	2450	1	1035	IE1	**BG70G20-../SSE06MA4**	0.14	0.48	0.95	1.4	1.7	1860	2050	2250	2450	2450	130	20000	-
2.4	0.37	1.4	2450	1	1035	IE4	**BG70G20-../S4E06LA4**	0.14	0.48	0.95	1.4	1.7	2450	2450	2450	2450	2450	130	20000	-
2.4	0.37	1.2	2850	0.87	1193	IE4	**BG70G20-../S4E06LA4**	0.12	0.41	0.8	1.2	1.5	2850	2850	2850	2850	2850	130	20000	-
2.4	0.37	1.2	2850	0.87	1193	IE1	**BG70G20-../SSE06MA4**	0.12	0.41	0.8	1.2	1.5	2100	2350	2600	2850	2850	130	20000	-

MN = 2.6 Nm (PN = 0.4 kW)



M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
2.6	0.4	560	6.8	1.3	2.64	IE4	**BG05-../S4E06LA4**	56	189	375	560	680	6.6	6.8	6.8	6.8	6.8	8.5	420	-
2.6	0.4	440	8.7	1.1	3.38	IE4	**BG05-../S4E06LA4**	44	147	295	440	530	8.4	8.7	8.7	8.7	8.7	8.5	460	-
2.6	0.4	325	11.9	1	4.59	IE4	**BG05-../S4E06LA4**	32.5	108	215	325	390	11.4	11.9	11.9	11.9	11.9	8.5	490	-
2.6	0.4	270	14.1	0.99	5.46	IE4	**BG05-../S4E06LA4**	27	91	183	270	325	13.6	14.1	14.1	14.1	14.1	8.5	490	-
2.6	0.4	245	15.8	1.1	6.09	IE4	**BG05-../S4E06LA4**	24.5	82	164	245	295	15.2	15.8	15.8	15.8	15.8	8.5	480	-
2.6	0.4	225	17.1	0.93	6.6	IE4	**BG05-../S4E06LA4**	22.5	75	151	225	270	16.5	17.1	17.1	17.1	17.1	8.5	510	-
2.6	0.4	225	17.2	0.98	6.64	IE4	**BG05-../S4E06LA4**	22.5	75	150	225	270	16.5	17.2	17.2	17.2	17.2	8.5	500	-
2.6	0.4	192	20	0.89	7.8	IE4	**BG05-../S4E06LA4**	19	64	128	192	230	19.5	20	20	20	20	8.5	530	-
2.6	0.4	184	21	0.85	8.15	IE4	**BG05-../S4E06LA4**	18	61	122	184	220	20	21	21	21	21	8.5	510	-
2.6	0.4	176	22	0.86	8.51	IE4	**BG05-../S4E06LA4**	17.5	58	117	176	210	21	22	22	22	22	8.5	550	-
2.6	0.4	395	9.8	2	3.78	IE4	**BG06-../S4E06LA4**	39.5	132	260	395	475	9.4	9.8	9.8	9.8	9.8	9.5	520	-
2.6	0.4	330	11.8	1.9	4.54	IE4	**BG06-../S4E06LA4**	33	110	220	330	395	11.3	11.8	11.8	11.8	11.8	9.5	530	-
2.6	0.4	250	15.4	1.5	5.96	IE4	**BG06-../S4E06LA4**	25	83	167	250	300	14.9	15.4	15.4	15.4	15.4	9.5	570	-
2.6	0.4	210	18.2	1.4	7.01	IE4	**BG06-../S4E06LA4**	21	71	142	210	255	17.5	18.2	18.2	18.2	18.2	9.5	580	-
2.6	0.4	178	21.5	1.3	8.39	IE4	**BG06-../S4E06LA4**	17.5	59	119	178	210	20.5	21.5	21.5	21.5	21.5	9.5	600	-
2.6	0.4	159	24	1.2	9.38	IE4	**BG06-../S4E06LA4**	15.5	53	106	159	191	23	24	24	24	24	9.5	640	-
2.6	0.4	146	26.5	1.2	10.24	IE4	**BG06-../S4E06LA4**	14.5	48.5	97	146	175	25.5	26.5	26.5	26.5	26.5	9.5	640	-
2.6	0.4	132	29	1.1	11.28	IE4	**BG06-../S4E06LA4**	13	44	88	132	159	28	29	29	29	29	9.5	670	-
2.6	0.4	121	31.5	1	12.3	IE4	**BG06-../S4E06LA4**	12	40.5	81	121	146	30.5	31.5	31.5	31.5	31.5	9.5	670	-
2.6	0.4	115	33.5	0.98	12.98	IE4	**BG06-../S4E06LA4**	11.5	38.5	77	115	138	32	33.5	33.5	33.5	33.5	9.5	600	-
2.6	0.4	101	38	0.88	14.78	IE4	**BG06-../S4E06LA4**	10	33.5	67	101	121	36.5	38	38	38	38	9.5	730	-
2.6	0.4	92	41.5	0.83	16.13	IE4	**BG06-../S4E06LA4**	9.2	30.5	61	92	111	40	41.5	41.5	41.5	41.5	9.5	740	-
2.6	0.4	86	45	0.84	17.4	IE4	**BG06-../S4E06LA4**	8.6	28.5	57	86	103	43.5	45	45	45	45	9.5	760	-
2.6	0.4	79	49	0.81	18.98	IE4	**BG06-../S4E06LA4**	7.9	26	52	79	94	47	49	49	49	49	9.5	770	-
2.6	0.4	102	37.5	3	14.58	IE4	**BG10-../S4E06LA4**	10	34	68	102	123	36	37.5	37.5	37.5	37.5	13	1100	1540
2.6	0.4	92	41.5	2.8	16.15	IE4	**BG10-../S4E06LA4**	9.2	30.5	61	92	111	40	41.5	41.5	41.5	41.5	13	1140	1590
2.6	0.4	81	48	2.5	18.51	IE4	**BG10-../S4E06LA4**	8.1	27	54	81	97	46	48	48	48	48	13	1210	1690
2.6	0.4	73	53	2.3	20.51	IE4	**BG10-../S4E06LA4**	7.3	24	48.5	73	87	51	53	53	53	53	13	1290	1800
2.6	0.4	68	57	2.1	22.04	IE4	**BG10-../S4E06LA4**	6.8	22.5	45	68	81	55	57	57	57	57	13	1330	1860
2.6	0.4	61	63	1.9	24.42	IE4	**BG10-../S4E06LA4**	6.1	20	40.5	61	73	61	63	63	63	63	13	1410	1970
2.6	0.4	57	68	1.8	26.26	IE4	**BG10-../S4E06LA4**	5.7	19	38	57	68	65	68	68	68	68	13	1460	2000

MN = 2.6 Nm (PN = 0.4 kW)

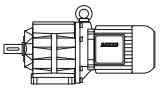


M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
2.6	0.4	51	75	1.6	29.09	IE4	**BG10-../S4E06LA4**	5.1	17	34	51	61	72	75	75	75	75	13	1540	2150
2.6	0.4	47.5	81	1.5	31.52	IE4	**BG10-../S4E06LA4**	4.7	15.5	31.5	47.5	57	78	81	81	81	81	13	1600	2200
2.6	0.4	42.5	90	1.3	34.92	IE4	**BG10-../S4E06LA4**	4.2	14	28.5	42.5	51	87	90	90	90	90	13	1690	2350
2.6	0.4	37.5	103	1.2	39.7	IE4	**BG10-../S4E06LA4**	3.7	12.5	25	37.5	45	99	103	103	103	103	13	1780	2450
2.6	0.4	34	114	1	43.99	IE4	**BG10-../S4E06LA4**	3.4	11	22.5	34	40.5	109	114	114	114	114	13	1880	2600
2.6	0.4	32	121	0.99	46.55	IE4	**BG10-../S4E06LA4**	3.2	10.5	21	32	38.5	116	121	121	121	121	13	1920	2650
2.6	0.4	29	134	0.89	51.57	IE4	**BG10-../S4E06LA4**	2.9	9.6	19	29	34.5	128	134	134	134	134	13	2000	2800
2.6	0.4	26	149	0.8	57.48	IE4	**BG10-../S4E06LA4**	2.6	8.6	17	26	31	143	149	149	149	149	13	2000	2800
2.6	0.4	55	70	2.1	27.08	IE4	**BG15-../S4E06LA4**	5.5	18	36.5	55	66	67	70	70	70	70	13	3000	6000
2.6	0.4	49.5	78	1.9	30.08	IE4	**BG15-../S4E06LA4**	4.9	16.5	33	49.5	59	75	78	78	78	78	13	3000	6000
2.6	0.4	43.5	88	1.7	34.2	IE4	**BG15-../S4E06LA4**	4.3	14.5	29	43.5	52	85	88	88	88	88	13	3000	6000
2.6	0.4	39.5	98	1.5	37.9	IE4	**BG15-../S4E06LA4**	3.9	13	26	39.5	47	94	98	98	98	98	13	3000	6000
2.6	0.4	58	67	3	25.79	IE4	**BG20-../S4E06LA4**	5.8	19	38.5	58	69	64	67	67	67	67	16	3700	-
2.6	0.4	53	72	2.8	27.85	IE4	**BG20-../S4E06LA4**	5.3	17.5	35.5	53	64	69	72	72	72	72	16	3800	-
2.6	0.4	48	80	2.5	30.94	IE4	**BG20-../S4E06LA4**	4.8	16	32	48	58	77	80	80	80	80	16	4000	-
2.6	0.4	45	86	2.3	33.33	IE4	**BG20-../S4E06LA4**	4.5	15	30	45	54	83	86	86	86	86	16	4100	-
2.6	0.4	40.5	96	2.1	37.02	IE4	**BG20-../S4E06LA4**	4	13.5	27	40.5	48.5	92	96	96	96	96	16	4300	-
2.6	0.4	35.5	108	1.8	41.76	IE4	**BG20-../S4E06LA4**	3.5	11.5	23.5	35.5	43	104	108	108	108	108	16	4500	-
2.6	0.4	32	120	1.7	46.38	IE4	**BG20-../S4E06LA4**	3.2	10.5	21.5	32	38.5	115	120	120	120	120	16	4700	-
2.6	0.4	31	124	1.6	47.92	IE4	**BG20-../S4E06LA4**	3.1	10	20.5	31	37.5	119	124	124	124	124	16	4750	-
2.6	0.4	28	138	1.4	53.22	IE4	**BG20-../S4E06LA4**	2.8	9.3	18.5	28	33.5	133	138	138	138	138	16	4950	-
2.6	0.4	25	153	1.3	59.07	IE4	**BG20-../S4E06LA4**	2.5	8.4	16.5	25	30	147	153	153	153	153	16	5000	-
2.6	0.4	22.5	170	1.2	65.62	IE4	**BG20-../S4E06LA4**	2.2	7.6	15	22.5	27	164	170	170	170	170	16	5000	-
2.6	0.4	25.5	152	1.1	58.58	IE4	**BG20Z-../S4E06LA4**	2.5	8.5	17	25.5	30.5	146	152	152	152	152	16	5000	-
2.6	0.4	22	175	1.1	67.53	IE4	**BG20Z-../S4E06LA4**	2.2	7.4	14.5	22	26.5	168	175	175	175	175	16	5000	-
2.6	0.4	20	195	1	75	IE4	**BG20Z-../S4E06LA4**	2	6.6	13	20	24	187	195	195	195	195	16	5000	-
2.6	0.4	19	200	0.98	78.6	IE4	**BG20Z-../S4E06LA4**	1.9	6.3	12.5	19	22.5	196	200	200	200	200	16	5000	-
2.6	0.4	17	225	0.88	87.3	IE4	**BG20Z-../S4E06LA4**	1.7	5.7	11	17	20.5	215	225	225	225	225	16	5000	-
2.6	0.4	15.5	245	0.82	94.27	IE4	**BG20Z-../S4E06LA4**	1.5	5.3	10.5	15.5	19	235	245	245	245	245	16	5000	-
2.6	0.4	38	101	3	39.02	IE4	**BG30-../S4E06LA4**	3.8	12.5	25.5	38	46	97	101	101	101	101	20	5800	-
2.6	0.4	35	110	2.7	42.46	IE4	**BG30-../S4E06LA4**	3.5	11.5	23.5	35	42	106	110	110	110	110	20	5900	-
2.6	0.4	31.5	122	2.4	47.11	IE4	**BG30-../S4E06LA4**	3.1	10.5	21	31.5	38	117	122	122	122	122	20	6000	-
2.6	0.4	28.5	136	2.2	52.44	IE4	**BG30-../S4E06LA4**	2.8	9.5	19	28.5	34	131	136	136	136	136	20	6000	-
2.6	0.4	25.5	151	2	58.18	IE4	**BG30-../S4E06LA4**	2.5	8.5	17	25.5	30.5	145	151	151	151	151	20	6000	-
2.6	0.4	24.5	158	1.9	60.79	IE4	**BG30-../S4E06LA4**	2.4	8.2	16	24.5	29.5	151	158	158	158	158	20	6000	-
2.6	0.4	22	175	1.7	67.44	IE4	**BG30-../S4E06LA4**	2.2	7.4	14.5	22	26.5	168	175	175	175	175	20	6000	-
2.6	0.4	22.5	171	1.5	65.79	IE4	**BG30Z-../S4E06LA4**	2.2	7.5	15	22.5	27	164	171	171	171	171	22	6000	-
2.6	0.4	20	191	1.6	73.51	IE4	**BG30Z-../S4E06LA4**	2	6.8	13.5	20	24	183	191	191	191	191	22	6000	-
2.6	0.4	18	210	1.4	81.55	IE4	**BG30Z-../S4E06LA4**	1.8	6.1	12	18	22	200	210	210	210	210	22	6000	-
2.6	0.4	17	220	1.3	86.13	IE4	**BG30Z-../S4E06LA4**	1.7	5.8	11.5	17	20.5	215	220	220	220	220	22	6000	-
2.6	0.4	15.5	245	1.2	95.55	IE4	**BG30Z-../S4E06LA4**	1.5	5.2	10	15.5	18.5	235	245	245	245	245	22	6000	-
2.6	0.4	13.5	280	1.1	109.6	IE4	**BG30Z-../S4E06LA4**	1.3	4.5	9.1	13.5	16	270	280	280	280	280	22	6000	-
2.6	0.4	12	315	0.95	121.6	IE4	**BG30Z-../S4E06LA4**	1.2	4.1	8.2	12	14.5	300	315	315	315	315	22	6000	-
2.6	0.4	11.5	330	0.9	128.5	IE4	**BG30Z-../S4E06LA4**	1.1	3.8	7.7	11.5	14	320	330	330	330	330	22	6000	-
2.6	0.4	10.5	370	0.81	142.5	IE4	**BG30Z-../S4E06LA4**	1	3.5	7	10.5	12.5	355	370	370	370	370	22	6000	-
2.6	0.4	22	176	2.4	67.74	IE4	**BG40Z-../S4E06LA4**	2.2	7.3	14.5	22	26.5	169	176	176	176	176	38	7000	-
2.6	0.4	19.5	195	2.2	75.19	IE4	**BG40Z-../S4E06LA4**	1.9	6.6	13	19.5	23.5	187	195	195	195	195	38	7000	-
2.6	0.4	18	210	2	82	IE4	**BG40Z-../S4E06LA4**	1.8	6	12	18	21.5	205	210	210	210	210	38	7000	-
2.6	0.4	16	235	1.8	91.02	IE4	**BG40Z-../S4E06LA4**	1.6	5.4	10.5	16	19.5	225	235	235	235	235	38	7000	-
2.6	0.4	15	250	1.7	96.86	IE4	**BG40Z-../S4E06LA4**	1.5	5.1	10	15	18.5	240	250	250	250	250	38	7000	-
2.6	0.4	13.5	275	1.5	107.5	IE4	**BG40Z-../S4E06LA4**	1.3	4.6	9.3	13.5	16.5	265	275	275	275	275	38	7000	-
2.6	0.4	12	315	1.3	121.3	IE4	**BG40Z-../S4E06LA4**	1.2	4.1	8.2	12	14.5	300	315	315	315	315	38	7000	-
2.6	0.4	11	345	1.2	134.6	IE4	**BG40Z-../S4E06LA4**	1.1	3.7	7.4	11	13	335	345	345	345	345	38	7000	-
2.6	0.4	10.5	365	1.2	141.4	IE4	**BG40Z-../S4E06LA4**	1	3.5	7	10.5	12.5	350	365	365	365	365	38	7000	-
2.6	0.4	9.5	405	1	156.9	IE4	**BG40Z-../S4E06LA4**	0.95	3.1	6.3	9.5	11	390	405	405	405	405	38	7000	-
2.6	0.4	9	430	0.98	166.1	IE4	**BG40Z-../S4E06LA4**	0.9	3	6	9	10.5	415	430	430	430	430	38	7000	-
2.6	0.4	8.1	475	0.89	184.4	IE4	**BG40Z-../S4E06LA4**	0.8	2.7	5.4	8.1	9.7	460	475	475	475	475	38	7000	-
2.6	0.4	7.5	510	0.82	199.9	IE4	**BG40Z-../S4E06LA4**	0.75	2.5	5	7.5	9	495	510	510	510	510	38	7000	-
2.6	0.4	18.5	205	3	79.78	IE4	**BG50Z-../S4E06LA4**	1.8	6.2	12.5	18.5	22.5	199	205	205	205	205	47	10000	-
2.6	0.4	15.5	245	2.5	95.58	IE4	**BG50Z-../S4E06LA4**	1.5	5.2	10	15.5	18.5	235	245	245	245	245	47	10000	-
2.6	0.4	14	275	2.3	106	IE4	**BG50Z-../S4E06LA4**	1.4	4.7	9.4	14	16.5	265	275	275	275	275	47	10000	-
2.6	0.4	11.5	335	1.9	128.9	IE4	**BG50Z-../S4E06LA4**	1.1	3.8	7.7	11.5	13.5	320	335	335	335	335	47	10000	-
2.6	0.4	10	370	1.7	142.9	IE4	**BG50Z-../S4E06LA4**	1	3.4	6.9	10	12.5	355	370	370	370	370	47	10000	-
2.6	0.4	9	425	1.5	164.9	IE4	**BG50Z-../S4E06LA4**	0.9	3	6	9	10.5	410	425	425	425	425	47	10000	-
2.6	0.4	8.2	475	1.3	182.8	IE4	**BG50Z-../S4E06LA4**	0.8	2.7	5.4	8.2	9.8	455	475	475	475	475	47	10000	-
2.6	0.4	7.3	530	1.2	204.7	IE4	**BG50Z-../S4E06LA4**	0.7	2.4	4.8	7.3	8.7	510	530	530	530	530	47	10000	-
2.6	0.4	6.6	580	1.1	226.9	IE4	**BG50Z-../S4E06LA4**	0.65	2.2	4.4	6.6	7.9	560	580	580	580	580	47	10000	-
2.6	0.4	5.8	670	0.94	258.6	IE4	**BG50Z-../S4E06LA4**	0.55	1.9	3.8	5.8	6.9	640	670	670	670	670	47	10000	-
2.6	0.4	5.2	740	0.85	286.7	IE4	**BG50Z-../S4E06LA4**	0.5	1.7	3.4	5.2	6.2	710	740	740	740	740	47	10000	-
2.6	0.4	5.2	740	0.92	287.1	IE4	**BG50G10-../S4E06LA4**	0.5	1.7	3.4	5.2	6.2	710	740	740	740	740	51	10000	-
2.6	0.4	5.4	710	1.8	276.2	IE4	**BG60G20-../S4E06LA4**	0.5	1.8	3.6	5.4	6.5	690	710	710	710	710	100	16000	-
2.6	0.4	4.9	790	1.6	306.1	IE4	**BG60G20-../S4E06LA4**	0.49	1.6	3.2	4.9	5.8	760	790	790	790	790	100	16000	-
2.6	0.4	4.4	860	1.5	334.3	IE4	**BG60G20-../S4E06LA4**	0.44	1.4	2.9	4.4	5.3	830	860	860	860	860	100	16000	-
2.6	0.4	4	960	1.3	370.5	IE4	**BG60G20-../S4E06LA4**	0.4	1.3	2.6	4	4.8	920	960	960	960	960	100	16000	-
2.6	0.4	3.4	1130	1.1	437.3	IE4	**BG60G20-../S4E06LA4**	0.34	1.1	2.2	3.4	4.1	1090	1130	1130	1130	1130	100	16000	-
2.6	0.4	2.9	1310	0.99	504.9	IE4	**BG60G20-../S4E06LA4**	0.29	0.95	1.9	2.9	3.5	1260	1310	1310	1310	1310	100	16000	-

BG-series helical-geared motors

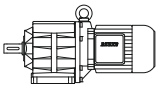
Selection helical-geared motors - n_1 = 1500 $^1/_{min}$

MN = 2.6 Nm (PN = 0.4 kW)



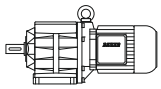
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
2.6	0.4	2.6	1450	0.89	559.5	IE4	**BG60G20-../S4E06LA4**	0.26	0.85	1.7	2.6	3.2	1390	1450	1450	1450	1450	100	16000	-
2.6	0.4	4.5	850	2.9	328.4	IE4	**BG70G20-../S4E06LA4**	0.45	1.5	3	4.5	5.4	820	850	850	850	850	130	20000	-
2.6	0.4	3.8	1000	2.5	387.6	IE4	**BG70G20-../S4E06LA4**	0.38	1.2	2.5	3.8	4.6	960	1000	1000	1000	1000	130	20000	-
2.6	0.4	3.5	1080	2.3	417.8	IE4	**BG70G20-../S4E06LA4**	0.35	1.1	2.3	3.5	4.3	1040	1080	1080	1080	1080	130	20000	-
2.6	0.4	3	1280	1.9	495.9	IE4	**BG70G20-../S4E06LA4**	0.3	1	2	3	3.6	1230	1280	1280	1280	1280	130	20000	-
2.6	0.4	2.5	1500	1.7	577.3	IE4	**BG70G20-../S4E06LA4**	0.25	0.85	1.7	2.5	3.1	1440	1500	1500	1500	1500	130	20000	-
2.6	0.4	2.2	1730	1.4	665.8	IE4	**BG70G20-../S4E06LA4**	0.22	0.75	1.5	2.2	2.7	1660	1730	1730	1730	1730	130	20000	-
2.6	0.4	1.8	2050	1.2	790.2	IE4	**BG70G20-../S4E06LA4**	0.18	0.6	1.2	1.8	2.2	1970	2050	2050	2050	2050	130	20000	-
2.6	0.4	1.7	2250	1.1	877.6	IE4	**BG70G20-../S4E06LA4**	0.17	0.55	1.1	1.7	2	2150	2250	2250	2250	2250	130	20000	-
2.6	0.4	1.4	2650	0.93	1035	IE4	**BG70G20-../S4E06LA4**	0.14	0.48	0.95	1.4	1.7	2550	2650	2650	2650	2650	130	20000	-
2.6	0.4	1.2	3100	0.81	1193	IE4	**BG70G20-../S4E06LA4**	0.12	0.41	0.8	1.2	1.5	2950	3100	3100	3100	3100	130	20000	-

MN = 3.5 Nm (PN = 0.55 kW)



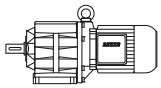
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
3.5	0.55	560	9.2	0.97	2.64	IE1	**BG05-../SSE06LA4**	56	189	375	560	680	6.6	7.6	9.2	9.2	9.2	8.5	420	-
3.5	0.55	440	11.8	0.85	3.38	IE1	**BG05-../SSE06LA4**	44	147	295	440	530	8.4	9.8	11.8	11.8	11.8	8.5	460	-
3.5	0.55	245	21	0.8	6.09	IE1	**BG05-../SSE06LA4**	24.5	82	164	245	295	15.2	17.6	21	21	21	8.5	480	-
3.5	0.55	395	13.2	1.5	3.78	IE1	**BG06-../SSE06LA4**	39.5	132	260	395	475	9.4	10.9	13.2	13.2	13.2	9.5	520	-
3.5	0.55	330	15.8	1.4	4.54	IE1	**BG06-../SSE06LA4**	33	110	220	330	395	11.3	13.1	15.8	15.8	15.8	9.5	530	-
3.5	0.55	250	20.5	1.2	5.96	IE1	**BG06-../SSE06LA4**	25	83	167	250	300	14.9	17.2	20.5	20.5	20.5	9.5	570	-
3.5	0.55	210	24.5	1.1	7.01	IE1	**BG06-../SSE06LA4**	21	71	142	210	255	17.5	20	24.5	24.5	24.5	9.5	580	-
3.5	0.55	178	29	0.95	8.39	IE1	**BG06-../SSE06LA4**	17.5	59	119	178	210	20.5	24	29	29	29	9.5	600	-
3.5	0.55	159	32.5	0.91	9.38	IE1	**BG06-../SSE06LA4**	15.5	53	106	159	191	23	27	32.5	32.5	32.5	9.5	640	-
3.5	0.55	146	35.5	0.86	10.24	IE1	**BG06-../SSE06LA4**	14.5	48.5	97	146	175	25.5	29.5	35.5	35.5	35.5	9.5	640	-
3.5	0.55	132	39	0.81	11.28	IE1	**BG06-../SSE06LA4**	13	44	88	132	159	28	32.5	39	39	39	9.5	670	-
3.5	0.55	125	41.5	2.5	11.92	IE1	**BG10-../SSE06LA4**	12.5	41.5	83	125	151	29.5	34.5	41.5	41.5	41.5	13	1030	1440
3.5	0.55	113	46	2.4	13.21	IE1	**BG10-../SSE06LA4**	11	37.5	75	113	136	33	38	46	46	46	13	1070	1490
3.5	0.55	102	51	2.2	14.58	IE1	**BG10-../SSE06LA4**	10	34	68	102	123	36	42	51	51	51	13	1100	1540
3.5	0.55	92	56	2.1	16.15	IE1	**BG10-../SSE06LA4**	9.2	30.5	61	92	111	40	46.5	56	56	56	13	1140	1590
3.5	0.55	81	64	1.9	18.51	IE1	**BG10-../SSE06LA4**	8.1	27	54	81	97	46	53	64	64	64	13	1210	1690
3.5	0.55	73	71	1.7	20.51	IE1	**BG10-../SSE06LA4**	7.3	24	48.5	73	87	51	59	71	71	71	13	1290	1800
3.5	0.55	68	77	1.6	22.04	IE1	**BG10-../SSE06LA4**	6.8	22.5	45	68	81	55	63	77	77	77	13	1330	1860
3.5	0.55	61	85	1.4	24.42	IE1	**BG10-../SSE06LA4**	6.1	20	40.5	61	73	61	70	85	85	85	13	1410	1970
3.5	0.55	57	91	1.3	26.26	IE1	**BG10-../SSE06LA4**	5.7	19	38	57	68	65	76	91	91	91	13	1460	2000
3.5	0.55	51	101	1.2	29.09	IE1	**BG10-../SSE06LA4**	5.1	17	34	51	61	72	84	101	101	101	13	1540	2150
3.5	0.55	47.5	110	1.1	31.52	IE1	**BG10-../SSE06LA4**	4.7	15.5	31.5	47.5	57	78	91	110	110	110	13	1600	2200
3.5	0.55	42.5	122	0.98	34.92	IE1	**BG10-../SSE06LA4**	4.2	14	28.5	42.5	51	87	101	122	122	122	13	1690	2350
3.5	0.55	37.5	138	0.86	39.7	IE1	**BG10-../SSE06LA4**	3.7	12.5	25	37.5	45	99	115	138	138	138	13	1780	2450
3.5	0.55	55	94	1.6	27.08	IE1	**BG15-../SSE06LA4**	5.5	18	36.5	55	66	67	78	94	94	94	13	3000	6000
3.5	0.55	49.5	105	1.4	30.08	IE1	**BG15-../SSE06LA4**	4.9	16.5	33	49.5	59	75	87	105	105	105	13	3000	6000
3.5	0.55	43.5	119	1.3	34.2	IE1	**BG15-../SSE06LA4**	4.3	14.5	29	43.5	52	85	99	119	119	119	13	3000	6000
3.5	0.55	39.5	132	1.1	37.9	IE1	**BG15-../SSE06LA4**	3.9	13	26	39.5	47	94	109	132	132	132	13	3000	6000
3.5	0.55	86	60	3	17.31	IE1	**BG20-../SSE06LA4**	8.6	28.5	57	86	103	43	50	60	60	60	16	3200	-
3.5	0.55	75	69	2.8	19.95	IE1	**BG20-../SSE06LA4**	7.5	25	50	75	90	49.5	57	69	69	69	16	3350	-
3.5	0.55	67	77	2.6	22.16	IE1	**BG20-../SSE06LA4**	6.7	22.5	45	67	81	55	64	77	77	77	16	3500	-
3.5	0.55	64	81	2.5	23.22	IE1	**BG20-../SSE06LA4**	6.4	21.5	43	64	77	58	67	81	81	81	16	3550	-
3.5	0.55	58	90	2.2	25.79	IE1	**BG20-../SSE06LA4**	5.8	19	38.5	58	69	64	74	90	90	90	16	3700	-
3.5	0.55	53	97	2.1	27.85	IE1	**BG20-../SSE06LA4**	5.3	17.5	35.5	53	64	69	80	97	97	97	16	3800	-
3.5	0.55	48	108	1.8	30.94	IE1	**BG20-../SSE06LA4**	4.8	16	32	48	58	77	89	108	108	108	16	4000	-
3.5	0.55	45	116	1.7	33.33	IE1	**BG20-../SSE06LA4**	4.5	15	30	45	54	83	96	116	116	116	16	4100	-
3.5	0.55	40.5	129	1.5	37.02	IE1	**BG20-../SSE06LA4**	4	13.5	27	40.5	48.5	92	107	129	129	129	16	4300	-
3.5	0.55	35.5	146	1.4	41.76	IE1	**BG20-../SSE06LA4**	3.5	11.5	23.5	35.5	43	104	121	146	146	146	16	4500	-
3.5	0.55	32	162	1.2	46.38	IE1	**BG20-../SSE06LA4**	3.2	10.5	21.5	32	38.5	115	134	162	162	162	16	4700	-
3.5	0.55	31	167	1.2	47.92	IE1	**BG20-../SSE06LA4**	3.1	10	20.5	31	37.5	119	138	167	167	167	16	4750	-
3.5	0.55	28	186	1.1	53.22	IE1	**BG20-../SSE06LA4**	2.8	9.3	18.5	28	33.5	133	154	186	186	186	16	4950	-
3.5	0.55	25	205	0.97	59.07	IE1	**BG20-../SSE06LA4**	2.5	8.4	16.5	25	30	147	171	205	205	205	16	5000	-
3.5	0.55	22.5	225	0.87	65.62	IE1	**BG20-../SSE06LA4**	2.2	7.6	15	22.5	27	164	190	225	225	225	16	5000	-
3.5	0.55	25.5	205	0.84	58.58	IE1	**BG20Z-../SSE06LA4**	2.5	8.5	17	25.5	30.5	146	169	205	205	205	16	5000	-
3.5	0.55	22	235	0.85	67.53	IE1	**BG20Z-../SSE06LA4**	2.2	7.4	14.5	22	26.5	168	195	235	235	235	16	5000	-
3.5	0.55	53	98	3	28.24	IE1	**BG30-../SSE06LA4**	5.3	17.5	35	53	63	70	81	98	98	98	20	5100	-
3.5	0.55	50	104	2.9	29.83	IE1	**BG30-../SSE06LA4**	5	16.5	33.5	50	60	74	86	104	104	104	20	5200	-
3.5	0.55	45	115	2.6	33.09	IE1	**BG30-../SSE06LA4**	4.5	15	30	45	54	82	95	115	115	115	20	5400	-
3.5	0.55	42.5	123	2.4	35.17	IE1	**BG30-../SSE06LA4**	4.2	14	28	42.5	51	87	101	123	123	123	20	5500	-
3.5	0.55	38	136	2.2	39.02	IE1	**BG30-../SSE06LA4**	3.8	12.5	25.5	38	46	97	113	136	136	136	20	5800	-
3.5	0.55	35	148	2	42.46	IE1	**BG30-../SSE06LA4**	3.5	11.5	23.5	35	42	106	123	148	148	148	20	5900	-
3.5	0.55	31.5	164	1.8	47.11	IE1	**BG30-../SSE06LA4**	3.1	10.5	21	31.5	38	117	136	164	164	164	20	6000	-
3.5	0.55	28.5	183	1.6	52.44	IE1	**BG30-../SSE06LA4**	2.8	9.5	19	28.5	34	131	152	183	183	183	20	6000	-
3.5	0.55	25.5	200	1.5	58.18	IE1	**BG30-../SSE06LA4**	2.5	8.5	17	25.5	30.5	145	168	200	200	200	20	6000	-

MN = 3.5 Nm (PN = 0.55 kW)



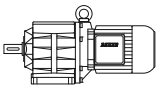
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
3.5	0.55	24.5	210	1.4	60.79	IE1	**BG30-../SSE06LA4**	2.4	8.2	16	24.5	29.5	151	176	210	210	210	20	6000	-
3.5	0.55	22	235	1.3	67.44	IE1	**BG30-../SSE06LA4**	2.2	7.4	14.5	22	26.5	168	195	235	235	235	20	6000	-
3.5	0.55	22.5	230	1.2	65.79	IE1	**BG30Z-../SSE06LA4**	2.2	7.5	15	22.5	27	164	190	230	230	230	22	6000	-
3.5	0.55	20	255	1.2	73.51	IE1	**BG30Z-../SSE06LA4**	2	6.8	13.5	20	24	183	210	255	255	255	22	6000	-
3.5	0.55	18	285	1.1	81.55	IE1	**BG30Z-../SSE06LA4**	1.8	6.1	12	18	22	200	235	285	285	285	22	6000	-
3.5	0.55	17	300	1	86.13	IE1	**BG30Z-../SSE06LA4**	1.7	5.8	11.5	17	20.5	215	245	300	300	300	22	6000	-
3.5	0.55	15.5	330	0.9	95.55	IE1	**BG30Z-../SSE06LA4**	1.5	5.2	10	15.5	18.5	235	275	330	330	330	22	6000	-
3.5	0.55	22	235	1.8	67.74	IE1	**BG40Z-../SSE06LA4**	2.2	7.3	14.5	22	26.5	169	196	235	235	235	38	7000	-
3.5	0.55	19.5	260	1.6	75.19	IE1	**BG40Z-../SSE06LA4**	1.9	6.6	13	19.5	23.5	187	215	260	260	260	38	7000	-
3.5	0.55	18	285	1.5	82	IE1	**BG40Z-../SSE06LA4**	1.8	6	12	18	21.5	205	235	285	285	285	38	7000	-
3.5	0.55	16	315	1.3	91.02	IE1	**BG40Z-../SSE06LA4**	1.6	5.4	10.5	16	19.5	225	260	315	315	315	38	7000	-
3.5	0.55	15	335	1.3	96.86	IE1	**BG40Z-../SSE06LA4**	1.5	5.1	10	15	18.5	240	280	335	335	335	38	7000	-
3.5	0.55	13.5	375	1.1	107.5	IE1	**BG40Z-../SSE06LA4**	1.3	4.6	9.3	13.5	16.5	265	310	375	375	375	38	7000	-
3.5	0.55	12	420	1	121.3	IE1	**BG40Z-../SSE06LA4**	1.2	4.1	8.2	12	14.5	300	350	420	420	420	38	7000	-
3.5	0.55	11	470	0.9	134.6	IE1	**BG40Z-../SSE06LA4**	1.1	3.7	7.4	11	13	335	390	470	470	470	38	7000	-
3.5	0.55	10.5	490	0.86	141.4	IE1	**BG40Z-../SSE06LA4**	1	3.5	7	10.5	12.5	350	410	490	490	490	38	7000	-
3.5	0.55	20.5	250	2.5	71.97	IE1	**BG50Z-../SSE06LA4**	2	6.9	13.5	20.5	25	179	205	250	250	250	47	10000	-
3.5	0.55	18.5	275	2.3	79.78	IE1	**BG50Z-../SSE06LA4**	1.8	6.2	12.5	18.5	22.5	199	230	275	275	275	47	10000	-
3.5	0.55	15.5	330	1.9	95.58	IE1	**BG50Z-../SSE06LA4**	1.5	5.2	10	15.5	18.5	235	275	330	330	330	47	10000	-
3.5	0.55	14	370	1.7	106	IE1	**BG50Z-../SSE06LA4**	1.4	4.7	9.4	14	16.5	265	305	370	370	370	47	10000	-
3.5	0.55	11.5	450	1.4	128.9	IE1	**BG50Z-../SSE06LA4**	1.1	3.8	7.7	11.5	13.5	320	370	450	450	450	47	10000	-
3.5	0.55	10	500	1.3	142.9	IE1	**BG50Z-../SSE06LA4**	1	3.4	6.9	10	12.5	355	410	500	500	500	47	10000	-
3.5	0.55	9	570	1.1	164.9	IE1	**BG50Z-../SSE06LA4**	0.9	3	6	9	10.5	410	475	570	570	570	47	10000	-
3.5	0.55	8.2	630	0.98	182.8	IE1	**BG50Z-../SSE06LA4**	0.8	2.7	5.4	8.2	9.8	455	530	630	630	630	47	10000	-
3.5	0.55	7.3	710	0.88	204.7	IE1	**BG50Z-../SSE06LA4**	0.7	2.4	4.8	7.3	8.7	510	590	710	710	710	47	10000	-
3.5	0.55	5.4	960	1.3	276.2	IE1	**BG60G20-../SSE06LA4**	0.5	1.8	3.6	5.4	6.5	690	800	960	960	960	100	16000	-
3.5	0.55	4.9	1070	1.2	306.1	IE1	**BG60G20-../SSE06LA4**	0.49	1.6	3.2	4.9	5.8	760	880	1070	1070	1070	100	16000	-
3.5	0.55	4.4	1170	1.1	334.3	IE1	**BG60G20-../SSE06LA4**	0.44	1.4	2.9	4.4	5.3	830	960	1170	1170	1170	100	16000	-
3.5	0.55	4	1290	1	370.5	IE1	**BG60G20-../SSE06LA4**	0.4	1.3	2.6	4	4.8	920	1070	1290	1290	1290	100	16000	-
3.5	0.55	3.4	1530	0.85	437.3	IE1	**BG60G20-../SSE06LA4**	0.34	1.1	2.2	3.4	4.1	1090	1260	1530	1530	1530	100	16000	-
3.5	0.55	5.8	890	2.8	255.5	IE1	**BG70G20-../SSE06LA4**	0.55	1.9	3.9	5.8	7	630	740	890	890	890	130	20000	-
3.5	0.55	5.4	960	2.6	276.7	IE1	**BG70G20-../SSE06LA4**	0.5	1.8	3.6	5.4	6.5	690	800	960	960	960	130	20000	-
3.5	0.55	4.5	1140	2.2	328.4	IE1	**BG70G20-../SSE06LA4**	0.45	1.5	3	4.5	5.4	820	950	1140	1140	1140	130	20000	-
3.5	0.55	3.8	1350	1.8	387.6	IE1	**BG70G20-../SSE06LA4**	0.38	1.2	2.5	3.8	4.6	960	1120	1350	1350	1350	130	20000	-
3.5	0.55	3.5	1460	1.7	417.8	IE1	**BG70G20-../SSE06LA4**	0.35	1.1	2.3	3.5	4.3	1040	1210	1460	1460	1460	130	20000	-
3.5	0.55	3	1730	1.4	495.9	IE1	**BG70G20-../SSE06LA4**	0.3	1	2	3	3.6	1230	1430	1730	1730	1730	130	20000	-
3.5	0.55	2.5	2000	1.2	577.3	IE1	**BG70G20-../SSE06LA4**	0.25	0.85	1.7	2.5	3.1	1440	1670	2000	2000	2000	130	20000	-
3.5	0.55	2.2	2300	1.1	665.8	IE1	**BG70G20-../SSE06LA4**	0.22	0.75	1.5	2.2	2.7	1660	1930	2300	2300	2300	130	20000	-
3.5	0.55	1.8	2750	0.9	790.2	IE1	**BG70G20-../SSE06LA4**	0.18	0.6	1.2	1.8	2.2	1970	2250	2750	2750	2750	130	20000	-
3.5	0.55	1.7	3050	0.81	877.6	IE1	**BG70G20-../SSE06LA4**	0.17	0.55	1.1	1.7	2	2150	2500	3050	3050	3050	130	20000	-

MN = 5 Nm (PN = 0.78 kW)



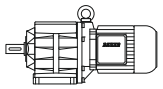
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
5	0.78	530	14.1	1.3	2.82	IE4	**BG06-../S4E08MA4**	53	177	350	530	630	14.1	14.1	14.1	14.1	14.1	16	470	-
5	0.78	395	18.8	1.1	3.78	IE4	**BG06-../S4E08MA4**	39.5	132	260	395	475	18.8	18.8	18.8	18.8	18.8	16	520	-
5	0.78	330	22.5	0.97	4.54	IE4	**BG06-../S4E08MA4**	33	110	220	330	395	22.5	22.5	22.5	22.5	22.5	16	530	-
5	0.78	250	29.5	0.81	5.96	IE4	**BG06-../S4E08MA4**	25	83	167	250	300	29.5	29.5	29.5	29.5	29.5	16	570	-
5	0.78	280	26.5	2.8	5.34	IE4	**BG10-../S4E08MA4**	28	93	187	280	335	26.5	26.5	26.5	26.5	26.5	16	620	910
5	0.78	220	33.5	2.4	6.78	IE4	**BG10-../S4E08MA4**	22	73	147	220	265	33.5	33.5	33.5	33.5	33.5	16	660	920
5	0.78	215	34	2.6	6.89	IE4	**BG10-../S4E08MA4**	21.5	72	145	215	260	34	34	34	34	34	16	850	1200
5	0.78	196	38	2.3	7.63	IE4	**BG10-../S4E08MA4**	19.5	65	131	196	235	38	38	38	38	38	16	900	1250
5	0.78	185	40	2.2	8.07	IE4	**BG10-../S4E08MA4**	18.5	61	123	185	220	40	40	40	40	40	16	660	920
5	0.78	160	46.5	2.1	9.33	IE4	**BG10-../S4E08MA4**	16	53	107	160	192	46.5	46.5	46.5	46.5	46.5	16	950	1330
5	0.78	145	51	1.9	10.34	IE4	**BG10-../S4E08MA4**	14.5	48	96	145	174	51	51	51	51	51	16	1000	1400
5	0.78	125	59	1.8	11.92	IE4	**BG10-../S4E08MA4**	12.5	41.5	83	125	151	59	59	59	59	59	16	1030	1440
5	0.78	113	66	1.7	13.21	IE4	**BG10-../S4E08MA4**	11	37.5	75	113	136	66	66	66	66	66	16	1070	1490
5	0.78	102	72	1.6	14.58	IE4	**BG10-../S4E08MA4**	10	34	68	102	123	72	72	72	72	72	16	1100	1540
5	0.78	92	80	1.4	16.15	IE4	**BG10-../S4E08MA4**	9.2	30.5	61	92	111	80	80	80	80	80	16	1140	1590
5	0.78	81	92	1.3	18.51	IE4	**BG10-../S4E08MA4**	8.1	27	54	81	97	92	92	92	92	92	16	1210	1690
5	0.78	73	102	1.2	20.51	IE4	**BG10-../S4E08MA4**	7.3	24	48.5	73	87	102	102	102	102	102	16	1290	1800
5	0.78	68	110	1.1	22.04	IE4	**BG10-../S4E08MA4**	6.8	22.5	45	68	81	110	110	110	110	110	16	1330	1860
5	0.78	61	122	0.98	24.42	IE4	**BG10-../S4E08MA4**	6.1	20	40.5	61	73	122	122	122	122	122	16	1410	1970
5	0.78	57	131	0.91	26.26	IE4	**BG10-../S4E08MA4**	5.7	19	38	57	68	131	131	131	131	131	16	1460	2000
5	0.78	51	145	0.83	29.09	IE4	**BG10-../S4E08MA4**	5.1	17	34	51	61	145	145	145	145	145	16	1540	2150
5	0.78	55	135	1.1	27.08	IE4	**BG15-../S4E08MA4**	5.5	18	36.5	55	66	135	135	135	135	135	16	3000	6000
5	0.78	49.5	150	1	30.08	IE4	**BG15-../S4E08MA4**	4.9	16.5	33	49.5	59	150	150	150	150	150	16	3000	6000
5	0.78	43.5	171	0.88	34.2	IE4	**BG15-../S4E08MA4**	4.3	14.5	29	43.5	52	171	171	171	171	171	16	3000	6000
5	0.78	180	41	2.9	8.29	IE4	**BG20-../S4E08MA4**	18	60	120	180	215	41	41	41	41	41	19	2250	-

MN = 5 Nm (PN = 0.78 kW)



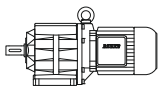
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
5	0.78	155	48	2.5	9.65	IE4	**BG20-../S4E08MA4**	15.5	51	103	155	186	48	48	48	48	48	19	2250	-
5	0.78	142	52	2.9	10.54	IE4	**BG20-../S4E08MA4**	14	47	94	142	170	52	52	52	52	52	19	2700	-
5	0.78	128	58	2.7	11.71	IE4	**BG20-../S4E08MA4**	12.5	42.5	85	128	153	58	58	58	58	58	19	2800	-
5	0.78	113	66	2.5	13.21	IE4	**BG20-../S4E08MA4**	11	37.5	75	113	136	66	66	66	66	66	19	2900	-
5	0.78	102	73	2.3	14.67	IE4	**BG20-../S4E08MA4**	10	34	68	102	122	73	73	73	73	73	19	3050	-
5	0.78	96	77	2.3	15.58	IE4	**BG20-../S4E08MA4**	9.6	32	64	96	115	77	77	77	77	77	19	3100	-
5	0.78	86	86	2.1	17.31	IE4	**BG20-../S4E08MA4**	8.6	28.5	57	86	103	86	86	86	86	86	19	3200	-
5	0.78	75	99	2	19.95	IE4	**BG20-../S4E08MA4**	7.5	25	50	75	90	99	99	99	99	99	19	3350	-
5	0.78	67	110	1.8	22.16	IE4	**BG20-../S4E08MA4**	6.7	22.5	45	67	81	110	110	110	110	110	19	3500	-
5	0.78	64	116	1.7	23.22	IE4	**BG20-../S4E08MA4**	6.4	21.5	43	64	77	116	116	116	116	116	19	3550	-
5	0.78	58	128	1.6	25.79	IE4	**BG20-../S4E08MA4**	5.8	19	38.5	58	69	128	128	128	128	128	19	3700	-
5	0.78	53	139	1.4	27.85	IE4	**BG20-../S4E08MA4**	5.3	17.5	35.5	53	64	139	139	139	139	139	19	3800	-
5	0.78	48	154	1.3	30.94	IE4	**BG20-../S4E08MA4**	4.8	16	32	48	58	154	154	154	154	154	19	4000	-
5	0.78	45	166	1.2	33.33	IE4	**BG20-../S4E08MA4**	4.5	15	30	45	54	166	166	166	166	166	19	4100	-
5	0.78	40.5	185	1.1	37.02	IE4	**BG20-../S4E08MA4**	4	13.5	27	40.5	48.5	185	185	185	185	185	19	4300	-
5	0.78	35.5	205	0.96	41.76	IE4	**BG20-../S4E08MA4**	3.5	11.5	23.5	35.5	43	205	205	205	205	205	19	4500	-
5	0.78	32	230	0.86	46.38	IE4	**BG20-../S4E08MA4**	3.2	10.5	21.5	32	38.5	230	230	230	230	230	19	4700	-
5	0.78	31	235	0.83	47.92	IE4	**BG20-../S4E08MA4**	3.1	10	20.5	31	37.5	235	235	235	235	235	19	4750	-
5	0.78	75	99	3	19.99	IE4	**BG30-../S4E08MA4**	7.5	25	50	75	90	99	99	99	99	99	23	4200	-
5	0.78	67	110	2.7	22.18	IE4	**BG30-../S4E08MA4**	6.7	22.5	45	67	81	110	110	110	110	110	23	4600	-
5	0.78	58	127	2.4	25.45	IE4	**BG30-../S4E08MA4**	5.8	19.5	39	58	70	127	127	127	127	127	23	4850	-
5	0.78	53	141	2.1	28.24	IE4	**BG30-../S4E08MA4**	5.3	17.5	35	53	63	141	141	141	141	141	23	5100	-
5	0.78	50	149	2	29.83	IE4	**BG30-../S4E08MA4**	5	16.5	33.5	50	60	149	149	149	149	149	23	5200	-
5	0.78	45	165	1.8	33.09	IE4	**BG30-../S4E08MA4**	4.5	15	30	45	54	165	165	165	165	165	23	5400	-
5	0.78	42.5	175	1.7	35.17	IE4	**BG30-../S4E08MA4**	4.2	14	28	42.5	51	175	175	175	175	175	23	5500	-
5	0.78	38	195	1.5	39.02	IE4	**BG30-../S4E08MA4**	3.8	12.5	25.5	38	46	195	195	195	195	195	23	5800	-
5	0.78	35	210	1.4	42.46	IE4	**BG30-../S4E08MA4**	3.5	11.5	23.5	35	42	210	210	210	210	210	23	5900	-
5	0.78	31.5	235	1.3	47.11	IE4	**BG30-../S4E08MA4**	3.1	10.5	21	31.5	38	235	235	235	235	235	23	6000	-
5	0.78	28.5	260	1.1	52.44	IE4	**BG30-../S4E08MA4**	2.8	9.5	19	28.5	34	260	260	260	260	260	23	6000	-
5	0.78	25.5	290	1	58.18	IE4	**BG30-../S4E08MA4**	2.5	8.5	17	25.5	30.5	290	290	290	290	290	23	6000	-
5	0.78	24.5	300	0.99	60.79	IE4	**BG30-../S4E08MA4**	2.4	8.2	16	24.5	29.5	300	300	300	300	300	23	6000	-
5	0.78	22	335	0.89	67.44	IE4	**BG30-../S4E08MA4**	2.2	7.4	14.5	22	26.5	335	335	335	335	335	23	6000	-
5	0.78	22.5	325	0.81	65.79	IE4	**BG30Z-../S4E08MA4**	2.2	7.5	15	22.5	27	325	325	325	325	325	26	6000	-
5	0.78	20	365	0.82	73.51	IE4	**BG30Z-../S4E08MA4**	2	6.8	13.5	20	24	365	365	365	365	365	26	6000	-
5	0.78	51	146	2.9	29.34	IE4	**BG40-../S4E08MA4**	5.1	17	34	51	61	146	146	146	146	146	38	6800	-
5	0.78	46	162	2.6	32.57	IE4	**BG40-../S4E08MA4**	4.6	15	30.5	46	55	162	162	162	162	162	38	7000	-
5	0.78	43.5	171	2.5	34.2	IE4	**BG40-../S4E08MA4**	4.3	14.5	29	43.5	52	171	171	171	171	171	38	7000	-
5	0.78	39.5	189	2.2	37.96	IE4	**BG40-../S4E08MA4**	3.9	13	26	39.5	47	189	189	189	189	189	38	7000	-
5	0.78	37	200	2.1	40.19	IE4	**BG40-../S4E08MA4**	3.7	12	24.5	37	44.5	200	200	200	200	200	38	7000	-
5	0.78	33.5	220	1.9	44.62	IE4	**BG40-../S4E08MA4**	3.3	11	22	33.5	40	220	220	220	220	220	38	7000	-
5	0.78	31	240	1.8	48.36	IE4	**BG40-../S4E08MA4**	3.1	10	20.5	31	37	240	240	240	240	240	38	7000	-
5	0.78	27.5	265	1.6	53.69	IE4	**BG40-../S4E08MA4**	2.7	9.3	18.5	27.5	33.5	265	265	265	265	265	38	7000	-
5	0.78	25	295	1.4	59.64	IE4	**BG40-../S4E08MA4**	2.5	8.3	16.5	25	30	295	295	295	295	295	38	7000	-
5	0.78	22.5	330	1.3	66.2	IE4	**BG40-../S4E08MA4**	2.2	7.5	15	22.5	27	330	330	330	330	330	38	7000	-
5	0.78	22	335	1.3	67.74	IE4	**BG40Z-../S4E08MA4**	2.2	7.3	14.5	22	26.5	335	335	335	335	335	42	7000	-
5	0.78	19.5	375	1.1	75.19	IE4	**BG40Z-../S4E08MA4**	1.9	6.6	13	19.5	23.5	375	375	375	375	375	42	7000	-
5	0.78	18	410	1	82	IE4	**BG40Z-../S4E08MA4**	1.8	6	12	18	21.5	410	410	410	410	410	42	7000	-
5	0.78	16	455	0.93	91.02	IE4	**BG40Z-../S4E08MA4**	1.6	5.4	10.5	16	19.5	455	455	455	455	455	42	7000	-
5	0.78	15	480	0.88	96.86	IE4	**BG40Z-../S4E08MA4**	1.5	5.1	10	15	18.5	480	480	480	480	480	42	7000	-
5	0.78	35.5	210	3	42	IE4	**BG50-../S4E08MA4**	3.5	11.5	23.5	35.5	42.5	210	210	210	210	210	46	10000	-
5	0.78	31.5	235	2.7	47.02	IE4	**BG50-../S4E08MA4**	3.1	10.5	21	31.5	38	235	235	235	235	235	46	10000	-
5	0.78	28.5	260	2.4	52.12	IE4	**BG50-../S4E08MA4**	2.8	9.5	19	28.5	34.5	260	260	260	260	260	46	10000	-
5	0.78	25	295	2.1	59.42	IE4	**BG50-../S4E08MA4**	2.5	8.4	16.5	25	30	295	295	295	295	295	46	10000	-
5	0.78	22.5	325	1.9	65.86	IE4	**BG50-../S4E08MA4**	2.2	7.5	15	22.5	27	325	325	325	325	325	46	10000	-
5	0.78	20.5	355	1.8	71.97	IE4	**BG50Z-../S4E08MA4**	2	6.9	13.5	20.5	25	355	355	355	355	355	51	10000	-
5	0.78	18.5	395	1.6	79.78	IE4	**BG50Z-../S4E08MA4**	1.8	6.2	12.5	18.5	22.5	395	395	395	395	395	51	10000	-
5	0.78	15.5	475	1.3	95.58	IE4	**BG50Z-../S4E08MA4**	1.5	5.2	10	15.5	18.5	475	475	475	475	475	51	10000	-
5	0.78	14	530	1.2	106	IE4	**BG50Z-../S4E08MA4**	1.4	4.7	9.4	14	16.5	530	530	530	530	530	51	10000	-
5	0.78	11.5	640	0.98	128.9	IE4	**BG50Z-../S4E08MA4**	1.1	3.8	7.7	11.5	13.5	640	640	640	640	640	51	10000	-
5	0.78	10	710	0.88	142.9	IE4	**BG50Z-../S4E08MA4**	1	3.4	6.9	10	12.5	710	710	710	710	710	51	10000	-
5	0.78	16	455	2.6	91.09	IE4	**BG60Z-../S4E08MA4**	1.6	5.4	10.5	16	19.5	455	455	455	455	455	96	16000	-
5	0.78	14.5	500	2.4	101	IE4	**BG60Z-../S4E08MA4**	1.4	4.9	9.9	14.5	17.5	500	500	500	500	500	96	16000	-
5	0.78	12.5	590	2	119.2	IE4	**BG60Z-../S4E08MA4**	1.2	4.1	8.3	12.5	15	590	590	590	590	590	96	16000	-
5	0.78	11	660	1.8	132.1	IE4	**BG60Z-../S4E08MA4**	1.1	3.7	7.5	11	13.5	660	660	660	660	660	96	16000	-
5	0.78	9.4	790	1.5	158	IE4	**BG60Z-../S4E08MA4**	0.9	3.1	6.3	9.4	11	790	790	790	790	790	96	16000	-
5	0.78	8.5	870	1.4	175.1	IE4	**BG60Z-../S4E08MA4**	0.85	2.8	5.7	8.5	10	870	870	870	870	870	96	16000	-
5	0.78	7.3	1020	1.2	204.6	IE4	**BG60Z-../S4E08MA4**	0.7	2.4	4.8	7.3	8.7	1020	1020	1020	1020	1020	96	16000	-
5	0.78	6.6	1130	1.1	226.7	IE4	**BG60Z-../S4E08MA4**	0.65	2.2	4.4	6.6	7.9	1130	1130	1130	1130	1130	96	16000	-
5	0.78	6	1230	0.97	247.7	IE4	**BG60Z-../S4E08MA4**	0.6	2	4	6	7.2	1230	1230	1230	1230	1230	96	16000	-
5	0.78	5.4	1370	0.87	274.5	IE4	**BG60Z-../S4E08MA4**	0.5	1.8	3.6	5.4	6.5	1370	1370	1370	1370	1370	96	16000	-
5	0.78	5.4	1380	0.94	276.2	IE4	**BG60G20-../S4E08MA4**	0.5	1.8	3.6	5.4	6.5	1380	1380	1380	1380	1380	103	16000	-
5	0.78	4.9	1530	0.85	306.1	IE4	**BG60G20-../S4E08MA4**	0.49	1.6	3.2	4.9	5.8	1530	1530	1530	1530	1530	103	16000	-
5	0.78	9.1	810	2.8	163.8	IE4	**BG70Z-../S4E08MA4**	0.9	3	6.1	9.1	10.5	810	810	810	810	810	136	20000	-
5	0.78	7.7	970	2.4	194.4	IE4	**BG70Z-../S4E08MA4**	0.75	2.5	5.1	7.7	9.2	970	970	970	970	970	136	20000	-
5	0.78	7.1	1050	2.2	210.5	IE4	**BG70Z-../S4E08MA4**	0.7	2.3	4.7	7.1	8.5	1050	1050	1050	1050	1050	136	20000	-
5	0.78	6	1240	1.8	249.8	IE4	**BG70Z-../S4E08MA4**	0.6	2	4	6	7.2	1240	1240	1240	1240	1240	136	20000	-
5	0.78	5.8	1270	2	255.5	IE4	**BG70G20-../S4E08MA4**	0.55	1.9	3.9	5.8	7	1270	1270	1270	1270	1270	133	20000	-

MN = 5 Nm (PN = 0.78 kW)



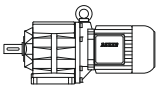
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
5	0.78	5.4	1380	1.8	276.7	IE4	**BG70G20-../S4E08MA4**	0.5	1.8	3.6	5.4	6.5	1380	1380	1380	1380	1380	133	20000	-
5	0.78	4.5	1640	1.5	328.4	IE4	**BG70G20-../S4E08MA4**	0.45	1.5	3	4.5	5.4	1640	1640	1640	1640	1640	133	20000	-
5	0.78	3.8	1930	1.3	387.6	IE4	**BG70G20-../S4E08MA4**	0.38	1.2	2.5	3.8	4.6	1930	1930	1930	1930	1930	133	20000	-
5	0.78	3.5	2050	1.2	417.8	IE4	**BG70G20-../S4E08MA4**	0.35	1.1	2.3	3.5	4.3	2050	2050	2050	2050	2050	133	20000	-
5	0.78	3	2450	1	495.9	IE4	**BG70G20-../S4E08MA4**	0.3	1	2	3	3.6	2450	2450	2450	2450	2450	133	20000	-
5	0.78	2.5	2850	0.87	577.3	IE4	**BG70G20-../S4E08MA4**	0.25	0.85	1.7	2.5	3.1	2850	2850	2850	2850	2850	133	20000	-
5	0.78	4.7	1570	2.9	314	IE4	**BG80G40-../S4E08MA4**	0.47	1.5	3.1	4.7	5.7	1570	1570	1570	1570	1570	215	26000	-
5	0.78	4.1	1800	2.6	360	IE4	**BG80G40-../S4E08MA4**	0.41	1.3	2.7	4.1	5	1800	1800	1800	1800	1800	215	26000	-
5	0.78	3.7	1990	2.3	399.8	IE4	**BG80G40-../S4E08MA4**	0.37	1.2	2.5	3.7	4.5	1990	1990	1990	1990	1990	215	26000	-
5	0.78	3.4	2150	2.1	436.2	IE4	**BG80G40-../S4E08MA4**	0.34	1.1	2.2	3.4	4.1	2150	2150	2150	2150	2150	215	26000	-
5	0.78	3	2400	1.9	484.3	IE4	**BG80G40-../S4E08MA4**	0.3	1	2	3	3.7	2400	2400	2400	2400	2400	215	26000	-
5	0.78	2.6	2850	1.6	572	IE4	**BG80G40-../S4E08MA4**	0.26	0.85	1.7	2.6	3.1	2850	2850	2850	2850	2850	215	26000	-
5	0.78	2.2	3250	1.4	657.8	IE4	**BG80G40-../S4E08MA4**	0.22	0.75	1.5	2.2	2.7	3250	3250	3250	3250	3250	215	26000	-
5	0.78	2	3650	1.3	730.3	IE4	**BG80G40-../S4E08MA4**	0.2	0.65	1.3	2	2.4	3650	3650	3650	3650	3650	215	26000	-
5	0.78	1.8	4050	1.1	817.4	IE4	**BG80G40-../S4E08MA4**	0.18	0.6	1.2	1.8	2.2	4050	4050	4050	4050	4050	215	26000	-
5	0.78	1.6	4500	1	907.6	IE4	**BG80G40-../S4E08MA4**	0.16	0.55	1.1	1.6	1.9	4500	4500	4500	4500	4500	215	26000	-
5	0.78	1.4	5200	0.88	1042	IE4	**BG80G40-../S4E08MA4**	0.14	0.47	0.95	1.4	1.7	5200	5200	5200	5200	5200	215	26000	-
5	0.78	2.3	3200	2.9	644.7	IE4	**BG90G50-../S4E08MA4**	0.23	0.75	1.5	2.3	2.7	3200	3200	3200	3200	3200	324	65000	-
5	0.78	2.1	3550	2.6	714.2	IE4	**BG90G50-../S4E08MA4**	0.21	0.7	1.4	2.1	2.5	3550	3550	3550	3550	3550	324	65000	-
5	0.78	1.6	4400	2.1	883.7	IE4	**BG90G50-../S4E08MA4**	0.16	0.55	1.1	1.6	2	4400	4400	4400	4400	4400	324	65000	-
5	0.78	1.2	5800	1.6	1174	IE4	**BG90G50-../S4E08MA4**	0.12	0.42	0.85	1.2	1.5	5800	5800	5800	5800	5800	324	65000	-
5	0.78	1.1	6500	1.4	1301	IE4	**BG90G50-../S4E08MA4**	0.11	0.38	0.75	1.1	1.3	6500	6500	6500	6500	6500	324	65000	-
5	0.78	0.9	7900	1.2	1583	IE4	**BG90G50-../S4E08MA4**	0.09	0.31	0.6	0.9	1.1	7900	7900	7900	7900	7900	324	65000	-
5	0.78	0.85	8700	1	1756	IE4	**BG90G50-../S4E08MA4**	0.085	0.28	0.55	0.85	1	8700	8700	8700	8700	8700	324	65000	-
5	0.78	0.7	10100	0.91	2026	IE4	**BG90G50-../S4E08MA4**	0.07	0.24	0.49	0.7	0.85	10100	10100	10100	10100	10100	324	65000	-
5	0.78	1	7200	2.6	1444	IE4	**BG100G50-../S4E08MA4**	0.1	0.34	0.65	1	1.2	7200	7200	7200	7200	7200	512	90000	-
5	0.78	0.85	8300	2.2	1678	IE4	**BG100G50-../S4E08MA4**	0.085	0.29	0.55	0.85	1	8300	8300	8300	8300	8300	512	90000	-
5	0.78	0.8	9300	2	1867	IE4	**BG100G50-../S4E08MA4**	0.08	0.26	0.5	0.8	0.95	9300	9300	9300	9300	9300	512	90000	-
5	0.78	0.65	10700	1.7	2154	IE4	**BG100G50-../S4E08MA4**	0.065	0.23	0.46	0.65	0.8	10700	10700	10700	10700	10700	512	90000	-
5	0.78	0.55	13200	1.4	2656	IE4	**BG100G50-../S4E08MA4**	0.055	0.18	0.37	0.55	0.65	13200	13200	13200	13200	13200	512	90000	-
5	0.78	0.5	14700	1.3	2952	IE4	**BG100G50-../S4E08MA4**	0.05	0.16	0.33	0.5	0.6	14700	14700	14700	14700	14700	512	90000	-
5	0.78	0.45	16400	1.1	3286	IE4	**BG100G50-../S4E08MA4**	0.045	0.15	0.3	0.45	0.5	16400	16400	16400	16400	16400	512	90000	-
5	0.78	0.41	18200	1	3644	IE4	**BG100G50-../S4E08MA4**	0.041	0.13	0.27	0.41	0.49	18200	18200	18200	18200	18200	512	90000	-
5	0.78	0.34	21500	0.85	4366	IE4	**BG100G50-../S4E08MA4**	0.034	0.11	0.22	0.34	0.41	21500	21500	21500	21500	21500	512	90000	-

MN = 7 Nm (PN = 1.1 kW)



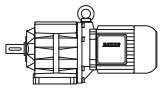
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
7	1.1	530	19.7	0.91	2.82	IE3	**BG06-../SPE08LA4**	53	177	350	530	630	18.3	19.7	19.7	19.7	19.7	18	470	-
7	1.1	435	23.5	2.6	3.42	IE3	**BG10-../SPE08LA4**	43.5	146	290	435	520	22	23.5	23.5	23.5	23.5	18	630	880
7	1.1	340	30.5	2.2	4.36	IE3	**BG10-../SPE08LA4**	34	114	225	340	410	28	30.5	30.5	30.5	30.5	18	650	910
7	1.1	280	37	2	5.34	IE3	**BG10-../SPE08LA4**	28	93	187	280	335	34.5	37	37	37	37	18	620	910
7	1.1	220	47	1.7	6.78	IE3	**BG10-../SPE08LA4**	22	73	147	220	265	44	47	47	47	47	18	660	920
7	1.1	215	48	1.8	6.89	IE3	**BG10-../SPE08LA4**	21.5	72	145	215	260	44.5	48	48	48	48	18	850	1200
7	1.1	196	53	1.7	7.63	IE3	**BG10-../SPE08LA4**	19.5	65	131	196	235	49.5	53	53	53	53	18	900	1250
7	1.1	185	56	1.6	8.07	IE3	**BG10-../SPE08LA4**	18.5	61	123	185	220	52	56	56	56	56	18	660	920
7	1.1	160	65	1.5	9.33	IE3	**BG10-../SPE08LA4**	16	53	107	160	192	60	65	65	65	65	18	950	1330
7	1.1	145	72	1.4	10.34	IE3	**BG10-../SPE08LA4**	14.5	48	96	145	174	67	72	72	72	72	18	1000	1400
7	1.1	125	83	1.3	11.92	IE3	**BG10-../SPE08LA4**	12.5	41.5	83	125	151	77	83	83	83	83	18	1030	1440
7	1.1	113	92	1.2	13.21	IE3	**BG10-../SPE08LA4**	11	37.5	75	113	136	85	92	92	92	92	18	1070	1490
7	1.1	102	102	1.1	14.58	IE3	**BG10-../SPE08LA4**	10	34	68	102	123	94	102	102	102	102	18	1100	1540
7	1.1	92	113	1	16.15	IE3	**BG10-../SPE08LA4**	9.2	30.5	61	92	111	104	113	113	113	113	18	1140	1590
7	1.1	81	129	0.93	18.51	IE3	**BG10-../SPE08LA4**	8.1	27	54	81	97	120	129	129	129	129	18	1210	1690
7	1.1	73	143	0.84	20.51	IE3	**BG10-../SPE08LA4**	7.3	24	48.5	73	87	133	143	143	143	143	18	1290	1800
7	1.1	270	38	3	5.49	IE3	**BG20-../SPE08LA4**	27	91	182	270	325	35.5	38	38	38	38	20	2100	-
7	1.1	245	42	2.9	6.06	IE3	**BG20-../SPE08LA4**	24.5	82	165	245	295	39	42	42	42	42	20	2250	-
7	1.1	230	45	2.7	6.48	IE3	**BG20-../SPE08LA4**	23	77	154	230	275	42	45	45	45	45	20	2250	-
7	1.1	220	47	2.8	6.73	IE3	**BG20-../SPE08LA4**	22	74	148	220	265	43.5	47	47	47	47	20	2350	2100
7	1.1	187	56	2.4	8.02	IE3	**BG20-../SPE08LA4**	18.5	62	124	187	220	52	56	56	56	56	20	2500	-
7	1.1	180	58	2.1	8.29	IE3	**BG20-../SPE08LA4**	18	60	120	180	215	53	58	58	58	58	20	2250	-
7	1.1	168	62	2.3	8.91	IE3	**BG20-../SPE08LA4**	16.5	56	112	168	200	57	62	62	62	62	20	2600	-
7	1.1	155	67	1.8	9.65	IE3	**BG20-../SPE08LA4**	15.5	51	103	155	186	62	67	67	67	67	20	2250	-
7	1.1	142	73	2.1	10.54	IE3	**BG20-../SPE08LA4**	14	47	94	142	170	68	73	73	73	73	20	2700	-
7	1.1	128	81	1.9	11.71	IE3	**BG20-../SPE08LA4**	12.5	42.5	85	128	153	76	81	81	81	81	20	2800	-
7	1.1	113	92	1.8	13.21	IE3	**BG20-../SPE08LA4**	11	37.5	75	113	136	85	92	92	92	92	20	2900	-
7	1.1	102	102	1.7	14.67	IE3	**BG20-../SPE08LA4**	10	34	68	102	122	95	102	102	102	102	20	3050	-
7	1.1	96	109	1.6	15.58	IE3	**BG20-../SPE08LA4**	9.6	32	64	96	115	101	109	109	109	109	20	3100	-
7	1.1	86	121	1.5	17.31	IE3	**BG20-../SPE08LA4**	8.6	28.5	57	86	103	112	121	121	121	121	20	3200	-
7	1.1	75	139	1.4	19.95	IE3	**BG20-../SPE08LA4**	7.5	25	50	75	90	129	139	139	139	139	20	3350	-
7	1.1	67	155	1.3	22.16	IE3	**BG20-../SPE08LA4**	6.7	22.5	45	67	81	144	155	155	155	155	20	3500	-
7	1.1	64	162	1.2	23.22	IE3	**BG20-../SPE08LA4**	6.4	21.5	43	64	77	150	162	162	162	162	20	3550	-

MN = 7 Nm (PN = 1.1 kW)



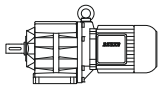
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
7	1.1	58	180	1.1	25.79	IE3	**BG20-../SPE08LA4**	5.8	19	38.5	58	69	167	180	180	180	180	20	3700	-
7	1.1	53	194	1	27.85	IE3	**BG20-../SPE08LA4**	5.3	17.5	35.5	53	64	181	194	194	194	194	20	3800	-
7	1.1	48	215	0.92	30.94	IE3	**BG20-../SPE08LA4**	4.8	16	32	48	58	200	215	215	215	215	20	4000	-
7	1.1	45	230	0.86	33.33	IE3	**BG20-../SPE08LA4**	4.5	15	30	45	54	215	230	230	230	230	20	4100	-
7	1.1	108	96	3	13.77	IE3	**BG30-../SPE08LA4**	10.5	36	72	108	130	89	96	96	96	96	25	3150	-
7	1.1	98	106	2.8	15.27	IE3	**BG30-../SPE08LA4**	9.8	32.5	65	98	117	99	106	106	106	106	25	3450	-
7	1.1	87	119	2.5	17.06	IE3	**BG30-../SPE08LA4**	8.7	29	58	87	105	110	119	119	119	119	25	3700	-
7	1.1	79	132	2.3	18.93	IE3	**BG30-../SPE08LA4**	7.9	26	52	79	95	123	132	132	132	132	25	4100	-
7	1.1	75	139	2.1	19.99	IE3	**BG30-../SPE08LA4**	7.5	25	50	75	90	129	139	139	139	139	25	4200	-
7	1.1	67	155	1.9	22.18	IE3	**BG30-../SPE08LA4**	6.7	22.5	45	67	81	144	155	155	155	155	25	4600	-
7	1.1	58	178	1.7	25.45	IE3	**BG30-../SPE08LA4**	5.8	19.5	39	58	70	165	178	178	178	178	25	4850	-
7	1.1	53	197	1.5	28.24	IE3	**BG30-../SPE08LA4**	5.3	17.5	35	53	63	183	197	197	197	197	25	5100	-
7	1.1	50	205	1.4	29.83	IE3	**BG30-../SPE08LA4**	5	16.5	33.5	50	60	193	205	205	205	205	25	5200	-
7	1.1	45	230	1.3	33.09	IE3	**BG30-../SPE08LA4**	4.5	15	30	45	54	215	230	230	230	230	25	5400	-
7	1.1	42.5	245	1.2	35.17	IE3	**BG30-../SPE08LA4**	4.2	14	28	42.5	51	225	245	245	245	245	25	5500	-
7	1.1	38	270	1.1	39.02	IE3	**BG30-../SPE08LA4**	3.8	12.5	25.5	38	46	250	270	270	270	270	25	5800	-
7	1.1	35	295	1	42.46	IE3	**BG30-../SPE08LA4**	3.5	11.5	23.5	35	42	275	295	295	295	295	25	5900	-
7	1.1	31.5	325	0.91	47.11	IE3	**BG30-../SPE08LA4**	3.1	10.5	21	31.5	38	305	325	325	325	325	25	6000	-
7	1.1	28.5	365	0.82	52.44	IE3	**BG30-../SPE08LA4**	2.8	9.5	19	28.5	34	340	365	365	365	365	25	6000	-
7	1.1	68	154	2.8	22.02	IE3	**BG40-../SPE08LA4**	6.8	22.5	45	68	81	143	154	154	154	154	40	6000	-
7	1.1	64	164	2.6	23.43	IE3	**BG40-../SPE08LA4**	6.4	21	42.5	64	76	152	164	164	164	164	40	6200	-
7	1.1	57	182	2.3	26.01	IE3	**BG40-../SPE08LA4**	5.7	19	38	57	69	169	182	182	182	182	40	6500	-
7	1.1	51	205	2.1	29.34	IE3	**BG40-../SPE08LA4**	5.1	17	34	51	61	190	205	205	205	205	40	6800	-
7	1.1	46	225	1.9	32.57	IE3	**BG40-../SPE08LA4**	4.6	15	30.5	46	55	210	225	225	225	225	40	7000	-
7	1.1	43.5	235	1.8	34.2	IE3	**BG40-../SPE08LA4**	4.3	14.5	29	43.5	52	220	235	235	235	235	40	7000	-
7	1.1	39.5	265	1.6	37.96	IE3	**BG40-../SPE08LA4**	3.9	13	26	39.5	47	245	265	265	265	265	40	7000	-
7	1.1	37	280	1.5	40.19	IE3	**BG40-../SPE08LA4**	3.7	12	24.5	37	44.5	260	280	280	280	280	40	7000	-
7	1.1	33.5	310	1.4	44.62	IE3	**BG40-../SPE08LA4**	3.3	11	22	33.5	40	290	310	310	310	310	40	7000	-
7	1.1	31	335	1.3	48.36	IE3	**BG40-../SPE08LA4**	3.1	10	20.5	31	37	310	335	335	335	335	40	7000	-
7	1.1	27.5	375	1.1	53.69	IE3	**BG40-../SPE08LA4**	2.7	9.3	18.5	27.5	33.5	345	375	375	375	375	40	7000	-
7	1.1	25	415	1	59.64	IE3	**BG40-../SPE08LA4**	2.5	8.3	16.5	25	30	385	415	415	415	415	40	7000	-
7	1.1	22.5	460	0.92	66.2	IE3	**BG40-../SPE08LA4**	2.2	7.5	15	22.5	27	430	460	460	460	460	40	7000	-
7	1.1	22	470	0.9	67.74	IE3	**BG40Z-../SPE08LA4**	2.2	7.3	14.5	22	26.5	440	470	470	470	470	43	7000	-
7	1.1	19.5	520	0.81	75.19	IE3	**BG40Z-../SPE08LA4**	1.9	6.6	13	19.5	23.5	485	520	520	520	520	43	7000	-
7	1.1	50	205	3	29.62	IE3	**BG50-../SPE08LA4**	5	16.5	33.5	50	60	192	205	205	205	205	48	8000	-
7	1.1	45.5	225	2.7	32.84	IE3	**BG50-../SPE08LA4**	4.5	15	30	45.5	54	210	225	225	225	225	48	8700	-
7	1.1	39.5	265	2.4	37.89	IE3	**BG50-../SPE08LA4**	3.9	13	26	39.5	47.5	245	265	265	265	265	48	10000	-
7	1.1	35.5	290	2.1	42	IE3	**BG50-../SPE08LA4**	3.5	11.5	23.5	35.5	42.5	270	290	290	290	290	48	10000	-
7	1.1	31.5	325	1.9	47.02	IE3	**BG50-../SPE08LA4**	3.1	10.5	21	31.5	38	305	325	325	325	325	48	10000	-
7	1.1	28.5	360	1.7	52.12	IE3	**BG50-../SPE08LA4**	2.8	9.5	19	28.5	34.5	335	360	360	360	360	48	10000	-
7	1.1	25	415	1.5	59.42	IE3	**BG50-../SPE08LA4**	2.5	8.4	16.5	25	30	385	415	415	415	415	48	10000	-
7	1.1	22.5	460	1.4	65.86	IE3	**BG50-../SPE08LA4**	2.2	7.5	15	22.5	27	425	460	460	460	460	48	10000	-
7	1.1	20.5	500	1.3	71.97	IE3	**BG50Z-../SPE08LA4**	2	6.9	13.5	20.5	25	465	500	500	500	500	52	10000	-
7	1.1	18.5	550	1.1	79.78	IE3	**BG50Z-../SPE08LA4**	1.8	6.2	12.5	18.5	22.5	510	550	550	550	550	52	10000	-
7	1.1	15.5	660	0.94	95.58	IE3	**BG50Z-../SPE08LA4**	1.5	5.2	10	15.5	18.5	620	660	660	660	660	52	10000	-
7	1.1	14	740	0.85	106	IE3	**BG50Z-../SPE08LA4**	1.4	4.7	9.4	14	16.5	680	740	740	740	740	52	10000	-
7	1.1	21.5	475	2.5	68.32	IE3	**BG60Z-../SPE08LA4**	2.1	7.3	14.5	21.5	26	440	475	475	475	475	97	16000	-
7	1.1	19.5	520	2.3	75.71	IE3	**BG60Z-../SPE08LA4**	1.9	6.6	13	19.5	23.5	490	520	520	520	520	97	16000	-
7	1.1	16	630	1.9	91.09	IE3	**BG60Z-../SPE08LA4**	1.6	5.4	10.5	16	19.5	590	630	630	630	630	97	16000	-
7	1.1	14.5	700	1.7	101	IE3	**BG60Z-../SPE08LA4**	1.4	4.9	9.9	14.5	17.5	650	700	700	700	700	97	16000	-
7	1.1	12.5	830	1.4	119.2	IE3	**BG60Z-../SPE08LA4**	1.2	4.1	8.3	12.5	15	770	830	830	830	830	97	16000	-
7	1.1	11	920	1.3	132.1	IE3	**BG60Z-../SPE08LA4**	1.1	3.7	7.5	11	13.5	850	920	920	920	920	97	16000	-
7	1.1	9.4	1100	1.1	158	IE3	**BG60Z-../SPE08LA4**	0.9	3.1	6.3	9.4	11	1020	1100	1100	1100	1100	97	16000	-
7	1.1	8.5	1220	0.98	175.1	IE3	**BG60Z-../SPE08LA4**	0.85	2.8	5.7	8.5	10	1130	1220	1220	1220	1220	97	16000	-
7	1.1	7.3	1430	0.84	204.6	IE3	**BG60Z-../SPE08LA4**	0.7	2.4	4.8	7.3	8.7	1320	1430	1430	1430	1430	97	16000	-
7	1.1	13	790	2.9	113.6	IE3	**BG70Z-../SPE08LA4**	1.3	4.4	8.8	13	15.5	730	790	790	790	790	137	20000	-
7	1.1	12	860	2.6	124	IE3	**BG70Z-../SPE08LA4**	1.2	4	8	12	14.5	800	860	860	860	860	137	20000	-
7	1.1	10	1030	2.2	147.2	IE3	**BG70Z-../SPE08LA4**	1	3.3	6.7	10	12	950	1030	1030	1030	1030	137	20000	-
7	1.1	9.1	1140	2	163.8	IE3	**BG70Z-../SPE08LA4**	0.9	3	6.1	9.1	10.5	1060	1140	1140	1140	1140	137	20000	-
7	1.1	7.7	1360	1.7	194.4	IE3	**BG70Z-../SPE08LA4**	0.75	2.5	5.1	7.7	9.2	1260	1360	1360	1360	1360	137	20000	-
7	1.1	7.1	1470	1.6	210.5	IE3	**BG70Z-../SPE08LA4**	0.7	2.3	4.7	7.1	8.5	1360	1470	1470	1470	1470	137	20000	-
7	1.1	6	1740	1.3	249.8	IE3	**BG70Z-../SPE08LA4**	0.6	2	4	6	7.2	1620	1740	1740	1740	1740	137	20000	-
7	1.1	5.8	1780	1.4	255.5	IE3	**BG70G20-../SPE08LA4**	0.55	1.9	3.9	5.8	7	1660	1780	1780	1780	1780	135	20000	-
7	1.1	5.4	1930	1.3	276.7	IE3	**BG70G20-../SPE08LA4**	0.5	1.8	3.6	5.4	6.5	1790	1930	1930	1930	1930	135	20000	-
7	1.1	4.5	2250	1.1	328.4	IE3	**BG70G20-../SPE08LA4**	0.45	1.5	3	4.5	5.4	2100	2250	2250	2250	2250	135	20000	-
7	1.1	3.8	2700	0.92	387.6	IE3	**BG70G20-../SPE08LA4**	0.38	1.2	2.5	3.8	4.6	2500	2700	2700	2700	2700	135	20000	-
7	1.1	3.5	2900	0.85	417.8	IE3	**BG70G20-../SPE08LA4**	0.35	1.1	2.3	3.5	4.3	2700	2900	2900	2900	2900	135	20000	-
7	1.1	6.6	1590	2.9	227.2	IE3	**BG80G40-../SPE08LA4**	0.65	2.2	4.4	6.6	7.9	1470	1590	1590	1590	1590	216	26000	-
7	1.1	5.9	1760	2.6	252.3	IE3	**BG80G40-../SPE08LA4**	0.55	1.9	3.9	5.9	7.1	1630	1760	1760	1760	1760	216	26000	-
7	1.1	5.3	1970	2.3	282.8	IE3	**BG80G40-../SPE08LA4**	0.5	1.7	3.5	5.3	6.3	1830	1970	1970	1970	1970	216	26000	-
7	1.1	4.7	2150	2.1	314	IE3	**BG80G40-../SPE08LA4**	0.47	1.5	3.1	4.7	5.7	2000	2150	2150	2150	2150	216	26000	-
7	1.1	4.1	2500	1.8	360	IE3	**BG80G40-../SPE08LA4**	0.41	1.3	2.7	4.1	5	2300	2500	2500	2500	2500	216	26000	-
7	1.1	3.7	2750	1.6	399.8	IE3	**BG80G40-../SPE08LA4**	0.37	1.2	2.5	3.7	4.5	2550	2750	2750	2750	2750	216	26000	-
7	1.1	3.4	3050	1.5	436.2	IE3	**BG80G40-../SPE08LA4**	0.34	1.1	2.2	3.4	4.1	2800	3050	3050	3050	3050	216	26000	-
7	1.1	3	3350	1.4	484.3	IE3	**BG80G40-../SPE08LA4**	0.3	1	2	3	3.7	3100	3350	3350	3350	3350	216	26000	-
7	1.1	2.6	4000	1.1	572	IE3	**BG80G40-../SPE08LA4**	0.26	0.85	1.7	2.6	3.1	3700	4000	4000	4000	4000	216	26000	-

MN = 7 Nm (PN = 1.1 kW)



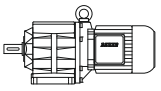
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
7	1.1	2.2	4600	1	657.8	IE3	**BG80G40-../SPE08LA4**	0.22	0.75	1.5	2.2	2.7	4250	4600	4600	4600	4600	216	26000	-
7	1.1	2	5100	0.9	730.3	IE3	**BG80G40-../SPE08LA4**	0.2	0.65	1.3	2	2.4	4700	5100	5100	5100	5100	216	26000	-
7	1.1	1.8	5700	0.8	817.4	IE3	**BG80G40-../SPE08LA4**	0.18	0.6	1.2	1.8	2.2	5300	5700	5700	5700	5700	216	26000	-
7	1.1	3.4	3050	3	435.8	IE3	**BG90G50-../SPE08LA4**	0.34	1.1	2.2	3.4	4.1	2800	3050	3050	3050	3050	326	65000	-
7	1.1	2.9	3500	2.6	504.7	IE3	**BG90G50-../SPE08LA4**	0.29	0.95	1.9	2.9	3.5	3250	3500	3500	3500	3500	326	65000	-
7	1.1	2.5	4100	2.2	588.8	IE3	**BG90G50-../SPE08LA4**	0.25	0.8	1.6	2.5	3	3800	4100	4100	4100	4100	326	65000	-
7	1.1	2.3	4500	2	644.7	IE3	**BG90G50-../SPE08LA4**	0.23	0.75	1.5	2.3	2.7	4150	4500	4500	4500	4500	326	65000	-
7	1.1	2.1	4950	1.8	714.2	IE3	**BG90G50-../SPE08LA4**	0.21	0.7	1.4	2.1	2.5	4600	4950	4950	4950	4950	326	65000	-
7	1.1	1.6	6100	1.5	883.7	IE3	**BG90G50-../SPE08LA4**	0.16	0.55	1.1	1.6	2	5700	6100	6100	6100	6100	326	65000	-
7	1.1	1.2	8200	1.1	1174	IE3	**BG90G50-../SPE08LA4**	0.12	0.42	0.85	1.2	1.5	7600	8200	8200	8200	8200	326	65000	-
7	1.1	1.1	9100	1	1301	IE3	**BG90G50-../SPE08LA4**	0.11	0.38	0.75	1.1	1.3	8400	9100	9100	9100	9100	326	65000	-
7	1.1	0.9	11000	0.83	1583	IE3	**BG90G50-../SPE08LA4**	0.09	0.31	0.6	0.9	1.1	10200	11000	11000	11000	11000	326	65000	-
7	1.1	1.5	6800	2.7	976.1	IE3	**BG100G50-../SPE08LA4**	0.15	0.5	1	1.5	1.8	6300	6800	6800	6800	6800	513	90000	-
7	1.1	1.4	7300	2.5	1043	IE3	**BG100G50-../SPE08LA4**	0.14	0.47	0.95	1.4	1.7	6700	7300	7300	7300	7300	513	90000	-
7	1.1	1.2	8400	2.2	1204	IE3	**BG100G50-../SPE08LA4**	0.12	0.41	0.8	1.2	1.4	7800	8400	8400	8400	8400	513	90000	-
7	1.1	1	10100	1.8	1444	IE3	**BG100G50-../SPE08LA4**	0.1	0.34	0.65	1	1.2	9300	10100	10100	10100	10100	513	90000	-
7	1.1	0.85	11700	1.6	1678	IE3	**BG100G50-../SPE08LA4**	0.085	0.29	0.55	0.85	1	10900	11700	11700	11700	11700	513	90000	-
7	1.1	0.8	13000	1.4	1867	IE3	**BG100G50-../SPE08LA4**	0.08	0.26	0.5	0.8	0.95	12100	13000	13000	13000	13000	513	90000	-
7	1.1	0.65	15000	1.2	2154	IE3	**BG100G50-../SPE08LA4**	0.065	0.23	0.46	0.65	0.8	14000	15000	15000	15000	15000	513	90000	-
7	1.1	0.55	18500	1	2656	IE3	**BG100G50-../SPE08LA4**	0.055	0.18	0.37	0.55	0.65	17200	18500	18500	18500	18500	513	90000	-
7	1.1	0.5	20500	0.9	2952	IE3	**BG100G50-../SPE08LA4**	0.05	0.16	0.33	0.5	0.6	19100	20500	20500	20500	20500	513	90000	-
7	1.1	0.45	23000	0.8	3286	IE3	**BG100G50-../SPE08LA4**	0.045	0.15	0.3	0.45	0.5	21000	23000	23000	23000	23000	513	90000	-

MN = 10 Nm (PN = 1.55 kW)



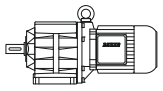
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
10	1.55	590	25	2.2	2.52	IE1	**BG10-../SSE08LA4**	59	198	395	590	710	16.3	20	25	25	25	18	570	790
10	1.55	590	25	2.2	2.52	IE4	**BG10-../S4E09SA4**	59	198	395	590	710	21	25	25	25	25	22	570	790
10	1.55	435	34	1.8	3.42	IE1	**BG10-../SSE08LA4**	43.5	146	290	435	520	22	27	34	34	34	18	630	880
10	1.55	435	34	1.8	3.42	IE4	**BG10-../S4E09SA4**	43.5	146	290	435	520	29	34	34	34	34	22	630	880
10	1.55	340	43.5	1.6	4.36	IE4	**BG10-../S4E09SA4**	34	114	225	340	410	37	43.5	43.5	43.5	43.5	22	650	910
10	1.55	340	43.5	1.6	4.36	IE1	**BG10-../SSE08LA4**	34	114	225	340	410	28	34.5	43.5	43.5	43.5	18	650	910
10	1.55	280	53	1.4	5.34	IE4	**BG10-../S4E09SA4**	28	93	187	280	335	45	53	53	53	53	22	620	910
10	1.55	280	53	1.4	5.34	IE1	**BG10-../SSE08LA4**	28	93	187	280	335	34.5	42.5	53	53	53	18	620	910
10	1.55	220	67	1.2	6.78	IE4	**BG10-../S4E09SA4**	22	73	147	220	265	57	67	67	67	67	22	660	920
10	1.55	220	67	1.2	6.78	IE1	**BG10-../SSE08LA4**	22	73	147	220	265	44	54	67	67	67	18	660	920
10	1.55	215	68	1.3	6.89	IE4	**BG10-../S4E09SA4**	21.5	72	145	215	260	58	68	68	68	68	22	850	1200
10	1.55	215	68	1.3	6.89	IE1	**BG10-../SSE08LA4**	21.5	72	145	215	260	44.5	55	68	68	68	18	850	1200
10	1.55	196	76	1.2	7.63	IE4	**BG10-../S4E09SA4**	19.5	65	131	196	235	64	76	76	76	76	22	900	1250
10	1.55	196	76	1.2	7.63	IE1	**BG10-../SSE08LA4**	19.5	65	131	196	235	49.5	61	76	76	76	18	900	1250
10	1.55	185	80	1.1	8.07	IE1	**BG10-../SSE08LA4**	18.5	61	123	185	220	52	64	80	80	80	18	660	920
10	1.55	185	80	1.1	8.07	IE4	**BG10-../S4E09SA4**	18.5	61	123	185	220	68	80	80	80	80	22	660	920
10	1.55	160	93	1	9.33	IE4	**BG10-../S4E09SA4**	16	53	107	160	192	79	93	93	93	93	22	950	1330
10	1.55	160	93	1	9.33	IE1	**BG10-../SSE08LA4**	16	53	107	160	192	60	74	93	93	93	18	950	1330
10	1.55	145	103	0.96	10.34	IE4	**BG10-../S4E09SA4**	14.5	48	96	145	174	87	103	103	103	103	22	1000	1400
10	1.55	145	103	0.96	10.34	IE1	**BG10-../SSE08LA4**	14.5	48	96	145	174	67	82	103	103	103	18	1000	1400
10	1.55	125	119	0.88	11.92	IE1	**BG10-../SSE08LA4**	12.5	41.5	83	125	151	77	95	119	119	119	18	1030	1440
10	1.55	125	119	0.88	11.92	IE4	**BG10-../S4E09SA4**	12.5	41.5	83	125	151	101	119	119	119	119	22	1030	1440
10	1.55	113	132	0.83	13.21	IE1	**BG10-../SSE08LA4**	11	37.5	75	113	136	85	105	132	132	132	18	1070	1490
10	1.55	113	132	0.83	13.21	IE4	**BG10-../S4E09SA4**	11	37.5	75	113	136	112	132	132	132	132	22	1070	1490
10	1.55	450	33	2.8	3.33	IE4	**BG20-../S4E09SA4**	45	150	300	450	540	28	33	33	33	33	24	1830	-
10	1.55	450	33	2.8	3.33	IE1	**BG20-../SSE08LA4**	45	150	300	450	540	21.5	26.5	33	33	33	20	1830	-
10	1.55	340	43.5	2.4	4.38	IE1	**BG20-../SSE08LA4**	34	114	225	340	410	28	35	43.5	43.5	43.5	20	1990	-
10	1.55	340	43.5	2.4	4.38	IE4	**BG20-../S4E09SA4**	34	114	225	340	410	37	43.5	43.5	43.5	43.5	24	1990	-
10	1.55	270	54	2.1	5.49	IE1	**BG20-../SSE08LA4**	27	91	182	270	325	35.5	43.5	54	54	54	20	2100	-
10	1.55	270	54	2.1	5.49	IE4	**BG20-../S4E09SA4**	27	91	182	270	325	46.5	54	54	54	54	24	2100	-
10	1.55	245	60	2.1	6.06	IE4	**BG20-../S4E09SA4**	24.5	82	165	245	295	51	60	60	60	60	24	2250	-
10	1.55	245	60	2.1	6.06	IE1	**BG20-../SSE08LA4**	24.5	82	165	245	295	39	48	60	60	60	20	2250	-
10	1.55	230	64	1.9	6.48	IE4	**BG20-../S4E09SA4**	23	77	154	230	275	55	64	64	64	64	24	2250	-
10	1.55	230	64	1.9	6.48	IE1	**BG20-../SSE08LA4**	23	77	154	230	275	42	51	64	64	64	20	2250	-
10	1.55	220	67	1.9	6.73	IE4	**BG20-../S4E09SA4**	22	74	148	220	265	57	67	67	67	67	24	2350	2100
10	1.55	220	67	1.9	6.73	IE1	**BG20-../SSE08LA4**	22	74	148	220	265	43.5	53	67	67	67	20	2350	2100
10	1.55	187	80	1.7	8.02	IE4	**BG20-../S4E09SA4**	18.5	62	124	187	220	68	80	80	80	80	24	2500	-
10	1.55	187	80	1.7	8.02	IE1	**BG20-../SSE08LA4**	18.5	62	124	187	220	52	64	80	80	80	20	2500	-
10	1.55	180	82	1.5	8.29	IE1	**BG20-../SSE08LA4**	18	60	120	180	215	53	66	82	82	82	20	2250	-
10	1.55	180	82	1.5	8.29	IE4	**BG20-../S4E09SA4**	18	60	120	180	215	70	82	82	82	82	24	2250	-
10	1.55	168	89	1.6	8.91	IE1	**BG20-../SSE08LA4**	16.5	56	112	168	200	57	71	89	89	89	20	2600	-
10	1.55	168	89	1.6	8.91	IE4	**BG20-../S4E09SA4**	16.5	56	112	168	200	75	89	89	89	89	24	2600	-
10	1.55	155	96	1.3	9.65	IE4	**BG20-../S4E09SA4**	15.5	51	103	155	186	82	96	96	96	96	24	2250	-
10	1.55	155	96	1.3	9.65	IE1	**BG20-../SSE08LA4**	15.5	51	103	155	186	62	77	96	96	96	20	2250	-
10	1.55	142	105	1.5	10.54	IE1	**BG20-../SSE08LA4**	14	47	94	142	170	68	84	105	105	105	20	2700	-
10	1.55	142	105	1.5	10.54	IE4	**BG20-../S4E09SA4**	14	47	94	142	170	89	105	105	105	105	24	2700	-
10	1.55	128	117	1.3	11.71	IE1	**BG20-../SSE08LA4**	12.5	42.5	85	128	153	76	93	117	117	117	20	2800	-

MN = 10 Nm (PN = 1.55 kW)



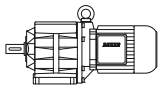
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
10	1.55	128	117	1.3	11.71	IE4	**BG20-../S4E09SA4**	12.5	42.5	85	128	153	99	117	117	117	117	24	2800	-
10	1.55	113	132	1.3	13.21	IE4	**BG20-../S4E09SA4**	11	37.5	75	113	136	112	132	132	132	132	24	2900	-
10	1.55	113	132	1.3	13.21	IE1	**BG20-../SSE08LA4**	11	37.5	75	113	136	85	105	132	132	132	20	2900	-
10	1.55	102	146	1.2	14.67	IE1	**BG20-../SSE08LA4**	10	34	68	102	122	95	117	146	146	146	20	3050	-
10	1.55	102	146	1.2	14.67	IE4	**BG20-../S4E09SA4**	10	34	68	102	122	124	146	146	146	146	24	3050	-
10	1.55	96	155	1.1	15.58	IE4	**BG20-../S4E09SA4**	9.6	32	64	96	115	132	155	155	155	155	24	3100	-
10	1.55	96	155	1.1	15.58	IE1	**BG20-../SSE08LA4**	9.6	32	64	96	115	101	124	155	155	155	20	3100	-
10	1.55	86	173	1.1	17.31	IE4	**BG20-../S4E09SA4**	8.6	28.5	57	86	103	147	173	173	173	173	24	3200	-
10	1.55	86	173	1.1	17.31	IE1	**BG20-../SSE08LA4**	8.6	28.5	57	86	103	112	138	173	173	173	20	3200	-
10	1.55	75	199	0.98	19.95	IE4	**BG20-../S4E09SA4**	7.5	25	50	75	90	169	199	199	199	199	24	3350	-
10	1.55	75	199	0.98	19.95	IE1	**BG20-../SSE08LA4**	7.5	25	50	75	90	129	159	199	199	199	20	3350	-
10	1.55	67	220	0.9	22.16	IE1	**BG20-../SSE08LA4**	6.7	22.5	45	67	81	144	177	220	220	220	20	3500	-
10	1.55	67	220	0.9	22.16	IE4	**BG20-../S4E09SA4**	6.7	22.5	45	67	81	188	220	220	220	220	24	3500	-
10	1.55	64	230	0.86	23.22	IE4	**BG20-../S4E09SA4**	6.4	21.5	43	64	77	197	230	230	230	230	24	3550	-
10	1.55	64	230	0.86	23.22	IE1	**BG20-../SSE08LA4**	6.4	21.5	43	64	77	150	185	230	230	230	20	3550	-
10	1.55	189	79	2.7	7.91	IE4	**BG30-../S4E09SA4**	18.5	63	126	189	225	67	79	79	79	79	29	1760	-
10	1.55	189	79	2.7	7.91	IE1	**BG30-../SSE08LA4**	18.5	63	126	189	225	51	63	79	79	79	25	1760	-
10	1.55	174	86	2.8	8.6	IE4	**BG30-../S4E09SA4**	17	58	116	174	205	73	86	86	86	86	29	2800	-
10	1.55	174	86	2.8	8.6	IE1	**BG30-../SSE08LA4**	17	58	116	174	205	55	68	86	86	86	25	2800	-
10	1.55	157	95	2.6	9.55	IE1	**BG30-../SSE08LA4**	15.5	52	104	157	188	62	76	95	95	95	25	3000	-
10	1.55	157	95	2.6	9.55	IE4	**BG30-../S4E09SA4**	15.5	52	104	157	188	81	95	95	95	95	29	3000	-
10	1.55	140	106	2.5	10.65	IE4	**BG30-../S4E09SA4**	14	46.5	93	140	169	90	106	106	106	106	29	2950	-
10	1.55	140	106	2.5	10.65	IE1	**BG30-../SSE08LA4**	14	46.5	93	140	169	69	85	106	106	106	25	2950	-
10	1.55	126	118	2.3	11.82	IE4	**BG30-../S4E09SA4**	12.5	42	84	126	152	100	118	118	118	118	29	3200	-
10	1.55	126	118	2.3	11.82	IE1	**BG30-../SSE08LA4**	12.5	42	84	126	152	76	94	118	118	118	25	3200	-
10	1.55	108	137	2.1	13.77	IE1	**BG30-../SSE08LA4**	10.5	36	72	108	130	89	110	137	137	137	25	3150	-
10	1.55	108	137	2.1	13.77	IE4	**BG30-../S4E09SA4**	10.5	36	72	108	130	117	137	137	137	137	29	3150	-
10	1.55	98	152	2	15.27	IE4	**BG30-../S4E09SA4**	9.8	32.5	65	98	117	129	152	152	152	152	29	3450	-
10	1.55	98	152	2	15.27	IE1	**BG30-../SSE08LA4**	9.8	32.5	65	98	117	99	122	152	152	152	25	3450	-
10	1.55	87	170	1.8	17.06	IE4	**BG30-../S4E09SA4**	8.7	29	58	87	105	145	170	170	170	170	29	3700	-
10	1.55	87	170	1.8	17.06	IE1	**BG30-../SSE08LA4**	8.7	29	58	87	105	110	136	170	170	170	25	3700	-
10	1.55	79	189	1.6	18.93	IE4	**BG30-../S4E09SA4**	7.9	26	52	79	95	160	189	189	189	189	29	4100	-
10	1.55	79	189	1.6	18.93	IE1	**BG30-../SSE08LA4**	7.9	26	52	79	95	123	151	189	189	189	25	4100	-
10	1.55	75	199	1.5	19.99	IE1	**BG30-../SSE08LA4**	7.5	25	50	75	90	129	159	199	199	199	25	4200	-
10	1.55	75	199	1.5	19.99	IE4	**BG30-../S4E09SA4**	7.5	25	50	75	90	169	199	199	199	199	29	4200	-
10	1.55	67	220	1.4	22.18	IE4	**BG30-../S4E09SA4**	6.7	22.5	45	67	81	188	220	220	220	220	29	4600	-
10	1.55	67	220	1.4	22.18	IE1	**BG30-../SSE08LA4**	6.7	22.5	45	67	81	144	177	220	220	220	25	4600	-
10	1.55	58	250	1.2	25.45	IE1	**BG30-../SSE08LA4**	5.8	19.5	39	58	70	165	200	250	250	250	25	4850	-
10	1.55	58	250	1.2	25.45	IE4	**BG30-../S4E09SA4**	5.8	19.5	39	58	70	215	250	250	250	250	29	4850	-
10	1.55	53	280	1.1	28.24	IE1	**BG30-../SSE08LA4**	5.3	17.5	35	53	63	183	225	280	280	280	25	5100	-
10	1.55	53	280	1.1	28.24	IE4	**BG30-../S4E09SA4**	5.3	17.5	35	53	63	240	280	280	280	280	29	5100	-
10	1.55	50	295	1	29.83	IE1	**BG30-../SSE08LA4**	5	16.5	33.5	50	60	193	235	295	295	295	25	5200	-
10	1.55	50	295	1	29.83	IE4	**BG30-../S4E09SA4**	5	16.5	33.5	50	60	250	295	295	295	295	29	5200	-
10	1.55	45	330	0.91	33.09	IE4	**BG30-../S4E09SA4**	4.5	15	30	45	54	280	330	330	330	330	29	5400	-
10	1.55	45	330	0.91	33.09	IE1	**BG30-../SSE08LA4**	4.5	15	30	45	54	215	260	330	330	330	25	5400	-
10	1.55	42.5	350	0.85	35.17	IE1	**BG30-../SSE08LA4**	4.2	14	28	42.5	51	225	280	350	350	350	25	5500	-
10	1.55	42.5	350	0.85	35.17	IE4	**BG30-../S4E09SA4**	4.2	14	28	42.5	51	295	350	350	350	350	29	5500	-
10	1.55	105	142	2.9	14.28	IE1	**BG40-../SSE08LA4**	10.5	35	70	105	126	92	114	142	142	142	40	4900	-
10	1.55	105	142	2.9	14.28	IE4	**BG40-../S4E09SA4**	10.5	35	70	105	126	121	142	142	142	142	43	4900	-
10	1.55	91	163	2.6	16.39	IE4	**BG40-../S4E09SA4**	9.1	30.5	61	91	109	139	163	163	163	163	43	5300	-
10	1.55	91	163	2.6	16.39	IE1	**BG40-../SSE08LA4**	9.1	30.5	61	91	109	106	131	163	163	163	40	5300	-
10	1.55	82	181	2.3	18.19	IE4	**BG40-../S4E09SA4**	8.2	27	54	82	98	154	181	181	181	181	43	5600	-
10	1.55	82	181	2.3	18.19	IE1	**BG40-../SSE08LA4**	8.2	27	54	82	98	118	145	181	181	181	40	5600	-
10	1.55	75	198	2.1	19.84	IE1	**BG40-../SSE08LA4**	7.5	25	50	75	90	128	158	198	198	198	40	5800	-
10	1.55	75	198	2.1	19.84	IE4	**BG40-../S4E09SA4**	7.5	25	50	75	90	168	198	198	198	198	43	5800	-
10	1.55	68	220	1.9	22.02	IE4	**BG40-../S4E09SA4**	6.8	22.5	45	68	81	187	220	220	220	220	43	6000	-
10	1.55	68	220	1.9	22.02	IE1	**BG40-../SSE08LA4**	6.8	22.5	45	68	81	143	176	220	220	220	40	6000	-
10	1.55	64	230	1.8	23.43	IE4	**BG40-../S4E09SA4**	6.4	21	42.5	64	76	199	230	230	230	230	43	6200	-
10	1.55	64	230	1.8	23.43	IE1	**BG40-../SSE08LA4**	6.4	21	42.5	64	76	152	187	230	230	230	40	6200	-
10	1.55	57	260	1.6	26.01	IE4	**BG40-../S4E09SA4**	5.7	19	38	57	69	220	260	260	260	260	43	6500	-
10	1.55	57	260	1.6	26.01	IE1	**BG40-../SSE08LA4**	5.7	19	38	57	69	169	205	260	260	260	40	6500	-
10	1.55	51	290	1.4	29.34	IE4	**BG40-../S4E09SA4**	5.1	17	34	51	61	245	290	290	290	290	43	6800	-
10	1.55	51	290	1.4	29.34	IE1	**BG40-../SSE08LA4**	5.1	17	34	51	61	190	230	290	290	290	40	6800	-
10	1.55	46	325	1.3	32.57	IE4	**BG40-../S4E09SA4**	4.6	15	30.5	46	55	275	325	325	325	325	43	7000	-
10	1.55	46	325	1.3	32.57	IE1	**BG40-../SSE08LA4**	4.6	15	30.5	46	55	210	260	325	325	325	40	7000	-
10	1.55	43.5	340	1.2	34.2	IE4	**BG40-../S4E09SA4**	4.3	14.5	29	43.5	52	290	340	340	340	340	43	7000	-
10	1.55	43.5	340	1.2	34.2	IE1	**BG40-../SSE08LA4**	4.3	14.5	29	43.5	52	220	270	340	340	340	40	7000	-
10	1.55	39.5	375	1.1	37.96	IE4	**BG40-../S4E09SA4**	3.9	13	26	39.5	47	320	375	375	375	375	43	7000	-
10	1.55	39.5	375	1.1	37.96	IE1	**BG40-../SSE08LA4**	3.9	13	26	39.5	47	245	300	375	375	375	40	7000	-
10	1.55	37	400	1.1	40.19	IE1	**BG40-../SSE08LA4**	3.7	12	24.5	37	44.5	260	320	400	400	400	40	7000	-
10	1.55	37	400	1.1	40.19	IE4	**BG40-../S4E09SA4**	3.7	12	24.5	37	44.5	340	400	400	400	400	43	7000	-
10	1.55	33.5	445	0.95	44.62	IE1	**BG40-../SSE08LA4**	3.3	11	22	33.5	40	290	355	445	445	445	40	7000	-
10	1.55	33.5	445	0.95	44.62	IE4	**BG40-../S4E09SA4**	3.3	11	22	33.5	40	375	445	445	445	445	43	7000	-
10	1.55	31	480	0.88	48.36	IE4	**BG40-../S4E09SA4**	3.1	10	20.5	31	37	410	480	480	480	480	43	7000	-
10	1.55	31	480	0.88	48.36	IE1	**BG40-../SSE08LA4**	3.1	10	20.5	31	37	310	385	480	480	480	40	7000	-
10	1.55	68	215	2.9	21.96	IE4	**BG50-../S4E09SA4**	6.8	22.5	45.5	68	81	186	215	215	215	215	51	8000	-
10	1.55	68	215	2.9	21.96	IE1	**BG50-../SSE08LA4**	6.8	22.5	45.5	68	81	142	175	215	215	215	48	8000	-
10	1.55	61	240	2.6	24.34	IE1	**BG50-../SSE08LA4**	6.1	20.5	41	61	73	158	194	240	240	240	48	8700	-
10	1.55	61	240	2.6	24.34	IE4	**BG50-../S4E09SA4**	6.1	20.5	41	61	73	205	240	240	240	240	51	8700	-

MN = 10 Nm (PN = 1.55 kW)



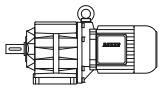
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
10	1.55	50	295	2.1	29.62	IE1	**BG50-../SSE08LA4**	5	16.5	33.5	50	60	192	235	295	295	295	48	8000	-
10	1.55	50	295	2.1	29.62	IE4	**BG50-../S4E09SA4**	5	16.5	33.5	50	60	250	295	295	295	295	51	8000	-
10	1.55	45.5	325	1.9	32.84	IE4	**BG50-../S4E09SA4**	4.5	15	30	45.5	54	275	325	325	325	325	51	8700	-
10	1.55	45.5	325	1.9	32.84	IE1	**BG50-../SSE08LA4**	4.5	15	30	45.5	54	210	260	325	325	325	48	8700	-
10	1.55	39.5	375	1.7	37.89	IE4	**BG50-../S4E09SA4**	3.9	13	26	39.5	47.5	320	375	375	375	375	51	10000	-
10	1.55	39.5	375	1.7	37.89	IE1	**BG50-../SSE08LA4**	3.9	13	26	39.5	47.5	245	300	375	375	375	48	10000	-
10	1.55	35.5	420	1.5	42	IE1	**BG50-../SSE08LA4**	3.5	11.5	23.5	35.5	42.5	270	335	420	420	420	48	10000	-
10	1.55	35.5	420	1.5	42	IE4	**BG50-../S4E09SA4**	3.5	11.5	23.5	35.5	42.5	355	420	420	420	420	51	10000	-
10	1.55	31.5	470	1.3	47.02	IE1	**BG50-../SSE08LA4**	3.1	10.5	21	31.5	38	305	375	470	470	470	48	10000	-
10	1.55	31.5	470	1.3	47.02	IE4	**BG50-../S4E09SA4**	3.1	10.5	21	31.5	38	395	470	470	470	470	51	10000	-
10	1.55	28.5	520	1.2	52.12	IE1	**BG50-../SSE08LA4**	2.8	9.5	19	28.5	34.5	335	415	520	520	520	48	10000	-
10	1.55	28.5	520	1.2	52.12	IE4	**BG50-../S4E09SA4**	2.8	9.5	19	28.5	34.5	440	520	520	520	520	51	10000	-
10	1.55	25	590	1.1	59.42	IE4	**BG50-../S4E09SA4**	2.5	8.4	16.5	25	30	500	590	590	590	590	51	10000	-
10	1.55	25	590	1.1	59.42	IE1	**BG50-../SSE08LA4**	2.5	8.4	16.5	25	30	385	475	590	590	590	48	10000	-
10	1.55	22.5	650	0.96	65.86	IE1	**BG50-../SSE08LA4**	2.2	7.5	15	22.5	27	425	520	650	650	650	48	10000	-
10	1.55	22.5	650	0.96	65.86	IE4	**BG50-../S4E09SA4**	2.2	7.5	15	22.5	27	550	650	650	650	650	51	10000	-
10	1.55	20.5	710	0.88	71.97	IE1	**BG50Z-../SSE08LA4**	2	6.9	13.5	20.5	25	465	570	710	710	710	52	10000	-
10	1.55	20.5	710	0.88	71.97	IE4	**BG50Z-../S4E09SA4**	2	6.9	13.5	20.5	25	610	710	710	710	710	56	10000	-
10	1.55	34.5	430	2.8	43.05	IE4	**BG60-../S4E09SA4**	3.4	11.5	23	34.5	41.5	365	430	430	430	430	82	16000	-
10	1.55	29.5	500	2.4	50.31	IE4	**BG60-../S4E09SA4**	2.9	9.9	19.5	29.5	35.5	425	500	500	500	500	82	16000	-
10	1.55	26.5	550	2.2	55.76	IE4	**BG60-../S4E09SA4**	2.6	8.9	17.5	26.5	32	470	550	550	550	550	82	16000	-
10	1.55	24.5	600	2	60.9	IE4	**BG60-../S4E09SA4**	2.4	8.2	16	24.5	29.5	510	600	600	600	600	82	16000	-
10	1.55	22	670	1.8	67.49	IE4	**BG60-../S4E09SA4**	2.2	7.4	14.5	22	26.5	570	670	670	670	670	82	16000	-
10	1.55	21.5	680	1.8	68.32	IE1	**BG60Z-../SSE08LA4**	2.1	7.3	14.5	21.5	26	440	540	680	680	680	97	16000	-
10	1.55	21.5	680	1.8	68.32	IE4	**BG60Z-../S4E09SA4**	2.1	7.3	14.5	21.5	26	580	680	680	680	680	101	16000	-
10	1.55	19.5	750	1.6	75.71	IE1	**BG60Z-../SSE08LA4**	1.9	6.6	13	19.5	23.5	490	600	750	750	750	97	16000	-
10	1.55	19.5	750	1.6	75.71	IE4	**BG60Z-../S4E09SA4**	1.9	6.6	13	19.5	23.5	640	750	750	750	750	101	16000	-
10	1.55	16	910	1.3	91.09	IE4	**BG60Z-../S4E09SA4**	1.6	5.4	10.5	16	19.5	770	910	910	910	910	101	16000	-
10	1.55	16	910	1.3	91.09	IE1	**BG60Z-../SSE08LA4**	1.6	5.4	10.5	16	19.5	590	720	910	910	910	97	16000	-
10	1.55	14.5	1010	1.2	101	IE1	**BG60Z-../SSE08LA4**	1.4	4.9	9.9	14.5	17.5	650	800	1010	1010	1010	97	16000	-
10	1.55	14.5	1010	1.2	101	IE4	**BG60Z-../S4E09SA4**	1.4	4.9	9.9	14.5	17.5	850	1010	1010	1010	1010	101	16000	-
10	1.55	12.5	1190	1	119.2	IE1	**BG60Z-../SSE08LA4**	1.2	4.1	8.3	12.5	15	770	950	1190	1190	1190	97	16000	-
10	1.55	12.5	1190	1	119.2	IE4	**BG60Z-../S4E09SA4**	1.2	4.1	8.3	12.5	15	1010	1190	1190	1190	1190	101	16000	-
10	1.55	11	1320	0.91	132.1	IE1	**BG60Z-../SSE08LA4**	1.1	3.7	7.5	11	13.5	850	1050	1320	1320	1320	97	16000	-
10	1.55	11	1320	0.91	132.1	IE4	**BG60Z-../S4E09SA4**	1.1	3.7	7.5	11	13.5	1120	1320	1320	1320	1320	101	16000	-
10	1.55	17	870	2.6	87.61	IE1	**BG70Z-../SSE08LA4**	1.7	5.7	11	17	20.5	560	700	870	870	870	137	20000	-
10	1.55	17	870	2.6	87.61	IE4	**BG70Z-../S4E09SA4**	1.7	5.7	11	17	20.5	740	870	870	870	870	141	20000	-
10	1.55	15.5	950	2.4	95.74	IE4	**BG70Z-../S4E09SA4**	1.5	5.2	10	15.5	18.5	810	950	950	950	950	141	20000	-
10	1.55	15.5	950	2.4	95.74	IE1	**BG70Z-../SSE08LA4**	1.5	5.2	10	15.5	18.5	620	760	950	950	950	137	20000	-
10	1.55	13	1130	2	113.6	IE1	**BG70Z-../SSE08LA4**	1.3	4.4	8.8	13	15.5	730	900	1130	1130	1130	137	20000	-
10	1.55	13	1130	2	113.6	IE4	**BG70Z-../S4E09SA4**	1.3	4.4	8.8	13	15.5	960	1130	1130	1130	1130	141	20000	-
10	1.55	12	1240	1.9	124	IE4	**BG70Z-../S4E09SA4**	1.2	4	8	12	14.5	1050	1240	1240	1240	1240	141	20000	-
10	1.55	12	1240	1.9	124	IE1	**BG70Z-../SSE08LA4**	1.2	4	8	12	14.5	800	990	1240	1240	1240	137	20000	-
10	1.55	10	1470	1.6	147.2	IE1	**BG70Z-../SSE08LA4**	1	3.3	6.7	10	12	950	1170	1470	1470	1470	137	20000	-
10	1.55	10	1470	1.6	147.2	IE4	**BG70Z-../S4E09SA4**	1	3.3	6.7	10	12	1250	1470	1470	1470	1470	141	20000	-
10	1.55	9.1	1630	1.4	163.8	IE4	**BG70Z-../S4E09SA4**	0.9	3	6.1	9.1	10.5	1390	1630	1630	1630	1630	141	20000	-
10	1.55	9.1	1630	1.4	163.8	IE1	**BG70Z-../SSE08LA4**	0.9	3	6.1	9.1	10.5	1060	1310	1630	1630	1630	137	20000	-
10	1.55	7.7	1940	1.2	194.4	IE4	**BG70Z-../S4E09SA4**	0.75	2.5	5.1	7.7	9.2	1650	1940	1940	1940	1940	141	20000	-
10	1.55	7.7	1940	1.2	194.4	IE1	**BG70Z-../SSE08LA4**	0.75	2.5	5.1	7.7	9.2	1260	1550	1940	1940	1940	137	20000	-
10	1.55	7.1	2100	1.1	210.5	IE4	**BG70Z-../S4E09SA4**	0.7	2.3	4.7	7.1	8.5	1780	2100	2100	2100	2100	141	20000	-
10	1.55	7.1	2100	1.1	210.5	IE1	**BG70Z-../SSE08LA4**	0.7	2.3	4.7	7.1	8.5	1360	1680	2100	2100	2100	137	20000	-
10	1.55	6	2450	0.92	249.8	IE4	**BG70Z-../S4E09SA4**	0.6	2	4	6	7.2	2100	2450	2450	2450	2450	141	20000	-
10	1.55	6	2450	0.92	249.8	IE1	**BG70Z-../SSE08LA4**	0.6	2	4	6	7.2	1620	1990	2450	2450	2450	137	20000	-
10	1.55	5.8	2550	0.98	255.5	IE4	**BG70G20-../S4E09SA4**	0.55	1.9	3.9	5.8	7	2150	2550	2550	2550	2550	138	20000	-
10	1.55	5.8	2550	0.98	255.5	IE1	**BG70G20-../SSE08LA4**	0.55	1.9	3.9	5.8	7	1660	2000	2550	2550	2550	135	20000	-
10	1.55	5.4	2750	0.9	276.7	IE4	**BG70G20-../S4E09SA4**	0.5	1.8	3.6	5.4	6.5	2350	2750	2750	2750	2750	138	20000	-
10	1.55	5.4	2750	0.9	276.7	IE1	**BG70G20-../SSE08LA4**	0.5	1.8	3.6	5.4	6.5	1790	2200	2750	2750	2750	135	20000	-
10	1.55	10	1450	2.9	145.4	IE4	**BG80Z-../S4E09SA4**	1	3.4	6.8	10	12	1230	1450	1450	1450	1450	209	26000	-
10	1.55	9.2	1610	2.6	161.5	IE4	**BG80Z-../S4E09SA4**	0.9	3	6.1	9.2	11	1370	1610	1610	1610	1610	209	26000	-
10	1.55	8	1860	2.2	186.8	IE4	**BG80Z-../S4E09SA4**	0.8	2.6	5.3	8	9.6	1580	1860	1860	1860	1860	209	26000	-
10	1.55	7.2	2050	2	207.4	IE4	**BG80Z-../S4E09SA4**	0.7	2.4	4.8	7.2	8.6	1760	2050	2050	2050	2050	209	26000	-
10	1.55	6.6	2250	2	227.2	IE4	**BG80G40-../S4E09SA4**	0.65	2.2	4.4	6.6	7.9	1930	2250	2250	2250	2250	220	26000	-
10	1.55	6.6	2250	2	227.2	IE1	**BG80G40-../SSE08LA4**	0.65	2.2	4.4	6.6	7.9	1470	1810	2250	2250	2250	216	26000	-
10	1.55	5.9	2500	1.8	252.3	IE1	**BG80G40-../SSE08LA4**	0.55	1.9	3.9	5.9	7.1	1630	2000	2500	2500	2500	216	26000	-
10	1.55	5.9	2500	1.8	252.3	IE4	**BG80G40-../S4E09SA4**	0.55	1.9	3.9	5.9	7.1	2100	2500	2500	2500	2500	220	26000	-
10	1.55	5.3	2800	1.6	282.8	IE4	**BG80G40-../S4E09SA4**	0.5	1.7	3.5	5.3	6.3	2400	2800	2800	2800	2800	220	26000	-
10	1.55	5.3	2800	1.6	282.8	IE1	**BG80G40-../SSE08LA4**	0.5	1.7	3.5	5.3	6.3	1830	2250	2800	2800	2800	216	26000	-
10	1.55	4.7	3100	1.5	314	IE4	**BG80G40-../S4E09SA4**	0.47	1.5	3.1	4.7	5.7	2650	3100	3100	3100	3100	220	26000	-
10	1.55	4.7	3100	1.5	314	IE1	**BG80G40-../SSE08LA4**	0.47	1.5	3.1	4.7	5.7	2000	2500	3100	3100	3100	216	26000	-
10	1.55	4.1	3600	1.3	360	IE4	**BG80G40-../S4E09SA4**	0.41	1.3	2.7	4.1	5	3050	3600	3600	3600	3600	220	26000	-
10	1.55	4.1	3600	1.3	360	IE1	**BG80G40-../SSE08LA4**	0.41	1.3	2.7	4.1	5	2300	2850	3600	3600	3600	216	26000	-
10	1.55	3.7	3950	1.2	399.8	IE4	**BG80G40-../S4E09SA4**	0.37	1.2	2.5	3.7	4.5	3350	3950	3950	3950	3950	220	26000	-
10	1.55	3.7	3950	1.2	399.8	IE1	**BG80G40-../SSE08LA4**	0.37	1.2	2.5	3.7	4.5	2550	3150	3950	3950	3950	216	26000	-
10	1.55	3.4	4350	1.1	436.2	IE4	**BG80G40-../S4E09SA4**	0.34	1.1	2.2	3.4	4.1	3700	4350	4350	4350	4350	220	26000	-
10	1.55	3.4	4350	1.1	436.2	IE1	**BG80G40-../SSE08LA4**	0.34	1.1	2.2	3.4	4.1	2800	3450	4350	4350	4350	216	26000	-
10	1.55	3	4800	0.95	484.3	IE1	**BG80G40-../SSE08LA4**	0.3	1	2	3	3.7	3100	3850	4800	4800	4800	216	26000	-
10	1.55	3	4800	0.95	484.3	IE4	**BG80G40-../S4E09SA4**	0.3	1	2	3	3.7	4100	4800	4800	4800	4800	220	26000	-
10	1.55	2.6	5700	0.8	572	IE4	**BG80G40-../S4E09SA4**	0.26	0.85	1.7	2.6	3.1	4850	5700	5700	5700	5700	220	26000	-
10	1.55	2.6	5700	0.8	572	IE1	**BG80G40-../SSE08LA4**	0.26	0.85	1.7	2.6	3.1	3700	4550	5700	5700	5700	216	26000	-

MN = 10 Nm (PN = 1.55 kW)



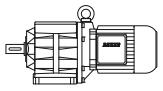
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
10	1.55	4.1	3600	2.6	360.3	IE1	**BG90G50-../SSE08LA4**	0.41	1.3	2.7	4.1	4.9	2300	2850	3600	3600	3600	326	65000	-
10	1.55	4.1	3600	2.6	360.3	IE4	**BG90G50-../S4E09SA4**	0.41	1.3	2.7	4.1	4.9	3050	3600	3600	3600	3600	330	65000	-
10	1.55	3.4	4350	2.1	435.8	IE1	**BG90G50-../SSE08LA4**	0.34	1.1	2.2	3.4	4.1	2800	3450	4350	4350	4350	326	65000	-
10	1.55	3.4	4350	2.1	435.8	IE4	**BG90G50-../S4E09SA4**	0.34	1.1	2.2	3.4	4.1	3700	4350	4350	4350	4350	330	65000	-
10	1.55	2.9	5000	1.8	504.7	IE4	**BG90G50-../S4E09SA4**	0.29	0.95	1.9	2.9	3.5	4250	5000	5000	5000	5000	330	65000	-
10	1.55	2.9	5000	1.8	504.7	IE1	**BG90G50-../SSE08LA4**	0.29	0.95	1.9	2.9	3.5	3250	4000	5000	5000	5000	326	65000	-
10	1.55	2.5	5800	1.6	588.8	IE4	**BG90G50-../S4E09SA4**	0.25	0.8	1.6	2.5	3	5000	5800	5800	5800	5800	330	65000	-
10	1.55	2.5	5800	1.6	588.8	IE1	**BG90G50-../SSE08LA4**	0.25	0.8	1.6	2.5	3	3800	4700	5800	5800	5800	326	65000	-
10	1.55	2.3	6400	1.4	644.7	IE4	**BG90G50-../S4E09SA4**	0.23	0.75	1.5	2.3	2.7	5400	6400	6400	6400	6400	330	65000	-
10	1.55	2.3	6400	1.4	644.7	IE1	**BG90G50-../SSE08LA4**	0.23	0.75	1.5	2.3	2.7	4150	5100	6400	6400	6400	326	65000	-
10	1.55	2.1	7100	1.3	714.2	IE4	**BG90G50-../S4E09SA4**	0.21	0.7	1.4	2.1	2.5	6000	7100	7100	7100	7100	330	65000	-
10	1.55	2.1	7100	1.3	714.2	IE1	**BG90G50-../SSE08LA4**	0.21	0.7	1.4	2.1	2.5	4600	5700	7100	7100	7100	326	65000	-
10	1.55	1.6	8800	1	883.7	IE4	**BG90G50-../S4E09SA4**	0.16	0.55	1.1	1.6	2	7500	8800	8800	8800	8800	330	65000	-
10	1.55	1.6	8800	1	883.7	IE1	**BG90G50-../SSE08LA4**	0.16	0.55	1.1	1.6	2	5700	7000	8800	8800	8800	326	65000	-
10	1.55	2.2	6500	2.8	658.1	IE4	**BG100Z-../S4E09SA4**	0.22	0.75	1.5	2.2	2.7	5500	6500	6500	6500	6500	518	90000	-
10	1.55	1.9	7500	2.4	759	IE4	**BG100Z-../S4E09SA4**	0.19	0.65	1.3	1.9	2.3	6400	7500	7500	7500	7500	518	90000	-
10	1.55	1.7	8400	2.2	845.1	IE4	**BG100Z-../S4E09SA4**	0.17	0.55	1.1	1.7	2.1	7100	8400	8400	8400	8400	518	90000	-
10	1.55	1.5	9700	1.9	976.1	IE1	**BG100G50-../SSE08LA4**	0.15	0.5	1	1.5	1.8	6300	7800	9700	9700	9700	513	90000	-
10	1.55	1.5	9700	1.9	976.1	IE4	**BG100G50-../S4E09SA4**	0.15	0.5	1	1.5	1.8	8200	9700	9700	9700	9700	517	90000	-
10	1.55	1.4	10400	1.8	1043	IE4	**BG100G50-../S4E09SA4**	0.14	0.47	0.95	1.4	1.7	8800	10400	10400	10400	10400	517	90000	-
10	1.55	1.4	10400	1.8	1043	IE1	**BG100G50-../SSE08LA4**	0.14	0.47	0.95	1.4	1.7	6700	8300	10400	10400	10400	513	90000	-
10	1.55	1.2	12000	1.5	1204	IE4	**BG100G50-../S4E09SA4**	0.12	0.41	0.8	1.2	1.4	10200	12000	12000	12000	12000	517	90000	-
10	1.55	1.2	12000	1.5	1204	IE1	**BG100G50-../SSE08LA4**	0.12	0.41	0.8	1.2	1.4	7800	9600	12000	12000	12000	513	90000	-
10	1.55	1	14400	1.3	1444	IE4	**BG100G50-../S4E09SA4**	0.1	0.34	0.65	1	1.2	12200	14400	14400	14400	14400	517	90000	-
10	1.55	1	14400	1.3	1444	IE1	**BG100G50-../SSE08LA4**	0.1	0.34	0.65	1	1.2	9300	11500	14400	14400	14400	513	90000	-
10	1.55	0.85	16700	1.1	1678	IE4	**BG100G50-../S4E09SA4**	0.085	0.29	0.55	0.85	1	14200	16700	16700	16700	16700	517	90000	-
10	1.55	0.85	16700	1.1	1678	IE1	**BG100G50-../SSE08LA4**	0.085	0.29	0.55	0.85	1	10900	13400	16700	16700	16700	513	90000	-
10	1.55	0.8	18600	0.99	1867	IE4	**BG100G50-../S4E09SA4**	0.08	0.26	0.5	0.8	0.95	15800	18600	18600	18600	18600	517	90000	-
10	1.55	0.8	18600	0.99	1867	IE1	**BG100G50-../SSE08LA4**	0.08	0.26	0.5	0.8	0.95	12100	14900	18600	18600	18600	513	90000	-
10	1.55	0.65	21500	0.86	2154	IE1	**BG100G50-../SSE08LA4**	0.065	0.23	0.46	0.65	0.8	14000	17200	21500	21500	21500	513	90000	-
10	1.55	0.65	21500	0.86	2154	IE4	**BG100G50-../S4E09SA4**	0.065	0.23	0.46	0.65	0.8	18300	21500	21500	21500	21500	517	90000	-

MN = 14 Nm (PN = 2.2 kW)



M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
14	2.2	590	35	1.6	2.52	IE5	**BG10-../S5E09XA4**	59	198	395	590	710	32.5	35	35	35	35	30	570	790
14	2.2	590	35	1.6	2.52	IE2	**BG10-../SHE09SA4**	59	198	395	590	710	21	25	35	35	35	22	570	790
14	2.2	435	47.5	1.3	3.42	IE2	**BG10-../SHE09SA4**	43.5	146	290	435	520	29	34	47.5	47.5	47.5	22	630	880
14	2.2	435	47.5	1.3	3.42	IE5	**BG10-../S5E09XA4**	43.5	146	290	435	520	44	47.5	47.5	47.5	47.5	30	630	880
14	2.2	340	61	1.1	4.36	IE5	**BG10-../S5E09XA4**	34	114	225	340	410	56	61	61	61	61	30	650	910
14	2.2	340	61	1.1	4.36	IE2	**BG10-../SHE09SA4**	34	114	225	340	410	37	43.5	61	61	61	22	650	910
14	2.2	280	74	1	5.34	IE5	**BG10-../S5E09XA4**	28	93	187	280	335	69	74	74	74	74	30	620	910
14	2.2	280	74	1	5.34	IE2	**BG10-../SHE09SA4**	28	93	187	280	335	45	53	74	74	74	22	620	910
14	2.2	220	94	0.85	6.78	IE5	**BG10-../S5E09XA4**	22	73	147	220	265	88	94	94	94	94	30	660	920
14	2.2	220	94	0.85	6.78	IE2	**BG10-../SHE09SA4**	22	73	147	220	265	57	67	94	94	94	22	660	920
14	2.2	215	96	0.91	6.89	IE2	**BG10-../SHE09SA4**	21.5	72	145	215	260	58	68	96	96	96	22	850	1200
14	2.2	215	96	0.91	6.89	IE5	**BG10-../S5E09XA4**	21.5	72	145	215	260	89	96	96	96	96	30	850	1200
14	2.2	196	106	0.83	7.63	IE2	**BG10-../SHE09SA4**	19.5	65	131	196	235	64	76	106	106	106	22	900	1250
14	2.2	196	106	0.83	7.63	IE5	**BG10-../S5E09XA4**	19.5	65	131	196	235	99	106	106	106	106	30	900	1250
14	2.2	590	35	2.4	2.52	IE2	**BG20-../SHE09SA4**	59	198	395	590	710	21	25	35	35	35	24	1650	-
14	2.2	590	35	2.4	2.52	IE5	**BG20-../S5E09XA4**	59	198	395	590	710	32.5	35	35	35	35	32	1650	-
14	2.2	450	46.5	2	3.33	IE5	**BG20-../S5E09XA4**	45	150	300	450	540	43	46.5	46.5	46.5	46.5	32	1830	-
14	2.2	450	46.5	2	3.33	IE2	**BG20-../SHE09SA4**	45	150	300	450	540	28	33	46.5	46.5	46.5	24	1830	-
14	2.2	340	61	1.7	4.38	IE5	**BG20-../S5E09XA4**	34	114	225	340	410	56	61	61	61	61	32	1990	-
14	2.2	340	61	1.7	4.38	IE2	**BG20-../SHE09SA4**	34	114	225	340	410	37	43.5	61	61	61	24	1990	-
14	2.2	270	76	1.5	5.49	IE5	**BG20-../S5E09XA4**	27	91	182	270	325	71	76	76	76	76	32	2100	-
14	2.2	270	76	1.5	5.49	IE2	**BG20-../SHE09SA4**	27	91	182	270	325	46.5	54	76	76	76	24	2100	-
14	2.2	245	84	1.5	6.06	IE5	**BG20-../S5E09XA4**	24.5	82	165	245	295	78	84	84	84	84	32	2250	-
14	2.2	245	84	1.5	6.06	IE2	**BG20-../SHE09SA4**	24.5	82	165	245	295	51	60	84	84	84	24	2250	-
14	2.2	230	90	1.3	6.48	IE5	**BG20-../S5E09XA4**	23	77	154	230	275	84	90	90	90	90	32	2250	-
14	2.2	230	90	1.3	6.48	IE2	**BG20-../SHE09SA4**	23	77	154	230	275	55	64	90	90	90	24	2250	-
14	2.2	220	94	1.4	6.73	IE5	**BG20-../S5E09XA4**	22	74	148	220	265	87	94	94	94	94	32	2350	2100
14	2.2	220	94	1.4	6.73	IE2	**BG20-../SHE09SA4**	22	74	148	220	265	57	67	94	94	94	24	2350	2100
14	2.2	187	112	1.2	8.02	IE5	**BG20-../S5E09XA4**	18.5	62	124	187	220	104	112	112	112	112	32	2500	-
14	2.2	187	112	1.2	8.02	IE2	**BG20-../SHE09SA4**	18.5	62	124	187	220	68	80	112	112	112	24	2500	-
14	2.2	180	116	1.1	8.29	IE5	**BG20-../S5E09XA4**	18	60	120	180	215	107	116	116	116	116	32	2250	-
14	2.2	180	116	1.1	8.29	IE2	**BG20-../SHE09SA4**	18	60	120	180	215	70	82	116	116	116	24	2250	-
14	2.2	168	124	1.1	8.91	IE5	**BG20-../S5E09XA4**	16.5	56	112	168	200	115	124	124	124	124	32	2600	-
14	2.2	168	124	1.1	8.91	IE2	**BG20-../SHE09SA4**	16.5	56	112	168	200	75	89	124	124	124	24	2600	-
14	2.2	155	135	0.9	9.65	IE2	**BG20-../SHE09SA4**	15.5	51	103	155	186	82	96	135	135	135	24	2250	-
14	2.2	155	135	0.9	9.65	IE5	**BG20-../S5E09XA4**	15.5	51	103	155	186	125	135	135	135	135	32	2250	-
14	2.2	142	147	1	10.54	IE2	**BG20-../SHE09SA4**	14	47	94	142	170	89	105	147	147	147	24	2700	-
14	2.2	142	147	1	10.54	IE5	**BG20-../S5E09XA4**	14	47	94	142	170	137	147	147	147	147	32	2700	-
14	2.2	128	163	0.96	11.71	IE2	**BG20-../SHE09SA4**	12.5	42.5	85	128	153	99	117	163	163	163	24	2800	-

MN = 14 Nm (PN = 2.2 kW)

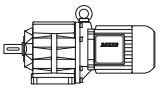


M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
14	2.2	128	163	0.96	11.71	IE5	**BG20-../S5E09XA4**	12.5	42.5	85	128	153	152	163	163	163	163	32	2800	-
14	2.2	113	184	0.9	13.21	IE5	**BG20-../S5E09XA4**	11	37.5	75	113	136	171	184	184	184	184	32	2900	-
14	2.2	113	184	0.9	13.21	IE2	**BG20-../SHE09SA4**	11	37.5	75	113	136	112	132	184	184	184	24	2900	-
14	2.2	102	205	0.84	14.67	IE5	**BG20-../S5E09XA4**	10	34	68	102	122	190	205	205	205	205	32	3050	-
14	2.2	102	205	0.84	14.67	IE2	**BG20-../SHE09SA4**	10	34	68	102	122	124	146	205	205	205	24	3050	-
14	2.2	96	215	0.81	15.58	IE5	**BG20-../S5E09XA4**	9.6	32	64	96	115	200	215	215	215	215	32	3100	-
14	2.2	96	215	0.81	15.58	IE2	**BG20-../SHE09SA4**	9.6	32	64	96	115	132	155	215	215	215	24	3100	-
14	2.2	440	47.5	2.9	3.4	IE5	**BG30-../S5E09XA4**	44	147	290	440	520	44	47.5	47.5	47.5	47.5	37	1580	-
14	2.2	440	47.5	2.9	3.4	IE2	**BG30-../SHE09SA4**	44	147	290	440	520	28.5	34	47.5	47.5	47.5	29	1580	-
14	2.2	355	58	2.9	4.21	IE5	**BG30-../S5E09XA4**	35.5	118	235	355	425	54	58	58	58	58	37	1630	-
14	2.2	355	58	2.9	4.21	IE2	**BG30-../SHE09SA4**	35.5	118	235	355	425	35.5	42	58	58	58	29	1630	-
14	2.2	275	76	2.6	5.44	IE2	**BG30-../SHE09SA4**	27.5	91	183	275	330	46	54	76	76	76	29	1670	-
14	2.2	275	76	2.6	5.44	IE5	**BG30-../S5E09XA4**	27.5	91	183	275	330	70	76	76	76	76	37	1670	-
14	2.2	220	94	2.3	6.75	IE5	**BG30-../S5E09XA4**	22	74	148	220	265	87	94	94	94	94	37	1760	-
14	2.2	220	94	2.4	6.76	IE2	**BG30-../SHE09SA4**	22	73	147	220	265	57	67	94	94	94	29	2550	-
14	2.2	220	94	2.4	6.76	IE5	**BG30-../S5E09XA4**	22	73	147	220	265	87	94	94	94	94	37	2550	-
14	2.2	220	94	2.3	6.75	IE2	**BG30-../SHE09SA4**	22	74	148	220	265	57	67	94	94	94	29	1760	-
14	2.2	200	105	2.2	7.5	IE5	**BG30-../S5E09XA4**	20	66	133	200	240	97	105	105	105	105	37	2750	-
14	2.2	200	105	2.2	7.5	IE2	**BG30-../SHE09SA4**	20	66	133	200	240	63	75	105	105	105	29	2750	-
14	2.2	189	110	1.9	7.91	IE5	**BG30-../S5E09XA4**	18.5	63	126	189	225	102	110	110	110	110	37	1760	-
14	2.2	189	110	1.9	7.91	IE2	**BG30-../SHE09SA4**	18.5	63	126	189	225	67	79	110	110	110	29	1760	-
14	2.2	174	120	2	8.6	IE2	**BG30-../SHE09SA4**	17	58	116	174	205	73	86	120	120	120	29	2800	-
14	2.2	174	120	2	8.6	IE5	**BG30-../S5E09XA4**	17	58	116	174	205	111	120	120	120	120	37	2800	-
14	2.2	157	133	1.9	9.55	IE5	**BG30-../S5E09XA4**	15.5	52	104	157	188	124	133	133	133	133	37	3000	-
14	2.2	157	133	1.9	9.55	IE2	**BG30-../SHE09SA4**	15.5	52	104	157	188	81	95	133	133	133	29	3000	-
14	2.2	140	149	1.8	10.65	IE5	**BG30-../S5E09XA4**	14	46.5	93	140	169	138	149	149	149	149	37	2950	-
14	2.2	140	149	1.8	10.65	IE2	**BG30-../SHE09SA4**	14	46.5	93	140	169	90	106	149	149	149	29	2950	-
14	2.2	126	165	1.6	11.82	IE5	**BG30-../S5E09XA4**	12.5	42	84	126	152	153	165	165	165	165	37	3200	-
14	2.2	126	165	1.6	11.82	IE2	**BG30-../SHE09SA4**	12.5	42	84	126	152	100	118	165	165	165	29	3200	-
14	2.2	108	192	1.5	13.77	IE5	**BG30-../S5E09XA4**	10.5	36	72	108	130	179	192	192	192	192	37	3150	-
14	2.2	108	192	1.5	13.77	IE2	**BG30-../SHE09SA4**	10.5	36	72	108	130	117	137	192	192	192	29	3150	-
14	2.2	98	210	1.4	15.27	IE2	**BG30-../SHE09SA4**	9.8	32.5	65	98	117	129	152	210	210	210	29	3450	-
14	2.2	98	210	1.4	15.27	IE5	**BG30-../S5E09XA4**	9.8	32.5	65	98	117	198	210	210	210	210	37	3450	-
14	2.2	87	235	1.3	17.06	IE2	**BG30-../SHE09SA4**	8.7	29	58	87	105	145	170	235	235	235	29	3700	-
14	2.2	87	235	1.3	17.06	IE5	**BG30-../S5E09XA4**	8.7	29	58	87	105	220	235	235	235	235	37	3700	-
14	2.2	79	265	1.1	18.93	IE5	**BG30-../S5E09XA4**	7.9	26	52	79	95	245	265	265	265	265	37	4100	-
14	2.2	79	265	1.1	18.93	IE2	**BG30-../SHE09SA4**	7.9	26	52	79	95	160	189	265	265	265	29	4100	-
14	2.2	75	275	1.1	19.99	IE5	**BG30-../S5E09XA4**	7.5	25	50	75	90	255	275	275	275	275	37	4200	-
14	2.2	75	275	1.1	19.99	IE2	**BG30-../SHE09SA4**	7.5	25	50	75	90	169	199	275	275	275	29	4200	-
14	2.2	67	310	0.97	22.18	IE2	**BG30-../SHE09SA4**	6.7	22.5	45	67	81	188	220	310	310	310	29	4600	-
14	2.2	67	310	0.97	22.18	IE5	**BG30-../S5E09XA4**	6.7	22.5	45	67	81	285	310	310	310	310	37	4600	-
14	2.2	58	355	0.84	25.45	IE5	**BG30-../S5E09XA4**	5.8	19.5	39	58	70	330	355	355	355	355	37	4850	-
14	2.2	58	355	0.84	25.45	IE2	**BG30-../SHE09SA4**	5.8	19.5	39	58	70	215	250	355	355	355	29	4850	-
14	2.2	196	106	2.8	7.62	IE2	**BG40-../SHE09SA4**	19.5	65	131	196	235	64	76	106	106	106	43	2650	-
14	2.2	196	106	2.8	7.62	IE5	**BG40-../S5E09XA4**	19.5	65	131	196	235	99	106	106	106	106	51	2650	-
14	2.2	180	116	2.9	8.31	IE5	**BG40-../S5E09XA4**	18	60	120	180	215	108	116	116	116	116	51	4100	-
14	2.2	180	116	2.9	8.31	IE2	**BG40-../SHE09SA4**	18	60	120	180	215	70	83	116	116	116	43	4100	-
14	2.2	166	126	2.3	9	IE2	**BG40-../SHE09SA4**	16.5	55	111	166	200	76	90	126	126	126	43	2650	-
14	2.2	166	126	2.3	9	IE5	**BG40-../S5E09XA4**	16.5	55	111	166	200	117	126	126	126	126	51	2650	-
14	2.2	162	129	2.7	9.23	IE5	**BG40-../S5E09XA4**	16	54	108	162	195	119	129	129	129	129	51	4350	-
14	2.2	162	129	2.7	9.23	IE2	**BG40-../SHE09SA4**	16	54	108	162	195	78	92	129	129	129	43	4350	-
14	2.2	144	144	2.6	10.35	IE5	**BG40-../S5E09XA4**	14	48	96	144	173	134	144	144	144	144	51	4350	-
14	2.2	144	144	2.6	10.35	IE2	**BG40-../SHE09SA4**	14	48	96	144	173	87	103	144	144	144	43	4350	-
14	2.2	130	160	2.4	11.49	IE5	**BG40-../S5E09XA4**	13	43.5	87	130	156	149	160	160	160	160	51	4600	-
14	2.2	130	160	2.4	11.49	IE2	**BG40-../SHE09SA4**	13	43.5	87	130	156	97	114	160	160	160	43	4600	-
14	2.2	116	180	2.3	12.86	IE2	**BG40-../SHE09SA4**	11.5	38.5	77	116	139	109	128	180	180	180	43	4500	-
14	2.2	116	180	2.3	12.86	IE5	**BG40-../S5E09XA4**	11.5	38.5	77	116	139	167	180	180	180	180	51	4500	-
14	2.2	105	199	2.1	14.28	IE5	**BG40-../S5E09XA4**	10.5	35	70	105	126	185	199	199	199	199	51	4900	-
14	2.2	105	199	2.1	14.28	IE2	**BG40-../SHE09SA4**	10.5	35	70	105	126	121	142	199	199	199	43	4900	-
14	2.2	91	225	1.9	16.39	IE5	**BG40-../S5E09XA4**	9.1	30.5	61	91	109	210	225	225	225	225	51	5300	-
14	2.2	91	225	1.9	16.39	IE2	**BG40-../SHE09SA4**	9.1	30.5	61	91	109	139	163	225	225	225	43	5300	-
14	2.2	82	250	1.7	18.19	IE5	**BG40-../S5E09XA4**	8.2	27	54	82	98	235	250	250	250	250	51	5600	-
14	2.2	82	250	1.7	18.19	IE2	**BG40-../SHE09SA4**	8.2	27	54	82	98	154	181	250	250	250	43	5600	-
14	2.2	75	275	1.5	19.84	IE5	**BG40-../S5E09XA4**	7.5	25	50	75	90	255	275	275	275	275	51	5800	-
14	2.2	75	275	1.5	19.84	IE2	**BG40-../SHE09SA4**	7.5	25	50	75	90	168	198	275	275	275	43	5800	-
14	2.2	68	305	1.4	22.02	IE5	**BG40-../S5E09XA4**	6.8	22.5	45	68	81	285	305	305	305	305	51	6000	-
14	2.2	68	305	1.4	22.02	IE2	**BG40-../SHE09SA4**	6.8	22.5	45	68	81	187	220	305	305	305	43	6000	-
14	2.2	64	325	1.3	23.43	IE5	**BG40-../S5E09XA4**	6.4	21	42.5	64	76	300	325	325	325	325	51	6200	-
14	2.2	64	325	1.3	23.43	IE2	**BG40-../SHE09SA4**	6.4	21	42.5	64	76	199	230	325	325	325	43	6200	-
14	2.2	57	360	1.2	26.01	IE5	**BG40-../S5E09XA4**	5.7	19	38	57	69	335	360	360	360	360	51	6500	-
14	2.2	57	360	1.2	26.01	IE2	**BG40-../SHE09SA4**	5.7	19	38	57	69	220	260	360	360	360	43	6500	-
14	2.2	51	410	1	29.34	IE5	**BG40-../S5E09XA4**	5.1	17	34	51	61	380	410	410	410	410	51	6800	-
14	2.2	51	410	1	29.34	IE2	**BG40-../SHE09SA4**	5.1	17	34	51	61	245	290	410	410	410	43	6800	-
14	2.2	46	455	0.93	32.57	IE5	**BG40-../S5E09XA4**	4.6	15	30.5	46	55	420	455	455	455	455	51	7000	-
14	2.2	46	455	0.93	32.57	IE2	**BG40-../SHE09SA4**	4.6	15	30.5	46	55	275	325	455	455	455	43	7000	-
14	2.2	43.5	475	0.89	34.2	IE5	**BG40-../S5E09XA4**	4.3	14.5	29	43.5	52	440	475	475	475	475	51	7000	-
14	2.2	43.5	475	0.89	34.2	IE2	**BG40-../SHE09SA4**	4.3	14.5	29	43.5	52	290	340	475	475	475	43	7000	-
14	2.2	39.5	530	0.8	37.96	IE5	**BG40-../S5E09XA4**	3.9	13	26	39.5	47	490	530	530	530	530	51	7000	-
14	2.2	39.5	530	0.8	37.96	IE2	**BG40-../SHE09SA4**	3.9	13	26	39.5	47	320	375	530	530	530	43	7000	-

BG-series helical-geared motors

Selection helical-geared motors - n_1 = 1500 $^1/_{min}$

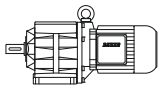
MN = 14 Nm (PN = 2.2 kW)



M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
14	2.2	90	230	2.7	16.53	IE5	**BG50-../S5E09XA4**	9	30	60	90	108	210	230	230	230	230	59	6500	-
14	2.2	90	230	2.7	16.53	IE2	**BG50-../SHE09SA4**	9	30	60	90	108	140	165	230	230	230	51	6500	-
14	2.2	81	255	2.5	18.33	IE2	**BG50-../SHE09SA4**	8.1	27	54	81	98	155	183	255	255	255	51	7200	-
14	2.2	81	255	2.5	18.33	IE5	**BG50-../S5E09XA4**	8.1	27	54	81	98	235	255	255	255	255	59	7200	-
14	2.2	68	305	2	21.96	IE5	**BG50-../S5E09XA4**	6.8	22.5	45.5	68	81	285	305	305	305	305	59	8000	-
14	2.2	68	305	2	21.96	IE2	**BG50-../SHE09SA4**	6.8	22.5	45.5	68	81	186	215	305	305	305	51	8000	-
14	2.2	61	340	1.8	24.34	IE2	**BG50-../SHE09SA4**	6.1	20.5	41	61	73	205	240	340	340	340	51	8700	-
14	2.2	61	340	1.8	24.34	IE5	**BG50-../S5E09XA4**	6.1	20.5	41	61	73	315	340	340	340	340	59	8700	-
14	2.2	50	410	1.5	29.62	IE2	**BG50-../SHE09SA4**	5	16.5	33.5	50	60	250	295	410	410	410	51	8000	-
14	2.2	50	410	1.5	29.62	IE5	**BG50-../S5E09XA4**	5	16.5	33.5	50	60	385	410	410	410	410	59	8000	-
14	2.2	45.5	455	1.4	32.84	IE5	**BG50-../S5E09XA4**	4.5	15	30	45.5	54	425	455	455	455	455	59	8700	-
14	2.2	45.5	455	1.4	32.84	IE2	**BG50-../SHE09SA4**	4.5	15	30	45.5	54	275	325	455	455	455	51	8700	-
14	2.2	39.5	530	1.2	37.89	IE2	**BG50-../SHE09SA4**	3.9	13	26	39.5	47.5	320	375	530	530	530	51	10000	-
14	2.2	39.5	530	1.2	37.89	IE5	**BG50-../S5E09XA4**	3.9	13	26	39.5	47.5	490	530	530	530	530	59	10000	-
14	2.2	35.5	580	1.1	42	IE2	**BG50-../SHE09SA4**	3.5	11.5	23.5	35.5	42.5	355	420	580	580	580	51	10000	-
14	2.2	35.5	580	1.1	42	IE5	**BG50-../S5E09XA4**	3.5	11.5	23.5	35.5	42.5	540	580	580	580	580	59	10000	-
14	2.2	31.5	650	0.96	47.02	IE2	**BG50-../SHE09SA4**	3.1	10.5	21	31.5	38	395	470	650	650	650	51	10000	-
14	2.2	31.5	650	0.96	47.02	IE5	**BG50-../S5E09XA4**	3.1	10.5	21	31.5	38	610	650	650	650	650	59	10000	-
14	2.2	28.5	720	0.86	52.12	IE5	**BG50-../S5E09XA4**	2.8	9.5	19	28.5	34.5	670	720	720	720	720	59	10000	-
14	2.2	28.5	720	0.86	52.12	IE2	**BG50-../SHE09SA4**	2.8	9.5	19	28.5	34.5	440	520	720	720	720	51	10000	-
14	2.2	51	410	2.9	29.31	IE2	**BG60-../SHE09SA4**	5.1	17	34	51	61	245	290	410	410	410	82	14800	-
14	2.2	51	410	2.9	29.31	IE5	**BG60-../S5E09XA4**	5.1	17	34	51	61	380	410	410	410	410	90	14800	-
14	2.2	46	450	2.6	32.48	IE5	**BG60-../S5E09XA4**	4.6	15	30.5	46	55	420	450	450	450	450	90	15400	-
14	2.2	46	450	2.6	32.48	IE2	**BG60-../SHE09SA4**	4.6	15	30.5	46	55	275	320	450	450	450	82	15400	-
14	2.2	38.5	540	2.2	38.85	IE5	**BG60-../S5E09XA4**	3.8	12.5	25.5	38.5	46	500	540	540	540	540	90	16000	-
14	2.2	38.5	540	2.2	38.85	IE2	**BG60-../SHE09SA4**	3.8	12.5	25.5	38.5	46	330	385	540	540	540	82	16000	-
14	2.2	34.5	600	2	43.05	IE2	**BG60-../SHE09SA4**	3.4	11.5	23	34.5	41.5	365	430	600	600	600	82	16000	-
14	2.2	34.5	600	2	43.05	IE5	**BG60-../S5E09XA4**	3.4	11.5	23	34.5	41.5	550	600	600	600	600	90	16000	-
14	2.2	29.5	700	1.7	50.31	IE5	**BG60-../S5E09XA4**	2.9	9.9	19.5	29.5	35.5	650	700	700	700	700	90	16000	-
14	2.2	29.5	700	1.7	50.31	IE2	**BG60-../SHE09SA4**	2.9	9.9	19.5	29.5	35.5	425	500	700	700	700	82	16000	-
14	2.2	26.5	780	1.5	55.76	IE2	**BG60-../SHE09SA4**	2.6	8.9	17.5	26.5	32	470	550	780	780	780	82	16000	-
14	2.2	26.5	780	1.5	55.76	IE5	**BG60-../S5E09XA4**	2.6	8.9	17.5	26.5	32	720	780	780	780	780	90	16000	-
14	2.2	24.5	850	1.4	60.9	IE2	**BG60-../SHE09SA4**	2.4	8.2	16	24.5	29.5	510	600	850	850	850	82	16000	-
14	2.2	24.5	850	1.4	60.9	IE5	**BG60-../S5E09XA4**	2.4	8.2	16	24.5	29.5	790	850	850	850	850	90	16000	-
14	2.2	22	940	1.3	67.49	IE5	**BG60-../S5E09XA4**	2.2	7.4	14.5	22	26.5	870	940	940	940	940	90	16000	-
14	2.2	22	940	1.3	67.49	IE2	**BG60-../SHE09SA4**	2.2	7.4	14.5	22	26.5	570	670	940	940	940	82	16000	-
14	2.2	21.5	950	1.3	68.32	IE2	**BG60Z-../SHE09SA4**	2.1	7.3	14.5	21.5	26	580	680	950	950	950	101	16000	-
14	2.2	21.5	950	1.3	68.32	IE5	**BG60Z-../S5E09XA4**	2.1	7.3	14.5	21.5	26	880	950	950	950	950	109	16000	-
14	2.2	19.5	1050	1.1	75.71	IE2	**BG60Z-../SHE09SA4**	1.9	6.6	13	19.5	23.5	640	750	1050	1050	1050	101	16000	-
14	2.2	19.5	1050	1.1	75.71	IE5	**BG60Z-../S5E09XA4**	1.9	6.6	13	19.5	23.5	980	1050	1050	1050	1050	109	16000	-
14	2.2	16	1270	0.94	91.09	IE5	**BG60Z-../S5E09XA4**	1.6	5.4	10.5	16	19.5	1180	1270	1270	1270	1270	109	16000	-
14	2.2	16	1270	0.94	91.09	IE2	**BG60Z-../SHE09SA4**	1.6	5.4	10.5	16	19.5	770	910	1270	1270	1270	101	16000	-
14	2.2	14.5	1410	0.85	101	IE2	**BG60Z-../SHE09SA4**	1.4	4.9	9.9	14.5	17.5	850	1010	1410	1410	1410	101	16000	-
14	2.2	14.5	1410	0.85	101	IE5	**BG60Z-../S5E09XA4**	1.4	4.9	9.9	14.5	17.5	1310	1410	1410	1410	1410	109	16000	-
14	2.2	25	830	2.7	59.82	IE5	**BG70-../S5E09XA4**	2.5	8.3	16.5	25	30	770	830	830	830	830	128	20000	-
14	2.2	25	830	2.7	59.82	IE2	**BG70-../SHE09SA4**	2.5	8.3	16.5	25	30	500	590	830	830	830	120	20000	-
14	2.2	27	760	2.5	54.64	IE5	**BG70Z-../S5E09XA4**	2.7	9.1	18	27	32.5	710	760	760	760	760	149	20000	-
14	2.2	27	760	2.5	54.64	IE2	**BG70Z-../SHE09SA4**	2.7	9.1	18	27	32.5	460	540	760	760	760	141	20000	-
14	2.2	23	900	2.5	64.85	IE5	**BG70Z-../S5E09XA4**	2.3	7.7	15	23	27.5	840	900	900	900	900	149	20000	-
14	2.2	23	900	2.5	64.85	IE2	**BG70Z-../SHE09SA4**	2.3	7.7	15	23	27.5	550	640	900	900	900	141	20000	-
14	2.2	20	1030	2.2	73.82	IE5	**BG70Z-../S5E09XA4**	2	6.7	13.5	20	24	950	1030	1030	1030	1030	149	20000	-
14	2.2	20	1030	2.2	73.82	IE2	**BG70Z-../SHE09SA4**	2	6.7	13.5	20	24	620	730	1030	1030	1030	141	20000	-
14	2.2	17	1220	1.9	87.61	IE5	**BG70Z-../S5E09XA4**	1.7	5.7	11	17	20.5	1130	1220	1220	1220	1220	149	20000	-
14	2.2	17	1220	1.9	87.61	IE2	**BG70Z-../SHE09SA4**	1.7	5.7	11	17	20.5	740	870	1220	1220	1220	141	20000	-
14	2.2	15.5	1340	1.7	95.74	IE2	**BG70Z-../SHE09SA4**	1.5	5.2	10	15.5	18.5	810	950	1340	1340	1340	141	20000	-
14	2.2	15.5	1340	1.7	95.74	IE5	**BG70Z-../S5E09XA4**	1.5	5.2	10	15.5	18.5	1240	1340	1340	1340	1340	149	20000	-
14	2.2	13	1590	1.4	113.6	IE5	**BG70Z-../S5E09XA4**	1.3	4.4	8.8	13	15.5	1470	1590	1590	1590	1590	149	20000	-
14	2.2	13	1590	1.4	113.6	IE2	**BG70Z-../SHE09SA4**	1.3	4.4	8.8	13	15.5	960	1130	1590	1590	1590	141	20000	-
14	2.2	12	1730	1.3	124	IE5	**BG70Z-../S5E09XA4**	1.2	4	8	12	14.5	1610	1730	1730	1730	1730	149	20000	-
14	2.2	12	1730	1.3	124	IE2	**BG70Z-../SHE09SA4**	1.2	4	8	12	14.5	1050	1240	1730	1730	1730	141	20000	-
14	2.2	10	2050	1.1	147.2	IE2	**BG70Z-../SHE09SA4**	1	3.3	6.7	10	12	1250	1470	2050	2050	2050	141	20000	-
14	2.2	10	2050	1.1	147.2	IE5	**BG70Z-../S5E09XA4**	1	3.3	6.7	10	12	1910	2050	2050	2050	2050	149	20000	-
14	2.2	9.1	2250	1	163.8	IE5	**BG70Z-../S5E09XA4**	0.9	3	6.1	9.1	10.5	2100	2250	2250	2250	2250	149	20000	-
14	2.2	9.1	2250	1	163.8	IE2	**BG70Z-../SHE09SA4**	0.9	3	6.1	9.1	10.5	1390	1630	2250	2250	2250	141	20000	-
14	2.2	7.7	2700	0.85	194.4	IE5	**BG70Z-../S5E09XA4**	0.75	2.5	5.1	7.7	9.2	2500	2700	2700	2700	2700	149	20000	-
14	2.2	7.7	2700	0.85	194.4	IE2	**BG70Z-../SHE09SA4**	0.75	2.5	5.1	7.7	9.2	1650	1940	2700	2700	2700	141	20000	-
14	2.2	13	1570	2.7	112.4	IE2	**BG80Z-../SHE09SA4**	1.3	4.4	8.8	13	16	950	1120	1570	1570	1570	209	26000	-
14	2.2	13	1570	2.7	112.4	IE5	**BG80Z-../S5E09XA4**	1.3	4.4	8.8	13	16	1460	1570	1570	1570	1570	217	26000	-
14	2.2	12	1740	2.4	124.8	IE5	**BG80Z-../S5E09XA4**	1.2	4	8	12	14	1620	1740	1740	1740	1740	217	26000	-
14	2.2	12	1740	2.4	124.8	IE2	**BG80Z-../SHE09SA4**	1.2	4	8	12	14	1060	1240	1740	1740	1740	209	26000	-
14	2.2	10	2000	2.1	145.4	IE2	**BG80Z-../SHE09SA4**	1	3.4	6.8	10	12	1230	1450	2000	2000	2000	209	26000	-
14	2.2	10	2000	2.1	145.4	IE5	**BG80Z-../S5E09XA4**	1	3.4	6.8	10	12	1890	2000	2000	2000	2000	217	26000	-
14	2.2	9.2	2250	1.9	161.5	IE5	**BG80Z-../S5E09XA4**	0.9	3	6.1	9.2	11	2050	2250	2250	2250	2250	217	26000	-
14	2.2	9.2	2250	1.9	161.5	IE2	**BG80Z-../SHE09SA4**	0.9	3	6.1	9.2	11	1370	1610	2250	2250	2250	209	26000	-
14	2.2	8	2600	1.6	186.8	IE5	**BG80Z-../S5E09XA4**	0.8	2.6	5.3	8	9.6	2400	2600	2600	2600	2600	217	26000	-
14	2.2	8	2600	1.6	186.8	IE2	**BG80Z-../SHE09SA4**	0.8	2.6	5.3	8	9.6	1580	1860	2600	2600	2600	209	26000	-
14	2.2	7.2	2900	1.4	207.4	IE5	**BG80Z-../S5E09XA4**	0.7	2.4	4.8	7.2	8.6	2650	2900	2900	2900	2900	217	26000	-
14	2.2	7.2	2900	1.4	207.4	IE2	**BG80Z-../SHE09SA4**	0.7	2.4	4.8	7.2	8.6	1760	2050	2900	2900	2900	209	26000	-
14	2.2	6.6	3150	1.4	227.2	IE2	**BG80G40-../SHE09SA4**	0.65	2.2	4.4	6.6	7.9	1930	2250	3150	3150	3150	220	26000	-

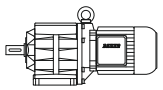
6

MN = 14 Nm (PN = 2.2 kW)



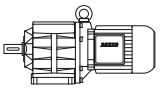
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
14	2.2	6.6	3150	1.4	227.2	IE5	**BG80G40-../S5E09XA4**	0.65	2.2	4.4	6.6	7.9	2950	3150	3150	3150	3150	228	26000	-
14	2.2	5.9	3500	1.3	252.3	IE5	**BG80G40-../S5E09XA4**	0.55	1.9	3.9	5.9	7.1	3250	3500	3500	3500	3500	228	26000	-
14	2.2	5.9	3500	1.3	252.3	IE2	**BG80G40-../SHE09SA4**	0.55	1.9	3.9	5.9	7.1	2100	2500	3500	3500	3500	220	26000	-
14	2.2	5.3	3950	1.2	282.8	IE5	**BG80G40-../S5E09XA4**	0.5	1.7	3.5	5.3	6.3	3650	3950	3950	3950	3950	228	26000	-
14	2.2	5.3	3950	1.2	282.8	IE2	**BG80G40-../SHE09SA4**	0.5	1.7	3.5	5.3	6.3	2400	2800	3950	3950	3950	220	26000	-
14	2.2	4.7	4350	1	314	IE2	**BG80G40-../SHE09SA4**	0.47	1.5	3.1	4.7	5.7	2650	3100	4350	4350	4350	220	26000	-
14	2.2	4.7	4350	1	314	IE5	**BG80G40-../S5E09XA4**	0.47	1.5	3.1	4.7	5.7	4050	4350	4350	4350	4350	228	26000	-
14	2.2	4.1	5000	0.91	360	IE5	**BG80G40-../S5E09XA4**	0.41	1.3	2.7	4.1	5	4650	5000	5000	5000	5000	228	26000	-
14	2.2	4.1	5000	0.91	360	IE2	**BG80G40-../SHE09SA4**	0.41	1.3	2.7	4.1	5	3050	3600	5000	5000	5000	220	26000	-
14	2.2	3.7	5500	0.82	399.8	IE5	**BG80G40-../S5E09XA4**	0.37	1.2	2.5	3.7	4.5	5100	5500	5500	5500	5500	228	26000	-
14	2.2	3.7	5500	0.82	399.8	IE2	**BG80G40-../SHE09SA4**	0.37	1.2	2.5	3.7	4.5	3350	3950	5500	5500	5500	220	26000	-
14	2.2	7.2	2900	2.9	208.3	IE5	**BG90Z-../S5E09XA4**	0.7	2.4	4.8	7.2	8.6	2700	2900	2900	2900	2900	327	65000	-
14	2.2	7.2	2900	2.9	208.3	IE2	**BG90Z-../SHE09SA4**	0.7	2.4	4.8	7.2	8.6	1770	2050	2900	2900	2900	319	65000	-
14	2.2	6.5	3150	2.6	228.1	IE5	**BG90Z-../S5E09XA4**	0.65	2.1	4.3	6.5	7.8	2950	3150	3150	3150	3150	327	65000	-
14	2.2	6.5	3150	2.6	228.1	IE2	**BG90Z-../SHE09SA4**	0.65	2.1	4.3	6.5	7.8	1930	2250	3150	3150	3150	319	65000	-
14	2.2	6.8	3050	3	219.9	IE5	**BG90G50-../S5E09XA4**	0.65	2.2	4.5	6.8	8.1	2850	3050	3050	3050	3050	338	65000	-
14	2.2	6.8	3050	3	219.9	IE2	**BG90G50-../SHE09SA4**	0.65	2.2	4.5	6.8	8.1	1860	2150	3050	3050	3050	330	65000	-
14	2.2	5.7	3650	2.5	262.5	IE5	**BG90G50-../S5E09XA4**	0.55	1.9	3.8	5.7	6.8	3400	3650	3650	3650	3650	338	65000	-
14	2.2	5.7	3650	2.5	262.5	IE2	**BG90G50-../SHE09SA4**	0.55	1.9	3.8	5.7	6.8	2200	2600	3650	3650	3650	330	65000	-
14	2.2	5	4150	2.2	298.8	IE5	**BG90G50-../S5E09XA4**	0.5	1.6	3.3	5	6	3850	4150	4150	4150	4150	338	65000	-
14	2.2	5	4150	2.2	298.8	IE2	**BG90G50-../SHE09SA4**	0.5	1.6	3.3	5	6	2500	2950	4150	4150	4150	330	65000	-
14	2.2	4.1	5000	1.8	360.3	IE5	**BG90G50-../S5E09XA4**	0.41	1.3	2.7	4.1	4.9	4650	5000	5000	5000	5000	338	65000	-
14	2.2	4.1	5000	1.8	360.3	IE2	**BG90G50-../SHE09SA4**	0.41	1.3	2.7	4.1	4.9	3050	3600	5000	5000	5000	330	65000	-
14	2.2	3.4	6100	1.5	435.8	IE5	**BG90G50-../S5E09XA4**	0.34	1.1	2.2	3.4	4.1	5600	6100	6100	6100	6100	338	65000	-
14	2.2	3.4	6100	1.5	435.8	IE2	**BG90G50-../SHE09SA4**	0.34	1.1	2.2	3.4	4.1	3700	4350	6100	6100	6100	330	65000	-
14	2.2	2.9	7000	1.3	504.7	IE5	**BG90G50-../S5E09XA4**	0.29	0.95	1.9	2.9	3.5	6500	7000	7000	7000	7000	338	65000	-
14	2.2	2.9	7000	1.3	504.7	IE2	**BG90G50-../SHE09SA4**	0.29	0.95	1.9	2.9	3.5	4250	5000	7000	7000	7000	330	65000	-
14	2.2	2.5	8200	1.1	588.8	IE5	**BG90G50-../S5E09XA4**	0.25	0.8	1.6	2.5	3	7600	8200	8200	8200	8200	338	65000	-
14	2.2	2.5	8200	1.1	588.8	IE2	**BG90G50-../SHE09SA4**	0.25	0.8	1.6	2.5	3	5000	5800	8200	8200	8200	330	65000	-
14	2.2	2.3	9000	1	644.7	IE2	**BG90G50-../SHE09SA4**	0.23	0.75	1.5	2.3	2.7	5400	6400	9000	9000	9000	330	65000	-
14	2.2	2.3	9000	1	644.7	IE5	**BG90G50-../S5E09XA4**	0.23	0.75	1.5	2.3	2.7	8300	9000	9000	9000	9000	338	65000	-
14	2.2	2.1	9900	0.92	714.2	IE5	**BG90G50-../S5E09XA4**	0.21	0.7	1.4	2.1	2.5	9200	9900	9900	9900	9900	338	65000	-
14	2.2	2.1	9900	0.92	714.2	IE2	**BG90G50-../SHE09SA4**	0.21	0.7	1.4	2.1	2.5	6000	7100	9900	9900	9900	330	65000	-
14	2.2	3.2	6300	2.9	456.7	IE5	**BG100Z-../S5E09XA4**	0.32	1	2.1	3.2	3.9	5900	6300	6300	6300	6300	526	90000	-
14	2.2	3.2	6300	2.9	456.7	IE2	**BG100Z-../SHE09SA4**	0.32	1	2.1	3.2	3.9	3850	4550	6300	6300	6300	518	90000	-
14	2.2	2.9	7100	2.6	508.5	IE5	**BG100Z-../S5E09XA4**	0.29	0.95	1.9	2.9	3.5	6600	7100	7100	7100	7100	526	90000	-
14	2.2	2.9	7100	2.6	508.5	IE2	**BG100Z-../SHE09SA4**	0.29	0.95	1.9	2.9	3.5	4300	5000	7100	7100	7100	518	90000	-
14	2.2	2.5	8200	2.2	591.1	IE5	**BG100Z-../S5E09XA4**	0.25	0.8	1.6	2.5	3	7600	8200	8200	8200	8200	526	90000	-
14	2.2	2.5	8200	2.2	591.1	IE2	**BG100Z-../SHE09SA4**	0.25	0.8	1.6	2.5	3	5000	5900	8200	8200	8200	518	90000	-
14	2.2	2.2	9200	2	658.1	IE2	**BG100Z-../SHE09SA4**	0.22	0.75	1.5	2.2	2.7	5500	6500	9200	9200	9200	518	90000	-
14	2.2	2.2	9200	2	658.1	IE5	**BG100Z-../S5E09XA4**	0.22	0.75	1.5	2.2	2.7	8500	9200	9200	9200	9200	526	90000	-
14	2.2	1.9	10600	1.7	759	IE5	**BG100Z-../S5E09XA4**	0.19	0.65	1.3	1.9	2.3	9800	10600	10600	10600	10600	526	90000	-
14	2.2	1.9	10600	1.7	759	IE2	**BG100Z-../SHE09SA4**	0.19	0.65	1.3	1.9	2.3	6400	7500	10600	10600	10600	518	90000	-
14	2.2	1.7	11800	1.6	845.1	IE5	**BG100Z-../S5E09XA4**	0.17	0.55	1.1	1.7	2.1	10900	11800	11800	11800	11800	526	90000	-
14	2.2	1.7	11800	1.6	845.1	IE2	**BG100Z-../SHE09SA4**	0.17	0.55	1.1	1.7	2.1	7100	8400	11800	11800	11800	518	90000	-
14	2.2	1.5	13600	1.4	976.1	IE5	**BG100G50-../S5E09XA4**	0.15	0.5	1	1.5	1.8	12600	13600	13600	13600	13600	525	90000	-
14	2.2	1.5	13600	1.4	976.1	IE2	**BG100G50-../SHE09SA4**	0.15	0.5	1	1.5	1.8	8200	9700	13600	13600	13600	517	90000	-
14	2.2	1.4	14600	1.3	1043	IE2	**BG100G50-../SHE09SA4**	0.14	0.47	0.95	1.4	1.7	8800	10400	14600	14600	14600	517	90000	-
14	2.2	1.4	14600	1.3	1043	IE5	**BG100G50-../S5E09XA4**	0.14	0.47	0.95	1.4	1.7	13500	14600	14600	14600	14600	525	90000	-
14	2.2	1.2	16800	1.1	1204	IE5	**BG100G50-../S5E09XA4**	0.12	0.41	0.8	1.2	1.4	15600	16800	16800	16800	16800	525	90000	-
14	2.2	1.2	16800	1.1	1204	IE2	**BG100G50-../SHE09SA4**	0.12	0.41	0.8	1.2	1.4	10200	12000	16800	16800	16800	517	90000	-
14	2.2	1	20000	0.92	1444	IE5	**BG100G50-../S5E09XA4**	0.1	0.34	0.65	1	1.2	18700	20000	20000	20000	20000	525	90000	-
14	2.2	1	20000	0.92	1444	IE2	**BG100G50-../SHE09SA4**	0.1	0.34	0.65	1	1.2	12200	14400	20000	20000	20000	517	90000	-

MN = 19 Nm (PN = 3 kW)



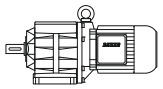
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
19	3	560	50	2.5	2.67	IE4	**BG30-../S4E11SA6**	56	187	370	560	670	50	50	50	50	50	46	1450	-
19	3	440	64	2.2	3.4	IE4	**BG30-../S4E11SA6**	44	147	290	440	520	64	64	64	64	64	46	1580	-
19	3	355	79	2.1	4.21	IE4	**BG30-../S4E11SA6**	35.5	118	235	355	425	79	79	79	79	79	46	1630	-
19	3	275	103	1.9	5.44	IE4	**BG30-../S4E11SA6**	27.5	91	183	275	330	103	103	103	103	103	46	1670	-
19	3	220	128	1.8	6.76	IE4	**BG30-../S4E11SA6**	22	73	147	220	265	128	128	128	128	128	46	2550	-
19	3	220	128	1.7	6.75	IE4	**BG30-../S4E11SA6**	22	74	148	220	265	128	128	128	128	128	46	1760	-
19	3	200	142	1.6	7.5	IE4	**BG30-../S4E11SA6**	20	66	133	200	240	142	142	142	142	142	46	2750	-
19	3	189	150	1.4	7.91	IE4	**BG30-../S4E11SA6**	18.5	63	126	189	225	150	150	150	150	150	46	1760	-
19	3	174	163	1.5	8.6	IE4	**BG30-../S4E11SA6**	17	58	116	174	205	163	163	163	163	163	46	2800	-
19	3	157	181	1.4	9.55	IE4	**BG30-../S4E11SA6**	15.5	52	104	157	188	181	181	181	181	181	46	3000	-
19	3	140	200	1.3	10.65	IE4	**BG30-../S4E11SA6**	14	46.5	93	140	169	200	200	200	200	200	46	2950	-
19	3	126	220	1.2	11.82	IE4	**BG30-../S4E11SA6**	12.5	42	84	126	152	220	220	220	220	220	46	3200	-
19	3	108	260	1.1	13.77	IE4	**BG30-../S4E11SA6**	10.5	36	72	108	130	260	260	260	260	260	46	3150	-
19	3	98	290	1	15.27	IE4	**BG30-../S4E11SA6**	9.8	32.5	65	98	117	290	290	290	290	290	46	3450	-
19	3	87	320	0.93	17.06	IE4	**BG30-../S4E11SA6**	8.7	29	58	87	105	320	320	320	320	320	46	3700	-
19	3	79	355	0.83	18.93	IE4	**BG30-../S4E11SA6**	7.9	26	52	79	95	355	355	355	355	355	46	4100	-

MN = 19 Nm (PN = 3 kW)



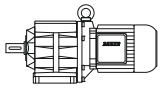
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
19	3	300	93	2.8	4.94	IE4	**BG40-../S4E11SA6**	30	101	200	300	360	93	93	93	93	93	65	2450	-
19	3	235	119	2.5	6.29	IE4	**BG40-../S4E11SA6**	23.5	79	158	235	285	119	119	119	119	119	65	2600	-
19	3	230	121	2.6	6.4	IE4	**BG40-../S4E11SA6**	23	78	156	230	280	121	121	121	121	121	65	3750	-
19	3	210	135	2.4	7.11	IE4	**BG40-../S4E11SA6**	21	70	140	210	250	135	135	135	135	135	65	3950	-
19	3	196	144	2	7.62	IE4	**BG40-../S4E11SA6**	19.5	65	131	196	235	144	144	144	144	144	65	2650	-
19	3	180	157	2.2	8.31	IE4	**BG40-../S4E11SA6**	18	60	120	180	215	157	157	157	157	157	65	4100	-
19	3	166	171	1.7	9	IE4	**BG40-../S4E11SA6**	16.5	55	111	166	200	171	171	171	171	171	65	2650	-
19	3	162	175	2	9.23	IE4	**BG40-../S4E11SA6**	16	54	108	162	195	175	175	175	175	175	65	4350	-
19	3	144	196	1.9	10.35	IE4	**BG40-../S4E11SA6**	14	48	96	144	173	196	196	196	196	196	65	4350	-
19	3	130	215	1.8	11.49	IE4	**BG40-../S4E11SA6**	13	43.5	87	130	156	215	215	215	215	215	65	4600	-
19	3	116	240	1.7	12.86	IE4	**BG40-../S4E11SA6**	11.5	38.5	77	116	139	240	240	240	240	240	65	4500	-
19	3	105	270	1.5	14.28	IE4	**BG40-../S4E11SA6**	10.5	35	70	105	126	270	270	270	270	270	65	4900	-
19	3	91	310	1.4	16.39	IE4	**BG40-../S4E11SA6**	9.1	30.5	61	91	109	310	310	310	310	310	65	5300	-
19	3	82	345	1.2	18.19	IE4	**BG40-../S4E11SA6**	8.2	27	54	82	98	345	345	345	345	345	65	5600	-
19	3	75	375	1.1	19.84	IE4	**BG40-../S4E11SA6**	7.5	25	50	75	90	375	375	375	375	375	65	5800	-
19	3	68	415	1	22.02	IE4	**BG40-../S4E11SA6**	6.8	22.5	45	68	81	415	415	415	415	415	65	6000	-
19	3	64	445	0.95	23.43	IE4	**BG40-../S4E11SA6**	6.4	21	42.5	64	76	445	445	445	445	445	65	6200	-
19	3	57	490	0.86	26.01	IE4	**BG40-../S4E11SA6**	5.7	19	38	57	69	490	490	490	490	490	65	6500	-
19	3	172	165	3	8.7	IE4	**BG50-../S4E11SA6**	17	57	114	172	205	165	165	165	165	165	75	5300	-
19	3	155	183	2.8	9.65	IE4	**BG50-../S4E11SA6**	15.5	51	103	155	186	183	183	183	183	183	75	5600	-
19	3	124	225	2.5	12.06	IE4	**BG50-../S4E11SA6**	12	41	82	124	149	225	225	225	225	225	75	5700	-
19	3	112	250	2.3	13.36	IE4	**BG50-../S4E11SA6**	11	37	74	112	134	250	250	250	250	250	75	6100	-
19	3	90	310	2	16.53	IE4	**BG50-../S4E11SA6**	9	30	60	90	108	310	310	310	310	310	75	6500	-
19	3	81	345	1.8	18.33	IE4	**BG50-../S4E11SA6**	8.1	27	54	81	98	345	345	345	345	345	75	7200	-
19	3	68	415	1.5	21.96	IE4	**BG50-../S4E11SA6**	6.8	22.5	45.5	68	81	415	415	415	415	415	75	8000	-
19	3	61	460	1.4	24.34	IE4	**BG50-../S4E11SA6**	6.1	20.5	41	61	73	460	460	460	460	460	75	8700	-
19	3	50	560	1.1	29.62	IE4	**BG50-../S4E11SA6**	5	16.5	33.5	50	60	560	560	560	560	560	75	8000	-
19	3	45.5	620	1	32.84	IE4	**BG50-../S4E11SA6**	4.5	15	30	45.5	54	620	620	620	620	620	75	8700	-
19	3	39.5	710	0.88	37.89	IE4	**BG50-../S4E11SA6**	3.9	13	26	39.5	47.5	710	710	710	710	710	75	10000	-
19	3	66	425	2.8	22.4	IE4	**BG60-../S4E11SA6**	6.6	22	44.5	66	80	425	425	425	425	425	107	13300	-
19	3	60	470	2.5	24.82	IE4	**BG60-../S4E11SA6**	6	20	40	60	72	470	470	470	470	470	107	13800	-
19	3	51	550	2.2	29.31	IE4	**BG60-../S4E11SA6**	5.1	17	34	51	61	550	550	550	550	550	107	14800	-
19	3	46	610	1.9	32.48	IE4	**BG60-../S4E11SA6**	4.6	15	30.5	46	55	610	610	610	610	610	107	15400	-
19	3	38.5	730	1.6	38.85	IE4	**BG60-../S4E11SA6**	3.8	12.5	25.5	38.5	46	730	730	730	730	730	107	16000	-
19	3	34.5	810	1.5	43.05	IE4	**BG60-../S4E11SA6**	3.4	11.5	23	34.5	41.5	810	810	810	810	810	107	16000	-
19	3	29.5	950	1.3	50.31	IE4	**BG60-../S4E11SA6**	2.9	9.9	19.5	29.5	35.5	950	950	950	950	950	107	16000	-
19	3	26.5	1050	1.1	55.76	IE4	**BG60-../S4E11SA6**	2.6	8.9	17.5	26.5	32	1050	1050	1050	1050	1050	107	16000	-
19	3	24.5	1150	1	60.9	IE4	**BG60-../S4E11SA6**	2.4	8.2	16	24.5	29.5	1150	1150	1150	1150	1150	107	16000	-
19	3	22	1280	0.94	67.49	IE4	**BG60-../S4E11SA6**	2.2	7.4	14.5	22	26.5	1280	1280	1280	1280	1280	107	16000	-
19	3	21.5	1290	0.92	68.32	IE4	**BG60Z-../S4E11SA6**	2.1	7.3	14.5	21.5	26	1290	1290	1290	1290	1290	123	16000	-
19	3	19.5	1430	0.83	75.71	IE4	**BG60Z-../S4E11SA6**	1.9	6.6	13	19.5	23.5	1430	1430	1430	1430	1430	123	16000	-
19	3	32	880	2.6	46.54	IE4	**BG70-../S4E11SA6**	3.2	10.5	21	32	38.5	880	880	880	880	880	138	20000	-
19	3	29.5	950	2.4	50.4	IE4	**BG70-../S4E11SA6**	2.9	9.9	19.5	29.5	35.5	950	950	950	950	950	138	20000	-
19	3	25	1130	2	59.82	IE4	**BG70-../S4E11SA6**	2.5	8.3	16.5	25	30	1130	1130	1130	1130	1130	138	20000	-
19	3	27	1030	1.9	54.64	IE4	**BG70Z-../S4E11SA6**	2.7	9.1	18	27	32.5	1030	1030	1030	1030	1030	164	20000	-
19	3	23	1230	1.9	64.85	IE4	**BG70Z-../S4E11SA6**	2.3	7.7	15	23	27.5	1230	1230	1230	1230	1230	164	20000	-
19	3	20	1400	1.6	73.82	IE4	**BG70Z-../S4E11SA6**	2	6.7	13.5	20	24	1400	1400	1400	1400	1400	164	20000	-
19	3	17	1660	1.4	87.61	IE4	**BG70Z-../S4E11SA6**	1.7	5.7	11	17	20.5	1660	1660	1660	1660	1660	164	20000	-
19	3	15.5	1810	1.3	95.74	IE4	**BG70Z-../S4E11SA6**	1.5	5.2	10	15.5	18.5	1810	1810	1810	1810	1810	164	20000	-
19	3	13	2150	1.1	113.6	IE4	**BG70Z-../S4E11SA6**	1.3	4.4	8.8	13	15.5	2150	2150	2150	2150	2150	164	20000	-
19	3	12	2350	0.98	124	IE4	**BG70Z-../S4E11SA6**	1.2	4	8	12	14.5	2350	2350	2350	2350	2350	164	20000	-
19	3	10	2750	0.82	147.2	IE4	**BG70Z-../S4E11SA6**	1	3.3	6.7	10	12	2750	2750	2750	2750	2750	164	20000	-
19	3	20	1400	3	73.73	IE4	**BG80Z-../S4E11SA6**	2	6.7	13.5	20	24	1400	1400	1400	1400	1400	234	26000	-
19	3	17.5	1600	2.6	84.55	IE4	**BG80Z-../S4E11SA6**	1.7	5.9	11.5	17.5	21	1600	1600	1600	1600	1600	234	26000	-
19	3	15.5	1780	2.4	93.89	IE4	**BG80Z-../S4E11SA6**	1.5	5.3	10.5	15.5	19	1780	1780	1780	1780	1780	234	26000	-
19	3	13	2100	2	112.4	IE4	**BG80Z-../S4E11SA6**	1.3	4.4	8.8	13	16	2100	2100	2100	2100	2100	234	26000	-
19	3	12	2350	1.8	124.8	IE4	**BG80Z-../S4E11SA6**	1.2	4	8	12	14	2350	2350	2350	2350	2350	234	26000	-
19	3	10	2750	1.5	145.4	IE4	**BG80Z-../S4E11SA6**	1	3.4	6.8	10	12	2750	2750	2750	2750	2750	234	26000	-
19	3	9.2	3050	1.4	161.5	IE4	**BG80Z-../S4E11SA6**	0.9	3	6.1	9.2	11	3050	3050	3050	3050	3050	234	26000	-
19	3	8	3500	1.2	186.8	IE4	**BG80Z-../S4E11SA6**	0.8	2.6	5.3	8	9.6	3500	3500	3500	3500	3500	234	26000	-
19	3	7.2	3900	1.1	207.4	IE4	**BG80Z-../S4E11SA6**	0.7	2.4	4.8	7.2	8.6	3900	3900	3900	3900	3900	234	26000	-
19	3	6.6	4300	1.1	227.2	IE4	**BG80G40-../S4E11SA6**	0.65	2.2	4.4	6.6	7.9	4300	4300	4300	4300	4300	242	26000	-
19	3	5.9	4750	0.96	252.3	IE4	**BG80G40-../S4E11SA6**	0.55	1.9	3.9	5.9	7.1	4750	4750	4750	4750	4750	242	26000	-
19	3	5.3	5300	0.86	282.8	IE4	**BG80G40-../S4E11SA6**	0.5	1.7	3.5	5.3	6.3	5300	5300	5300	5300	5300	242	26000	-
19	3	9.2	3050	2.7	163	IE4	**BG90Z-../S4E11SA6**	0.9	3	6.1	9.2	11	3050	3050	3050	3050	3050	336	65000	-
19	3	8.4	3350	2.5	178.5	IE4	**BG90Z-../S4E11SA6**	0.8	2.8	5.6	8.4	10	3350	3350	3350	3350	3350	336	65000	-
19	3	7.2	3950	2.1	208.3	IE4	**BG90Z-../S4E11SA6**	0.7	2.4	4.8	7.2	8.6	3950	3950	3950	3950	3950	336	65000	-
19	3	6.5	4300	1.9	228.1	IE4	**BG90Z-../S4E11SA6**	0.65	2.1	4.3	6.5	7.8	4300	4300	4300	4300	4300	336	65000	-
19	3	6.8	4150	2.2	219.9	IE4	**BG90G50-../S4E11SA6**	0.65	2.2	4.5	6.8	8.1	4150	4150	4150	4150	4150	353	65000	-
19	3	5.7	4950	1.8	262.5	IE4	**BG90G50-../S4E11SA6**	0.55	1.9	3.8	5.7	6.8	4950	4950	4950	4950	4950	353	65000	-
19	3	5	5600	1.6	298.8	IE4	**BG90G50-../S4E11SA6**	0.5	1.6	3.3	5	6	5600	5600	5600	5600	5600	353	65000	-
19	3	4.1	6800	1.3	360.3	IE4	**BG90G50-../S4E11SA6**	0.41	1.3	2.7	4.1	4.9	6800	6800	6800	6800	6800	353	65000	-
19	3	3.4	8200	1.1	435.8	IE4	**BG90G50-../S4E11SA6**	0.34	1.1	2.2	3.4	4.1	8200	8200	8200	8200	8200	353	65000	-
19	3	2.9	9500	0.96	504.7	IE4	**BG90G50-../S4E11SA6**	0.29	0.95	1.9	2.9	3.5	9500	9500	9500	9500	9500	353	65000	-
19	3	2.5	11100	0.82	588.8	IE4	**BG90G50-../S4E11SA6**	0.25	0.8	1.6	2.5	3	11100	11100	11100	11100	11100	353	65000	-
19	3	4.3	6500	2.8	343.6	IE4	**BG100Z-../S4E11SA6**	0.43	1.4	2.9	4.3	5.2	6500	6500	6500	6500	6500	543	90000	-

MN = 19 Nm (PN = 3 kW)



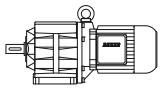
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
19	3	3.9	7200	2.5	382.6	IE4	**BG100Z-../S4E11SA6**	0.39	1.3	2.6	3.9	4.7	7200	7200	7200	7200	7200	543	90000	-
19	3	3.2	8600	2.1	456.7	IE4	**BG100Z-../S4E11SA6**	0.32	1	2.1	3.2	3.9	8600	8600	8600	8600	8600	543	90000	-
19	3	2.9	9600	1.9	508.5	IE4	**BG100Z-../S4E11SA6**	0.29	0.95	1.9	2.9	3.5	9600	9600	9600	9600	9600	543	90000	-
19	3	2.5	11200	1.6	591.1	IE4	**BG100Z-../S4E11SA6**	0.25	0.8	1.6	2.5	3	11200	11200	11200	11200	11200	543	90000	-
19	3	2.2	12500	1.5	658.1	IE4	**BG100Z-../S4E11SA6**	0.22	0.75	1.5	2.2	2.7	12500	12500	12500	12500	12500	543	90000	-
19	3	1.9	14400	1.3	759	IE4	**BG100Z-../S4E11SA6**	0.19	0.65	1.3	1.9	2.3	14400	14400	14400	14400	14400	543	90000	-
19	3	1.7	16000	1.2	845.1	IE4	**BG100Z-../S4E11SA6**	0.17	0.55	1.1	1.7	2.1	16000	16000	16000	16000	16000	543	90000	-
19	3	1.5	18500	1	976.1	IE4	**BG100G50-../S4E11SA6**	0.15	0.5	1	1.5	1.8	18500	18500	18500	18500	18500	540	90000	-
19	3	1.4	19800	0.93	1043	IE4	**BG100G50-../S4E11SA6**	0.14	0.47	0.95	1.4	1.7	19800	19800	19800	19800	19800	540	90000	-
19	3	1.2	22500	0.81	1204	IE4	**BG100G50-../S4E11SA6**	0.12	0.41	0.8	1.2	1.4	22500	22500	22500	22500	22500	540	90000	-

MN = 20 Nm (PN = 3.1 kW)



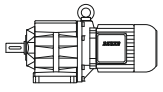
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
20	3.1	590	50	1.1	2.52	IE3	**BG10-../SPE09XA4**	59	198	395	590	710	32.5	40	50	50	50	30	570	790
20	3.1	435	68	0.91	3.42	IE3	**BG10-../SPE09XA4**	43.5	146	290	435	520	44	54	68	68	68	30	630	880
20	3.1	590	50	1.7	2.52	IE3	**BG20-../SPE09XA4**	59	198	395	590	710	32.5	40	50	50	50	32	1650	-
20	3.1	450	66	1.4	3.33	IE3	**BG20-../SPE09XA4**	45	150	300	450	540	43	53	66	66	66	32	1830	-
20	3.1	340	87	1.2	4.38	IE3	**BG20-../SPE09XA4**	34	114	225	340	410	56	70	87	87	87	32	1990	-
20	3.1	270	109	1	5.49	IE3	**BG20-../SPE09XA4**	27	91	182	270	325	71	87	109	109	109	32	2100	-
20	3.1	245	121	1	6.06	IE3	**BG20-../SPE09XA4**	24.5	82	165	245	295	78	96	121	121	121	32	2250	-
20	3.1	230	129	0.94	6.48	IE3	**BG20-../SPE09XA4**	23	77	154	230	275	84	103	129	129	129	32	2250	-
20	3.1	220	134	0.97	6.73	IE3	**BG20-../SPE09XA4**	22	74	148	220	265	87	107	134	134	134	32	2350	2100
20	3.1	187	160	0.85	8.02	IE3	**BG20-../SPE09XA4**	18.5	62	124	187	220	104	128	160	160	160	32	2500	-
20	3.1	168	178	0.8	8.91	IE3	**BG20-../SPE09XA4**	16.5	56	112	168	200	115	142	178	178	178	32	2600	-
20	3.1	560	53	2.4	2.67	IE3	**BG30-../SPE09XA4**	56	187	370	560	670	34.5	42.5	53	53	53	37	1450	-
20	3.1	440	68	2	3.4	IE3	**BG30-../SPE09XA4**	44	147	290	440	520	44	54	68	68	68	37	1580	-
20	3.1	355	84	2	4.21	IE3	**BG30-../SPE09XA4**	35.5	118	235	355	425	54	67	84	84	84	37	1630	-
20	3.1	275	108	1.8	5.44	IE3	**BG30-../SPE09XA4**	27.5	91	183	275	330	70	87	108	108	108	37	1670	-
20	3.1	220	135	1.7	6.76	IE3	**BG30-../SPE09XA4**	22	73	147	220	265	87	108	135	135	135	37	2550	-
20	3.1	220	135	1.6	6.75	IE3	**BG30-../SPE09XA4**	22	74	148	220	265	87	108	135	135	135	37	1760	-
20	3.1	200	150	1.5	7.5	IE3	**BG30-../SPE09XA4**	20	66	133	200	240	97	120	150	150	150	37	2750	-
20	3.1	189	158	1.4	7.91	IE3	**BG30-../SPE09XA4**	18.5	63	126	189	225	102	126	158	158	158	37	1760	-
20	3.1	174	172	1.4	8.6	IE3	**BG30-../SPE09XA4**	17	58	116	174	205	111	137	172	172	172	37	2800	-
20	3.1	157	191	1.3	9.55	IE3	**BG30-../SPE09XA4**	15.5	52	104	157	188	124	152	191	191	191	37	3000	-
20	3.1	140	210	1.2	10.65	IE3	**BG30-../SPE09XA4**	14	46.5	93	140	169	138	170	210	210	210	37	2950	-
20	3.1	126	235	1.1	11.82	IE3	**BG30-../SPE09XA4**	12.5	42	84	126	152	153	189	235	235	235	37	3200	-
20	3.1	108	275	1.1	13.77	IE3	**BG30-../SPE09XA4**	10.5	36	72	108	130	179	220	275	275	275	37	3150	-
20	3.1	98	305	0.98	15.27	IE3	**BG30-../SPE09XA4**	9.8	32.5	65	98	117	198	240	305	305	305	37	3450	-
20	3.1	87	340	0.88	17.06	IE3	**BG30-../SPE09XA4**	8.7	29	58	87	105	220	270	340	340	340	37	3700	-
20	3.1	375	79	3	3.97	IE3	**BG40-../SPE09XA4**	37.5	125	250	375	450	51	63	79	79	79	51	2400	-
20	3.1	300	98	2.7	4.94	IE3	**BG40-../SPE09XA4**	30	101	200	300	360	64	79	98	98	98	51	2450	-
20	3.1	235	125	2.3	6.29	IE3	**BG40-../SPE09XA4**	23.5	79	158	235	285	81	100	125	125	125	51	2600	-
20	3.1	230	128	2.4	6.4	IE3	**BG40-../SPE09XA4**	23	78	156	230	280	83	102	128	128	128	51	3750	-
20	3.1	210	142	2.3	7.11	IE3	**BG40-../SPE09XA4**	21	70	140	210	250	92	113	142	142	142	51	3950	-
20	3.1	196	152	1.9	7.62	IE3	**BG40-../SPE09XA4**	19.5	65	131	196	235	99	121	152	152	152	51	2650	-
20	3.1	180	166	2	8.31	IE3	**BG40-../SPE09XA4**	18	60	120	180	215	108	132	166	166	166	51	4100	-
20	3.1	166	180	1.6	9	IE3	**BG40-../SPE09XA4**	16.5	55	111	166	200	117	144	180	180	180	51	2650	-
20	3.1	162	184	1.9	9.23	IE3	**BG40-../SPE09XA4**	16	54	108	162	195	119	147	184	184	184	51	4350	-
20	3.1	144	205	1.8	10.35	IE3	**BG40-../SPE09XA4**	14	48	96	144	173	134	165	205	205	205	51	4350	-
20	3.1	130	225	1.7	11.49	IE3	**BG40-../SPE09XA4**	13	43.5	87	130	156	149	183	225	225	225	51	4600	-
20	3.1	116	255	1.6	12.86	IE3	**BG40-../SPE09XA4**	11.5	38.5	77	116	139	167	205	255	255	255	51	4500	-
20	3.1	105	285	1.5	14.28	IE3	**BG40-../SPE09XA4**	10.5	35	70	105	126	185	225	285	285	285	51	4900	-
20	3.1	91	325	1.3	16.39	IE3	**BG40-../SPE09XA4**	9.1	30.5	61	91	109	210	260	325	325	325	51	5300	-
20	3.1	82	360	1.2	18.19	IE3	**BG40-../SPE09XA4**	8.2	27	54	82	98	235	290	360	360	360	51	5600	-
20	3.1	75	395	1.1	19.84	IE3	**BG40-../SPE09XA4**	7.5	25	50	75	90	255	315	395	395	395	51	5800	-
20	3.1	68	440	0.97	22.02	IE3	**BG40-../SPE09XA4**	6.8	22.5	45	68	81	285	350	440	440	440	51	6000	-
20	3.1	64	465	0.91	23.43	IE3	**BG40-../SPE09XA4**	6.4	21	42.5	64	76	300	370	465	465	465	51	6200	-
20	3.1	57	520	0.82	26.01	IE3	**BG40-../SPE09XA4**	5.7	19	38	57	69	335	415	520	520	520	51	6500	-
20	3.1	124	240	2.4	12.06	IE3	**BG50-../SPE09XA4**	12	41	82	124	149	156	192	240	240	240	59	5700	-
20	3.1	112	265	2.2	13.36	IE3	**BG50-../SPE09XA4**	11	37	74	112	134	173	210	265	265	265	59	6100	-
20	3.1	90	330	1.9	16.53	IE3	**BG50-../SPE09XA4**	9	30	60	90	108	210	260	330	330	330	59	6500	-
20	3.1	81	365	1.7	18.33	IE3	**BG50-../SPE09XA4**	8.1	27	54	81	98	235	290	365	365	365	59	7200	-
20	3.1	68	435	1.4	21.96	IE3	**BG50-../SPE09XA4**	6.8	22.5	45.5	68	81	285	350	435	435	435	59	8000	-
20	3.1	61	485	1.3	24.34	IE3	**BG50-../SPE09XA4**	6.1	20.5	41	61	73	315	385	485	485	485	59	8700	-
20	3.1	50	590	1.1	29.62	IE3	**BG50-../SPE09XA4**	5	16.5	33.5	50	60	385	470	590	590	590	59	8000	-
20	3.1	45.5	650	0.96	32.84	IE3	**BG50-../SPE09XA4**	4.5	15	30	45.5	54	425	520	650	650	650	59	8700	-
20	3.1	39.5	750	0.83	37.89	IE3	**BG50-../SPE09XA4**	3.9	13	26	39.5	47.5	490	600	750	750	750	59	10000	-
20	3.1	66	445	2.7	22.4	IE3	**BG60-../SPE09XA4**	6.6	22	44.5	66	80	290	355	445	445	445	90	13300	-
20	3.1	60	495	2.4	24.82	IE3	**BG60-../SPE09XA4**	6	20	40	60	72	320	395	495	495	495	90	13800	-
20	3.1	51	580	2	29.31	IE3	**BG60-../SPE09XA4**	5.1	17	34	51	61	380	465	580	580	580	90	14800	-

MN = 20 Nm (PN = 3.1 kW)



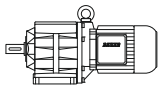
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
20	3.1	46	640	1.8	32.48	IE3	**BG60-../SPE09XA4**	4.6	15	30.5	46	55	420	510	640	640	640	90	15400	-
20	3.1	38.5	770	1.5	38.85	IE3	**BG60-../SPE09XA4**	3.8	12.5	25.5	38.5	46	500	620	770	770	770	90	16000	-
20	3.1	34.5	860	1.4	43.05	IE3	**BG60-../SPE09XA4**	3.4	11.5	23	34.5	41.5	550	680	860	860	860	90	16000	-
20	3.1	29.5	1000	1.2	50.31	IE3	**BG60-../SPE09XA4**	2.9	9.9	19.5	29.5	35.5	650	800	1000	1000	1000	90	16000	-
20	3.1	26.5	1110	1.1	55.76	IE3	**BG60-../SPE09XA4**	2.6	8.9	17.5	26.5	32	720	890	1110	1110	1110	90	16000	-
20	3.1	24.5	1210	0.99	60.9	IE3	**BG60-../SPE09XA4**	2.4	8.2	16	24.5	29.5	790	970	1210	1210	1210	90	16000	-
20	3.1	22	1340	0.89	67.49	IE3	**BG60-../SPE09XA4**	2.2	7.4	14.5	22	26.5	870	1070	1340	1340	1340	90	16000	-
20	3.1	21.5	1360	0.88	68.32	IE3	**BG60Z-../SPE09XA4**	2.1	7.3	14.5	21.5	26	880	1090	1360	1360	1360	109	16000	-
20	3.1	38	780	2.9	39.22	IE3	**BG70-../SPE09XA4**	3.8	12.5	25	38	45.5	500	620	780	780	780	128	19100	-
20	3.1	32	930	2.5	46.54	IE3	**BG70-../SPE09XA4**	3.2	10.5	21	32	38.5	600	740	930	930	930	128	20000	-
20	3.1	29.5	1000	2.3	50.4	IE3	**BG70-../SPE09XA4**	2.9	9.9	19.5	29.5	35.5	650	800	1000	1000	1000	128	20000	-
20	3.1	25	1190	1.9	59.82	IE3	**BG70-../SPE09XA4**	2.5	8.3	16.5	25	30	770	950	1190	1190	1190	128	20000	-
20	3.1	27	1090	1.8	54.64	IE3	**BG70Z-../SPE09XA4**	2.7	9.1	18	27	32.5	710	870	1090	1090	1090	149	20000	-
20	3.1	23	1290	1.8	64.85	IE3	**BG70Z-../SPE09XA4**	2.3	7.7	15	23	27.5	840	1030	1290	1290	1290	149	20000	-
20	3.1	20	1470	1.6	73.82	IE3	**BG70Z-../SPE09XA4**	2	6.7	13.5	20	24	950	1180	1470	1470	1470	149	20000	-
20	3.1	17	1750	1.3	87.61	IE3	**BG70Z-../SPE09XA4**	1.7	5.7	11	17	20.5	1130	1400	1750	1750	1750	149	20000	-
20	3.1	15.5	1910	1.2	95.74	IE3	**BG70Z-../SPE09XA4**	1.5	5.2	10	15.5	18.5	1240	1530	1910	1910	1910	149	20000	-
20	3.1	13	2250	1	113.6	IE3	**BG70Z-../SPE09XA4**	1.3	4.4	8.8	13	15.5	1470	1810	2250	2250	2250	149	20000	-
20	3.1	12	2450	0.93	124	IE3	**BG70Z-../SPE09XA4**	1.2	4	8	12	14.5	1610	1980	2450	2450	2450	149	20000	-
20	3.1	20	1470	2.8	73.73	IE3	**BG80Z-../SPE09XA4**	2	6.7	13.5	20	24	950	1170	1470	1470	1470	217	26000	-
20	3.1	17.5	1690	2.5	84.55	IE3	**BG80Z-../SPE09XA4**	1.7	5.9	11.5	17.5	21	1090	1350	1690	1690	1690	217	26000	-
20	3.1	15.5	1870	2.2	93.89	IE3	**BG80Z-../SPE09XA4**	1.5	5.3	10.5	15.5	19	1220	1500	1870	1870	1870	217	26000	-
20	3.1	13	2200	1.9	112.4	IE3	**BG80Z-../SPE09XA4**	1.3	4.4	8.8	13	16	1460	1790	2200	2200	2200	217	26000	-
20	3.1	12	2450	1.7	124.8	IE3	**BG80Z-../SPE09XA4**	1.2	4	8	12	14	1620	1990	2450	2450	2450	217	26000	-
20	3.1	10	2900	1.4	145.4	IE3	**BG80Z-../SPE09XA4**	1	3.4	6.8	10	12	1890	2300	2900	2900	2900	217	26000	-
20	3.1	9.2	3200	1.3	161.5	IE3	**BG80Z-../SPE09XA4**	0.9	3	6.1	9.2	11	2050	2550	3200	3200	3200	217	26000	-
20	3.1	8	3700	1.1	186.8	IE3	**BG80Z-../SPE09XA4**	0.8	2.6	5.3	8	9.6	2400	2950	3700	3700	3700	217	26000	-
20	3.1	7.2	4100	1	207.4	IE3	**BG80Z-../SPE09XA4**	0.7	2.4	4.8	7.2	8.6	2650	3300	4100	4100	4100	217	26000	-
20	3.1	6.6	4500	1	227.2	IE3	**BG80G40-../SPE09XA4**	0.65	2.2	4.4	6.6	7.9	2950	3600	4500	4500	4500	228	26000	-
20	3.1	5.9	5000	0.91	252.3	IE3	**BG80G40-../SPE09XA4**	0.55	1.9	3.9	5.9	7.1	3250	4000	5000	5000	5000	228	26000	-
20	3.1	5.3	5600	0.81	282.8	IE3	**BG80G40-../SPE09XA4**	0.5	1.7	3.5	5.3	6.3	3650	4500	5600	5600	5600	228	26000	-
20	3.1	10.5	2750	3	139.2	IE3	**BG90Z-../SPE09XA4**	1	3.5	7.1	10.5	12.5	1800	2200	2750	2750	2750	327	65000	-
20	3.1	9.2	3250	2.6	163	IE3	**BG90Z-../SPE09XA4**	0.9	3	6.1	9.2	11	2100	2600	3250	3250	3250	327	65000	-
20	3.1	8.4	3550	2.4	178.5	IE3	**BG90Z-../SPE09XA4**	0.8	2.8	5.6	8.4	10	2300	2850	3550	3550	3550	327	65000	-
20	3.1	7.2	4150	2	208.3	IE3	**BG90Z-../SPE09XA4**	0.7	2.4	4.8	7.2	8.6	2700	3300	4150	4150	4150	327	65000	-
20	3.1	6.5	4550	1.8	228.1	IE3	**BG90Z-../SPE09XA4**	0.65	2.1	4.3	6.5	7.8	2950	3600	4550	4550	4550	327	65000	-
20	3.1	6.8	4350	2.1	219.9	IE3	**BG90G50-../SPE09XA4**	0.65	2.2	4.5	6.8	8.1	2850	3500	4350	4350	4350	338	65000	-
20	3.1	5.7	5200	1.8	262.5	IE3	**BG90G50-../SPE09XA4**	0.55	1.9	3.8	5.7	6.8	3400	4200	5200	5200	5200	338	65000	-
20	3.1	5	5900	1.5	298.8	IE3	**BG90G50-../SPE09XA4**	0.5	1.6	3.3	5	6	3850	4750	5900	5900	5900	338	65000	-
20	3.1	4.1	7200	1.3	360.3	IE3	**BG90G50-../SPE09XA4**	0.41	1.3	2.7	4.1	4.9	4650	5700	7200	7200	7200	338	65000	-
20	3.1	3.4	8700	1.1	435.8	IE3	**BG90G50-../SPE09XA4**	0.34	1.1	2.2	3.4	4.1	5600	6900	8700	8700	8700	338	65000	-
20	3.1	2.9	10000	0.91	504.7	IE3	**BG90G50-../SPE09XA4**	0.29	0.95	1.9	2.9	3.5	6500	8000	10000	10000	10000	338	65000	-
20	3.1	4.3	6800	2.7	343.6	IE3	**BG100Z-../SPE09XA4**	0.43	1.4	2.9	4.3	5.2	4450	5400	6800	6800	6800	526	90000	-
20	3.1	3.9	7600	2.4	382.6	IE3	**BG100Z-../SPE09XA4**	0.39	1.3	2.6	3.9	4.7	4950	6100	7600	7600	7600	526	90000	-
20	3.1	3.2	9100	2	456.7	IE3	**BG100Z-../SPE09XA4**	0.32	1	2.1	3.2	3.9	5900	7300	9100	9100	9100	526	90000	-
20	3.1	2.9	10100	1.8	508.5	IE3	**BG100Z-../SPE09XA4**	0.29	0.95	1.9	2.9	3.5	6600	8100	10100	10100	10100	526	90000	-
20	3.1	2.5	11800	1.6	591.1	IE3	**BG100Z-../SPE09XA4**	0.25	0.8	1.6	2.5	3	7600	9400	11800	11800	11800	526	90000	-
20	3.1	2.2	13100	1.4	658.1	IE3	**BG100Z-../SPE09XA4**	0.22	0.75	1.5	2.2	2.7	8500	10500	13100	13100	13100	526	90000	-
20	3.1	1.9	15100	1.2	759	IE3	**BG100Z-../SPE09XA4**	0.19	0.65	1.3	1.9	2.3	9800	12100	15100	15100	15100	526	90000	-
20	3.1	1.7	16900	1.1	845.1	IE3	**BG100Z-../SPE09XA4**	0.17	0.55	1.1	1.7	2.1	10900	13500	16900	16900	16900	526	90000	-
20	3.1	1.5	19500	0.95	976.1	IE3	**BG100G50-../SPE09XA4**	0.15	0.5	1	1.5	1.8	12600	15600	19500	19500	19500	525	90000	-
20	3.1	1.4	20500	0.89	1043	IE3	**BG100G50-../SPE09XA4**	0.14	0.47	0.95	1.4	1.7	13500	16600	20500	20500	20500	525	90000	-

MN = 25.5 Nm (PN = 4 kW)



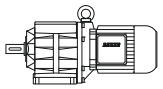
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
25.5	4	560	68	1.9	2.67	IE3	**BG30-../SPE11SA6**	56	187	370	560	670	50	58	68	68	68	46	1450	-
25.5	4	440	86	1.6	3.4	IE3	**BG30-../SPE11SA6**	44	147	290	440	520	64	74	86	86	86	46	1580	-
25.5	4	355	107	1.6	4.21	IE3	**BG30-../SPE11SA6**	35.5	118	235	355	425	79	92	107	107	107	46	1630	-
25.5	4	275	138	1.4	5.44	IE3	**BG30-../SPE11SA6**	27.5	91	183	275	330	103	119	138	138	138	46	1670	-
25.5	4	220	172	1.2	6.75	IE3	**BG30-../SPE11SA6**	22	74	148	220	265	128	148	172	172	172	46	1760	-
25.5	4	220	172	1.3	6.76	IE3	**BG30-../SPE11SA6**	22	73	147	220	265	128	148	172	172	172	46	2550	-
25.5	4	200	191	1.2	7.5	IE3	**BG30-../SPE11SA6**	20	66	133	200	240	142	165	191	191	191	46	2750	-
25.5	4	189	200	1.1	7.91	IE3	**BG30-../SPE11SA6**	18.5	63	126	189	225	150	174	200	200	200	46	1760	-
25.5	4	174	215	1.1	8.6	IE3	**BG30-../SPE11SA6**	17	58	116	174	205	163	189	215	215	215	46	2800	-
25.5	4	157	240	1	9.55	IE3	**BG30-../SPE11SA6**	15.5	52	104	157	188	181	210	240	240	240	46	3000	-
25.5	4	140	270	0.98	10.65	IE3	**BG30-../SPE11SA6**	14	46.5	93	140	169	200	230	270	270	270	46	2950	-
25.5	4	126	300	0.9	11.82	IE3	**BG30-../SPE11SA6**	12.5	42	84	126	152	220	260	300	300	300	46	3200	-
25.5	4	108	350	0.83	13.77	IE3	**BG30-../SPE11SA6**	10.5	36	72	108	130	260	300	350	350	350	46	3150	-
25.5	4	470	81	2.7	3.19	IE3	**BG40-../SPE11SA6**	47	156	310	470	560	60	70	81	81	81	65	2350	-
25.5	4	375	101	2.4	3.97	IE3	**BG40-../SPE11SA6**	37.5	125	250	375	450	75	87	101	101	101	65	2400	-

MN = 25.5 Nm (PN = 4 kW)



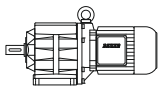
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
25.5	4	300	125	2.1	4.94	IE3	**BG40-../SPE11SA6**	30	101	200	300	360	93	108	125	125	125	65	2450	-
25.5	4	235	160	1.8	6.29	IE3	**BG40-../SPE11SA6**	23.5	79	158	235	285	119	138	160	160	160	65	2600	-
25.5	4	230	163	1.9	6.4	IE3	**BG40-../SPE11SA6**	23	78	156	230	280	121	140	163	163	163	65	3750	-
25.5	4	210	181	1.8	7.11	IE3	**BG40-../SPE11SA6**	21	70	140	210	250	135	156	181	181	181	65	3950	-
25.5	4	196	194	1.5	7.62	IE3	**BG40-../SPE11SA6**	19.5	65	131	196	235	144	167	194	194	194	65	2650	-
25.5	4	180	210	1.6	8.31	IE3	**BG40-../SPE11SA6**	18	60	120	180	215	157	182	210	210	210	65	4100	-
25.5	4	166	225	1.3	9	IE3	**BG40-../SPE11SA6**	16.5	55	111	166	200	171	198	225	225	225	65	2650	-
25.5	4	162	235	1.5	9.23	IE3	**BG40-../SPE11SA6**	16	54	108	162	195	175	200	235	235	235	65	4350	-
25.5	4	144	260	1.4	10.35	IE3	**BG40-../SPE11SA6**	14	48	96	144	173	196	225	260	260	260	65	4350	-
25.5	4	130	290	1.3	11.49	IE3	**BG40-../SPE11SA6**	13	43.5	87	130	156	215	250	290	290	290	65	4600	-
25.5	4	116	325	1.3	12.86	IE3	**BG40-../SPE11SA6**	11.5	38.5	77	116	139	240	280	325	325	325	65	4500	-
25.5	4	105	360	1.2	14.28	IE3	**BG40-../SPE11SA6**	10.5	35	70	105	126	270	310	360	360	360	65	4900	-
25.5	4	91	415	1	16.39	IE3	**BG40-../SPE11SA6**	9.1	30.5	61	91	109	310	360	415	415	415	65	5300	-
25.5	4	82	460	0.92	18.19	IE3	**BG40-../SPE11SA6**	8.2	27	54	82	98	345	400	460	460	460	65	5600	-
25.5	4	75	500	0.84	19.84	IE3	**BG40-../SPE11SA6**	7.5	25	50	75	90	375	435	500	500	500	65	5800	-
25.5	4	245	154	2.9	6.07	IE3	**BG50-../SPE11SA6**	24.5	82	164	245	295	115	133	154	154	154	75	4700	-
25.5	4	220	171	2.6	6.74	IE3	**BG50-../SPE11SA6**	22	74	148	220	265	128	148	171	171	171	75	3750	-
25.5	4	172	220	2.3	8.7	IE3	**BG50-../SPE11SA6**	17	57	114	172	205	165	191	220	220	220	75	5300	-
25.5	4	155	245	2.1	9.65	IE3	**BG50-../SPE11SA6**	15.5	51	103	155	186	183	210	245	245	245	75	5600	-
25.5	4	124	305	1.9	12.06	IE3	**BG50-../SPE11SA6**	12	41	82	124	149	225	265	305	305	305	75	5700	-
25.5	4	112	340	1.7	13.36	IE3	**BG50-../SPE11SA6**	11	37	74	112	134	250	290	340	340	340	75	6100	-
25.5	4	90	420	1.5	16.53	IE3	**BG50-../SPE11SA6**	9	30	60	90	108	310	360	420	420	420	75	6500	-
25.5	4	81	465	1.3	18.33	IE3	**BG50-../SPE11SA6**	8.1	27	54	81	98	345	400	465	465	465	75	7200	-
25.5	4	68	550	1.1	21.96	IE3	**BG50-../SPE11SA6**	6.8	22.5	45.5	68	81	415	480	550	550	550	75	8000	-
25.5	4	61	620	1	24.34	IE3	**BG50-../SPE11SA6**	6.1	20.5	41	61	73	460	530	620	620	620	75	8700	-
25.5	4	50	750	0.83	29.62	IE3	**BG50-../SPE11SA6**	5	16.5	33.5	50	60	560	650	750	750	750	75	8000	-
25.5	4	111	340	3	13.47	IE3	**BG60-../SPE11SA6**	11	37	74	111	133	255	295	340	340	340	107	11200	-
25.5	4	89	425	2.6	16.8	IE3	**BG60-../SPE11SA6**	8.9	29.5	59	89	107	315	365	425	425	425	107	12000	-
25.5	4	80	470	2.4	18.62	IE3	**BG60-../SPE11SA6**	8	26.5	53	80	96	350	405	470	470	470	107	12400	-
25.5	4	66	570	2.1	22.4	IE3	**BG60-../SPE11SA6**	6.6	22	44.5	66	80	425	490	570	570	570	107	13300	-
25.5	4	60	630	1.9	24.82	IE3	**BG60-../SPE11SA6**	6	20	40	60	72	470	540	630	630	630	107	13800	-
25.5	4	51	740	1.6	29.31	IE3	**BG60-../SPE11SA6**	5.1	17	34	51	61	550	640	740	740	740	107	14800	-
25.5	4	46	820	1.4	32.48	IE3	**BG60-../SPE11SA6**	4.6	15	30.5	46	55	610	710	820	820	820	107	15400	-
25.5	4	38.5	990	1.2	38.85	IE3	**BG60-../SPE11SA6**	3.8	12.5	25.5	38.5	46	730	850	990	990	990	107	16000	-
25.5	4	34.5	1090	1.1	43.05	IE3	**BG60-../SPE11SA6**	3.4	11.5	23	34.5	41.5	810	940	1090	1090	1090	107	16000	-
25.5	4	29.5	1280	0.94	50.31	IE3	**BG60-../SPE11SA6**	2.9	9.9	19.5	29.5	35.5	950	1100	1280	1280	1280	107	16000	-
25.5	4	26.5	1420	0.84	55.76	IE3	**BG60-../SPE11SA6**	2.6	8.9	17.5	26.5	32	1050	1220	1420	1420	1420	107	16000	-
25.5	4	50	750	3	29.69	IE3	**BG70-../SPE11SA6**	5	16.5	33.5	50	60	560	650	750	750	750	138	16900	-
25.5	4	42.5	890	2.6	35.24	IE3	**BG70-../SPE11SA6**	4.2	14	28	42.5	51	660	770	890	890	890	138	18300	-
25.5	4	38	1000	2.3	39.22	IE3	**BG70-../SPE11SA6**	3.8	12.5	25	38	45.5	740	860	1000	1000	1000	138	19100	-
25.5	4	32	1180	1.9	46.54	IE3	**BG70-../SPE11SA6**	3.2	10.5	21	32	38.5	880	1020	1180	1180	1180	138	20000	-
25.5	4	29.5	1280	1.8	50.4	IE3	**BG70-../SPE11SA6**	2.9	9.9	19.5	29.5	35.5	950	1100	1280	1280	1280	138	20000	-
25.5	4	25	1520	1.5	59.82	IE3	**BG70-../SPE11SA6**	2.5	8.3	16.5	25	30	1130	1310	1520	1520	1520	138	20000	-
25.5	4	27	1390	1.4	54.64	IE3	**BG70Z-../SPE11SA6**	2.7	9.1	18	27	32.5	1030	1200	1390	1390	1390	164	20000	-
25.5	4	23	1650	1.4	64.85	IE3	**BG70Z-../SPE11SA6**	2.3	7.7	15	23	27.5	1230	1420	1650	1650	1650	164	20000	-
25.5	4	20	1880	1.2	73.82	IE3	**BG70Z-../SPE11SA6**	2	6.7	13.5	20	24	1400	1620	1880	1880	1880	164	20000	-
25.5	4	17	2200	1	87.61	IE3	**BG70Z-../SPE11SA6**	1.7	5.7	11	17	20.5	1660	1920	2200	2200	2200	164	20000	-
25.5	4	15.5	2400	0.94	95.74	IE3	**BG70Z-../SPE11SA6**	1.5	5.2	10	15.5	18.5	1810	2100	2400	2400	2400	164	20000	-
25.5	4	26	1450	2.9	57.24	IE3	**BG80-../SPE11SA6**	2.6	8.7	17	26	31	1080	1250	1450	1450	1450	192	25400	-
25.5	4	23.5	1620	2.6	63.56	IE3	**BG80-../SPE11SA6**	2.3	7.8	15.5	23.5	28	1200	1390	1620	1620	1620	192	26000	-
25.5	4	22.5	1690	2.5	66.4	IE3	**BG80Z-../SPE11SA6**	2.2	7.5	15	22.5	27	1260	1460	1690	1690	1690	234	26000	-
25.5	4	20	1880	2.2	73.73	IE3	**BG80Z-../SPE11SA6**	2	6.7	13.5	20	24	1400	1620	1880	1880	1880	234	26000	-
25.5	4	17.5	2150	1.9	84.55	IE3	**BG80Z-../SPE11SA6**	1.7	5.9	11.5	17.5	21	1600	1860	2150	2150	2150	234	26000	-
25.5	4	15.5	2350	1.8	93.89	IE3	**BG80Z-../SPE11SA6**	1.5	5.3	10.5	15.5	19	1780	2050	2350	2350	2350	234	26000	-
25.5	4	13	2850	1.5	112.4	IE3	**BG80Z-../SPE11SA6**	1.3	4.4	8.8	13	16	2100	2450	2850	2850	2850	234	26000	-
25.5	4	12	3150	1.3	124.8	IE3	**BG80Z-../SPE11SA6**	1.2	4	8	12	14	2350	2700	3150	3150	3150	234	26000	-
25.5	4	10	3700	1.1	145.4	IE3	**BG80Z-../SPE11SA6**	1	3.4	6.8	10	12	2750	3150	3700	3700	3700	234	26000	-
25.5	4	9.2	4100	1	161.5	IE3	**BG80Z-../SPE11SA6**	0.9	3	6.1	9.2	11	3050	3550	4100	4100	4100	234	26000	-
25.5	4	8	4750	0.88	186.8	IE3	**BG80Z-../SPE11SA6**	0.8	2.6	5.3	8	9.6	3500	4100	4750	4750	4750	234	26000	-
25.5	4	11.5	3200	2.6	127.1	IE3	**BG90Z-../SPE11SA6**	1.1	3.9	7.8	11.5	14	2400	2750	3200	3200	3200	336	65000	-
25.5	4	10.5	3500	2.4	139.2	IE3	**BG90Z-../SPE11SA6**	1	3.5	7.1	10.5	12.5	2600	3050	3500	3500	3500	336	65000	-
25.5	4	9.2	4150	2	163	IE3	**BG90Z-../SPE11SA6**	0.9	3	6.1	9.2	11	3050	3550	4150	4150	4150	336	65000	-
25.5	4	8.4	4550	1.8	178.5	IE3	**BG90Z-../SPE11SA6**	0.8	2.8	5.6	8.4	10	3350	3900	4550	4550	4550	336	65000	-
25.5	4	7.2	5300	1.6	208.3	IE3	**BG90Z-../SPE11SA6**	0.7	2.4	4.8	7.2	8.6	3950	4550	5300	5300	5300	336	65000	-
25.5	4	6.5	5800	1.4	228.1	IE3	**BG90Z-../SPE11SA6**	0.65	2.1	4.3	6.5	7.8	4300	5000	5800	5800	5800	336	65000	-
25.5	4	6.8	5600	1.6	219.9	IE3	**BG90G50-../SPE11SA6**	0.65	2.2	4.5	6.8	8.1	4150	4800	5600	5600	5600	353	65000	-
25.5	4	5.7	6600	1.4	262.5	IE3	**BG90G50-../SPE11SA6**	0.55	1.9	3.8	5.7	6.8	4950	5700	6600	6600	6600	353	65000	-
25.5	4	5	7600	1.2	298.8	IE3	**BG90G50-../SPE11SA6**	0.5	1.6	3.3	5	6	5600	6500	7600	7600	7600	353	65000	-
25.5	4	4.1	9100	1	360.3	IE3	**BG90G50-../SPE11SA6**	0.41	1.3	2.7	4.1	4.9	6800	7900	9100	9100	9100	353	65000	-
25.5	4	3.4	11100	0.83	435.8	IE3	**BG90G50-../SPE11SA6**	0.34	1.1	2.2	3.4	4.1	8200	9500	11100	11100	11100	353	65000	-
25.5	4	6.4	5900	2.8	232.6	IE3	**BG100-../SPE11SA6**	0.6	2.1	4.2	6.4	7.7	4400	5100	5900	5900	5900	453	90000	-
25.5	4	5.7	6600	2.5	259	IE3	**BG100-../SPE11SA6**	0.55	1.9	3.8	5.7	6.9	4900	5600	6600	6600	6600	453	90000	-
25.5	4	5.5	6800	2.7	269.8	IE3	**BG100Z-../SPE11SA6**	0.55	1.8	3.7	5.5	6.6	5100	5900	6800	6800	6800	543	90000	-
25.5	4	4.9	7600	2.4	300.4	IE3	**BG100Z-../SPE11SA6**	0.49	1.6	3.3	4.9	5.9	5700	6600	7600	7600	7600	543	90000	-
25.5	4	4.3	8700	2.1	343.6	IE3	**BG100Z-../SPE11SA6**	0.43	1.4	2.9	4.3	5.2	6500	7500	8700	8700	8700	543	90000	-
25.5	4	3.9	9700	1.9	382.6	IE3	**BG100Z-../SPE11SA6**	0.39	1.3	2.6	3.9	4.7	7200	8400	9700	9700	9700	543	90000	-

MN = 25.5 Nm (PN = 4 kW)



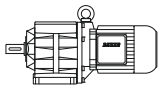
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
25.5	4	3.2	11600	1.6	456.7	IE3	**BG100Z-../SPE11SA6**	0.32	1	2.1	3.2	3.9	8600	10000	11600	11600	11600	543	90000	-
25.5	4	2.9	12900	1.4	508.5	IE3	**BG100Z-../SPE11SA6**	0.29	0.95	1.9	2.9	3.5	9600	11100	12900	12900	12900	543	90000	-
25.5	4	2.5	15000	1.2	591.1	IE3	**BG100Z-../SPE11SA6**	0.25	0.8	1.6	2.5	3	11200	13000	15000	15000	15000	543	90000	-
25.5	4	2.2	16700	1.1	658.1	IE3	**BG100Z-../SPE11SA6**	0.22	0.75	1.5	2.2	2.7	12500	14400	16700	16700	16700	543	90000	-
25.5	4	1.9	19300	0.96	759	IE3	**BG100Z-../SPE11SA6**	0.19	0.65	1.3	1.9	2.3	14400	16600	19300	19300	19300	543	90000	-
25.5	4	1.7	21500	0.86	845.1	IE3	**BG100Z-../SPE11SA6**	0.17	0.55	1.1	1.7	2.1	16000	18500	21500	21500	21500	543	90000	-

MN = 26.5 Nm (PN = 4 kW)



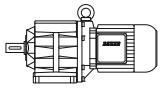
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
26.5	4	560	70	1.8	2.67	IE5	**BG30-../S5E11MA6**	56	187	370	560	670	70	70	70	70	70	46	1450	-
26.5	4	440	90	1.5	3.4	IE5	**BG30-../S5E11MA6**	44	147	290	440	520	90	90	90	90	90	46	1580	-
26.5	4	355	111	1.5	4.21	IE5	**BG30-../S5E11MA6**	35.5	118	235	355	425	111	111	111	111	111	46	1630	-
26.5	4	275	144	1.4	5.44	IE5	**BG30-../S5E11MA6**	27.5	91	183	275	330	144	144	144	144	144	46	1670	-
26.5	4	220	179	1.3	6.76	IE5	**BG30-../S5E11MA6**	22	73	147	220	265	179	179	179	179	179	46	2550	-
26.5	4	220	178	1.2	6.75	IE5	**BG30-../S5E11MA6**	22	74	148	220	265	178	178	178	178	178	46	1760	-
26.5	4	200	198	1.2	7.5	IE5	**BG30-../S5E11MA6**	20	66	133	200	240	198	198	198	198	198	46	2750	-
26.5	4	189	205	1	7.91	IE5	**BG30-../S5E11MA6**	18.5	63	126	189	225	205	205	205	205	205	46	1760	-
26.5	4	174	225	1.1	8.6	IE5	**BG30-../S5E11MA6**	17	58	116	174	205	225	225	225	225	225	46	2800	-
26.5	4	157	250	0.99	9.55	IE5	**BG30-../S5E11MA6**	15.5	52	104	157	188	250	250	250	250	250	46	3000	-
26.5	4	140	280	0.94	10.65	IE5	**BG30-../S5E11MA6**	14	46.5	93	140	169	280	280	280	280	280	46	2950	-
26.5	4	126	310	0.86	11.82	IE5	**BG30-../S5E11MA6**	12.5	42	84	126	152	310	310	310	310	310	46	3200	-
26.5	4	470	84	2.6	3.19	IE5	**BG40-../S5E11MA6**	47	156	310	470	560	84	84	84	84	84	65	2350	-
26.5	4	375	105	2.3	3.97	IE5	**BG40-../S5E11MA6**	37.5	125	250	375	450	105	105	105	105	105	65	2400	-
26.5	4	300	130	2	4.94	IE5	**BG40-../S5E11MA6**	30	101	200	300	360	130	130	130	130	130	65	2450	-
26.5	4	235	166	1.8	6.29	IE5	**BG40-../S5E11MA6**	23.5	79	158	235	285	166	166	166	166	166	65	2600	-
26.5	4	230	169	1.8	6.4	IE5	**BG40-../S5E11MA6**	23	78	156	230	280	169	169	169	169	169	65	3750	-
26.5	4	210	188	1.7	7.11	IE5	**BG40-../S5E11MA6**	21	70	140	210	250	188	188	188	188	188	65	3950	-
26.5	4	196	200	1.5	7.62	IE5	**BG40-../S5E11MA6**	19.5	65	131	196	235	200	200	200	200	200	65	2650	-
26.5	4	180	220	1.5	8.31	IE5	**BG40-../S5E11MA6**	18	60	120	180	215	220	220	220	220	220	65	4100	-
26.5	4	166	235	1.2	9	IE5	**BG40-../S5E11MA6**	16.5	55	111	166	200	235	235	235	235	235	65	2650	-
26.5	4	162	240	1.5	9.23	IE5	**BG40-../S5E11MA6**	16	54	108	162	195	240	240	240	240	240	65	4350	-
26.5	4	144	270	1.4	10.35	IE5	**BG40-../S5E11MA6**	14	48	96	144	173	270	270	270	270	270	65	4350	-
26.5	4	130	300	1.3	11.49	IE5	**BG40-../S5E11MA6**	13	43.5	87	130	156	300	300	300	300	300	65	4600	-
26.5	4	116	340	1.2	12.86	IE5	**BG40-../S5E11MA6**	11.5	38.5	77	116	139	340	340	340	340	340	65	4500	-
26.5	4	105	375	1.1	14.28	IE5	**BG40-../S5E11MA6**	10.5	35	70	105	126	375	375	375	375	375	65	4900	-
26.5	4	91	430	0.98	16.39	IE5	**BG40-../S5E11MA6**	9.1	30.5	61	91	109	430	430	430	430	430	65	5300	-
26.5	4	82	480	0.88	18.19	IE5	**BG40-../S5E11MA6**	8.2	27	54	82	98	480	480	480	480	480	65	5600	-
26.5	4	75	520	0.81	19.84	IE5	**BG40-../S5E11MA6**	7.5	25	50	75	90	520	520	520	520	520	65	5800	-
26.5	4	305	130	3	4.91	IE5	**BG50-../S5E11MA6**	30.5	101	200	305	365	130	130	130	130	130	75	3500	-
26.5	4	245	160	2.8	6.07	IE5	**BG50-../S5E11MA6**	24.5	82	164	245	295	160	160	160	160	160	75	4700	-
26.5	4	220	178	2.5	6.74	IE5	**BG50-../S5E11MA6**	22	74	148	220	265	178	178	178	178	178	75	3750	-
26.5	4	172	230	2.2	8.7	IE5	**BG50-../S5E11MA6**	17	57	114	172	205	230	230	230	230	230	75	5300	-
26.5	4	155	255	2	9.65	IE5	**BG50-../S5E11MA6**	15.5	51	103	155	186	255	255	255	255	255	75	5600	-
26.5	4	124	315	1.8	12.06	IE5	**BG50-../S5E11MA6**	12	41	82	124	149	315	315	315	315	315	75	5700	-
26.5	4	112	350	1.7	13.36	IE5	**BG50-../S5E11MA6**	11	37	74	112	134	350	350	350	350	350	75	6100	-
26.5	4	90	435	1.4	16.53	IE5	**BG50-../S5E11MA6**	9	30	60	90	108	435	435	435	435	435	75	6500	-
26.5	4	81	485	1.3	18.33	IE5	**BG50-../S5E11MA6**	8.1	27	54	81	98	485	485	485	485	485	75	7200	-
26.5	4	68	580	1.1	21.96	IE5	**BG50-../S5E11MA6**	6.8	22.5	45.5	68	81	580	580	580	580	580	75	8000	-
26.5	4	61	640	0.98	24.34	IE5	**BG50-../S5E11MA6**	6.1	20.5	41	61	73	640	640	640	640	640	75	8700	-
26.5	4	50	780	0.8	29.62	IE5	**BG50-../S5E11MA6**	5	16.5	33.5	50	60	780	780	780	780	780	75	8000	-
26.5	4	123	320	3	12.16	IE5	**BG60-../S5E11MA6**	12	41	82	123	148	320	320	320	320	320	107	10800	-
26.5	4	111	355	2.9	13.47	IE5	**BG60-../S5E11MA6**	11	37	74	111	133	355	355	355	355	355	107	11200	-
26.5	4	89	445	2.5	16.8	IE5	**BG60-../S5E11MA6**	8.9	29.5	59	89	107	445	445	445	445	445	107	12000	-
26.5	4	80	490	2.3	18.62	IE5	**BG60-../S5E11MA6**	8	26.5	53	80	96	490	490	490	490	490	107	12400	-
26.5	4	66	590	2	22.4	IE5	**BG60-../S5E11MA6**	6.6	22	44.5	66	80	590	590	590	590	590	107	13300	-
26.5	4	60	650	1.8	24.82	IE5	**BG60-../S5E11MA6**	6	20	40	60	72	650	650	650	650	650	107	13800	-
26.5	4	51	770	1.5	29.31	IE5	**BG60-../S5E11MA6**	5.1	17	34	51	61	770	770	770	770	770	107	14800	-
26.5	4	46	860	1.4	32.48	IE5	**BG60-../S5E11MA6**	4.6	15	30.5	46	55	860	860	860	860	860	107	15400	-
26.5	4	38.5	1020	1.2	38.85	IE5	**BG60-../S5E11MA6**	3.8	12.5	25.5	38.5	46	1020	1020	1020	1020	1020	107	16000	-
26.5	4	34.5	1140	1.1	43.05	IE5	**BG60-../S5E11MA6**	3.4	11.5	23	34.5	41.5	1140	1140	1140	1140	1140	107	16000	-
26.5	4	29.5	1330	0.9	50.31	IE5	**BG60-../S5E11MA6**	2.9	9.9	19.5	29.5	35.5	1330	1330	1330	1330	1330	107	16000	-
26.5	4	26.5	1470	0.81	55.76	IE5	**BG60-../S5E11MA6**	2.6	8.9	17.5	26.5	32	1470	1470	1470	1470	1470	107	16000	-
26.5	4	50	780	2.9	29.69	IE5	**BG70-../S5E11MA6**	5	16.5	33.5	50	60	780	780	780	780	780	138	16900	-
26.5	4	42.5	930	2.5	35.24	IE5	**BG70-../S5E11MA6**	4.2	14	28	42.5	51	930	930	930	930	930	138	18300	-
26.5	4	38	1030	2.2	39.22	IE5	**BG70-../S5E11MA6**	3.8	12.5	25	38	45.5	1030	1030	1030	1030	1030	138	19100	-
26.5	4	32	1230	1.9	46.54	IE5	**BG70-../S5E11MA6**	3.2	10.5	21	32	38.5	1230	1230	1230	1230	1230	138	20000	-
26.5	4	29.5	1330	1.7	50.4	IE5	**BG70-../S5E11MA6**	2.9	9.9	19.5	29.5	35.5	1330	1330	1330	1330	1330	138	20000	-
26.5	4	25	1580	1.5	59.82	IE5	**BG70-../S5E11MA6**	2.5	8.3	16.5	25	30	1580	1580	1580	1580	1580	138	20000	-
26.5	4	27	1440	1.3	54.64	IE5	**BG70Z-../S5E11MA6**	2.7	9.1	18	27	32.5	1440	1440	1440	1440	1440	164	20000	-
26.5	4	23	1710	1.3	64.85	IE5	**BG70Z-../S5E11MA6**	2.3	7.7	15	23	27.5	1710	1710	1710	1710	1710	164	20000	-
26.5	4	20	1950	1.2	73.82	IE5	**BG70Z-../S5E11MA6**	2	6.7	13.5	20	24	1950	1950	1950	1950	1950	164	20000	-

MN = 26.5 Nm (PN = 4 kW)



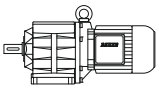
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
26.5	4	17	2300	0.99	87.61	IE5	**BG70Z-../S5E11MA6**	1.7	5.7	11	17	20.5	2300	2300	2300	2300	2300	164	20000	-
26.5	4	15.5	2500	0.91	95.74	IE5	**BG70Z-../S5E11MA6**	1.5	5.2	10	15.5	18.5	2500	2500	2500	2500	2500	164	20000	-
26.5	4	26	1510	2.8	57.24	IE5	**BG80-../S5E11MA6**	2.6	8.7	17	26	31	1510	1510	1510	1510	1510	192	25400	-
26.5	4	23.5	1680	2.5	63.56	IE5	**BG80-../S5E11MA6**	2.3	7.8	15.5	23.5	28	1680	1680	1680	1680	1680	192	26000	-
26.5	4	22.5	1750	2.4	66.4	IE5	**BG80Z-../S5E11MA6**	2.2	7.5	15	22.5	27	1750	1750	1750	1750	1750	234	26000	-
26.5	4	20	1950	2.1	73.73	IE5	**BG80Z-../S5E11MA6**	2	6.7	13.5	20	24	1950	1950	1950	1950	1950	234	26000	-
26.5	4	17.5	2200	1.9	84.55	IE5	**BG80Z-../S5E11MA6**	1.7	5.9	11.5	17.5	21	2200	2200	2200	2200	2200	234	26000	-
26.5	4	15.5	2450	1.7	93.89	IE5	**BG80Z-../S5E11MA6**	1.5	5.3	10.5	15.5	19	2450	2450	2450	2450	2450	234	26000	-
26.5	4	13	2950	1.4	112.4	IE5	**BG80Z-../S5E11MA6**	1.3	4.4	8.8	13	16	2950	2950	2950	2950	2950	234	26000	-
26.5	4	12	3300	1.3	124.8	IE5	**BG80Z-../S5E11MA6**	1.2	4	8	12	14	3300	3300	3300	3300	3300	234	26000	-
26.5	4	10	3850	1.1	145.4	IE5	**BG80Z-../S5E11MA6**	1	3.4	6.8	10	12	3850	3850	3850	3850	3850	234	26000	-
26.5	4	9.2	4250	0.98	161.5	IE5	**BG80Z-../S5E11MA6**	0.9	3	6.1	9.2	11	4250	4250	4250	4250	4250	234	26000	-
26.5	4	8	4950	0.85	186.8	IE5	**BG80Z-../S5E11MA6**	0.8	2.6	5.3	8	9.6	4950	4950	4950	4950	4950	234	26000	-
26.5	4	14	2800	3	105.7	IE5	**BG90Z-../S5E11MA6**	1.4	4.7	9.4	14	17	2800	2800	2800	2800	2800	336	65000	-
26.5	4	11.5	3350	2.5	127.1	IE5	**BG90Z-../S5E11MA6**	1.1	3.9	7.8	11.5	14	3350	3350	3350	3350	3350	336	65000	-
26.5	4	10.5	3650	2.3	139.2	IE5	**BG90Z-../S5E11MA6**	1	3.5	7.1	10.5	12.5	3650	3650	3650	3650	3650	336	65000	-
26.5	4	9.2	4300	1.9	163	IE5	**BG90Z-../S5E11MA6**	0.9	3	6.1	9.2	11	4300	4300	4300	4300	4300	336	65000	-
26.5	4	8.4	4700	1.8	178.5	IE5	**BG90Z-../S5E11MA6**	0.8	2.8	5.6	8.4	10	4700	4700	4700	4700	4700	336	65000	-
26.5	4	7.2	5500	1.5	208.3	IE5	**BG90Z-../S5E11MA6**	0.7	2.4	4.8	7.2	8.6	5500	5500	5500	5500	5500	336	65000	-
26.5	4	6.5	6000	1.4	228.1	IE5	**BG90Z-../S5E11MA6**	0.65	2.1	4.3	6.5	7.8	6000	6000	6000	6000	6000	336	65000	-
26.5	4	6.8	5800	1.6	219.9	IE5	**BG90G50-../S5E11MA6**	0.65	2.2	4.5	6.8	8.1	5800	5800	5800	5800	5800	353	65000	-
26.5	4	5.7	6900	1.3	262.5	IE5	**BG90G50-../S5E11MA6**	0.55	1.9	3.8	5.7	6.8	6900	6900	6900	6900	6900	353	65000	-
26.5	4	5	7900	1.2	298.8	IE5	**BG90G50-../S5E11MA6**	0.5	1.6	3.3	5	6	7900	7900	7900	7900	7900	353	65000	-
26.5	4	4.1	9500	0.96	360.3	IE5	**BG90G50-../S5E11MA6**	0.41	1.3	2.7	4.1	4.9	9500	9500	9500	9500	9500	353	65000	-
26.5	4	3.4	11500	0.8	435.8	IE5	**BG90G50-../S5E11MA6**	0.34	1.1	2.2	3.4	4.1	11500	11500	11500	11500	11500	353	65000	-
26.5	4	6.4	6100	2.7	232.6	IE5	**BG100-../S5E11MA6**	0.6	2.1	4.2	6.4	7.7	6100	6100	6100	6100	6100	453	90000	-
26.5	4	5.7	6800	2.4	259	IE5	**BG100-../S5E11MA6**	0.55	1.9	3.8	5.7	6.9	6800	6800	6800	6800	6800	453	90000	-
26.5	4	5.5	7100	2.6	269.8	IE5	**BG100Z-../S5E11MA6**	0.55	1.8	3.7	5.5	6.6	7100	7100	7100	7100	7100	543	90000	-
26.5	4	4.9	7900	2.3	300.4	IE5	**BG100Z-../S5E11MA6**	0.49	1.6	3.3	4.9	5.9	7900	7900	7900	7900	7900	543	90000	-
26.5	4	4.3	9100	2	343.6	IE5	**BG100Z-../S5E11MA6**	0.43	1.4	2.9	4.3	5.2	9100	9100	9100	9100	9100	543	90000	-
26.5	4	3.9	10100	1.8	382.6	IE5	**BG100Z-../S5E11MA6**	0.39	1.3	2.6	3.9	4.7	10100	10100	10100	10100	10100	543	90000	-
26.5	4	3.2	12100	1.5	456.7	IE5	**BG100Z-../S5E11MA6**	0.32	1	2.1	3.2	3.9	12100	12100	12100	12100	12100	543	90000	-
26.5	4	2.9	13400	1.4	508.5	IE5	**BG100Z-../S5E11MA6**	0.29	0.95	1.9	2.9	3.5	13400	13400	13400	13400	13400	543	90000	-
26.5	4	2.5	15600	1.2	591.1	IE5	**BG100Z-../S5E11MA6**	0.25	0.8	1.6	2.5	3	15600	15600	15600	15600	15600	543	90000	-
26.5	4	2.2	17400	1.1	658.1	IE5	**BG100Z-../S5E11MA6**	0.22	0.75	1.5	2.2	2.7	17400	17400	17400	17400	17400	543	90000	-
26.5	4	1.9	20000	0.92	759	IE5	**BG100Z-../S5E11MA6**	0.19	0.65	1.3	1.9	2.3	20000	20000	20000	20000	20000	543	90000	-
26.5	4	1.7	22000	0.83	845.1	IE5	**BG100Z-../S5E11MA6**	0.17	0.55	1.1	1.7	2.1	22000	22000	22000	22000	22000	543	90000	-

MN = 35 Nm (PN = 5.5 kW)



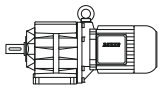
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
35	5.5	560	93	1.4	2.67	IE4	**BG30-../S4E11MA6**	56	187	370	560	670	70	80	93	93	93	46	1450	-
35	5.5	560	93	1.4	2.67	IE5	**BG30-../S5E11LA6**	56	187	370	560	670	93	93	93	93	93	58	1450	-
35	5.5	440	119	1.2	3.4	IE4	**BG30-../S4E11MA6**	44	147	290	440	520	90	102	119	119	119	46	1580	-
35	5.5	440	119	1.2	3.4	IE5	**BG30-../S5E11LA6**	44	147	290	440	520	119	119	119	119	119	58	1580	-
35	5.5	355	147	1.2	4.21	IE4	**BG30-../S4E11MA6**	35.5	118	235	355	425	111	126	147	147	147	46	1630	-
35	5.5	355	147	1.2	4.21	IE5	**BG30-../S5E11LA6**	35.5	118	235	355	425	147	147	147	147	147	58	1630	-
35	5.5	275	190	1.1	5.44	IE5	**BG30-../S5E11LA6**	27.5	91	183	275	330	190	190	190	190	190	58	1670	-
35	5.5	275	190	1.1	5.44	IE4	**BG30-../S4E11MA6**	27.5	91	183	275	330	144	163	190	190	190	46	1670	-
35	5.5	220	235	0.91	6.75	IE4	**BG30-../S4E11MA6**	22	74	148	220	265	178	200	235	235	235	46	1760	-
35	5.5	220	235	0.96	6.76	IE4	**BG30-../S4E11MA6**	22	73	147	220	265	179	200	235	235	235	46	2550	-
35	5.5	220	235	0.91	6.75	IE5	**BG30-../S5E11LA6**	22	74	148	220	265	235	235	235	235	235	58	1760	-
35	5.5	220	235	0.96	6.76	IE5	**BG30-../S5E11LA6**	22	73	147	220	265	235	235	235	235	235	58	2550	-
35	5.5	200	260	0.88	7.5	IE4	**BG30-../S4E11MA6**	20	66	133	200	240	198	225	260	260	260	46	2750	-
35	5.5	200	260	0.88	7.5	IE5	**BG30-../S5E11LA6**	20	66	133	200	240	260	260	260	260	260	58	2750	-
35	5.5	174	300	0.81	8.6	IE5	**BG30-../S5E11LA6**	17	58	116	174	205	300	300	300	300	300	58	2800	-
35	5.5	174	300	0.81	8.6	IE4	**BG30-../S4E11MA6**	17	58	116	174	205	225	255	300	300	300	46	2800	-
35	5.5	600	86	2.3	2.46	IE4	**BG40-../S4E11MA6**	60	200	405	600	730	65	73	86	86	86	65	2150	-
35	5.5	600	86	2.3	2.46	IE5	**BG40-../S5E11LA6**	60	200	405	600	730	86	86	86	86	86	77	2150	-
35	5.5	470	111	2	3.19	IE4	**BG40-../S4E11MA6**	47	156	310	470	560	84	95	111	111	111	65	2350	-
35	5.5	470	111	2	3.19	IE5	**BG40-../S5E11LA6**	47	156	310	470	560	111	111	111	111	111	77	2350	-
35	5.5	375	138	1.7	3.97	IE5	**BG40-../S5E11LA6**	37.5	125	250	375	450	138	138	138	138	138	77	2400	-
35	5.5	375	138	1.7	3.97	IE4	**BG40-../S4E11MA6**	37.5	125	250	375	450	105	119	138	138	138	65	2400	-
35	5.5	300	172	1.5	4.94	IE4	**BG40-../S4E11MA6**	30	101	200	300	360	130	148	172	172	172	65	2450	-
35	5.5	300	172	1.5	4.94	IE5	**BG40-../S5E11LA6**	30	101	200	300	360	172	172	172	172	172	77	2450	-
35	5.5	235	220	1.3	6.29	IE5	**BG40-../S5E11LA6**	23.5	79	158	235	285	220	220	220	220	220	77	2600	-
35	5.5	235	220	1.3	6.29	IE4	**BG40-../S4E11MA6**	23.5	79	158	235	285	166	188	220	220	220	65	2600	-
35	5.5	230	220	1.4	6.4	IE4	**BG40-../S4E11MA6**	23	78	156	230	280	169	192	220	220	220	65	3750	-
35	5.5	230	220	1.4	6.4	IE5	**BG40-../S5E11LA6**	23	78	156	230	280	220	220	220	220	220	77	3750	-
35	5.5	210	245	1.3	7.11	IE5	**BG40-../S5E11LA6**	21	70	140	210	250	245	245	245	245	245	77	3950	-
35	5.5	210	245	1.3	7.11	IE4	**BG40-../S4E11MA6**	21	70	140	210	250	188	210	245	245	245	65	3950	-
35	5.5	196	265	1.1	7.62	IE5	**BG40-../S5E11LA6**	19.5	65	131	196	235	265	265	265	265	265	77	2650	-

MN = 35 Nm (PN = 5.5 kW)



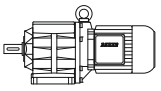
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
35	5.5	196	265	1.1	7.62	IE4	**BG40-../S4E11MA6**	19.5	65	131	196	235	200	225	265	265	265	65	2650	-
35	5.5	180	290	1.2	8.31	IE4	**BG40-../S4E11MA6**	18	60	120	180	215	220	245	290	290	290	65	4100	-
35	5.5	180	290	1.2	8.31	IE5	**BG40-../S5E11LA6**	18	60	120	180	215	290	290	290	290	290	77	4100	-
35	5.5	166	315	0.94	9	IE5	**BG40-../S5E11LA6**	16.5	55	111	166	200	315	315	315	315	315	77	2650	-
35	5.5	166	315	0.94	9	IE4	**BG40-../S4E11MA6**	16.5	55	111	166	200	235	270	315	315	315	65	2650	-
35	5.5	162	320	1.1	9.23	IE5	**BG40-../S5E11LA6**	16	54	108	162	195	320	320	320	320	320	77	4350	-
35	5.5	162	320	1.1	9.23	IE4	**BG40-../S4E11MA6**	16	54	108	162	195	240	275	320	320	320	65	4350	-
35	5.5	144	360	1	10.35	IE4	**BG40-../S4E11MA6**	14	48	96	144	173	270	310	360	360	360	65	4350	-
35	5.5	144	360	1	10.35	IE5	**BG40-../S5E11LA6**	14	48	96	144	173	360	360	360	360	360	77	4350	-
35	5.5	130	400	0.96	11.49	IE5	**BG40-../S5E11LA6**	13	43.5	87	130	156	400	400	400	400	400	77	4600	-
35	5.5	130	400	0.96	11.49	IE4	**BG40-../S4E11MA6**	13	43.5	87	130	156	300	340	400	400	400	65	4600	-
35	5.5	116	450	0.91	12.86	IE4	**BG40-../S4E11MA6**	11.5	38.5	77	116	139	340	385	450	450	450	65	4500	-
35	5.5	116	450	0.91	12.86	IE5	**BG40-../S5E11LA6**	11.5	38.5	77	116	139	450	450	450	450	450	77	4500	-
35	5.5	105	495	0.84	14.28	IE4	**BG40-../S4E11MA6**	10.5	35	70	105	126	375	425	495	495	495	65	4900	-
35	5.5	105	495	0.84	14.28	IE5	**BG40-../S5E11LA6**	10.5	35	70	105	126	495	495	495	495	495	77	4900	-
35	5.5	420	124	2.8	3.55	IE4	**BG50-../S4E11MA6**	42	140	280	420	500	94	106	124	124	124	75	3300	-
35	5.5	420	124	2.8	3.55	IE5	**BG50-../S5E11LA6**	42	140	280	420	500	124	124	124	124	124	86	3300	-
35	5.5	305	171	2.3	4.91	IE4	**BG50-../S4E11MA6**	30.5	101	200	305	365	130	147	171	171	171	75	3500	-
35	5.5	305	171	2.3	4.91	IE5	**BG50-../S5E11LA6**	30.5	101	200	305	365	171	171	171	171	171	86	3500	-
35	5.5	245	210	2.1	6.07	IE4	**BG50-../S4E11MA6**	24.5	82	164	245	295	160	182	210	210	210	75	4700	-
35	5.5	245	210	2.1	6.07	IE5	**BG50-../S5E11LA6**	24.5	82	164	245	295	210	210	210	210	210	86	4700	-
35	5.5	220	235	1.9	6.74	IE4	**BG50-../S4E11MA6**	22	74	148	220	265	178	200	235	235	235	75	3750	-
35	5.5	220	235	1.9	6.74	IE5	**BG50-../S5E11LA6**	22	74	148	220	265	235	235	235	235	235	86	3750	-
35	5.5	172	300	1.6	8.7	IE5	**BG50-../S5E11LA6**	17	57	114	172	205	300	300	300	300	300	86	5300	-
35	5.5	172	300	1.6	8.7	IE4	**BG50-../S4E11MA6**	17	57	114	172	205	230	260	300	300	300	75	5300	-
35	5.5	155	335	1.5	9.65	IE5	**BG50-../S5E11LA6**	15.5	51	103	155	186	335	335	335	335	335	86	5600	-
35	5.5	155	335	1.5	9.65	IE4	**BG50-../S4E11MA6**	15.5	51	103	155	186	255	285	335	335	335	75	5600	-
35	5.5	124	420	1.4	12.06	IE5	**BG50-../S5E11LA6**	12	41	82	124	149	420	420	420	420	420	86	5700	-
35	5.5	124	420	1.4	12.06	IE4	**BG50-../S4E11MA6**	12	41	82	124	149	315	360	420	420	420	75	5700	-
35	5.5	112	465	1.3	13.36	IE4	**BG50-../S4E11MA6**	11	37	74	112	134	350	400	465	465	465	75	6100	-
35	5.5	112	465	1.3	13.36	IE5	**BG50-../S5E11LA6**	11	37	74	112	134	465	465	465	465	465	86	6100	-
35	5.5	90	570	1.1	16.53	IE4	**BG50-../S4E11MA6**	9	30	60	90	108	435	495	570	570	570	75	6500	-
35	5.5	90	570	1.1	16.53	IE5	**BG50-../S5E11LA6**	9	30	60	90	108	570	570	570	570	570	86	6500	-
35	5.5	81	640	0.98	18.33	IE4	**BG50-../S4E11MA6**	8.1	27	54	81	98	485	540	640	640	640	75	7200	-
35	5.5	81	640	0.98	18.33	IE5	**BG50-../S5E11LA6**	8.1	27	54	81	98	640	640	640	640	640	86	7200	-
35	5.5	68	760	0.82	21.96	IE4	**BG50-../S4E11MA6**	6.8	22.5	45.5	68	81	580	650	760	760	760	75	8000	-
35	5.5	68	760	0.82	21.96	IE5	**BG50-../S5E11LA6**	6.8	22.5	45.5	68	81	760	760	760	760	760	86	8000	-
35	5.5	164	315	2.8	9.13	IE4	**BG60-../S4E11MA6**	16	54	109	164	197	240	270	315	315	315	107	9800	-
35	5.5	164	315	2.8	9.13	IE5	**BG60-../S5E11LA6**	16	54	109	164	197	315	315	315	315	315	119	9800	-
35	5.5	148	350	2.6	10.12	IE4	**BG60-../S4E11MA6**	14.5	49	98	148	177	265	300	350	350	350	107	10200	-
35	5.5	148	350	2.6	10.12	IE5	**BG60-../S5E11LA6**	14.5	49	98	148	177	350	350	350	350	350	119	10200	-
35	5.5	123	425	2.3	12.16	IE5	**BG60-../S5E11LA6**	12	41	82	123	148	425	425	425	425	425	119	10800	-
35	5.5	123	425	2.3	12.16	IE4	**BG60-../S4E11MA6**	12	41	82	123	148	320	360	425	425	425	107	10800	-
35	5.5	111	470	2.2	13.47	IE4	**BG60-../S4E11MA6**	11	37	74	111	133	355	400	470	470	470	107	11200	-
35	5.5	111	470	2.2	13.47	IE5	**BG60-../S5E11LA6**	11	37	74	111	133	470	470	470	470	470	119	11200	-
35	5.5	89	580	1.9	16.8	IE4	**BG60-../S4E11MA6**	8.9	29.5	59	89	107	445	500	580	580	580	107	12000	-
35	5.5	89	580	1.9	16.8	IE5	**BG60-../S5E11LA6**	8.9	29.5	59	89	107	580	580	580	580	580	119	12000	-
35	5.5	80	650	1.7	18.62	IE4	**BG60-../S4E11MA6**	8	26.5	53	80	96	490	550	650	650	650	107	12400	-
35	5.5	80	650	1.7	18.62	IE5	**BG60-../S5E11LA6**	8	26.5	53	80	96	650	650	650	650	650	119	12400	-
35	5.5	66	780	1.5	22.4	IE5	**BG60-../S5E11LA6**	6.6	22	44.5	66	80	780	780	780	780	780	119	13300	-
35	5.5	66	780	1.5	22.4	IE4	**BG60-../S4E11MA6**	6.6	22	44.5	66	80	590	670	780	780	780	107	13300	-
35	5.5	60	860	1.4	24.82	IE4	**BG60-../S4E11MA6**	6	20	40	60	72	650	740	860	860	860	107	13800	-
35	5.5	60	860	1.4	24.82	IE5	**BG60-../S5E11LA6**	6	20	40	60	72	860	860	860	860	860	119	13800	-
35	5.5	51	1020	1.2	29.31	IE4	**BG60-../S4E11MA6**	5.1	17	34	51	61	770	870	1020	1020	1020	107	14800	-
35	5.5	51	1020	1.2	29.31	IE5	**BG60-../S5E11LA6**	5.1	17	34	51	61	1020	1020	1020	1020	1020	119	14800	-
35	5.5	46	1130	1.1	32.48	IE4	**BG60-../S4E11MA6**	4.6	15	30.5	46	55	860	970	1130	1130	1130	107	15400	-
35	5.5	46	1130	1.1	32.48	IE5	**BG60-../S5E11LA6**	4.6	15	30.5	46	55	1130	1130	1130	1130	1130	119	15400	-
35	5.5	38.5	1350	0.88	38.85	IE5	**BG60-../S5E11LA6**	3.8	12.5	25.5	38.5	46	1350	1350	1350	1350	1350	119	16000	-
35	5.5	38.5	1350	0.88	38.85	IE4	**BG60-../S4E11MA6**	3.8	12.5	25.5	38.5	46	1020	1160	1350	1350	1350	107	16000	-
35	5.5	34.5	1500	0.8	43.05	IE4	**BG60-../S4E11MA6**	3.4	11.5	23	34.5	41.5	1140	1290	1500	1500	1500	107	16000	-
35	5.5	34.5	1500	0.8	43.05	IE5	**BG60-../S5E11LA6**	3.4	11.5	23	34.5	41.5	1500	1500	1500	1500	1500	119	16000	-
35	5.5	65	800	2.9	22.92	IE5	**BG70-../S5E11LA6**	6.5	21.5	43.5	65	78	800	800	800	800	800	149	15100	-
35	5.5	65	800	2.9	22.92	IE4	**BG70-../S4E11MA6**	6.5	21.5	43.5	65	78	600	680	800	800	800	138	15100	-
35	5.5	55	950	2.4	27.21	IE5	**BG70-../S5E11LA6**	5.5	18	36.5	55	66	950	950	950	950	950	149	16400	-
35	5.5	55	950	2.4	27.21	IE4	**BG70-../S4E11MA6**	5.5	18	36.5	55	66	720	810	950	950	950	138	16400	-
35	5.5	50	1030	2.2	29.69	IE4	**BG70-../S4E11MA6**	5	16.5	33.5	50	60	780	890	1030	1030	1030	138	16900	-
35	5.5	50	1030	2.2	29.69	IE5	**BG70-../S5E11LA6**	5	16.5	33.5	50	60	1030	1030	1030	1030	1030	149	16900	-
35	5.5	42.5	1230	1.9	35.24	IE5	**BG70-../S5E11LA6**	4.2	14	28	42.5	51	1230	1230	1230	1230	1230	149	18300	-
35	5.5	42.5	1230	1.9	35.24	IE4	**BG70-../S4E11MA6**	4.2	14	28	42.5	51	930	1050	1230	1230	1230	138	18300	-
35	5.5	38	1370	1.7	39.22	IE5	**BG70-../S5E11LA6**	3.8	12.5	25	38	45.5	1370	1370	1370	1370	1370	149	19100	-
35	5.5	38	1370	1.7	39.22	IE4	**BG70-../S4E11MA6**	3.8	12.5	25	38	45.5	1030	1170	1370	1370	1370	138	19100	-
35	5.5	32	1620	1.4	46.54	IE4	**BG70-../S4E11MA6**	3.2	10.5	21	32	38.5	1230	1390	1620	1620	1620	138	20000	-
35	5.5	32	1620	1.4	46.54	IE5	**BG70-../S5E11LA6**	3.2	10.5	21	32	38.5	1620	1620	1620	1620	1620	149	20000	-
35	5.5	29.5	1760	1.3	50.4	IE4	**BG70-../S4E11MA6**	2.9	9.9	19.5	29.5	35.5	1330	1510	1760	1760	1760	138	20000	-
35	5.5	29.5	1760	1.3	50.4	IE5	**BG70-../S5E11LA6**	2.9	9.9	19.5	29.5	35.5	1760	1760	1760	1760	1760	149	20000	-
35	5.5	25	2050	1.1	59.82	IE4	**BG70-../S4E11MA6**	2.5	8.3	16.5	25	30	1580	1790	2050	2050	2050	138	20000	-
35	5.5	25	2050	1.1	59.82	IE5	**BG70-../S5E11LA6**	2.5	8.3	16.5	25	30	2050	2050	2050	2050	2050	149	20000	-
35	5.5	27	1910	1	54.64	IE5	**BG70Z-../S5E11LA6**	2.7	9.1	18	27	32.5	1910	1910	1910	1910	1910	176	20000	-
35	5.5	27	1910	1	54.64	IE4	**BG70Z-../S4E11MA6**	2.7	9.1	18	27	32.5	1440	1630	1910	1910	1910	164	20000	-

MN = 35 Nm (PN = 5.5 kW)



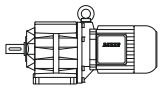
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
35	5.5	23	2250	1	64.85	IE4	**BG70Z-../S4E11MA6**	2.3	7.7	15	23	27.5	1710	1940	2250	2250	2250	164	20000	-
35	5.5	23	2250	1	64.85	IE5	**BG70Z-../S5E11LA6**	2.3	7.7	15	23	27.5	2250	2250	2250	2250	2250	176	20000	-
35	5.5	20	2550	0.89	73.82	IE4	**BG70Z-../S4E11MA6**	2	6.7	13.5	20	24	1950	2200	2550	2550	2550	164	20000	-
35	5.5	20	2550	0.89	73.82	IE5	**BG70Z-../S5E11LA6**	2	6.7	13.5	20	24	2550	2550	2550	2550	2550	176	20000	-
35	5.5	34	1530	2.7	43.94	IE4	**BG80-../S4E11MA6**	3.4	11	22.5	34	40.5	1160	1310	1530	1530	1530	192	22600	-
35	5.5	34	1530	2.7	43.94	IE5	**BG80-../S5E11LA6**	3.4	11	22.5	34	40.5	1530	1530	1530	1530	1530	204	22600	-
35	5.5	30.5	1700	2.5	48.8	IE4	**BG80-../S4E11MA6**	3	10	20	30.5	36.5	1290	1460	1700	1700	1700	192	23800	-
35	5.5	30.5	1700	2.5	48.8	IE5	**BG80-../S5E11LA6**	3	10	20	30.5	36.5	1700	1700	1700	1700	1700	204	23800	-
35	5.5	26	2000	2.1	57.24	IE5	**BG80-../S5E11LA6**	2.6	8.7	17	26	31	2000	2000	2000	2000	2000	204	25400	-
35	5.5	26	2000	2.1	57.24	IE4	**BG80-../S4E11MA6**	2.6	8.7	17	26	31	1510	1710	2000	2000	2000	192	25400	-
35	5.5	23.5	2200	1.9	63.56	IE4	**BG80-../S4E11MA6**	2.3	7.8	15.5	23.5	28	1680	1900	2200	2200	2200	192	26000	-
35	5.5	23.5	2200	1.9	63.56	IE5	**BG80-../S5E11LA6**	2.3	7.8	15.5	23.5	28	2200	2200	2200	2200	2200	204	26000	-
35	5.5	22.5	2300	1.8	66.4	IE5	**BG80Z-../S5E11LA6**	2.2	7.5	15	22.5	27	2300	2300	2300	2300	2300	246	26000	-
35	5.5	22.5	2300	1.8	66.4	IE4	**BG80Z-../S4E11MA6**	2.2	7.5	15	22.5	27	1750	1990	2300	2300	2300	234	26000	-
35	5.5	20	2550	1.6	73.73	IE4	**BG80Z-../S4E11MA6**	2	6.7	13.5	20	24	1950	2200	2550	2550	2550	234	26000	-
35	5.5	20	2550	1.6	73.73	IE5	**BG80Z-../S5E11LA6**	2	6.7	13.5	20	24	2550	2550	2550	2550	2550	246	26000	-
35	5.5	17.5	2950	1.4	84.55	IE5	**BG80Z-../S5E11LA6**	1.7	5.9	11.5	17.5	21	2950	2950	2950	2950	2950	246	26000	-
35	5.5	17.5	2950	1.4	84.55	IE4	**BG80Z-../S4E11MA6**	1.7	5.9	11.5	17.5	21	2200	2500	2950	2950	2950	234	26000	-
35	5.5	15.5	3250	1.3	93.89	IE4	**BG80Z-../S4E11MA6**	1.5	5.3	10.5	15.5	19	2450	2800	3250	3250	3250	234	26000	-
35	5.5	15.5	3250	1.3	93.89	IE5	**BG80Z-../S5E11LA6**	1.5	5.3	10.5	15.5	19	3250	3250	3250	3250	3250	246	26000	-
35	5.5	13	3900	1.1	112.4	IE5	**BG80Z-../S5E11LA6**	1.3	4.4	8.8	13	16	3900	3900	3900	3900	3900	246	26000	-
35	5.5	13	3900	1.1	112.4	IE4	**BG80Z-../S4E11MA6**	1.3	4.4	8.8	13	16	2950	3350	3900	3900	3900	234	26000	-
35	5.5	12	4350	0.96	124.8	IE5	**BG80Z-../S5E11LA6**	1.2	4	8	12	14	4350	4350	4350	4350	4350	246	26000	-
35	5.5	12	4350	0.96	124.8	IE4	**BG80Z-../S4E11MA6**	1.2	4	8	12	14	3300	3700	4350	4350	4350	234	26000	-
35	5.5	10	5000	0.83	145.4	IE5	**BG80Z-../S5E11LA6**	1	3.4	6.8	10	12	5000	5000	5000	5000	5000	246	26000	-
35	5.5	10	5000	0.83	145.4	IE4	**BG80Z-../S4E11MA6**	1	3.4	6.8	10	12	3850	4350	5000	5000	5000	234	26000	-
35	5.5	17.5	2900	2.9	83.91	IE4	**BG90Z-../S4E11MA6**	1.7	5.9	11.5	17.5	21	2200	2500	2900	2900	2900	336	65000	-
35	5.5	17.5	2900	2.9	83.91	IE5	**BG90Z-../S5E11LA6**	1.7	5.9	11.5	17.5	21	2900	2900	2900	2900	2900	348	65000	-
35	5.5	15.5	3350	2.5	96.53	IE5	**BG90Z-../S5E11LA6**	1.5	5.1	10	15.5	18.5	3350	3350	3350	3350	3350	348	65000	-
35	5.5	15.5	3350	2.5	96.53	IE4	**BG90Z-../S4E11MA6**	1.5	5.1	10	15.5	18.5	2550	2850	3350	3350	3350	336	65000	-
35	5.5	14	3650	2.3	105.7	IE4	**BG90Z-../S4E11MA6**	1.4	4.7	9.4	14	17	2800	3150	3650	3650	3650	336	65000	-
35	5.5	14	3650	2.3	105.7	IE5	**BG90Z-../S5E11LA6**	1.4	4.7	9.4	14	17	3650	3650	3650	3650	3650	348	65000	-
35	5.5	11.5	4400	1.9	127.1	IE4	**BG90Z-../S4E11MA6**	1.1	3.9	7.8	11.5	14	3350	3800	4400	4400	4400	336	65000	-
35	5.5	11.5	4400	1.9	127.1	IE5	**BG90Z-../S5E11LA6**	1.1	3.9	7.8	11.5	14	4400	4400	4400	4400	4400	348	65000	-
35	5.5	10.5	4850	1.7	139.2	IE4	**BG90Z-../S4E11MA6**	1	3.5	7.1	10.5	12.5	3650	4150	4850	4850	4850	336	65000	-
35	5.5	10.5	4850	1.7	139.2	IE5	**BG90Z-../S5E11LA6**	1	3.5	7.1	10.5	12.5	4850	4850	4850	4850	4850	348	65000	-
35	5.5	9.2	5700	1.5	163	IE5	**BG90Z-../S5E11LA6**	0.9	3	6.1	9.2	11	5700	5700	5700	5700	5700	348	65000	-
35	5.5	9.2	5700	1.5	163	IE4	**BG90Z-../S4E11MA6**	0.9	3	6.1	9.2	11	4300	4850	5700	5700	5700	336	65000	-
35	5.5	8.4	6200	1.3	178.5	IE4	**BG90Z-../S4E11MA6**	0.8	2.8	5.6	8.4	10	4700	5300	6200	6200	6200	336	65000	-
35	5.5	8.4	6200	1.3	178.5	IE5	**BG90Z-../S5E11LA6**	0.8	2.8	5.6	8.4	10	6200	6200	6200	6200	6200	348	65000	-
35	5.5	7.2	7200	1.2	208.3	IE4	**BG90Z-../S4E11MA6**	0.7	2.4	4.8	7.2	8.6	5500	6200	7200	7200	7200	336	65000	-
35	5.5	7.2	7200	1.2	208.3	IE5	**BG90Z-../S5E11LA6**	0.7	2.4	4.8	7.2	8.6	7200	7200	7200	7200	7200	348	65000	-
35	5.5	6.5	7900	1.1	228.1	IE4	**BG90Z-../S4E11MA6**	0.65	2.1	4.3	6.5	7.8	6000	6800	7900	7900	7900	336	65000	-
35	5.5	6.5	7900	1.1	228.1	IE5	**BG90Z-../S5E11LA6**	0.65	2.1	4.3	6.5	7.8	7900	7900	7900	7900	7900	348	65000	-
35	5.5	6.8	7600	1.2	219.9	IE4	**BG90G50-../S4E11MA6**	0.65	2.2	4.5	6.8	8.1	5800	6500	7600	7600	7600	353	65000	-
35	5.5	6.8	7600	1.2	219.9	IE5	**BG90G50-../S5E11LA6**	0.65	2.2	4.5	6.8	8.1	7600	7600	7600	7600	7600	365	65000	-
35	5.5	5.7	9100	1	262.5	IE4	**BG90G50-../S4E11MA6**	0.55	1.9	3.8	5.7	6.8	6900	7800	9100	9100	9100	353	65000	-
35	5.5	5.7	9100	1	262.5	IE5	**BG90G50-../S5E11LA6**	0.55	1.9	3.8	5.7	6.8	9100	9100	9100	9100	9100	365	65000	-
35	5.5	5	10400	0.88	298.8	IE4	**BG90G50-../S4E11MA6**	0.5	1.6	3.3	5	6	7900	8900	10400	10400	10400	353	65000	-
35	5.5	5	10400	0.88	298.8	IE5	**BG90G50-../S5E11LA6**	0.5	1.6	3.3	5	6	10400	10400	10400	10400	10400	365	65000	-
35	5.5	8.3	6200	2.7	178.6	IE5	**BG100-../S5E11LA6**	0.8	2.7	5.5	8.3	10	6200	6200	6200	6200	6200	465	90000	-
35	5.5	8.3	6200	2.7	178.6	IE4	**BG100-../S4E11MA6**	0.8	2.7	5.5	8.3	10	4700	5300	6200	6200	6200	453	90000	-
35	5.5	7.5	6900	2.4	198.8	IE5	**BG100-../S5E11LA6**	0.75	2.5	5	7.5	9	6900	6900	6900	6900	6900	465	90000	-
35	5.5	7.5	6900	2.4	198.8	IE4	**BG100-../S4E11MA6**	0.75	2.5	5	7.5	9	5200	5900	6900	6900	6900	453	90000	-
35	5.5	6.4	8100	2.1	232.6	IE4	**BG100-../S4E11MA6**	0.6	2.1	4.2	6.4	7.7	6100	6900	8100	8100	8100	453	90000	-
35	5.5	6.4	8100	2.1	232.6	IE5	**BG100-../S5E11LA6**	0.6	2.1	4.2	6.4	7.7	8100	8100	8100	8100	8100	465	90000	-
35	5.5	5.7	9000	1.9	259	IE4	**BG100-../S4E11MA6**	0.55	1.9	3.8	5.7	6.9	6800	7700	9000	9000	9000	453	90000	-
35	5.5	5.7	9000	1.9	259	IE5	**BG100-../S5E11LA6**	0.55	1.9	3.8	5.7	6.9	9000	9000	9000	9000	9000	465	90000	-
35	5.5	5.5	9400	2	269.8	IE4	**BG100Z-../S4E11MA6**	0.55	1.8	3.7	5.5	6.6	7100	8000	9400	9400	9400	543	90000	-
35	5.5	5.5	9400	2	269.8	IE5	**BG100Z-../S5E11LA6**	0.55	1.8	3.7	5.5	6.6	9400	9400	9400	9400	9400	555	90000	-
35	5.5	4.9	10500	1.8	300.4	IE5	**BG100Z-../S5E11LA6**	0.49	1.6	3.3	4.9	5.9	10500	10500	10500	10500	10500	555	90000	-
35	5.5	4.9	10500	1.8	300.4	IE4	**BG100Z-../S4E11MA6**	0.49	1.6	3.3	4.9	5.9	7900	9000	10500	10500	10500	543	90000	-
35	5.5	4.3	12000	1.5	343.6	IE5	**BG100Z-../S5E11LA6**	0.43	1.4	2.9	4.3	5.2	12000	12000	12000	12000	12000	555	90000	-
35	5.5	4.3	12000	1.5	343.6	IE4	**BG100Z-../S4E11MA6**	0.43	1.4	2.9	4.3	5.2	9100	10300	12000	12000	12000	543	90000	-
35	5.5	3.9	13300	1.4	382.6	IE4	**BG100Z-../S4E11MA6**	0.39	1.3	2.6	3.9	4.7	10100	11400	13300	13300	13300	543	90000	-
35	5.5	3.9	13300	1.4	382.6	IE5	**BG100Z-../S5E11LA6**	0.39	1.3	2.6	3.9	4.7	13300	13300	13300	13300	13300	555	90000	-
35	5.5	3.2	15900	1.2	456.7	IE4	**BG100Z-../S4E11MA6**	0.32	1	2.1	3.2	3.9	12100	13700	15900	15900	15900	543	90000	-
35	5.5	3.2	15900	1.2	456.7	IE5	**BG100Z-../S5E11LA6**	0.32	1	2.1	3.2	3.9	15900	15900	15900	15900	15900	555	90000	-
35	5.5	2.9	17700	1	508.5	IE5	**BG100Z-../S5E11LA6**	0.29	0.95	1.9	2.9	3.5	17700	17700	17700	17700	17700	555	90000	-
35	5.5	2.9	17700	1	508.5	IE4	**BG100Z-../S4E11MA6**	0.29	0.95	1.9	2.9	3.5	13400	15200	17700	17700	17700	543	90000	-
35	5.5	2.5	20500	0.89	591.1	IE4	**BG100Z-../S4E11MA6**	0.25	0.8	1.6	2.5	3	15600	17700	20500	20500	20500	543	90000	-
35	5.5	2.5	20500	0.89	591.1	IE5	**BG100Z-../S5E11LA6**	0.25	0.8	1.6	2.5	3	20500	20500	20500	20500	20500	555	90000	-
35	5.5	2.2	23000	0.8	658.1	IE4	**BG100Z-../S4E11MA6**	0.22	0.75	1.5	2.2	2.7	17400	19700	23000	23000	23000	543	90000	-
35	5.5	2.2	23000	0.8	658.1	IE5	**BG100Z-../S5E11LA6**	0.22	0.75	1.5	2.2	2.7	23000	23000	23000	23000	23000	555	90000	-

MN = 48 Nm (PN = 7.5 kW)



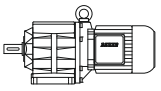
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
48	7.5	560	128	1	2.67	IE3	**BG30-../SPE11LA6**	56	187	370	560	670	93	106	128	128	128	58	1450	-
48	7.5	440	163	0.85	3.4	IE3	**BG30-../SPE11LA6**	44	147	290	440	520	119	136	163	163	163	58	1580	-
48	7.5	355	200	0.85	4.21	IE3	**BG30-../SPE11LA6**	35.5	118	235	355	425	147	168	200	200	200	58	1630	-
48	7.5	600	118	1.7	2.46	IE3	**BG40-../SPE11LA6**	60	200	405	600	730	86	98	118	118	118	77	2150	-
48	7.5	470	153	1.4	3.19	IE3	**BG40-../SPE11LA6**	47	156	310	470	560	111	127	153	153	153	77	2350	-
48	7.5	375	190	1.3	3.97	IE3	**BG40-../SPE11LA6**	37.5	125	250	375	450	138	158	190	190	190	77	2400	-
48	7.5	300	235	1.1	4.94	IE3	**BG40-../SPE11LA6**	30	101	200	300	360	172	197	235	235	235	77	2450	-
48	7.5	235	300	0.98	6.29	IE3	**BG40-../SPE11LA6**	23.5	79	158	235	285	220	250	300	300	300	77	2600	-
48	7.5	230	305	1	6.4	IE3	**BG40-../SPE11LA6**	23	78	156	230	280	220	255	305	305	305	77	3750	-
48	7.5	210	340	0.95	7.11	IE3	**BG40-../SPE11LA6**	21	70	140	210	250	245	280	340	340	340	77	3950	-
48	7.5	196	365	0.81	7.62	IE3	**BG40-../SPE11LA6**	19.5	65	131	196	235	265	300	365	365	365	77	2650	-
48	7.5	180	395	0.85	8.31	IE3	**BG40-../SPE11LA6**	18	60	120	180	215	290	330	395	395	395	77	4100	-
48	7.5	162	440	0.8	9.23	IE3	**BG40-../SPE11LA6**	16	54	108	162	195	320	365	440	440	440	77	4350	-
48	7.5	600	118	2.6	2.47	IE3	**BG50-../SPE11LA6**	60	200	400	600	720	86	98	118	118	118	86	2900	-
48	7.5	420	170	2	3.55	IE3	**BG50-../SPE11LA6**	42	140	280	420	500	124	142	170	170	170	86	3300	-
48	7.5	305	235	1.7	4.91	IE3	**BG50-../SPE11LA6**	30.5	101	200	305	365	171	196	235	235	235	86	3500	-
48	7.5	245	290	1.5	6.07	IE3	**BG50-../SPE11LA6**	24.5	82	164	245	295	210	240	290	290	290	86	4700	-
48	7.5	220	320	1.4	6.74	IE3	**BG50-../SPE11LA6**	22	74	148	220	265	235	265	320	320	320	86	3750	-
48	7.5	172	415	1.2	8.7	IE3	**BG50-../SPE11LA6**	17	57	114	172	205	300	345	415	415	415	86	5300	-
48	7.5	155	460	1.1	9.65	IE3	**BG50-../SPE11LA6**	15.5	51	103	155	186	335	385	460	460	460	86	5600	-
48	7.5	124	570	0.98	12.06	IE3	**BG50-../SPE11LA6**	12	41	82	124	149	420	480	570	570	570	86	5700	-
48	7.5	112	640	0.92	13.36	IE3	**BG50-../SPE11LA6**	11	37	74	112	134	465	530	640	640	640	86	6100	-
48	7.5	300	235	2.8	4.98	IE3	**BG60-../SPE11LA6**	30	100	200	300	360	174	199	235	235	235	119	7800	-
48	7.5	240	295	2.6	6.16	IE3	**BG60-../SPE11LA6**	24	81	162	240	290	215	245	295	295	295	119	8500	-
48	7.5	215	325	2.4	6.82	IE3	**BG60-../SPE11LA6**	21.5	73	146	215	260	235	270	325	325	325	119	8900	-
48	7.5	215	330	2.4	6.88	IE3	**BG60-../SPE11LA6**	21.5	72	145	215	260	240	275	330	330	330	119	8600	-
48	7.5	164	435	2	9.13	IE3	**BG60-../SPE11LA6**	16	54	109	164	197	315	365	435	435	435	119	9800	-
48	7.5	148	485	1.9	10.12	IE3	**BG60-../SPE11LA6**	14.5	49	98	148	177	350	400	485	485	485	119	10200	-
48	7.5	123	580	1.7	12.16	IE3	**BG60-../SPE11LA6**	12	41	82	123	148	425	485	580	580	580	119	10800	-
48	7.5	111	640	1.6	13.47	IE3	**BG60-../SPE11LA6**	11	37	74	111	133	470	530	640	640	640	119	11200	-
48	7.5	89	800	1.4	16.8	IE3	**BG60-../SPE11LA6**	8.9	29.5	59	89	107	580	670	800	800	800	119	12000	-
48	7.5	80	890	1.3	18.62	IE3	**BG60-../SPE11LA6**	8	26.5	53	80	96	650	740	890	890	890	119	12400	-
48	7.5	66	1070	1.1	22.4	IE3	**BG60-../SPE11LA6**	6.6	22	44.5	66	80	780	890	1070	1070	1070	119	13300	-
48	7.5	60	1190	1	24.82	IE3	**BG60-../SPE11LA6**	6	20	40	60	72	860	990	1190	1190	1190	119	13800	-
48	7.5	51	1400	0.85	29.31	IE3	**BG60-../SPE11LA6**	5.1	17	34	51	61	1020	1170	1400	1400	1400	119	14800	-
48	7.5	84	840	2.7	17.68	IE3	**BG70-../SPE11LA6**	8.4	28	56	84	101	610	700	840	840	840	149	13400	-
48	7.5	71	1000	2.3	20.98	IE3	**BG70-../SPE11LA6**	7.1	23.5	47.5	71	85	730	830	1000	1000	1000	149	14600	-
48	7.5	65	1100	2.1	22.92	IE3	**BG70-../SPE11LA6**	6.5	21.5	43.5	65	78	800	910	1100	1100	1100	149	15100	-
48	7.5	55	1300	1.8	27.21	IE3	**BG70-../SPE11LA6**	5.5	18	36.5	55	66	950	1080	1300	1300	1300	149	16400	-
48	7.5	50	1420	1.6	29.69	IE3	**BG70-../SPE11LA6**	5	16.5	33.5	50	60	1030	1180	1420	1420	1420	149	16900	-
48	7.5	42.5	1690	1.4	35.24	IE3	**BG70-../SPE11LA6**	4.2	14	28	42.5	51	1230	1400	1690	1690	1690	149	18300	-
48	7.5	38	1880	1.2	39.22	IE3	**BG70-../SPE11LA6**	3.8	12.5	25	38	45.5	1370	1560	1880	1880	1880	149	19100	-
48	7.5	32	2200	1	46.54	IE3	**BG70-../SPE11LA6**	3.2	10.5	21	32	38.5	1620	1860	2200	2200	2200	149	20000	-
48	7.5	29.5	2400	0.95	50.4	IE3	**BG70-../SPE11LA6**	2.9	9.9	19.5	29.5	35.5	1760	2000	2400	2400	2400	149	20000	-
48	7.5	25	2850	0.8	59.82	IE3	**BG70-../SPE11LA6**	2.5	8.3	16.5	25	30	2050	2350	2850	2850	2850	149	20000	-
48	7.5	51	1400	3	29.36	IE3	**BG80-../SPE11LA6**	5.1	17	34	51	61	1020	1170	1400	1400	1400	204	18900	-
48	7.5	43.5	1640	2.6	34.22	IE3	**BG80-../SPE11LA6**	4.3	14.5	29	43.5	52	1190	1360	1640	1640	1640	204	20200	-
48	7.5	39	1820	2.3	38	IE3	**BG80-../SPE11LA6**	3.9	13	26	39	47	1330	1520	1820	1820	1820	204	21300	-
48	7.5	34	2100	2	43.94	IE3	**BG80-../SPE11LA6**	3.4	11	22.5	34	40.5	1530	1750	2100	2100	2100	204	22600	-
48	7.5	30.5	2300	1.8	48.8	IE3	**BG80-../SPE11LA6**	3	10	20	30.5	36.5	1700	1950	2300	2300	2300	204	23800	-
48	7.5	26	2700	1.5	57.24	IE3	**BG80-../SPE11LA6**	2.6	8.7	17	26	31	2000	2250	2700	2700	2700	204	25400	-
48	7.5	23.5	3050	1.4	63.56	IE3	**BG80-../SPE11LA6**	2.3	7.8	15.5	23.5	28	2200	2500	3050	3050	3050	204	26000	-
48	7.5	22.5	3150	1.3	66.4	IE3	**BG80Z-../SPE11LA6**	2.2	7.5	15	22.5	27	2300	2650	3150	3150	3150	246	26000	-
48	7.5	20	3500	1.2	73.73	IE3	**BG80Z-../SPE11LA6**	2	6.7	13.5	20	24	2550	2900	3500	3500	3500	246	26000	-
48	7.5	17.5	4050	1	84.55	IE3	**BG80Z-../SPE11LA6**	1.7	5.9	11.5	17.5	21	2950	3350	4050	4050	4050	246	26000	-
48	7.5	15.5	4500	0.93	93.89	IE3	**BG80Z-../SPE11LA6**	1.5	5.3	10.5	15.5	19	3250	3750	4500	4500	4500	246	26000	-
48	7.5	26	2700	2.5	57.04	IE3	**BG90Z-../SPE11LA6**	2.6	8.7	17.5	26	31.5	1990	2250	2700	2700	2700	348	65000	-
48	7.5	24	2950	2.5	62.47	IE3	**BG90Z-../SPE11LA6**	2.4	8	16	24	28.5	2150	2450	2950	2950	2950	348	65000	-
48	7.5	19.5	3650	2.3	76.61	IE3	**BG90Z-../SPE11LA6**	1.9	6.5	13	19.5	23	2650	3050	3650	3650	3650	348	65000	-
48	7.5	17.5	4000	2.1	83.91	IE3	**BG90Z-../SPE11LA6**	1.7	5.9	11.5	17.5	21	2900	3350	4000	4000	4000	348	65000	-
48	7.5	15.5	4600	1.8	96.53	IE3	**BG90Z-../SPE11LA6**	1.5	5.1	10	15.5	18.5	3350	3850	4600	4600	4600	348	65000	-
48	7.5	14	5000	1.7	105.7	IE3	**BG90Z-../SPE11LA6**	1.4	4.7	9.4	14	17	3650	4200	5000	5000	5000	348	65000	-
48	7.5	11.5	6100	1.4	127.1	IE3	**BG90Z-../SPE11LA6**	1.1	3.9	7.8	11.5	14	4400	5000	6100	6100	6100	348	65000	-
48	7.5	10.5	6600	1.3	139.2	IE3	**BG90Z-../SPE11LA6**	1	3.5	7.1	10.5	12.5	4850	5500	6600	6600	6600	348	65000	-
48	7.5	9.2	7800	1.1	163	IE3	**BG90Z-../SPE11LA6**	0.9	3	6.1	9.2	11	5700	6500	7800	7800	7800	348	65000	-
48	7.5	8.4	8500	0.98	178.5	IE3	**BG90Z-../SPE11LA6**	0.8	2.8	5.6	8.4	10	6200	7100	8500	8500	8500	348	65000	-
48	7.5	7.2	9900	0.84	208.3	IE3	**BG90Z-../SPE11LA6**	0.7	2.4	4.8	7.2	8.6	7200	8300	9900	9900	9900	348	65000	-
48	7.5	6.8	10500	0.87	219.9	IE3	**BG90G50-../SPE11LA6**	0.65	2.2	4.5	6.8	8.1	7600	8700	10500	10500	10500	365	65000	-
48	7.5	12.5	5700	2.9	119.7	IE3	**BG100-../SPE11LA6**	1.2	4.1	8.3	12.5	15	4150	4750	5700	5700	5700	465	90000	-
48	7.5	10.5	6600	2.5	139.1	IE3	**BG100-../SPE11LA6**	1	3.5	7.1	10.5	12.5	4850	5500	6600	6600	6600	465	90000	-
48	7.5	9.6	7400	2.3	154.8	IE3	**BG100-../SPE11LA6**	0.95	3.2	6.4	9.6	11.5	5400	6100	7400	7400	7400	465	90000	-
48	7.5	8.3	8500	2	178.6	IE3	**BG100-../SPE11LA6**	0.8	2.7	5.5	8.3	10	6200	7100	8500	8500	8500	465	90000	-
48	7.5	7.5	9500	1.8	198.8	IE3	**BG100-../SPE11LA6**	0.75	2.5	5	7.5	9	6900	7900	9500	9500	9500	465	90000	-
48	7.5	6.4	11100	1.5	232.6	IE3	**BG100-../SPE11LA6**	0.6	2.1	4.2	6.4	7.7	8100	9300	11100	11100	11100	465	90000	-
48	7.5	5.7	12400	1.4	259	IE3	**BG100-../SPE11LA6**	0.55	1.9	3.8	5.7	6.9	9000	10300	12400	12400	12400	465	90000	-

MN = 48 Nm (PN = 7.5 kW)



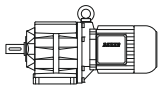
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	**Type**	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
48	7.5	5.5	12900	1.4	269.8	IE3	**BG100Z-../SPE11LA6**	0.55	1.8	3.7	5.5	6.6	9400	10700	12900	12900	12900	555	90000	-
48	7.5	4.9	14400	1.3	300.4	IE3	**BG100Z-../SPE11LA6**	0.49	1.6	3.3	4.9	5.9	10500	12000	14400	14400	14400	555	90000	-
48	7.5	4.3	16400	1.1	343.6	IE3	**BG100Z-../SPE11LA6**	0.43	1.4	2.9	4.3	5.2	12000	13700	16400	16400	16400	555	90000	-
48	7.5	3.9	18300	1	382.6	IE3	**BG100Z-../SPE11LA6**	0.39	1.3	2.6	3.9	4.7	13300	15300	18300	18300	18300	555	90000	-
48	7.5	3.2	21500	0.84	456.7	IE3	**BG100Z-../SPE11LA6**	0.32	1	2.1	3.2	3.9	15900	18200	21500	21500	21500	555	90000	-

MN = 0.65 Nm (PN = 0.2 kW)



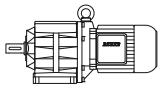
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
0.65	0.2	1190	1.63	2.5	2.51	IE5	**BG04-../S5E04SA4-1**	59	199	395	1190	1430	1.63	1.63	1.63	1.63	1.63	4.4	340	-
0.65	0.2	820	2.35	2.1	3.65	IE5	**BG04-../S5E04SA4-1**	41	136	270	820	980	2.35	2.35	2.35	2.35	2.35	4.4	390	-
0.65	0.2	680	2.85	2.5	4.39	IE5	**BG04-../S5E04SA4-1**	34	113	225	680	820	2.85	2.85	2.85	2.85	2.85	4.4	380	-
0.65	0.2	550	3.45	2.6	5.36	IE5	**BG04-../S5E04SA4-1**	27.5	93	186	550	670	3.45	3.45	3.45	3.45	3.45	4.4	380	-
0.65	0.2	485	4	2.7	6.18	IE5	**BG04-../S5E04SA4-1**	24	80	161	485	580	4	4	4	4	4	4.4	415	-
0.65	0.2	445	4.3	2.3	6.67	IE5	**BG04-../S5E04SA4-1**	22	74	149	445	530	4.3	4.3	4.3	4.3	4.3	4.4	410	-
0.65	0.2	440	4.4	2.5	6.8	IE5	**BG04-../S5E04SA4-1**	22	73	147	440	520	4.4	4.4	4.4	4.4	4.4	4.4	420	-
0.65	0.2	345	5.5	2	8.58	IE5	**BG04-../S5E04SA4-1**	17	58	116	345	415	5.5	5.5	5.5	5.5	5.5	4.4	410	-
0.65	0.2	330	5.8	2.1	9	IE5	**BG04-../S5E04SA4-1**	16.5	55	111	330	400	5.8	5.8	5.8	5.8	5.8	4.4	470	-
0.65	0.2	300	6.4	2	9.9	IE5	**BG04-../S5E04SA4-1**	15	50	101	300	360	6.4	6.4	6.4	6.4	6.4	4.4	480	-
0.65	0.2	275	7	2	10.82	IE5	**BG04-../S5E04SA4-1**	13.5	46	92	275	330	7	7	7	7	7	4.4	480	-
0.65	0.2	250	7.7	1.9	11.9	IE5	**BG04-../S5E04SA4-1**	12.5	42	84	250	300	7.7	7.7	7.7	7.7	7.7	4.4	490	-
0.65	0.2	235	8.1	1.8	12.55	IE5	**BG04-../S5E04SA4-1**	11.5	39.5	79	235	285	8.1	8.1	8.1	8.1	8.1	4.4	490	-
0.65	0.2	225	8.5	1.9	13.2	IE5	**BG04-../S5E04SA4-1**	11	37.5	75	225	270	8.5	8.5	8.5	8.5	8.5	4.4	500	-
0.65	0.2	205	9.4	1.8	14.52	IE5	**BG04-../S5E04SA4-1**	10	34	68	205	245	9.4	9.4	9.4	9.4	9.4	4.4	510	-
0.65	0.2	182	10.6	1.7	16.44	IE5	**BG04-../S5E04SA4-1**	9.1	30	60	182	215	10.6	10.6	10.6	10.6	10.6	4.4	530	-
0.65	0.2	165	11.7	1.5	18.08	IE5	**BG04-../S5E04SA4-1**	8.2	27.5	55	165	199	11.7	11.7	11.7	11.7	11.7	4.4	540	-
0.65	0.2	142	13.7	1.4	21.12	IE5	**BG04-../S5E04SA4-1**	7.1	23.5	47	142	170	13.7	13.7	13.7	13.7	13.7	4.4	560	-
0.65	0.2	129	15	1.3	23.23	IE5	**BG04-../S5E04SA4-1**	6.4	21.5	43	129	154	15	15	15	15	15	4.4	600	-
0.65	0.2	122	15.8	1.3	24.45	IE5	**BG04-../S5E04SA4-1**	6.1	20	40.5	122	147	15.8	15.8	15.8	15.8	15.8	4.4	610	-
0.65	0.2	111	17.4	1.1	26.89	IE5	**BG04-../S5E04SA4-1**	5.5	18.5	37	111	133	17.4	17.4	17.4	17.4	17.4	4.4	650	-
0.65	0.2	97	20	1	30.91	IE5	**BG04-../S5E04SA4-1**	4.8	16	32	97	116	20	20	20	20	20	4.4	690	-
0.65	0.2	88	22	0.9	34	IE5	**BG04-../S5E04SA4-1**	4.4	14.5	29	88	105	22	22	22	22	22	4.4	720	-
0.65	0.2	84	22.5	0.87	35.35	IE5	**BG04-../S5E04SA4-1**	4.2	14	28	84	101	22.5	22.5	22.5	22.5	22.5	4.4	730	-
0.65	0.2	285	6.7	2.8	10.4	IE5	**BG05-../S5E04SA4-1**	14	48	96	285	345	6.7	6.7	6.7	6.7	6.7	5.1	510	-
0.65	0.2	280	6.8	2.9	10.59	IE5	**BG05-../S5E04SA4-1**	14	47	94	280	335	6.8	6.8	6.8	6.8	6.8	5.1	590	-
0.65	0.2	255	7.5	2.8	11.55	IE5	**BG05-../S5E04SA4-1**	12.5	43	86	255	310	7.5	7.5	7.5	7.5	7.5	5.1	600	-
0.65	0.2	245	7.8	2.7	12.05	IE5	**BG05-../S5E04SA4-1**	12	41	82	245	295	7.8	7.8	7.8	7.8	7.8	5.1	510	-
0.65	0.2	235	8.1	2.7	12.6	IE5	**BG05-../S5E04SA4-1**	11.5	39.5	79	235	285	8.1	8.1	8.1	8.1	8.1	5.1	610	-
0.65	0.2	215	8.9	2.6	13.75	IE5	**BG05-../S5E04SA4-1**	10.5	36	72	215	260	8.9	8.9	8.9	8.9	8.9	5.1	630	-
0.65	0.2	196	9.8	2.4	15.23	IE5	**BG05-../S5E04SA4-1**	9.8	32.5	65	196	235	9.8	9.8	9.8	9.8	9.8	5.1	640	-
0.65	0.2	180	10.8	2.3	16.62	IE5	**BG05-../S5E04SA4-1**	9	30	60	180	215	10.8	10.8	10.8	10.8	10.8	5.1	660	-
0.65	0.2	159	12.2	2.1	18.82	IE5	**BG05-../S5E04SA4-1**	7.9	26.5	53	159	191	12.2	12.2	12.2	12.2	12.2	5.1	680	-
0.65	0.2	146	13.3	2	20.53	IE5	**BG05-../S5E04SA4-1**	7.3	24	48.5	146	175	13.3	13.3	13.3	13.3	13.3	5.1	700	-
0.65	0.2	125	15.6	1.8	24	IE5	**BG05-../S5E04SA4-1**	6.2	20.5	41.5	125	150	15.6	15.6	15.6	15.6	15.6	5.1	740	-
0.65	0.2	114	17	1.7	26.18	IE5	**BG05-../S5E04SA4-1**	5.7	19	38	114	137	17	17	17	17	17	5.1	760	-
0.65	0.2	107	18	1.7	27.82	IE5	**BG05-../S5E04SA4-1**	5.3	17.5	35.5	107	129	18	18	18	18	18	5.1	770	-
0.65	0.2	98	19.7	1.5	30.35	IE5	**BG05-../S5E04SA4-1**	4.9	16	32.5	98	118	19.7	19.7	19.7	19.7	19.7	5.1	760	-
0.65	0.2	85	22.5	1.3	35	IE5	**BG05-../S5E04SA4-1**	4.2	14	28.5	85	102	22.5	22.5	22.5	22.5	22.5	5.1	810	-
0.65	0.2	78	24.5	1.2	38.18	IE5	**BG05-../S5E04SA4-1**	3.9	13	26	78	94	24.5	24.5	24.5	24.5	24.5	5.1	850	-
0.65	0.2	75	25.5	1.2	39.94	IE5	**BG05-../S5E04SA4-1**	3.7	12.5	25	75	90	25.5	25.5	25.5	25.5	25.5	5.1	860	-
0.65	0.2	68	28	1.1	43.57	IE5	**BG05-../S5E04SA4-1**	3.4	11	22.5	68	82	28	28	28	28	28	5.1	900	-
0.65	0.2	63	30.5	0.98	47	IE5	**BG05-../S5E04SA4-1**	3.1	10.5	21	63	76	30.5	30.5	30.5	30.5	30.5	5.1	930	-
0.65	0.2	58	33	0.9	51.27	IE5	**BG05-../S5E04SA4-1**	2.9	9.7	19.5	58	70	33	33	33	33	33	5.1	970	-
0.65	0.2	56	34.5	0.86	53.44	IE5	**BG05-../S5E04SA4-1**	2.8	9.3	18.5	56	67	34.5	34.5	34.5	34.5	34.5	5.1	980	-
0.65	0.2	144	13.5	3	20.82	IE5	**BG06-../S5E04SA4-1**	7.2	24	48	144	172	13.5	13.5	13.5	13.5	13.5	6.1	800	-
0.65	0.2	132	14.7	2.9	22.71	IE5	**BG06-../S5E04SA4-1**	6.6	22	44	132	158	14.7	14.7	14.7	14.7	14.7	6.1	810	-
0.65	0.2	117	16.5	2.7	25.48	IE5	**BG06-../S5E04SA4-1**	5.8	19.5	39	117	141	16.5	16.5	16.5	16.5	16.5	6.1	850	-
0.65	0.2	107	18	2.5	27.8	IE5	**BG06-../S5E04SA4-1**	5.3	17.5	35.5	107	129	18	18	18	18	18	6.1	840	-
0.65	0.2	93	20.5	2.1	32.22	IE5	**BG06-../S5E04SA4-1**	4.6	15.5	31	93	111	20.5	20.5	20.5	20.5	20.5	6.1	890	-
0.65	0.2	85	22.5	2	35.15	IE5	**BG06-../S5E04SA4-1**	4.2	14	28	85	102	22.5	22.5	22.5	22.5	22.5	6.1	880	-
0.65	0.2	81	23.5	1.9	36.91	IE5	**BG06-../S5E04SA4-1**	4	13.5	27	81	97	23.5	23.5	23.5	23.5	23.5	6.1	890	-
0.65	0.2	74	26	1.7	40.26	IE5	**BG06-../S5E04SA4-1**	3.7	12	24.5	74	89	26	26	26	26	26	6.1	890	-
0.65	0.2	64	30	1.5	46.19	IE5	**BG06-../S5E04SA4-1**	3.2	10.5	21.5	64	77	30	30	30	30	30	6.1	890	-
0.65	0.2	59	32.5	1.4	50.38	IE5	**BG06-../S5E04SA4-1**	2.9	9.9	19.5	59	71	32.5	32.5	32.5	32.5	32.5	6.1	940	-
0.65	0.2	57	34	1.3	52.56	IE5	**BG06-../S5E04SA4-1**	2.8	9.5	19	57	68	34	34	34	34	34	6.1	950	-
0.65	0.2	52	37	1.2	57.34	IE5	**BG06-../S5E04SA4-1**	2.6	8.7	17	52	62	37	37	37	37	37	6.1	1000	-
0.65	0.2	49	39.5	1.1	61.22	IE5	**BG06-../S5E04SA4-1**	2.4	8.1	16	49	58	39.5	39.5	39.5	39.5	39.5	6.1	1020	-
0.65	0.2	44.5	43	1	66.79	IE5	**BG06-../S5E04SA4-1**	2.2	7.4	14.5	44.5	53	43	43	43	43	43	6.1	1070	-
0.65	0.2	39	49	0.81	75.99	IE5	**BG06G04-../S5E04SA4-1**	1.9	6.5	13	39	47	49	49	49	49	49	8.4	1070	-
0.65	0.2	36	53	0.8	82.89	IE5	**BG06G04-../S5E04SA4-1**	1.8	6	12	36	43	53	53	53	53	53	8.4	1070	-
0.65	0.2	44	43.5	2.3	67.54	IE5	**BG10Z-../S5E04SA4-1**	2.2	7.4	14.5	44	53	43.5	43.5	43.5	43.5	43.5	11	2000	2800
0.65	0.2	38.5	50	2.4	77.4	IE5	**BG10Z-../S5E04SA4-1**	1.9	6.4	12.5	38.5	46.5	50	50	50	50	50	11	2000	2800
0.65	0.2	34.5	55	2.2	85.76	IE5	**BG10Z-../S5E04SA4-1**	1.7	5.8	11.5	34.5	41.5	55	55	55	55	55	11	2000	2800
0.65	0.2	32.5	59	2	92.19	IE5	**BG10Z-../S5E04SA4-1**	1.6	5.4	10.5	32.5	39	59	59	59	59	59	11	2000	2800
0.65	0.2	29	66	1.8	102.1	IE5	**BG10Z-../S5E04SA4-1**	1.4	4.8	9.7	29	35	66	66	66	66	66	11	2000	2800
0.65	0.2	27	71	1.7	109.8	IE5	**BG10Z-../S5E04SA4-1**	1.3	4.5	9.1	27	32.5	71	71	71	71	71	11	2000	2800
0.65	0.2	24.5	79	1.5	121.7	IE5	**BG10Z-../S5E04SA4-1**	1.2	4.1	8.2	24.5	29.5	79	79	79	79	79	11	2000	2800
0.65	0.2	22.5	85	1.4	131.8	IE5	**BG10Z-../S5E04SA4-1**	1.1	3.7	7.5	22.5	27	85	85	85	85	85	11	2000	2800
0.65	0.2	20.5	94	1.3	146	IE5	**BG10Z-../S5E04SA4-1**	1	3.4	6.8	20.5	24.5	94	94	94	94	94	11	2000	2800
0.65	0.2	18	107	1.1	166	IE5	**BG10Z-../S5E04SA4-1**	0.9	3	6	18	21.5	107	107	107	107	107	11	2000	2800
0.65	0.2	16	119	1	184	IE5	**BG10Z-../S5E04SA4-1**	0.8	2.7	5.4	16	19.5	119	119	119	119	119	11	2000	2800
0.65	0.2	15	126	0.95	194.6	IE5	**BG10Z-../S5E04SA4-1**	0.75	2.5	5.1	15	18	126	126	126	126	126	11	2000	2800
0.65	0.2	13.5	140	0.86	215.7	IE5	**BG10Z-../S5E04SA4-1**	0.65	2.3	4.6	13.5	16.5	140	140	140	140	140	11	2000	2800
0.65	0.2	19.5	97	1.3	150.1	IE5	**BG10G06-../S5E04SA4-1**	0.95	3.3	6.6	19.5	23.5	97	97	97	97	97	14	2000	2800
0.65	0.2	18	108	1.2	166.3	IE5	**BG10G06-../S5E04SA4-1**	0.9	3	6	18	21.5	108	108	108	108	108	14	2000	2800
0.65	0.2	15	126	1	194.9	IE5	**BG10G06-../S5E04SA4-1**	0.75	2.5	5.1	15	18	126	126	126	126	126	14	2000	2800
0.65	0.2	12	156	0.83	240.7	IE5	**BG10G06-../S5E04SA4-1**	0.6	2	4.1	12	14.5	156	156	156	156	156	14	2000	2800

MN = 0.65 Nm (PN = 0.2 kW)



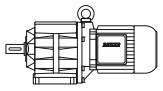
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
0.65	0.2	28.5	68	2.9	104.7	IE5	**BG20Z-../S5E04SA4-1**	1.4	4.7	9.5	28.5	34	68	68	68	68	68	13	5000	-
0.65	0.2	26.5	73	2.7	112.8	IE5	**BG20Z-../S5E04SA4-1**	1.3	4.4	8.8	26.5	31.5	73	73	73	73	73	13	5000	-
0.65	0.2	23.5	81	2.5	125.3	IE5	**BG20Z-../S5E04SA4-1**	1.1	3.9	7.9	23.5	28.5	81	81	81	81	81	13	5000	-
0.65	0.2	21	91	2.2	141.3	IE5	**BG20Z-../S5E04SA4-1**	1	3.5	7	21	25	91	91	91	91	91	13	5000	-
0.65	0.2	19	102	2	157	IE5	**BG20Z-../S5E04SA4-1**	0.95	3.1	6.3	19	22.5	102	102	102	102	102	13	5000	-
0.65	0.2	18	105	1.9	162.2	IE5	**BG20Z-../S5E04SA4-1**	0.9	3	6.1	18	22	105	105	105	105	105	13	5000	-
0.65	0.2	16.5	117	1.7	180.1	IE5	**BG20Z-../S5E04SA4-1**	0.8	2.7	5.5	16.5	19.5	117	117	117	117	117	13	5000	-
0.65	0.2	15	129	1.5	199.9	IE5	**BG20Z-../S5E04SA4-1**	0.75	2.5	5	15	18	129	129	129	129	129	13	5000	-
0.65	0.2	13.5	144	1.4	222.1	IE5	**BG20Z-../S5E04SA4-1**	0.65	2.2	4.5	13.5	16	144	144	144	144	144	13	5000	-
0.65	0.2	12	161	1.4	248	IE5	**BG20G06-../S5E04SA4-1**	0.6	2	4	12	14.5	161	161	161	161	161	17	5000	2100
0.65	0.2	10	193	1.1	297.9	IE5	**BG20G06-../S5E04SA4-1**	0.5	1.6	3.3	10	12	193	193	193	193	193	17	5000	2100
0.65	0.2	8.5	225	0.96	352.1	IE5	**BG20G06-../S5E04SA4-1**	0.42	1.4	2.8	8.5	10	225	225	225	225	225	17	5000	2100
0.65	0.2	7.6	250	0.87	391.1	IE5	**BG20G06-../S5E04SA4-1**	0.38	1.2	2.5	7.6	9.2	250	250	250	250	250	17	5000	2100
0.65	0.2	11.5	165	2	254.9	IE5	**BG30G06-../S5E04SA4-1**	0.55	1.9	3.9	11.5	14	165	165	165	165	165	21	6000	-
0.65	0.2	9.7	199	1.6	306.2	IE5	**BG30G06-../S5E04SA4-1**	0.48	1.6	3.2	9.7	11.5	199	199	199	199	199	21	6000	-
0.65	0.2	8.6	225	1.4	346.8	IE5	**BG30G06-../S5E04SA4-1**	0.43	1.4	2.8	8.6	10	225	225	225	225	225	21	6000	-
0.65	0.2	7.4	260	1.2	401.9	IE5	**BG30G06-../S5E04SA4-1**	0.37	1.2	2.4	7.4	8.9	260	260	260	260	260	21	6000	-
0.65	0.2	6.3	305	1.1	472.8	IE5	**BG30G06-../S5E04SA4-1**	0.31	1	2.1	6.3	7.6	305	305	305	305	305	21	6000	-
0.65	0.2	5.3	365	0.88	565.8	IE5	**BG30G06-../S5E04SA4-1**	0.26	0.85	1.7	5.3	6.3	365	365	365	365	365	21	6000	-

MN = 0.8 Nm (PN = 0.25 kW)



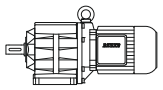
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
0.8	0.25	1190	2	2	2.51	IE5	**BG04-../S5E04SA4-1**	59	199	395	1190	1430	1.9	2	2	2	2	4.4	340	-
0.8	0.25	820	2.9	1.7	3.65	IE5	**BG04-../S5E04SA4-1**	41	136	270	820	980	2.75	2.9	2.9	2.9	2.9	4.4	390	-
0.8	0.25	680	3.5	2	4.39	IE5	**BG04-../S5E04SA4-1**	34	113	225	680	820	3.3	3.5	3.5	3.5	3.5	4.4	380	-
0.8	0.25	550	4.25	2.1	5.36	IE5	**BG04-../S5E04SA4-1**	27.5	93	186	550	670	4.05	4.25	4.25	4.25	4.25	4.4	380	-
0.8	0.25	485	4.9	2.2	6.18	IE5	**BG04-../S5E04SA4-1**	24	80	161	485	580	4.65	4.9	4.9	4.9	4.9	4.4	415	-
0.8	0.25	445	5.3	1.9	6.67	IE5	**BG04-../S5E04SA4-1**	22	74	149	445	530	5	5.3	5.3	5.3	5.3	4.4	410	-
0.8	0.25	440	5.4	2	6.8	IE5	**BG04-../S5E04SA4-1**	22	73	147	440	520	5.1	5.4	5.4	5.4	5.4	4.4	420	-
0.8	0.25	345	6.8	1.6	8.58	IE5	**BG04-../S5E04SA4-1**	17	58	116	345	415	6.5	6.8	6.8	6.8	6.8	4.4	410	-
0.8	0.25	330	7.2	1.7	9	IE5	**BG04-../S5E04SA4-1**	16.5	55	111	330	400	6.8	7.2	7.2	7.2	7.2	4.4	470	-
0.8	0.25	300	7.9	1.6	9.9	IE5	**BG04-../S5E04SA4-1**	15	50	101	300	360	7.5	7.9	7.9	7.9	7.9	4.4	480	-
0.8	0.25	275	8.6	1.6	10.82	IE5	**BG04-../S5E04SA4-1**	13.5	46	92	275	330	8.2	8.6	8.6	8.6	8.6	4.4	480	-
0.8	0.25	250	9.5	1.6	11.9	IE5	**BG04-../S5E04SA4-1**	12.5	42	84	250	300	9	9.5	9.5	9.5	9.5	4.4	490	-
0.8	0.25	235	10	1.5	12.55	IE5	**BG04-../S5E04SA4-1**	11.5	39.5	79	235	285	9.5	10	10	10	10	4.4	490	-
0.8	0.25	225	10.5	1.5	13.2	IE5	**BG04-../S5E04SA4-1**	11	37.5	75	225	270	10	10.5	10.5	10.5	10.5	4.4	500	-
0.8	0.25	205	11.6	1.5	14.52	IE5	**BG04-../S5E04SA4-1**	10	34	68	205	245	11	11.6	11.6	11.6	11.6	4.4	510	-
0.8	0.25	182	13.1	1.4	16.44	IE5	**BG04-../S5E04SA4-1**	9.1	30	60	182	215	12.4	13.1	13.1	13.1	13.1	4.4	530	-
0.8	0.25	165	14.4	1.2	18.08	IE5	**BG04-../S5E04SA4-1**	8.2	27.5	55	165	199	13.7	14.4	14.4	14.4	14.4	4.4	540	-
0.8	0.25	142	16.8	1.1	21.12	IE5	**BG04-../S5E04SA4-1**	7.1	23.5	47	142	170	16	16.8	16.8	16.8	16.8	4.4	560	-
0.8	0.25	129	18.5	1.1	23.23	IE5	**BG04-../S5E04SA4-1**	6.4	21.5	43	129	154	17.6	18.5	18.5	18.5	18.5	4.4	600	-
0.8	0.25	122	19.5	1	24.45	IE5	**BG04-../S5E04SA4-1**	6.1	20	40.5	122	147	18.5	19.5	19.5	19.5	19.5	4.4	610	-
0.8	0.25	111	21.5	0.93	26.89	IE5	**BG04-../S5E04SA4-1**	5.5	18.5	37	111	133	20	21.5	21.5	21.5	21.5	4.4	650	-
0.8	0.25	97	24.5	0.81	30.91	IE5	**BG04-../S5E04SA4-1**	4.8	16	32	97	116	23	24.5	24.5	24.5	24.5	4.4	690	-
0.8	0.25	450	5.2	3	6.6	IE5	**BG05-../S5E04SA4-1**	22.5	75	151	450	540	5	5.2	5.2	5.2	5.2	5.1	510	-
0.8	0.25	380	6.2	2.9	7.8	IE5	**BG05-../S5E04SA4-1**	19	64	128	380	460	5.9	6.2	6.2	6.2	6.2	5.1	530	-
0.8	0.25	365	6.5	2.8	8.15	IE5	**BG05-../S5E04SA4-1**	18	61	122	365	440	6.1	6.5	6.5	6.5	6.5	5.1	510	-
0.8	0.25	350	6.8	2.8	8.51	IE5	**BG05-../S5E04SA4-1**	17.5	58	117	350	420	6.4	6.8	6.8	6.8	6.8	5.1	550	-
0.8	0.25	285	8.3	2.3	10.4	IE5	**BG05-../S5E04SA4-1**	14	48	96	285	345	7.9	8.3	8.3	8.3	8.3	5.1	510	-
0.8	0.25	280	8.4	2.4	10.59	IE5	**BG05-../S5E04SA4-1**	14	47	94	280	335	8	8.4	8.4	8.4	8.4	5.1	590	-
0.8	0.25	255	9.2	2.3	11.55	IE5	**BG05-../S5E04SA4-1**	12.5	43	86	255	310	8.7	9.2	9.2	9.2	9.2	5.1	600	-
0.8	0.25	245	9.6	2.2	12.05	IE5	**BG05-../S5E04SA4-1**	12	41	82	245	295	9.1	9.6	9.6	9.6	9.6	5.1	510	-
0.8	0.25	235	10	2.2	12.6	IE5	**BG05-../S5E04SA4-1**	11.5	39.5	79	235	285	9.5	10	10	10	10	5.1	610	-
0.8	0.25	215	11	2.1	13.75	IE5	**BG05-../S5E04SA4-1**	10.5	36	72	215	260	10.4	11	11	11	11	5.1	630	-
0.8	0.25	196	12.1	2	15.23	IE5	**BG05-../S5E04SA4-1**	9.8	32.5	65	196	235	11.5	12.1	12.1	12.1	12.1	5.1	640	-
0.8	0.25	180	13.2	1.9	16.62	IE5	**BG05-../S5E04SA4-1**	9	30	60	180	215	12.6	13.2	13.2	13.2	13.2	5.1	660	-
0.8	0.25	159	15	1.7	18.82	IE5	**BG05-../S5E04SA4-1**	7.9	26.5	53	159	191	14.3	15	15	15	15	5.1	680	-
0.8	0.25	146	16.4	1.6	20.53	IE5	**BG05-../S5E04SA4-1**	7.3	24	48.5	146	175	15.6	16.4	16.4	16.4	16.4	5.1	700	-
0.8	0.25	125	19.2	1.5	24	IE5	**BG05-../S5E04SA4-1**	6.2	20.5	41.5	125	150	18.2	19.2	19.2	19.2	19.2	5.1	740	-
0.8	0.25	114	20.5	1.4	26.18	IE5	**BG05-../S5E04SA4-1**	5.7	19	38	114	137	19.8	20.5	20.5	20.5	20.5	5.1	760	-
0.8	0.25	107	22	1.3	27.82	IE5	**BG05-../S5E04SA4-1**	5.3	17.5	35.5	107	129	21	22	22	22	22	5.1	770	-
0.8	0.25	98	24	1.2	30.35	IE5	**BG05-../S5E04SA4-1**	4.9	16	32.5	98	118	23	24	24	24	24	5.1	760	-
0.8	0.25	85	28	1.1	35	IE5	**BG05-../S5E04SA4-1**	4.2	14	28.5	85	102	26.5	28	28	28	28	5.1	810	-
0.8	0.25	78	30.5	0.98	38.18	IE5	**BG05-../S5E04SA4-1**	3.9	13	26	78	94	29	30.5	30.5	30.5	30.5	5.1	850	-
0.8	0.25	75	31.5	0.94	39.94	IE5	**BG05-../S5E04SA4-1**	3.7	12.5	25	75	90	30	31.5	31.5	31.5	31.5	5.1	860	-
0.8	0.25	68	34.5	0.86	43.57	IE5	**BG05-../S5E04SA4-1**	3.4	11	22.5	68	82	33	34.5	34.5	34.5	34.5	5.1	900	-
0.8	0.25	63	37.5	0.8	47	IE5	**BG05-../S5E04SA4-1**	3.1	10.5	21	63	76	35.5	37.5	37.5	37.5	37.5	5.1	930	-
0.8	0.25	200	11.8	2.9	14.78	IE5	**BG06-../S5E04SA4-1**	10	33.5	67	200	240	11.2	11.8	11.8	11.8	11.8	6.1	730	-
0.8	0.25	185	12.9	2.7	16.13	IE5	**BG06-../S5E04SA4-1**	9.2	30.5	61	185	220	12.2	12.9	12.9	12.9	12.9	6.1	740	-
0.8	0.25	172	13.9	2.7	17.4	IE5	**BG06-../S5E04SA4-1**	8.6	28.5	57	172	205	13.2	13.9	13.9	13.9	13.9	6.1	760	-
0.8	0.25	158	15.1	2.6	18.98	IE5	**BG06-../S5E04SA4-1**	7.9	26	52	158	189	14.4	15.1	15.1	15.1	15.1	6.1	770	-

MN = 0.8 Nm (PN = 0.25 kW)



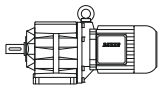
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
0.8	0.25	144	16.6	2.4	20.82	IE5	**BG06-../S5E04SA4-1**	7.2	24	48	144	172	15.8	16.6	16.6	16.6	16.6	6.1	800	-
0.8	0.25	132	18.1	2.4	22.71	IE5	**BG06-../S5E04SA4-1**	6.6	22	44	132	158	17.2	18.1	18.1	18.1	18.1	6.1	810	-
0.8	0.25	117	20	2.2	25.48	IE5	**BG06-../S5E04SA4-1**	5.8	19.5	39	117	141	19.3	20	20	20	20	6.1	850	-
0.8	0.25	107	22	2	27.8	IE5	**BG06-../S5E04SA4-1**	5.3	17.5	35.5	107	129	21	22	22	22	22	6.1	840	-
0.8	0.25	93	25.5	1.7	32.22	IE5	**BG06-../S5E04SA4-1**	4.6	15.5	31	93	111	24	25.5	25.5	25.5	25.5	6.1	890	-
0.8	0.25	85	28	1.6	35.15	IE5	**BG06-../S5E04SA4-1**	4.2	14	28	85	102	26.5	28	28	28	28	6.1	880	-
0.8	0.25	81	29.5	1.5	36.91	IE5	**BG06-../S5E04SA4-1**	4	13.5	27	81	97	28	29.5	29.5	29.5	29.5	6.1	890	-
0.8	0.25	74	32	1.4	40.26	IE5	**BG06-../S5E04SA4-1**	3.7	12	24.5	74	89	30.5	32	32	32	32	6.1	890	-
0.8	0.25	64	36.5	1.2	46.19	IE5	**BG06-../S5E04SA4-1**	3.2	10.5	21.5	64	77	35	36.5	36.5	36.5	36.5	6.1	890	-
0.8	0.25	59	40	1.1	50.38	IE5	**BG06-../S5E04SA4-1**	2.9	9.9	19.5	59	71	38	40	40	40	40	6.1	940	-
0.8	0.25	57	42	1.1	52.56	IE5	**BG06-../S5E04SA4-1**	2.8	9.5	19	57	68	39.5	42	42	42	42	6.1	950	-
0.8	0.25	52	45.5	0.98	57.34	IE5	**BG06-../S5E04SA4-1**	2.6	8.7	17	52	62	43.5	45.5	45.5	45.5	45.5	6.1	1000	-
0.8	0.25	49	48.5	0.92	61.22	IE5	**BG06-../S5E04SA4-1**	2.4	8.1	16	49	58	46.5	48.5	48.5	48.5	48.5	6.1	1020	-
0.8	0.25	44.5	53	0.84	66.79	IE5	**BG06-../S5E04SA4-1**	2.2	7.4	14.5	44.5	53	50	53	53	53	53	6.1	1070	-
0.8	0.25	44	54	1.9	67.54	IE5	**BG10Z-../S5E04SA4-1**	2.2	7.4	14.5	44	53	51	54	54	54	54	11	2000	2800
0.8	0.25	38.5	61	1.9	77.4	IE5	**BG10Z-../S5E04SA4-1**	1.9	6.4	12.5	38.5	46.5	58	61	61	61	61	11	2000	2800
0.8	0.25	34.5	68	1.7	85.76	IE5	**BG10Z-../S5E04SA4-1**	1.7	5.8	11.5	34.5	41.5	65	68	68	68	68	11	2000	2800
0.8	0.25	32.5	73	1.6	92.19	IE5	**BG10Z-../S5E04SA4-1**	1.6	5.4	10.5	32.5	39	70	73	73	73	73	11	2000	2800
0.8	0.25	29	81	1.5	102.1	IE5	**BG10Z-../S5E04SA4-1**	1.4	4.8	9.7	29	35	77	81	81	81	81	11	2000	2800
0.8	0.25	27	87	1.4	109.8	IE5	**BG10Z-../S5E04SA4-1**	1.3	4.5	9.1	27	32.5	83	87	87	87	87	11	2000	2800
0.8	0.25	24.5	97	1.2	121.7	IE5	**BG10Z-../S5E04SA4-1**	1.2	4.1	8.2	24.5	29.5	92	97	97	97	97	11	2000	2800
0.8	0.25	22.5	105	1.1	131.8	IE5	**BG10Z-../S5E04SA4-1**	1.1	3.7	7.5	22.5	27	100	105	105	105	105	11	2000	2800
0.8	0.25	20.5	116	1	146	IE5	**BG10Z-../S5E04SA4-1**	1	3.4	6.8	20.5	24.5	110	116	116	116	116	11	2000	2800
0.8	0.25	18	132	0.9	166	IE5	**BG10Z-../S5E04SA4-1**	0.9	3	6	18	21.5	126	132	132	132	132	11	2000	2800
0.8	0.25	16	147	0.82	184	IE5	**BG10Z-../S5E04SA4-1**	0.8	2.7	5.4	16	19.5	139	147	147	147	147	11	2000	2800
0.8	0.25	19.5	120	1.1	150.1	IE5	**BG10G06-../S5E04SA4-1**	0.95	3.3	6.6	19.5	23.5	114	120	120	120	120	14	2000	2800
0.8	0.25	18	133	0.98	166.3	IE5	**BG10G06-../S5E04SA4-1**	0.9	3	6	18	21.5	126	133	133	133	133	14	2000	2800
0.8	0.25	15	155	0.83	194.9	IE5	**BG10G06-../S5E04SA4-1**	0.75	2.5	5.1	15	18	148	155	155	155	155	14	2000	2800
0.8	0.25	34	69	2.9	87.3	IE5	**BG20Z-../S5E04SA4-1**	1.7	5.7	11	34	41	66	69	69	69	69	13	5000	-
0.8	0.25	31.5	75	2.7	94.27	IE5	**BG20Z-../S5E04SA4-1**	1.5	5.3	10.5	31.5	38	71	75	75	75	75	13	5000	-
0.8	0.25	28.5	83	2.4	104.7	IE5	**BG20Z-../S5E04SA4-1**	1.4	4.7	9.5	28.5	34	79	83	83	83	83	13	5000	-
0.8	0.25	26.5	90	2.2	112.8	IE5	**BG20Z-../S5E04SA4-1**	1.3	4.4	8.8	26.5	31.5	85	90	90	90	90	13	5000	-
0.8	0.25	23.5	100	2	125.3	IE5	**BG20Z-../S5E04SA4-1**	1.1	3.9	7.9	23.5	28.5	95	100	100	100	100	13	5000	-
0.8	0.25	21	113	1.8	141.3	IE5	**BG20Z-../S5E04SA4-1**	1	3.5	7	21	25	107	113	113	113	113	13	5000	-
0.8	0.25	19	125	1.6	157	IE5	**BG20Z-../S5E04SA4-1**	0.95	3.1	6.3	19	22.5	119	125	125	125	125	13	5000	-
0.8	0.25	18	129	1.5	162.2	IE5	**BG20Z-../S5E04SA4-1**	0.9	3	6.1	18	22	123	129	129	129	129	13	5000	-
0.8	0.25	16.5	144	1.4	180.1	IE5	**BG20Z-../S5E04SA4-1**	0.8	2.7	5.5	16.5	19.5	136	144	144	144	144	13	5000	-
0.8	0.25	15	159	1.3	199.9	IE5	**BG20Z-../S5E04SA4-1**	0.75	2.5	5	15	18	151	159	159	159	159	13	5000	-
0.8	0.25	13.5	177	1.1	222.1	IE5	**BG20Z-../S5E04SA4-1**	0.65	2.2	4.5	13.5	16	168	177	177	177	177	13	5000	-
0.8	0.25	12	198	1.1	248	IE5	**BG20G06-../S5E04SA4-1**	0.6	2	4	12	14.5	188	198	198	198	198	17	5000	2100
0.8	0.25	10	235	0.92	297.9	IE5	**BG20G06-../S5E04SA4-1**	0.5	1.6	3.3	10	12	225	235	235	235	235	17	5000	2100
0.8	0.25	11.5	200	1.6	254.9	IE5	**BG30G06-../S5E04SA4-1**	0.55	1.9	3.9	11.5	14	193	200	200	200	200	21	6000	-
0.8	0.25	9.7	240	1.3	306.2	IE5	**BG30G06-../S5E04SA4-1**	0.48	1.6	3.2	9.7	11.5	230	240	240	240	240	21	6000	-
0.8	0.25	8.6	275	1.2	346.8	IE5	**BG30G06-../S5E04SA4-1**	0.43	1.4	2.8	8.6	10	260	275	275	275	275	21	6000	-
0.8	0.25	7.4	320	1	401.9	IE5	**BG30G06-../S5E04SA4-1**	0.37	1.2	2.4	7.4	8.9	305	320	320	320	320	21	6000	-
0.8	0.25	6.3	375	0.86	472.8	IE5	**BG30G06-../S5E04SA4-1**	0.31	1	2.1	6.3	7.6	355	375	375	375	375	21	6000	-

MN = 1 Nm (PN = 0.315 kW)



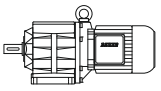
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
1	0.315	1190	2.5	1.6	2.51	IE4	**BG04-../S4E04SA4-1**	59	199	395	1190	1430	1.9	2.1	2.5	2.5	2.5	4.4	340	-
1	0.315	820	3.65	1.4	3.65	IE4	**BG04-../S4E04SA4-1**	41	136	270	820	980	2.75	3.1	3.65	3.65	3.65	4.4	390	-
1	0.315	680	4.35	1.6	4.39	IE4	**BG04-../S4E04SA4-1**	34	113	225	680	820	3.3	3.7	4.35	4.35	4.35	4.4	380	-
1	0.315	550	5.3	1.7	5.36	IE4	**BG04-../S4E04SA4-1**	27.5	93	186	550	670	4.05	4.55	5.3	5.3	5.3	4.4	380	-
1	0.315	485	6.1	1.8	6.18	IE4	**BG04-../S4E04SA4-1**	24	80	161	485	580	4.65	5.2	6.1	6.1	6.1	4.4	415	-
1	0.315	445	6.6	1.5	6.67	IE4	**BG04-../S4E04SA4-1**	22	74	149	445	530	5	5.6	6.6	6.6	6.6	4.4	410	-
1	0.315	440	6.8	1.6	6.8	IE4	**BG04-../S4E04SA4-1**	22	73	147	440	520	5.1	5.7	6.8	6.8	6.8	4.4	420	-
1	0.315	345	8.5	1.3	8.58	IE4	**BG04-../S4E04SA4-1**	17	58	116	345	415	6.5	7.2	8.5	8.5	8.5	4.4	410	-
1	0.315	330	9	1.3	9	IE4	**BG04-../S4E04SA4-1**	16.5	55	111	330	400	6.8	7.6	9	9	9	4.4	470	-
1	0.315	300	9.9	1.3	9.9	IE4	**BG04-../S4E04SA4-1**	15	50	101	300	360	7.5	8.4	9.9	9.9	9.9	4.4	480	-
1	0.315	275	10.8	1.3	10.82	IE4	**BG04-../S4E04SA4-1**	13.5	46	92	275	330	8.2	9.1	10.8	10.8	10.8	4.4	480	-
1	0.315	250	11.9	1.3	11.9	IE4	**BG04-../S4E04SA4-1**	12.5	42	84	250	300	9	10.1	11.9	11.9	11.9	4.4	490	-
1	0.315	235	12.5	1.2	12.55	IE4	**BG04-../S4E04SA4-1**	11.5	39.5	79	235	285	9.5	10.6	12.5	12.5	12.5	4.4	490	-
1	0.315	225	13.1	1.2	13.2	IE4	**BG04-../S4E04SA4-1**	11	37.5	75	225	270	10	11.2	13.1	13.1	13.1	4.4	500	-
1	0.315	205	14.5	1.2	14.52	IE4	**BG04-../S4E04SA4-1**	10	34	68	205	245	11	12.3	14.5	14.5	14.5	4.4	510	-
1	0.315	182	16.4	1.1	16.44	IE4	**BG04-../S4E04SA4-1**	9.1	30	60	182	215	12.4	13.9	16.4	16.4	16.4	4.4	530	-
1	0.315	165	18	1	18.08	IE4	**BG04-../S4E04SA4-1**	8.2	27.5	55	165	199	13.7	15.3	18	18	18	4.4	540	-
1	0.315	142	21	0.9	21.12	IE4	**BG04-../S4E04SA4-1**	7.1	23.5	47	142	170	16	17.9	21	21	21	4.4	560	-
1	0.315	129	23	0.86	23.23	IE4	**BG04-../S4E04SA4-1**	6.4	21.5	43	129	154	17.6	19.7	23	23	23	4.4	600	-
1	0.315	122	24	0.82	24.45	IE4	**BG04-../S4E04SA4-1**	6.1	20	40.5	122	147	18.5	20.5	24	24	24	4.4	610	-
1	0.315	880	3.35	3	3.38	IE4	**BG05-../S4E04SA4-1**	44	147	295	880	1060	2.55	2.85	3.35	3.35	3.35	5.1	460	-
1	0.315	650	4.55	2.6	4.59	IE4	**BG05-../S4E04SA4-1**	32.5	108	215	650	780	3.45	3.9	4.55	4.55	4.55	5.1	490	-

MN = 1 Nm (PN = 0.315 kW)



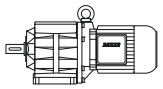
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	**Type**	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
1	0.315	540	5.4	2.6	5.46	IE4	**BG05-../S4E04SA4-1**	27	91	183	540	650	4.1	4.6	5.4	5.4	5.4	5.1	490	-
1	0.315	490	6	2.8	6.09	IE4	**BG05-../S4E04SA4-1**	24.5	82	164	490	590	4.6	5.1	6	6	6	5.1	480	-
1	0.315	450	6.5	2.4	6.6	IE4	**BG05-../S4E04SA4-1**	22.5	75	151	450	540	5	5.6	6.5	6.5	6.5	5.1	510	-
1	0.315	450	6.6	2.6	6.64	IE4	**BG05-../S4E04SA4-1**	22.5	75	150	450	540	5	5.6	6.6	6.6	6.6	5.1	500	-
1	0.315	380	7.8	2.3	7.8	IE4	**BG05-../S4E04SA4-1**	19	64	128	380	460	5.9	6.6	7.8	7.8	7.8	5.1	530	-
1	0.315	365	8.1	2.2	8.15	IE4	**BG05-../S4E04SA4-1**	18	61	122	365	440	6.1	6.9	8.1	8.1	8.1	5.1	510	-
1	0.315	350	8.5	2.2	8.51	IE4	**BG05-../S4E04SA4-1**	17.5	58	117	350	420	6.4	7.2	8.5	8.5	8.5	5.1	550	-
1	0.315	285	10.4	1.8	10.4	IE4	**BG05-../S4E04SA4-1**	14	48	96	285	345	7.9	8.8	10.4	10.4	10.4	5.1	510	-
1	0.315	280	10.5	1.9	10.59	IE4	**BG05-../S4E04SA4-1**	14	47	94	280	335	8	9	10.5	10.5	10.5	5.1	590	-
1	0.315	255	11.5	1.8	11.55	IE4	**BG05-../S4E04SA4-1**	12.5	43	86	255	310	8.7	9.8	11.5	11.5	11.5	5.1	600	-
1	0.315	245	12	1.7	12.05	IE4	**BG05-../S4E04SA4-1**	12	41	82	245	295	9.1	10.2	12	12	12	5.1	510	-
1	0.315	235	12.5	1.7	12.6	IE4	**BG05-../S4E04SA4-1**	11.5	39.5	79	235	285	9.5	10.7	12.5	12.5	12.5	5.1	610	-
1	0.315	215	13.7	1.7	13.75	IE4	**BG05-../S4E04SA4-1**	10.5	36	72	215	260	10.4	11.6	13.7	13.7	13.7	5.1	630	-
1	0.315	196	15.2	1.6	15.23	IE4	**BG05-../S4E04SA4-1**	9.8	32.5	65	196	235	11.5	12.9	15.2	15.2	15.2	5.1	640	-
1	0.315	180	16.6	1.5	16.62	IE4	**BG05-../S4E04SA4-1**	9	30	60	180	215	12.6	14.1	16.6	16.6	16.6	5.1	660	-
1	0.315	159	18.8	1.4	18.82	IE4	**BG05-../S4E04SA4-1**	7.9	26.5	53	159	191	14.3	15.9	18.8	18.8	18.8	5.1	680	-
1	0.315	146	20.5	1.3	20.53	IE4	**BG05-../S4E04SA4-1**	7.3	24	48.5	146	175	15.6	17.4	20.5	20.5	20.5	5.1	700	-
1	0.315	125	24	1.2	24	IE4	**BG05-../S4E04SA4-1**	6.2	20.5	41.5	125	150	18.2	20	24	24	24	5.1	740	-
1	0.315	114	26	1.1	26.18	IE4	**BG05-../S4E04SA4-1**	5.7	19	38	114	137	19.8	22	26	26	26	5.1	760	-
1	0.315	107	27.5	1.1	27.82	IE4	**BG05-../S4E04SA4-1**	5.3	17.5	35.5	107	129	21	23.5	27.5	27.5	27.5	5.1	770	-
1	0.315	98	30	0.99	30.35	IE4	**BG05-../S4E04SA4-1**	4.9	16	32.5	98	118	23	25.5	30	30	30	5.1	760	-
1	0.315	85	35	0.86	35	IE4	**BG05-../S4E04SA4-1**	4.2	14	28.5	85	102	26.5	29.5	35	35	35	5.1	810	-
1	0.315	290	10.2	3	10.24	IE4	**BG06-../S4E04SA4-1**	14.5	48.5	97	290	350	7.7	8.7	10.2	10.2	10.2	6.1	640	-
1	0.315	265	11.2	2.8	11.28	IE4	**BG06-../S4E04SA4-1**	13	44	88	265	315	8.5	9.5	11.2	11.2	11.2	6.1	670	-
1	0.315	240	12.3	2.7	12.3	IE4	**BG06-../S4E04SA4-1**	12	40.5	81	240	290	9.3	10.4	12.3	12.3	12.3	6.1	670	-
1	0.315	230	12.9	2.5	12.98	IE4	**BG06-../S4E04SA4-1**	11.5	38.5	77	230	275	9.8	11	12.9	12.9	12.9	6.1	600	-
1	0.315	200	14.7	2.3	14.78	IE4	**BG06-../S4E04SA4-1**	10	33.5	67	200	240	11.2	12.5	14.7	14.7	14.7	6.1	730	-
1	0.315	185	16.1	2.2	16.13	IE4	**BG06-../S4E04SA4-1**	9.2	30.5	61	185	220	12.2	13.7	16.1	16.1	16.1	6.1	740	-
1	0.315	172	17.3	2.2	17.4	IE4	**BG06-../S4E04SA4-1**	8.6	28.5	57	172	205	13.2	14.7	17.3	17.3	17.3	6.1	760	-
1	0.315	158	18.9	2.1	18.98	IE4	**BG06-../S4E04SA4-1**	7.9	26	52	158	189	14.4	16.1	18.9	18.9	18.9	6.1	770	-
1	0.315	144	20.5	1.9	20.82	IE4	**BG06-../S4E04SA4-1**	7.2	24	48	144	172	15.8	17.6	20.5	20.5	20.5	6.1	800	-
1	0.315	132	22.5	1.9	22.71	IE4	**BG06-../S4E04SA4-1**	6.6	22	44	132	158	17.2	19.3	22.5	22.5	22.5	6.1	810	-
1	0.315	117	25	1.8	25.48	IE4	**BG06-../S4E04SA4-1**	5.8	19.5	39	117	141	19.3	21.5	25	25	25	6.1	850	-
1	0.315	107	27.5	1.6	27.8	IE4	**BG06-../S4E04SA4-1**	5.3	17.5	35.5	107	129	21	23.5	27.5	27.5	27.5	6.1	840	-
1	0.315	93	32	1.4	32.22	IE4	**BG06-../S4E04SA4-1**	4.6	15.5	31	93	111	24	27	32	32	32	6.1	890	-
1	0.315	85	35	1.3	35.15	IE4	**BG06-../S4E04SA4-1**	4.2	14	28	85	102	26.5	29.5	35	35	35	6.1	880	-
1	0.315	81	36.5	1.2	36.91	IE4	**BG06-../S4E04SA4-1**	4	13.5	27	81	97	28	31	36.5	36.5	36.5	6.1	890	-
1	0.315	74	40	1.1	40.26	IE4	**BG06-../S4E04SA4-1**	3.7	12	24.5	74	89	30.5	34	40	40	40	6.1	890	-
1	0.315	64	46	0.97	46.19	IE4	**BG06-../S4E04SA4-1**	3.2	10.5	21.5	64	77	35	39	46	46	46	6.1	890	-
1	0.315	59	50	0.89	50.38	IE4	**BG06-../S4E04SA4-1**	2.9	9.9	19.5	59	71	38	42.5	50	50	50	6.1	940	-
1	0.315	57	52	0.86	52.56	IE4	**BG06-../S4E04SA4-1**	2.8	9.5	19	57	68	39.5	44.5	52	52	52	6.1	950	-
1	0.315	44	67	1.5	67.54	IE4	**BG10Z-../S4E04SA4-1**	2.2	7.4	14.5	44	53	51	57	67	67	67	11	2000	2800
1	0.315	38.5	77	1.6	77.4	IE4	**BG10Z-../S4E04SA4-1**	1.9	6.4	12.5	38.5	46.5	58	65	77	77	77	11	2000	2800
1	0.315	34.5	85	1.4	85.76	IE4	**BG10Z-../S4E04SA4-1**	1.7	5.8	11.5	34.5	41.5	65	72	85	85	85	11	2000	2800
1	0.315	32.5	92	1.3	92.19	IE4	**BG10Z-../S4E04SA4-1**	1.6	5.4	10.5	32.5	39	70	78	92	92	92	11	2000	2800
1	0.315	29	102	1.2	102.1	IE4	**BG10Z-../S4E04SA4-1**	1.4	4.8	9.7	29	35	77	86	102	102	102	11	2000	2800
1	0.315	27	109	1.1	109.8	IE4	**BG10Z-../S4E04SA4-1**	1.3	4.5	9.1	27	32.5	83	93	109	109	109	11	2000	2800
1	0.315	24.5	121	0.99	121.7	IE4	**BG10Z-../S4E04SA4-1**	1.2	4.1	8.2	24.5	29.5	92	103	121	121	121	11	2000	2800
1	0.315	22.5	131	0.91	131.8	IE4	**BG10Z-../S4E04SA4-1**	1.1	3.7	7.5	22.5	27	100	112	131	131	131	11	2000	2800
1	0.315	20.5	146	0.82	146	IE4	**BG10Z-../S4E04SA4-1**	1	3.4	6.8	20.5	24.5	110	124	146	146	146	11	2000	2800
1	0.315	19.5	150	0.87	150.1	IE4	**BG10G06-../S4E04SA4-1**	0.95	3.3	6.6	19.5	23.5	114	127	150	150	150	14	2000	2800
1	0.315	51	58	2.9	58.58	IE4	**BG20Z-../S4E04SA4-1**	2.5	8.5	17	51	61	44.5	49.5	58	58	58	13	5000	-
1	0.315	44	67	3	67.53	IE4	**BG20Z-../S4E04SA4-1**	2.2	7.4	14.5	44	53	51	57	67	67	67	13	5000	-
1	0.315	40	75	2.7	75	IE4	**BG20Z-../S4E04SA4-1**	2	6.6	13	40	48	57	63	75	75	75	13	5000	-
1	0.315	38	78	2.5	78.6	IE4	**BG20Z-../S4E04SA4-1**	1.9	6.3	12.5	38	45.5	59	66	78	78	78	13	5000	-
1	0.315	34	87	2.3	87.3	IE4	**BG20Z-../S4E04SA4-1**	1.7	5.7	11	34	41	66	74	87	87	87	13	5000	-
1	0.315	31.5	94	2.1	94.27	IE4	**BG20Z-../S4E04SA4-1**	1.5	5.3	10.5	31.5	38	71	80	94	94	94	13	5000	-
1	0.315	28.5	104	1.9	104.7	IE4	**BG20Z-../S4E04SA4-1**	1.4	4.7	9.5	28.5	34	79	88	104	104	104	13	5000	-
1	0.315	26.5	112	1.8	112.8	IE4	**BG20Z-../S4E04SA4-1**	1.3	4.4	8.8	26.5	31.5	85	95	112	112	112	13	5000	-
1	0.315	23.5	125	1.6	125.3	IE4	**BG20Z-../S4E04SA4-1**	1.1	3.9	7.9	23.5	28.5	95	106	125	125	125	13	5000	-
1	0.315	21	141	1.4	141.3	IE4	**BG20Z-../S4E04SA4-1**	1	3.5	7	21	25	107	120	141	141	141	13	5000	-
1	0.315	19	157	1.3	157	IE4	**BG20Z-../S4E04SA4-1**	0.95	3.1	6.3	19	22.5	119	133	157	157	157	13	5000	-
1	0.315	18	162	1.2	162.2	IE4	**BG20Z-../S4E04SA4-1**	0.9	3	6.1	18	22	123	137	162	162	162	13	5000	-
1	0.315	16.5	180	1.1	180.1	IE4	**BG20Z-../S4E04SA4-1**	0.8	2.7	5.5	16.5	19.5	136	153	180	180	180	13	5000	-
1	0.315	15	199	1	199.9	IE4	**BG20Z-../S4E04SA4-1**	0.75	2.5	5	15	18	151	169	199	199	199	13	5000	-
1	0.315	13.5	220	0.9	222.1	IE4	**BG20Z-../S4E04SA4-1**	0.65	2.2	4.5	13.5	16	168	188	220	220	220	13	5000	-
1	0.315	12	245	0.89	248	IE4	**BG20G06-../S4E04SA4-1**	0.6	2	4	12	14.5	188	210	245	245	245	17	5000	2100
1	0.315	11.5	250	1.3	254.9	IE4	**BG30G06-../S4E04SA4-1**	0.55	1.9	3.9	11.5	14	193	215	250	250	250	21	6000	-
1	0.315	9.7	305	1.1	306.2	IE4	**BG30G06-../S4E04SA4-1**	0.48	1.6	3.2	9.7	11.5	230	260	305	305	305	21	6000	-
1	0.315	8.6	345	0.94	346.8	IE4	**BG30G06-../S4E04SA4-1**	0.43	1.4	2.8	8.6	10	260	290	345	345	345	21	6000	-
1	0.315	7.4	400	0.81	401.9	IE4	**BG30G06-../S4E04SA4-1**	0.37	1.2	2.4	7.4	8.9	305	340	400	400	400	21	6000	-

MN = 1.3 Nm (PN = 0.4 kW)



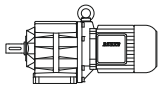
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
1.3	0.4	1130	3.4	2.6	2.64	IE5	**BG05-../S5E06MA4**	56	189	375	1130	1360	3.4	3.4	3.4	3.4	3.4	8.5	420	-
1.3	0.4	880	4.35	2.3	3.38	IE5	**BG05-../S5E06MA4**	44	147	295	880	1060	4.35	4.35	4.35	4.35	4.35	8.5	460	-
1.3	0.4	650	5.9	2	4.59	IE5	**BG05-../S5E06MA4**	32.5	108	215	650	780	5.9	5.9	5.9	5.9	5.9	8.5	490	-
1.3	0.4	540	7	2	5.46	IE5	**BG05-../S5E06MA4**	27	91	183	540	650	7	7	7	7	7	8.5	490	-
1.3	0.4	490	7.9	2.1	6.09	IE5	**BG05-../S5E06MA4**	24.5	82	164	490	590	7.9	7.9	7.9	7.9	7.9	8.5	480	-
1.3	0.4	450	8.5	1.9	6.6	IE5	**BG05-../S5E06MA4**	22.5	75	151	450	540	8.5	8.5	8.5	8.5	8.5	8.5	510	-
1.3	0.4	450	8.6	2	6.64	IE5	**BG05-../S5E06MA4**	22.5	75	150	450	540	8.6	8.6	8.6	8.6	8.6	8.5	500	-
1.3	0.4	380	10.1	1.8	7.8	IE5	**BG05-../S5E06MA4**	19	64	128	380	460	10.1	10.1	10.1	10.1	10.1	8.5	530	-
1.3	0.4	365	10.5	1.7	8.15	IE5	**BG05-../S5E06MA4**	18	61	122	365	440	10.5	10.5	10.5	10.5	10.5	8.5	510	-
1.3	0.4	350	11	1.7	8.51	IE5	**BG05-../S5E06MA4**	17.5	58	117	350	420	11	11	11	11	11	8.5	550	-
1.3	0.4	285	13.5	1.4	10.4	IE5	**BG05-../S5E06MA4**	14	48	96	285	345	13.5	13.5	13.5	13.5	13.5	8.5	510	-
1.3	0.4	280	13.7	1.5	10.59	IE5	**BG05-../S5E06MA4**	14	47	94	280	335	13.7	13.7	13.7	13.7	13.7	8.5	590	-
1.3	0.4	255	15	1.4	11.55	IE5	**BG05-../S5E06MA4**	12.5	43	86	255	310	15	15	15	15	15	8.5	600	-
1.3	0.4	245	15.6	1.3	12.05	IE5	**BG05-../S5E06MA4**	12	41	82	245	295	15.6	15.6	15.6	15.6	15.6	8.5	510	-
1.3	0.4	235	16.3	1.3	12.6	IE5	**BG05-../S5E06MA4**	11.5	39.5	79	235	285	16.3	16.3	16.3	16.3	16.3	8.5	610	-
1.3	0.4	215	17.8	1.3	13.75	IE5	**BG05-../S5E06MA4**	10.5	36	72	215	260	17.8	17.8	17.8	17.8	17.8	8.5	630	-
1.3	0.4	196	19.7	1.2	15.23	IE5	**BG05-../S5E06MA4**	9.8	32.5	65	196	235	19.7	19.7	19.7	19.7	19.7	8.5	640	-
1.3	0.4	180	21.5	1.2	16.62	IE5	**BG05-../S5E06MA4**	9	30	60	180	215	21.5	21.5	21.5	21.5	21.5	8.5	660	-
1.3	0.4	159	24	1.1	18.82	IE5	**BG05-../S5E06MA4**	7.9	26.5	53	159	191	24	24	24	24	24	8.5	680	-
1.3	0.4	146	26.5	1	20.53	IE5	**BG05-../S5E06MA4**	7.3	24	48.5	146	175	26.5	26.5	26.5	26.5	26.5	8.5	700	-
1.3	0.4	125	31	0.9	24	IE5	**BG05-../S5E06MA4**	6.2	20.5	41.5	125	150	31	31	31	31	31	8.5	740	-
1.3	0.4	114	34	0.85	26.18	IE5	**BG05-../S5E06MA4**	5.7	19	38	114	137	34	34	34	34	34	8.5	760	-
1.3	0.4	107	36	0.83	27.82	IE5	**BG05-../S5E06MA4**	5.3	17.5	35.5	107	129	36	36	36	36	36	8.5	770	-
1.3	0.4	425	9.1	2.9	7.01	IE5	**BG06-../S5E06MA4**	21	71	142	425	510	9.1	9.1	9.1	9.1	9.1	9.5	580	-
1.3	0.4	355	10.9	2.6	8.39	IE5	**BG06-../S5E06MA4**	17.5	59	119	355	425	10.9	10.9	10.9	10.9	10.9	9.5	600	-
1.3	0.4	315	12.1	2.5	9.38	IE5	**BG06-../S5E06MA4**	15.5	53	106	315	380	12.1	12.1	12.1	12.1	12.1	9.5	640	-
1.3	0.4	290	13.3	2.3	10.24	IE5	**BG06-../S5E06MA4**	14.5	48.5	97	290	350	13.3	13.3	13.3	13.3	13.3	9.5	640	-
1.3	0.4	265	14.6	2.2	11.28	IE5	**BG06-../S5E06MA4**	13	44	88	265	315	14.6	14.6	14.6	14.6	14.6	9.5	670	-
1.3	0.4	240	15.9	2.1	12.3	IE5	**BG06-../S5E06MA4**	12	40.5	81	240	290	15.9	15.9	15.9	15.9	15.9	9.5	670	-
1.3	0.4	230	16.8	2	12.98	IE5	**BG06-../S5E06MA4**	11.5	38.5	77	230	275	16.8	16.8	16.8	16.8	16.8	9.5	600	-
1.3	0.4	200	19.2	1.8	14.78	IE5	**BG06-../S5E06MA4**	10	33.5	67	200	240	19.2	19.2	19.2	19.2	19.2	9.5	730	-
1.3	0.4	185	20.5	1.7	16.13	IE5	**BG06-../S5E06MA4**	9.2	30.5	61	185	220	20.5	20.5	20.5	20.5	20.5	9.5	740	-
1.3	0.4	172	22.5	1.7	17.4	IE5	**BG06-../S5E06MA4**	8.6	28.5	57	172	205	22.5	22.5	22.5	22.5	22.5	9.5	760	-
1.3	0.4	158	24.5	1.6	18.98	IE5	**BG06-../S5E06MA4**	7.9	26	52	158	189	24.5	24.5	24.5	24.5	24.5	9.5	770	-
1.3	0.4	144	27	1.5	20.82	IE5	**BG06-../S5E06MA4**	7.2	24	48	144	172	27	27	27	27	27	9.5	800	-
1.3	0.4	132	29.5	1.5	22.71	IE5	**BG06-../S5E06MA4**	6.6	22	44	132	158	29.5	29.5	29.5	29.5	29.5	9.5	810	-
1.3	0.4	117	33	1.4	25.48	IE5	**BG06-../S5E06MA4**	5.8	19.5	39	117	141	33	33	33	33	33	9.5	850	-
1.3	0.4	107	36	1.2	27.8	IE5	**BG06-../S5E06MA4**	5.3	17.5	35.5	107	129	36	36	36	36	36	9.5	840	-
1.3	0.4	93	41.5	1.1	32.22	IE5	**BG06-../S5E06MA4**	4.6	15.5	31	93	111	41.5	41.5	41.5	41.5	41.5	9.5	890	-
1.3	0.4	85	45.5	0.98	35.15	IE5	**BG06-../S5E06MA4**	4.2	14	28	85	102	45.5	45.5	45.5	45.5	45.5	9.5	880	-
1.3	0.4	81	47.5	0.94	36.91	IE5	**BG06-../S5E06MA4**	4	13.5	27	81	97	47.5	47.5	47.5	47.5	47.5	9.5	890	-
1.3	0.4	74	52	0.86	40.26	IE5	**BG06-../S5E06MA4**	3.7	12	24.5	74	89	52	52	52	52	52	9.5	890	-
1.3	0.4	95	40.5	2.9	31.52	IE5	**BG10-../S5E06MA4**	4.7	15.5	31.5	95	114	40.5	40.5	40.5	40.5	40.5	13	1600	2200
1.3	0.4	85	45	2.6	34.92	IE5	**BG10-../S5E06MA4**	4.2	14	28.5	85	103	45	45	45	45	45	13	1690	2350
1.3	0.4	75	51	2.3	39.7	IE5	**BG10-../S5E06MA4**	3.7	12.5	25	75	90	51	51	51	51	51	13	1780	2450
1.3	0.4	68	57	2.1	43.99	IE5	**BG10-../S5E06MA4**	3.4	11	22.5	68	81	57	57	57	57	57	13	1880	2600
1.3	0.4	64	60	2	46.55	IE5	**BG10-../S5E06MA4**	3.2	10.5	21	64	77	60	60	60	60	60	13	1920	2650
1.3	0.4	58	67	1.8	51.57	IE5	**BG10-../S5E06MA4**	2.9	9.6	19	58	69	67	67	67	67	67	13	2000	2800
1.3	0.4	52	74	1.6	57.48	IE5	**BG10-../S5E06MA4**	2.6	8.6	17	52	62	74	74	74	74	74	13	2000	2800
1.3	0.4	47	82	1.4	63.69	IE5	**BG10-../S5E06MA4**	2.3	7.8	15.5	47	56	82	82	82	82	82	13	2000	2800
1.3	0.4	45	85	1.4	66	IE5	**BG10-../S5E06MA4**	2.2	7.5	15	45	54	85	85	85	85	85	13	2000	2800
1.3	0.4	41	95	1.3	73.13	IE5	**BG10-../S5E06MA4**	2	6.8	13.5	41	49	95	95	95	95	95	13	2000	2800
1.3	0.4	44	87	1.2	67.54	IE5	**BG10Z-../S5E06MA4**	2.2	7.4	14.5	44	53	87	87	87	87	87	14	2000	2800
1.3	0.4	38.5	100	1.2	77.4	IE5	**BG10Z-../S5E06MA4**	1.9	6.4	12.5	38.5	46.5	100	100	100	100	100	14	2000	2800
1.3	0.4	34.5	111	1.1	85.76	IE5	**BG10Z-../S5E06MA4**	1.7	5.8	11.5	34.5	41.5	111	111	111	111	111	14	2000	2800
1.3	0.4	32.5	119	1	92.19	IE5	**BG10Z-../S5E06MA4**	1.6	5.4	10.5	32.5	39	119	119	119	119	119	14	2000	2800
1.3	0.4	29	132	0.9	102.1	IE5	**BG10Z-../S5E06MA4**	1.4	4.8	9.7	29	35	132	132	132	132	132	14	2000	2800
1.3	0.4	27	142	0.84	109.8	IE5	**BG10Z-../S5E06MA4**	1.3	4.5	9.1	27	32.5	142	142	142	142	142	14	2000	2800
1.3	0.4	79	49	3	37.9	IE5	**BG15-../S5E06MA4**	3.9	13	26	79	94	49	49	49	49	49	13	3000	6000
1.3	0.4	56	69	2.9	53.22	IE5	**BG20-../S5E06MA4**	2.8	9.3	18.5	56	67	69	69	69	69	69	16	4950	-
1.3	0.4	50	76	2.6	59.07	IE5	**BG20-../S5E06MA4**	2.5	8.4	16.5	50	60	76	76	76	76	76	16	5000	-
1.3	0.4	45.5	85	2.3	65.62	IE5	**BG20-../S5E06MA4**	2.2	7.6	15	45.5	54	85	85	85	85	85	16	5000	-
1.3	0.4	51	76	2.3	58.58	IE5	**BG20Z-../S5E06MA4**	2.5	8.5	17	51	61	76	76	76	76	76	16	5000	-
1.3	0.4	44	87	2.3	67.53	IE5	**BG20Z-../S5E06MA4**	2.2	7.4	14.5	44	53	87	87	87	87	87	16	5000	-
1.3	0.4	40	97	2.1	75	IE5	**BG20Z-../S5E06MA4**	2	6.6	13	40	48	97	97	97	97	97	16	5000	-
1.3	0.4	38	102	2	78.6	IE5	**BG20Z-../S5E06MA4**	1.9	6.3	12.5	38	45.5	102	102	102	102	102	16	5000	-
1.3	0.4	34	113	1.8	87.3	IE5	**BG20Z-../S5E06MA4**	1.7	5.7	11	34	41	113	113	113	113	113	16	5000	-
1.3	0.4	31.5	122	1.6	94.27	IE5	**BG20Z-../S5E06MA4**	1.5	5.3	10.5	31.5	38	122	122	122	122	122	16	5000	-
1.3	0.4	28.5	136	1.5	104.7	IE5	**BG20Z-../S5E06MA4**	1.4	4.7	9.5	28.5	34	136	136	136	136	136	16	5000	-
1.3	0.4	26.5	146	1.4	112.8	IE5	**BG20Z-../S5E06MA4**	1.3	4.4	8.8	26.5	31.5	146	146	146	146	146	16	5000	-
1.3	0.4	23.5	162	1.2	125.3	IE5	**BG20Z-../S5E06MA4**	1.1	3.9	7.9	23.5	28.5	162	162	162	162	162	16	5000	-
1.3	0.4	21	183	1.1	141.3	IE5	**BG20Z-../S5E06MA4**	1	3.5	7	21	25	183	183	183	183	183	16	5000	-
1.3	0.4	19	200	0.98	157	IE5	**BG20Z-../S5E06MA4**	0.95	3.1	6.3	19	22.5	200	200	200	200	200	16	5000	-
1.3	0.4	18	210	0.95	162.2	IE5	**BG20Z-../S5E06MA4**	0.9	3	6.1	18	22	210	210	210	210	210	16	5000	-
1.3	0.4	16.5	230	0.85	180.1	IE5	**BG20Z-../S5E06MA4**	0.8	2.7	5.5	16.5	19.5	230	230	230	230	230	16	5000	-
1.3	0.4	36.5	106	2.8	81.55	IE5	**BG30Z-../S5E06MA4**	1.8	6.1	12	36.5	44	106	106	106	106	106	22	6000	-
1.3	0.4	34.5	111	2.7	86.13	IE5	**BG30Z-../S5E06MA4**	1.7	5.8	11.5	34.5	41.5	111	111	111	111	111	22	6000	-

MN = 1.3 Nm (PN = 0.4 kW)



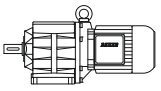
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
1.3	0.4	31	124	2.4	95.55	IE5	**BG30Z-../S5E06MA4**	1.5	5.2	10	31	37.5	124	124	124	124	124	22	6000	-
1.3	0.4	27	142	2.1	109.6	IE5	**BG30Z-../S5E06MA4**	1.3	4.5	9.1	27	32.5	142	142	142	142	142	22	6000	-
1.3	0.4	24.5	158	1.9	121.6	IE5	**BG30Z-../S5E06MA4**	1.2	4.1	8.2	24.5	29.5	158	158	158	158	158	22	6000	-
1.3	0.4	23	167	1.8	128.5	IE5	**BG30Z-../S5E06MA4**	1.1	3.8	7.7	23	28	167	167	167	167	167	22	6000	-
1.3	0.4	21	185	1.6	142.5	IE5	**BG30Z-../S5E06MA4**	1	3.5	7	21	25	185	185	185	185	185	22	6000	-
1.3	0.4	19.5	196	1.5	151.5	IE5	**BG30Z-../S5E06MA4**	0.95	3.3	6.6	19.5	23.5	196	196	196	196	196	22	6000	-
1.3	0.4	17.5	215	1.4	168.1	IE5	**BG30Z-../S5E06MA4**	0.85	2.9	5.9	17.5	21	215	215	215	215	215	22	6000	-
1.3	0.4	16	235	1.3	182.9	IE5	**BG30Z-../S5E06MA4**	0.8	2.7	5.4	16	19.5	235	235	235	235	235	22	6000	-
1.3	0.4	14.5	260	1.1	202.9	IE5	**BG30Z-../S5E06MA4**	0.7	2.4	4.9	14.5	17.5	260	260	260	260	260	22	6000	-
1.3	0.4	13	290	1	225.9	IE5	**BG30Z-../S5E06MA4**	0.65	2.2	4.4	13	15.5	290	290	290	290	290	22	6000	-
1.3	0.4	11.5	325	0.92	250.6	IE5	**BG30Z-../S5E06MA4**	0.55	1.9	3.9	11.5	14	325	325	325	325	325	22	6000	-
1.3	0.4	11	340	0.88	261.9	IE5	**BG30Z-../S5E06MA4**	0.55	1.9	3.8	11	13.5	340	340	340	340	340	22	6000	-
1.3	0.4	11.5	330	0.98	254.9	IE5	**BG30G06-../S5E06MA4**	0.55	1.9	3.9	11.5	14	330	330	330	330	330	25	6000	-
1.3	0.4	9.7	395	0.82	306.2	IE5	**BG30G06-../S5E06MA4**	0.48	1.6	3.2	9.7	11.5	395	395	395	395	395	25	6000	-
1.3	0.4	27.5	139	3	107.5	IE5	**BG40Z-../S5E06MA4**	1.3	4.6	9.3	27.5	33	139	139	139	139	139	38	7000	-
1.3	0.4	24.5	157	2.7	121.3	IE5	**BG40Z-../S5E06MA4**	1.2	4.1	8.2	24.5	29.5	157	157	157	157	157	38	7000	-
1.3	0.4	22	174	2.4	134.6	IE5	**BG40Z-../S5E06MA4**	1.1	3.7	7.4	22	26.5	174	174	174	174	174	38	7000	-
1.3	0.4	21	183	2.3	141.4	IE5	**BG40Z-../S5E06MA4**	1	3.5	7	21	25	183	183	183	183	183	38	7000	-
1.3	0.4	19	200	2.1	156.9	IE5	**BG40Z-../S5E06MA4**	0.95	3.1	6.3	19	22.5	200	200	200	200	200	38	7000	-
1.3	0.4	18	215	2	166.1	IE5	**BG40Z-../S5E06MA4**	0.9	3	6	18	21.5	215	215	215	215	215	38	7000	-
1.3	0.4	16	235	1.8	184.4	IE5	**BG40Z-../S5E06MA4**	0.8	2.7	5.4	16	19.5	235	235	235	235	235	38	7000	-
1.3	0.4	15	255	1.6	199.9	IE5	**BG40Z-../S5E06MA4**	0.75	2.5	5	15	18	255	255	255	255	255	38	7000	-
1.3	0.4	13.5	285	1.5	221.9	IE5	**BG40Z-../S5E06MA4**	0.65	2.2	4.5	13.5	16	285	285	285	285	285	38	7000	-
1.3	0.4	12	320	1.3	246.5	IE5	**BG40Z-../S5E06MA4**	0.6	2	4	12	14.5	320	320	320	320	320	38	7000	-
1.3	0.4	10.5	355	1.2	273.6	IE5	**BG40Z-../S5E06MA4**	0.5	1.8	3.6	10.5	13	355	355	355	355	355	38	7000	-
1.3	0.4	10	375	1.2	288.6	IE5	**BG40G10-../S5E06MA4**	0.5	1.7	3.4	10	12	375	375	375	375	375	43	7000	-
1.3	0.4	8.4	455	1	353.5	IE5	**BG40G10-../S5E06MA4**	0.42	1.4	2.8	8.4	10	455	455	455	455	455	43	7000	-
1.3	0.4	6.6	580	0.8	448.8	IE5	**BG40G10-../S5E06MA4**	0.33	1.1	2.2	6.6	8	580	580	580	580	580	43	7000	-
1.3	0.4	18	210	2.9	164.9	IE5	**BG50Z-../S5E06MA4**	0.9	3	6	18	21.5	210	210	210	210	210	47	10000	-
1.3	0.4	16	235	2.7	182.8	IE5	**BG50Z-../S5E06MA4**	0.8	2.7	5.4	16	19.5	235	235	235	235	235	47	10000	-
1.3	0.4	14.5	265	2.4	204.7	IE5	**BG50Z-../S5E06MA4**	0.7	2.4	4.8	14.5	17.5	265	265	265	265	265	47	10000	-
1.3	0.4	13	290	2.1	226.9	IE5	**BG50Z-../S5E06MA4**	0.65	2.2	4.4	13	15.5	290	290	290	290	290	47	10000	-
1.3	0.4	11.5	335	1.9	258.6	IE5	**BG50Z-../S5E06MA4**	0.55	1.9	3.8	11.5	13.5	335	335	335	335	335	47	10000	-
1.3	0.4	10	370	1.7	286.7	IE5	**BG50Z-../S5E06MA4**	0.5	1.7	3.4	10	12.5	370	370	370	370	370	47	10000	-
1.3	0.4	10	370	1.8	287.1	IE5	**BG50G10-../S5E06MA4**	0.5	1.7	3.4	10	12.5	370	370	370	370	370	51	10000	-
1.3	0.4	8.5	455	1.5	351.7	IE5	**BG50G10-../S5E06MA4**	0.42	1.4	2.8	8.5	10	455	455	455	455	455	51	10000	-
1.3	0.4	6.7	580	1.2	446.5	IE5	**BG50G10-../S5E06MA4**	0.33	1.1	2.2	6.7	8	580	580	580	580	580	51	10000	-
1.3	0.4	5.6	690	1	531.5	IE5	**BG50G10-../S5E06MA4**	0.28	0.9	1.8	5.6	6.7	690	690	690	690	690	51	10000	-
1.3	0.4	4.8	800	0.85	621.3	IE5	**BG50G10-../S5E06MA4**	0.24	0.8	1.6	4.8	5.7	800	800	800	800	800	51	10000	-
1.3	0.4	8.9	430	3	334.3	IE5	**BG60G20-../S5E06MA4**	0.44	1.4	2.9	8.9	10.5	430	430	430	430	430	100	16000	-
1.3	0.4	8	480	2.7	370.5	IE5	**BG60G20-../S5E06MA4**	0.4	1.3	2.6	8	9.7	480	480	480	480	480	100	16000	-
1.3	0.4	6.8	560	2.3	437.3	IE5	**BG60G20-../S5E06MA4**	0.34	1.1	2.2	6.8	8.2	560	560	560	560	560	100	16000	-
1.3	0.4	5.9	650	2	504.9	IE5	**BG60G20-../S5E06MA4**	0.29	0.95	1.9	5.9	7.1	650	650	650	650	650	100	16000	-
1.3	0.4	5.3	720	1.8	559.5	IE5	**BG60G20-../S5E06MA4**	0.26	0.85	1.7	5.3	6.4	720	720	720	720	720	100	16000	-
1.3	0.4	4.6	840	1.5	651.3	IE5	**BG60G20-../S5E06MA4**	0.23	0.75	1.5	4.6	5.5	840	840	840	840	840	100	16000	-
1.3	0.4	3.7	1040	1.2	804.5	IE5	**BG60G20-../S5E06MA4**	0.18	0.6	1.2	3.7	4.4	1040	1040	1040	1040	1040	100	16000	-
1.3	0.4	3.3	1150	1.1	891.5	IE5	**BG60G20-../S5E06MA4**	0.16	0.55	1.1	3.3	4	1150	1150	1150	1150	1150	100	16000	-
1.3	0.4	2.8	1360	0.95	1051	IE5	**BG60G20-../S5E06MA4**	0.14	0.47	0.95	2.8	3.4	1360	1360	1360	1360	1360	100	16000	-
1.3	0.4	2.5	1510	0.86	1168	IE5	**BG60G20-../S5E06MA4**	0.12	0.42	0.85	2.5	3	1510	1510	1510	1510	1510	100	16000	-
1.3	0.4	4.5	860	2.9	665.8	IE5	**BG70G20-../S5E06MA4**	0.22	0.75	1.5	4.5	5.4	860	860	860	860	860	130	20000	-
1.3	0.4	3.7	1020	2.4	790.2	IE5	**BG70G20-../S5E06MA4**	0.18	0.6	1.2	3.7	4.5	1020	1020	1020	1020	1020	130	20000	-
1.3	0.4	3.4	1140	2.2	877.6	IE5	**BG70G20-../S5E06MA4**	0.17	0.55	1.1	3.4	4.1	1140	1140	1140	1140	1140	130	20000	-
1.3	0.4	2.8	1340	1.9	1035	IE5	**BG70G20-../S5E06MA4**	0.14	0.48	0.95	2.8	3.4	1340	1340	1340	1340	1340	130	20000	-
1.3	0.4	2.5	1550	1.6	1193	IE5	**BG70G20-../S5E06MA4**	0.12	0.41	0.8	2.5	3	1550	1550	1550	1550	1550	130	20000	-
1.3	0.4	2.1	1800	1.4	1389	IE5	**BG70G20-../S5E06MA4**	0.1	0.35	0.7	2.1	2.5	1800	1800	1800	1800	1800	130	20000	-
1.3	0.4	1.9	2000	1.2	1543	IE5	**BG70G20-../S5E06MA4**	0.095	0.32	0.6	1.9	2.3	2000	2000	2000	2000	2000	130	20000	-
1.3	0.4	1.8	2150	1.2	1666	IE5	**BG70G20-../S5E06MA4**	0.09	0.3	0.6	1.8	2.1	2150	2150	2150	2150	2150	130	20000	-
1.3	0.4	1.5	2550	0.96	1994	IE5	**BG70G20-../S5E06MA4**	0.075	0.25	0.5	1.5	1.8	2550	2550	2550	2550	2550	130	20000	-
1.3	0.4	1.3	2850	0.87	2215	IE5	**BG70G20-../S5E06MA4**	0.065	0.22	0.45	1.3	1.6	2850	2850	2850	2850	2850	130	20000	-

MN = 1.75 Nm (PN = 0.55 kW)



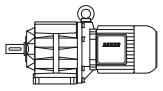
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
1.75	0.55	1130	4.6	1.9	2.64	IE5	**BG05-../S5E06MA4**	56	189	375	1130	1360	4.6	4.6	4.6	4.6	4.6	8.5	420	-
1.75	0.55	880	5.9	1.7	3.38	IE5	**BG05-../S5E06MA4**	44	147	295	880	1060	5.9	5.9	5.9	5.9	5.9	8.5	460	-
1.75	0.55	650	8	1.5	4.59	IE5	**BG05-../S5E06MA4**	32.5	108	215	650	780	8	8	8	8	8	8.5	490	-
1.75	0.55	540	9.5	1.5	5.46	IE5	**BG05-../S5E06MA4**	27	91	183	540	650	9.5	9.5	9.5	9.5	9.5	8.5	490	-
1.75	0.55	490	10.6	1.6	6.09	IE5	**BG05-../S5E06MA4**	24.5	82	164	490	590	10.6	10.6	10.6	10.6	10.6	8.5	480	-
1.75	0.55	450	11.5	1.4	6.6	IE5	**BG05-../S5E06MA4**	22.5	75	151	450	540	11.5	11.5	11.5	11.5	11.5	8.5	510	-
1.75	0.55	450	11.6	1.5	6.64	IE5	**BG05-../S5E06MA4**	22.5	75	150	450	540	11.6	11.6	11.6	11.6	11.6	8.5	500	-
1.75	0.55	380	13.6	1.3	7.8	IE5	**BG05-../S5E06MA4**	19	64	128	380	460	13.6	13.6	13.6	13.6	13.6	8.5	530	-
1.75	0.55	365	14.2	1.3	8.15	IE5	**BG05-../S5E06MA4**	18	61	122	365	440	14.2	14.2	14.2	14.2	14.2	8.5	510	-

MN = 1.75 Nm (PN = 0.55 kW)



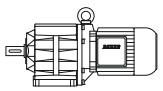
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
1.75	0.55	350	14.8	1.3	8.51	IE5	**BG05-../S5E06MA4**	17.5	58	117	350	420	14.8	14.8	14.8	14.8	14.8	8.5	550	-
1.75	0.55	285	18.1	1	10.4	IE5	**BG05-../S5E06MA4**	14	48	96	285	345	18.1	18.1	18.1	18.1	18.1	8.5	510	-
1.75	0.55	280	18.5	1.1	10.59	IE5	**BG05-../S5E06MA4**	14	47	94	280	335	18.5	18.5	18.5	18.5	18.5	8.5	590	-
1.75	0.55	255	20	1	11.55	IE5	**BG05-../S5E06MA4**	12.5	43	86	255	310	20	20	20	20	20	8.5	600	-
1.75	0.55	245	21	1	12.05	IE5	**BG05-../S5E06MA4**	12	41	82	245	295	21	21	21	21	21	8.5	510	-
1.75	0.55	235	22	1	12.6	IE5	**BG05-../S5E06MA4**	11.5	39.5	79	235	285	22	22	22	22	22	8.5	610	-
1.75	0.55	215	24	0.96	13.75	IE5	**BG05-../S5E06MA4**	10.5	36	72	215	260	24	24	24	24	24	8.5	630	-
1.75	0.55	196	26.5	0.9	15.23	IE5	**BG05-../S5E06MA4**	9.8	32.5	65	196	235	26.5	26.5	26.5	26.5	26.5	8.5	640	-
1.75	0.55	180	29	0.86	16.62	IE5	**BG05-../S5E06MA4**	9	30	60	180	215	29	29	29	29	29	8.5	660	-
1.75	0.55	790	6.6	3	3.78	IE5	**BG06-../S5E06MA4**	39.5	132	260	790	950	6.6	6.6	6.6	6.6	6.6	9.5	520	-
1.75	0.55	660	7.9	2.8	4.54	IE5	**BG06-../S5E06MA4**	33	110	220	660	790	7.9	7.9	7.9	7.9	7.9	9.5	530	-
1.75	0.55	500	10.4	2.3	5.96	IE5	**BG06-../S5E06MA4**	25	83	167	500	600	10.4	10.4	10.4	10.4	10.4	9.5	570	-
1.75	0.55	425	12.2	2.1	7.01	IE5	**BG06-../S5E06MA4**	21	71	142	425	510	12.2	12.2	12.2	12.2	12.2	9.5	580	-
1.75	0.55	355	14.6	1.9	8.39	IE5	**BG06-../S5E06MA4**	17.5	59	119	355	425	14.6	14.6	14.6	14.6	14.6	9.5	600	-
1.75	0.55	315	16.4	1.8	9.38	IE5	**BG06-../S5E06MA4**	15.5	53	106	315	380	16.4	16.4	16.4	16.4	16.4	9.5	640	-
1.75	0.55	290	17.9	1.7	10.24	IE5	**BG06-../S5E06MA4**	14.5	48.5	97	290	350	17.9	17.9	17.9	17.9	17.9	9.5	640	-
1.75	0.55	265	19.7	1.6	11.28	IE5	**BG06-../S5E06MA4**	13	44	88	265	315	19.7	19.7	19.7	19.7	19.7	9.5	670	-
1.75	0.55	240	21.5	1.5	12.3	IE5	**BG06-../S5E06MA4**	12	40.5	81	240	290	21.5	21.5	21.5	21.5	21.5	9.5	670	-
1.75	0.55	230	22.5	1.5	12.98	IE5	**BG06-../S5E06MA4**	11.5	38.5	77	230	275	22.5	22.5	22.5	22.5	22.5	9.5	600	-
1.75	0.55	200	25.5	1.3	14.78	IE5	**BG06-../S5E06MA4**	10	33.5	67	200	240	25.5	25.5	25.5	25.5	25.5	9.5	730	-
1.75	0.55	185	28	1.2	16.13	IE5	**BG06-../S5E06MA4**	9.2	30.5	61	185	220	28	28	28	28	28	9.5	740	-
1.75	0.55	172	30	1.2	17.4	IE5	**BG06-../S5E06MA4**	8.6	28.5	57	172	205	30	30	30	30	30	9.5	760	-
1.75	0.55	158	33	1.2	18.98	IE5	**BG06-../S5E06MA4**	7.9	26	52	158	189	33	33	33	33	33	9.5	770	-
1.75	0.55	144	36	1.1	20.82	IE5	**BG06-../S5E06MA4**	7.2	24	48	144	172	36	36	36	36	36	9.5	800	-
1.75	0.55	132	39.5	1.1	22.71	IE5	**BG06-../S5E06MA4**	6.6	22	44	132	158	39.5	39.5	39.5	39.5	39.5	9.5	810	-
1.75	0.55	117	44.5	1	25.48	IE5	**BG06-../S5E06MA4**	5.8	19.5	39	117	141	44.5	44.5	44.5	44.5	44.5	9.5	850	-
1.75	0.55	107	48.5	0.92	27.8	IE5	**BG06-../S5E06MA4**	5.3	17.5	35.5	107	129	48.5	48.5	48.5	48.5	48.5	9.5	840	-
1.75	0.55	93	56	0.8	32.22	IE5	**BG06-../S5E06MA4**	4.6	15.5	31	93	111	56	56	56	56	56	9.5	890	-
1.75	0.55	122	42.5	2.8	24.42	IE5	**BG10-../S5E06MA4**	6.1	20	40.5	122	147	42.5	42.5	42.5	42.5	42.5	13	1410	1970
1.75	0.55	114	45.5	2.6	26.26	IE5	**BG10-../S5E06MA4**	5.7	19	38	114	137	45.5	45.5	45.5	45.5	45.5	13	1460	2000
1.75	0.55	103	50	2.4	29.09	IE5	**BG10-../S5E06MA4**	5.1	17	34	103	123	50	50	50	50	50	13	1540	2150
1.75	0.55	95	55	2.2	31.52	IE5	**BG10-../S5E06MA4**	4.7	15.5	31.5	95	114	55	55	55	55	55	13	1600	2200
1.75	0.55	85	61	2	34.92	IE5	**BG10-../S5E06MA4**	4.2	14	28.5	85	103	61	61	61	61	61	13	1690	2350
1.75	0.55	75	69	1.7	39.7	IE5	**BG10-../S5E06MA4**	3.7	12.5	25	75	90	69	69	69	69	69	13	1780	2450
1.75	0.55	68	76	1.6	43.99	IE5	**BG10-../S5E06MA4**	3.4	11	22.5	68	81	76	76	76	76	76	13	1880	2600
1.75	0.55	64	81	1.5	46.55	IE5	**BG10-../S5E06MA4**	3.2	10.5	21	64	77	81	81	81	81	81	13	1920	2650
1.75	0.55	58	90	1.3	51.57	IE5	**BG10-../S5E06MA4**	2.9	9.6	19	58	69	90	90	90	90	90	13	2000	2800
1.75	0.55	52	100	1.2	57.48	IE5	**BG10-../S5E06MA4**	2.6	8.6	17	52	62	100	100	100	100	100	13	2000	2800
1.75	0.55	47	111	1.1	63.69	IE5	**BG10-../S5E06MA4**	2.3	7.8	15.5	47	56	111	111	111	111	111	13	2000	2800
1.75	0.55	45	115	1	66	IE5	**BG10-../S5E06MA4**	2.2	7.5	15	45	54	115	115	115	115	115	13	2000	2800
1.75	0.55	41	127	0.94	73.13	IE5	**BG10-../S5E06MA4**	2	6.8	13.5	41	49	127	127	127	127	127	13	2000	2800
1.75	0.55	44	118	0.87	67.54	IE5	**BG10Z-../S5E06MA4**	2.2	7.4	14.5	44	53	118	118	118	118	118	14	2000	2800
1.75	0.55	38.5	135	0.89	77.4	IE5	**BG10Z-../S5E06MA4**	1.9	6.4	12.5	38.5	46.5	135	135	135	135	135	14	2000	2800
1.75	0.55	34.5	150	0.8	85.76	IE5	**BG10Z-../S5E06MA4**	1.7	5.8	11.5	34.5	41.5	150	150	150	150	150	14	2000	2800
1.75	0.55	99	52	2.8	30.08	IE5	**BG15-../S5E06MA4**	4.9	16.5	33	99	119	52	52	52	52	52	13	3000	6000
1.75	0.55	87	59	2.5	34.2	IE5	**BG15-../S5E06MA4**	4.3	14.5	29	87	105	59	59	59	59	59	13	3000	6000
1.75	0.55	79	66	2.3	37.9	IE5	**BG15-../S5E06MA4**	3.9	13	26	79	94	66	66	66	66	66	13	3000	6000
1.75	0.55	71	73	2.7	41.76	IE5	**BG20-../S5E06MA4**	3.5	11.5	23.5	71	86	73	73	73	73	73	16	4500	-
1.75	0.55	64	81	2.5	46.38	IE5	**BG20-../S5E06MA4**	3.2	10.5	21.5	64	77	81	81	81	81	81	16	4700	-
1.75	0.55	62	83	2.4	47.92	IE5	**BG20-../S5E06MA4**	3.1	10	20.5	62	75	83	83	83	83	83	16	4750	-
1.75	0.55	56	93	2.1	53.22	IE5	**BG20-../S5E06MA4**	2.8	9.3	18.5	56	67	93	93	93	93	93	16	4950	-
1.75	0.55	50	103	1.9	59.07	IE5	**BG20-../S5E06MA4**	2.5	8.4	16.5	50	60	103	103	103	103	103	16	5000	-
1.75	0.55	45.5	114	1.7	65.62	IE5	**BG20-../S5E06MA4**	2.2	7.6	15	45.5	54	114	114	114	114	114	16	5000	-
1.75	0.55	51	102	1.7	58.58	IE5	**BG20Z-../S5E06MA4**	2.5	8.5	17	51	61	102	102	102	102	102	16	5000	-
1.75	0.55	44	118	1.7	67.53	IE5	**BG20Z-../S5E06MA4**	2.2	7.4	14.5	44	53	118	118	118	118	118	16	5000	-
1.75	0.55	40	131	1.5	75	IE5	**BG20Z-../S5E06MA4**	2	6.6	13	40	48	131	131	131	131	131	16	5000	-
1.75	0.55	38	137	1.5	78.6	IE5	**BG20Z-../S5E06MA4**	1.9	6.3	12.5	38	45.5	137	137	137	137	137	16	5000	-
1.75	0.55	34	152	1.3	87.3	IE5	**BG20Z-../S5E06MA4**	1.7	5.7	11	34	41	152	152	152	152	152	16	5000	-
1.75	0.55	31.5	164	1.2	94.27	IE5	**BG20Z-../S5E06MA4**	1.5	5.3	10.5	31.5	38	164	164	164	164	164	16	5000	-
1.75	0.55	28.5	183	1.1	104.7	IE5	**BG20Z-../S5E06MA4**	1.4	4.7	9.5	28.5	34	183	183	183	183	183	16	5000	-
1.75	0.55	26.5	197	1	112.8	IE5	**BG20Z-../S5E06MA4**	1.3	4.4	8.8	26.5	31.5	197	197	197	197	197	16	5000	-
1.75	0.55	23.5	215	0.91	125.3	IE5	**BG20Z-../S5E06MA4**	1.1	3.9	7.9	23.5	28.5	215	215	215	215	215	16	5000	-
1.75	0.55	21	245	0.81	141.3	IE5	**BG20Z-../S5E06MA4**	1	3.5	7	21	25	245	245	245	245	245	16	5000	-
1.75	0.55	51	101	2.9	58.18	IE5	**BG30-../S5E06MA4**	2.5	8.5	17	51	61	101	101	101	101	101	20	6000	-
1.75	0.55	49	106	2.8	60.79	IE5	**BG30-../S5E06MA4**	2.4	8.2	16	49	59	106	106	106	106	106	20	6000	-
1.75	0.55	44	118	2.5	67.44	IE5	**BG30-../S5E06MA4**	2.2	7.4	14.5	44	53	118	118	118	118	118	20	6000	-
1.75	0.55	45.5	115	2.3	65.79	IE5	**BG30Z-../S5E06MA4**	2.2	7.5	15	45.5	54	115	115	115	115	115	22	6000	-
1.75	0.55	40.5	128	2.3	73.51	IE5	**BG30Z-../S5E06MA4**	2	6.8	13.5	40.5	48.5	128	128	128	128	128	22	6000	-
1.75	0.55	36.5	142	2.1	81.55	IE5	**BG30Z-../S5E06MA4**	1.8	6.1	12	36.5	44	142	142	142	142	142	22	6000	-
1.75	0.55	34.5	150	2	86.13	IE5	**BG30Z-../S5E06MA4**	1.7	5.8	11.5	34.5	41.5	150	150	150	150	150	22	6000	-
1.75	0.55	31	167	1.8	95.55	IE5	**BG30Z-../S5E06MA4**	1.5	5.2	10	31	37.5	167	167	167	167	167	22	6000	-
1.75	0.55	27	191	1.6	109.6	IE5	**BG30Z-../S5E06MA4**	1.3	4.5	9.1	27	32.5	191	191	191	191	191	22	6000	-
1.75	0.55	24.5	210	1.4	121.6	IE5	**BG30Z-../S5E06MA4**	1.2	4.1	8.2	24.5	29.5	210	210	210	210	210	22	6000	-
1.75	0.55	23	220	1.3	128.5	IE5	**BG30Z-../S5E06MA4**	1.1	3.8	7.7	23	28	220	220	220	220	220	22	6000	-
1.75	0.55	21	245	1.2	142.5	IE5	**BG30Z-../S5E06MA4**	1	3.5	7	21	25	245	245	245	245	245	22	6000	-
1.75	0.55	19.5	265	1.1	151.5	IE5	**BG30Z-../S5E06MA4**	0.95	3.3	6.6	19.5	23.5	265	265	265	265	265	22	6000	-
1.75	0.55	17.5	290	1	168.1	IE5	**BG30Z-../S5E06MA4**	0.85	2.9	5.9	17.5	21	290	290	290	290	290	22	6000	-

MN = 1.75 Nm (PN = 0.55 kW)



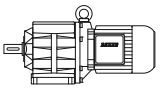
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
1.75	0.55	16	320	0.94	182.9	IE5	**BG30Z-../S5E06MA4**	0.8	2.7	5.4	16	19.5	320	320	320	320	320	22	6000	-
1.75	0.55	14.5	355	0.84	202.9	IE5	**BG30Z-../S5E06MA4**	0.7	2.4	4.9	14.5	17.5	355	355	355	355	355	22	6000	-
1.75	0.55	36.5	143	3	82	IE5	**BG40Z-../S5E06MA4**	1.8	6	12	36.5	43.5	143	143	143	143	143	38	7000	-
1.75	0.55	32.5	159	2.7	91.02	IE5	**BG40Z-../S5E06MA4**	1.6	5.4	10.5	32.5	39.5	159	159	159	159	159	38	7000	-
1.75	0.55	30.5	169	2.5	96.86	IE5	**BG40Z-../S5E06MA4**	1.5	5.1	10	30.5	37	169	169	169	169	169	38	7000	-
1.75	0.55	27.5	188	2.3	107.5	IE5	**BG40Z-../S5E06MA4**	1.3	4.6	9.3	27.5	33	188	188	188	188	188	38	7000	-
1.75	0.55	24.5	210	2	121.3	IE5	**BG40Z-../S5E06MA4**	1.2	4.1	8.2	24.5	29.5	210	210	210	210	210	38	7000	-
1.75	0.55	22	235	1.8	134.6	IE5	**BG40Z-../S5E06MA4**	1.1	3.7	7.4	22	26.5	235	235	235	235	235	38	7000	-
1.75	0.55	21	245	1.7	141.4	IE5	**BG40Z-../S5E06MA4**	1	3.5	7	21	25	245	245	245	245	245	38	7000	-
1.75	0.55	19	270	1.5	156.9	IE5	**BG40Z-../S5E06MA4**	0.95	3.1	6.3	19	22.5	270	270	270	270	270	38	7000	-
1.75	0.55	18	290	1.5	166.1	IE5	**BG40Z-../S5E06MA4**	0.9	3	6	18	21.5	290	290	290	290	290	38	7000	-
1.75	0.55	16	320	1.3	184.4	IE5	**BG40Z-../S5E06MA4**	0.8	2.7	5.4	16	19.5	320	320	320	320	320	38	7000	-
1.75	0.55	15	345	1.2	199.9	IE5	**BG40Z-../S5E06MA4**	0.75	2.5	5	15	18	345	345	345	345	345	38	7000	-
1.75	0.55	13.5	385	1.1	221.9	IE5	**BG40Z-../S5E06MA4**	0.65	2.2	4.5	13.5	16	385	385	385	385	385	38	7000	-
1.75	0.55	12	430	0.99	246.5	IE5	**BG40Z-../S5E06MA4**	0.6	2	4	12	14.5	430	430	430	430	430	38	7000	-
1.75	0.55	10.5	475	0.89	273.6	IE5	**BG40Z-../S5E06MA4**	0.5	1.8	3.6	10.5	13	475	475	475	475	475	38	7000	-
1.75	0.55	10	500	0.92	288.6	IE5	**BG40G10-../S5E06MA4**	0.5	1.7	3.4	10	12	500	500	500	500	500	43	7000	-
1.75	0.55	23	225	2.8	128.9	IE5	**BG50Z-../S5E06MA4**	1.1	3.8	7.7	23	27.5	225	225	225	225	225	47	10000	-
1.75	0.55	20.5	250	2.5	142.9	IE5	**BG50Z-../S5E06MA4**	1	3.4	6.9	20.5	25	250	250	250	250	250	47	10000	-
1.75	0.55	18	285	2.2	164.9	IE5	**BG50Z-../S5E06MA4**	0.9	3	6	18	21.5	285	285	285	285	285	47	10000	-
1.75	0.55	16	315	2	182.8	IE5	**BG50Z-../S5E06MA4**	0.8	2.7	5.4	16	19.5	315	315	315	315	315	47	10000	-
1.75	0.55	14.5	355	1.8	204.7	IE5	**BG50Z-../S5E06MA4**	0.7	2.4	4.8	14.5	17.5	355	355	355	355	355	47	10000	-
1.75	0.55	13	395	1.6	226.9	IE5	**BG50Z-../S5E06MA4**	0.65	2.2	4.4	13	15.5	395	395	395	395	395	47	10000	-
1.75	0.55	11.5	450	1.4	258.6	IE5	**BG50Z-../S5E06MA4**	0.55	1.9	3.8	11.5	13.5	450	450	450	450	450	47	10000	-
1.75	0.55	10	500	1.3	286.7	IE5	**BG50Z-../S5E06MA4**	0.5	1.7	3.4	10	12.5	500	500	500	500	500	47	10000	-
1.75	0.55	10	500	1.4	287.1	IE5	**BG50G10-../S5E06MA4**	0.5	1.7	3.4	10	12.5	500	500	500	500	500	51	10000	-
1.75	0.55	8.5	610	1.1	351.7	IE5	**BG50G10-../S5E06MA4**	0.42	1.4	2.8	8.5	10	610	610	610	610	610	51	10000	-
1.75	0.55	6.7	780	0.88	446.5	IE5	**BG50G10-../S5E06MA4**	0.33	1.1	2.2	6.7	8	780	780	780	780	780	51	10000	-
1.75	0.55	10.5	480	2.7	276.2	IE5	**BG60G20-../S5E06MA4**	0.5	1.8	3.6	10.5	13	480	480	480	480	480	100	16000	-
1.75	0.55	9.8	530	2.4	306.1	IE5	**BG60G20-../S5E06MA4**	0.49	1.6	3.2	9.8	11.5	530	530	530	530	530	100	16000	-
1.75	0.55	8.9	580	2.2	334.3	IE5	**BG60G20-../S5E06MA4**	0.44	1.4	2.9	8.9	10.5	580	580	580	580	580	100	16000	-
1.75	0.55	8	640	2	370.5	IE5	**BG60G20-../S5E06MA4**	0.4	1.3	2.6	8	9.7	640	640	640	640	640	100	16000	-
1.75	0.55	6.8	760	1.7	437.3	IE5	**BG60G20-../S5E06MA4**	0.34	1.1	2.2	6.8	8.2	760	760	760	760	760	100	16000	-
1.75	0.55	5.9	880	1.5	504.9	IE5	**BG60G20-../S5E06MA4**	0.29	0.95	1.9	5.9	7.1	880	880	880	880	880	100	16000	-
1.75	0.55	5.3	970	1.3	559.5	IE5	**BG60G20-../S5E06MA4**	0.26	0.85	1.7	5.3	6.4	970	970	970	970	970	100	16000	-
1.75	0.55	4.6	1130	1.1	651.3	IE5	**BG60G20-../S5E06MA4**	0.23	0.75	1.5	4.6	5.5	1130	1130	1130	1130	1130	100	16000	-
1.75	0.55	3.7	1400	0.92	804.5	IE5	**BG60G20-../S5E06MA4**	0.18	0.6	1.2	3.7	4.4	1400	1400	1400	1400	1400	100	16000	-
1.75	0.55	3.3	1560	0.83	891.5	IE5	**BG60G20-../S5E06MA4**	0.16	0.55	1.1	3.3	4	1560	1560	1560	1560	1560	100	16000	-
1.75	0.55	6	860	2.9	495.9	IE5	**BG70G20-../S5E06MA4**	0.3	1	2	6	7.2	860	860	860	860	860	130	20000	-
1.75	0.55	5.1	1010	2.5	577.3	IE5	**BG70G20-../S5E06MA4**	0.25	0.85	1.7	5.1	6.2	1010	1010	1010	1010	1010	130	20000	-
1.75	0.55	4.5	1160	2.1	665.8	IE5	**BG70G20-../S5E06MA4**	0.22	0.75	1.5	4.5	5.4	1160	1160	1160	1160	1160	130	20000	-
1.75	0.55	3.7	1380	1.8	790.2	IE5	**BG70G20-../S5E06MA4**	0.18	0.6	1.2	3.7	4.5	1380	1380	1380	1380	1380	130	20000	-
1.75	0.55	3.4	1530	1.6	877.6	IE5	**BG70G20-../S5E06MA4**	0.17	0.55	1.1	3.4	4.1	1530	1530	1530	1530	1530	130	20000	-
1.75	0.55	2.8	1810	1.4	1035	IE5	**BG70G20-../S5E06MA4**	0.14	0.48	0.95	2.8	3.4	1810	1810	1810	1810	1810	130	20000	-
1.75	0.55	2.5	2050	1.2	1193	IE5	**BG70G20-../S5E06MA4**	0.12	0.41	0.8	2.5	3	2050	2050	2050	2050	2050	130	20000	-
1.75	0.55	2.1	2400	1	1389	IE5	**BG70G20-../S5E06MA4**	0.1	0.35	0.7	2.1	2.5	2400	2400	2400	2400	2400	130	20000	-
1.75	0.55	1.9	2700	0.93	1543	IE5	**BG70G20-../S5E06MA4**	0.095	0.32	0.6	1.9	2.3	2700	2700	2700	2700	2700	130	20000	-
1.75	0.55	1.8	2900	0.86	1666	IE5	**BG70G20-../S5E06MA4**	0.09	0.3	0.6	1.8	2.1	2900	2900	2900	2900	2900	130	20000	-

MN = 2.4 Nm (PN = 0.75 kW)



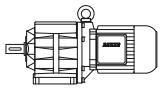
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
2.4	0.75	1130	6.3	1.4	2.64	IE5	**BG05-../S5E06LA4**	56	189	375	1130	1360	6.3	6.3	6.3	6.3	6.3	8.5	420	-
2.4	0.75	1130	6.3	1.4	2.64	IE3	**BG05-../SPE06MA4**	56	189	375	1130	1360	4.75	5.2	5.8	6.3	6.3	8.5	420	-
2.4	0.75	880	8.1	1.2	3.38	IE5	**BG05-../S5E06LA4**	44	147	295	880	1060	8.1	8.1	8.1	8.1	8.1	8.5	460	-
2.4	0.75	880	8.1	1.2	3.38	IE3	**BG05-../SPE06MA4**	44	147	295	880	1060	6	6.7	7.4	8.1	8.1	8.5	460	-
2.4	0.75	650	11	1.1	4.59	IE5	**BG05-../S5E06LA4**	32.5	108	215	650	780	11	11	11	11	11	8.5	490	-
2.4	0.75	650	11	1.1	4.59	IE3	**BG05-../SPE06MA4**	32.5	108	215	650	780	8.2	9.1	10	11	11	8.5	490	-
2.4	0.75	540	13.1	1.1	5.46	IE5	**BG05-../S5E06LA4**	27	91	183	540	650	13.1	13.1	13.1	13.1	13.1	8.5	490	-
2.4	0.75	540	13.1	1.1	5.46	IE3	**BG05-../SPE06MA4**	27	91	183	540	650	9.8	10.9	12	13.1	13.1	8.5	490	-
2.4	0.75	490	14.6	1.2	6.09	IE5	**BG05-../S5E06LA4**	24.5	82	164	490	590	14.6	14.6	14.6	14.6	14.6	8.5	480	-
2.4	0.75	490	14.6	1.2	6.09	IE3	**BG05-../SPE06MA4**	24.5	82	164	490	590	10.9	12.1	13.3	14.6	14.6	8.5	480	-
2.4	0.75	450	15.8	1	6.6	IE5	**BG05-../S5E06LA4**	22.5	75	151	450	540	15.8	15.8	15.8	15.8	15.8	8.5	510	-
2.4	0.75	450	15.9	1.1	6.64	IE5	**BG05-../S5E06LA4**	22.5	75	150	450	540	15.9	15.9	15.9	15.9	15.9	8.5	500	-
2.4	0.75	450	15.8	1	6.6	IE3	**BG05-../SPE06MA4**	22.5	75	151	450	540	11.8	13.1	14.5	15.8	15.8	8.5	510	-
2.4	0.75	450	15.9	1.1	6.64	IE3	**BG05-../SPE06MA4**	22.5	75	150	450	540	11.9	13.2	14.6	15.9	15.9	8.5	500	-
2.4	0.75	380	18.7	0.96	7.8	IE5	**BG05-../S5E06LA4**	19	64	128	380	460	18.7	18.7	18.7	18.7	18.7	8.5	530	-
2.4	0.75	380	18.7	0.96	7.8	IE3	**BG05-../SPE06MA4**	19	64	128	380	460	14	15.6	17.1	18.7	18.7	8.5	530	-
2.4	0.75	365	19.5	0.92	8.15	IE5	**BG05-../S5E06LA4**	18	61	122	365	440	19.5	19.5	19.5	19.5	19.5	8.5	510	-
2.4	0.75	365	19.5	0.92	8.15	IE3	**BG05-../SPE06MA4**	18	61	122	365	440	14.6	16.3	17.9	19.5	19.5	8.5	510	-
2.4	0.75	350	20	0.93	8.51	IE5	**BG05-../S5E06LA4**	17.5	58	117	350	420	20	20	20	20	20	8.5	550	-
2.4	0.75	350	20	0.93	8.51	IE3	**BG05-../SPE06MA4**	17.5	58	117	350	420	15.3	17	18.7	20	20	8.5	550	-

MN = 2.4 Nm (PN = 0.75 kW)



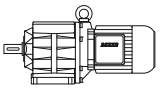
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
2.4	0.75	790	9	2.2	3.78	IE5	**BG06-../S5E06LA4**	39.5	132	260	790	950	9	9	9	9	9	9.5	520	-
2.4	0.75	790	9	2.2	3.78	IE3	**BG06-../SPE06MA4**	39.5	132	260	790	950	6.8	7.5	8.3	9	9	9.5	520	-
2.4	0.75	660	10.8	2	4.54	IE5	**BG06-../S5E06LA4**	33	110	220	660	790	10.8	10.8	10.8	10.8	10.8	9.5	530	-
2.4	0.75	660	10.8	2	4.54	IE3	**BG06-../SPE06MA4**	33	110	220	660	790	8.1	9	9.9	10.8	10.8	9.5	530	-
2.4	0.75	500	14.3	1.7	5.96	IE5	**BG06-../S5E06LA4**	25	83	167	500	600	14.3	14.3	14.3	14.3	14.3	9.5	570	-
2.4	0.75	500	14.3	1.7	5.96	IE3	**BG06-../SPE06MA4**	25	83	167	500	600	10.7	11.9	13.1	14.3	14.3	9.5	570	-
2.4	0.75	425	16.8	1.5	7.01	IE5	**BG06-../S5E06LA4**	21	71	142	425	510	16.8	16.8	16.8	16.8	16.8	9.5	580	-
2.4	0.75	425	16.8	1.5	7.01	IE3	**BG06-../SPE06MA4**	21	71	142	425	510	12.6	14	15.4	16.8	16.8	9.5	580	-
2.4	0.75	355	20	1.4	8.39	IE5	**BG06-../S5E06LA4**	17.5	59	119	355	425	20	20	20	20	20	9.5	600	-
2.4	0.75	355	20	1.4	8.39	IE3	**BG06-../SPE06MA4**	17.5	59	119	355	425	15.1	16.7	18.4	20	20	9.5	600	-
2.4	0.75	315	22.5	1.3	9.38	IE5	**BG06-../S5E06LA4**	15.5	53	106	315	380	22.5	22.5	22.5	22.5	22.5	9.5	640	-
2.4	0.75	315	22.5	1.3	9.38	IE3	**BG06-../SPE06MA4**	15.5	53	106	315	380	16.8	18.7	20.5	22.5	22.5	9.5	640	-
2.4	0.75	290	24.5	1.3	10.24	IE5	**BG06-../S5E06LA4**	14.5	48.5	97	290	350	24.5	24.5	24.5	24.5	24.5	9.5	640	-
2.4	0.75	290	24.5	1.3	10.24	IE3	**BG06-../SPE06MA4**	14.5	48.5	97	290	350	18.4	20	22.5	24.5	24.5	9.5	640	-
2.4	0.75	265	27	1.2	11.28	IE5	**BG06-../S5E06LA4**	13	44	88	265	315	27	27	27	27	27	9.5	670	-
2.4	0.75	265	27	1.2	11.28	IE3	**BG06-../SPE06MA4**	13	44	88	265	315	20	22.5	24.5	27	27	9.5	670	-
2.4	0.75	240	29.5	1.1	12.3	IE5	**BG06-../S5E06LA4**	12	40.5	81	240	290	29.5	29.5	29.5	29.5	29.5	9.5	670	-
2.4	0.75	240	29.5	1.1	12.3	IE3	**BG06-../SPE06MA4**	12	40.5	81	240	290	22	24.5	27	29.5	29.5	9.5	670	-
2.4	0.75	230	31	1.1	12.98	IE5	**BG06-../S5E06LA4**	11.5	38.5	77	230	275	31	31	31	31	31	9.5	600	-
2.4	0.75	230	31	1.1	12.98	IE3	**BG06-../SPE06MA4**	11.5	38.5	77	230	275	23	25.5	28.5	31	31	9.5	600	-
2.4	0.75	200	35	0.96	14.78	IE5	**BG06-../S5E06LA4**	10	33.5	67	200	240	35	35	35	35	35	9.5	730	-
2.4	0.75	200	35	0.96	14.78	IE3	**BG06-../SPE06MA4**	10	33.5	67	200	240	26.5	29.5	32.5	35	35	9.5	730	-
2.4	0.75	185	38.5	0.9	16.13	IE5	**BG06-../S5E06LA4**	9.2	30.5	61	185	220	38.5	38.5	38.5	38.5	38.5	9.5	740	-
2.4	0.75	185	38.5	0.9	16.13	IE3	**BG06-../SPE06MA4**	9.2	30.5	61	185	220	29	32	35	38.5	38.5	9.5	740	-
2.4	0.75	172	41.5	0.91	17.4	IE5	**BG06-../S5E06LA4**	8.6	28.5	57	172	205	41.5	41.5	41.5	41.5	41.5	9.5	760	-
2.4	0.75	172	41.5	0.91	17.4	IE3	**BG06-../SPE06MA4**	8.6	28.5	57	172	205	31	34.5	38	41.5	41.5	9.5	760	-
2.4	0.75	158	45.5	0.88	18.98	IE5	**BG06-../S5E06LA4**	7.9	26	52	158	189	45.5	45.5	45.5	45.5	45.5	9.5	770	-
2.4	0.75	158	45.5	0.88	18.98	IE3	**BG06-../SPE06MA4**	7.9	26	52	158	189	34	37.5	41.5	45.5	45.5	9.5	770	-
2.4	0.75	144	49.5	0.8	20.82	IE5	**BG06-../S5E06LA4**	7.2	24	48	144	172	49.5	49.5	49.5	49.5	49.5	9.5	800	-
2.4	0.75	144	49.5	0.8	20.82	IE3	**BG06-../SPE06MA4**	7.2	24	48	144	172	37	41.5	45.5	49.5	49.5	9.5	800	-
2.4	0.75	185	38.5	3	16.15	IE5	**BG10-../S5E06LA4**	9.2	30.5	61	185	220	38.5	38.5	38.5	38.5	38.5	13	1140	1590
2.4	0.75	185	38.5	3	16.15	IE3	**BG10-../SPE06MA4**	9.2	30.5	61	185	220	29	32	35.5	38.5	38.5	13	1140	1590
2.4	0.75	162	44	2.7	18.51	IE5	**BG10-../S5E06LA4**	8.1	27	54	162	194	44	44	44	44	44	13	1210	1690
2.4	0.75	162	44	2.7	18.51	IE3	**BG10-../SPE06MA4**	8.1	27	54	162	194	33	37	40.5	44	44	13	1210	1690
2.4	0.75	146	49	2.4	20.51	IE5	**BG10-../S5E06LA4**	7.3	24	48.5	146	175	49	49	49	49	49	13	1290	1800
2.4	0.75	146	49	2.4	20.51	IE3	**BG10-../SPE06MA4**	7.3	24	48.5	146	175	36.5	41	45	49	49	13	1290	1800
2.4	0.75	136	52	2.3	22.04	IE5	**BG10-../S5E06LA4**	6.8	22.5	45	136	163	52	52	52	52	52	13	1330	1860
2.4	0.75	136	52	2.3	22.04	IE3	**BG10-../SPE06MA4**	6.8	22.5	45	136	163	39.5	44	48	52	52	13	1330	1860
2.4	0.75	122	58	2	24.42	IE5	**BG10-../S5E06LA4**	6.1	20	40.5	122	147	58	58	58	58	58	13	1410	1970
2.4	0.75	122	58	2	24.42	IE3	**BG10-../SPE06MA4**	6.1	20	40.5	122	147	43.5	48.5	53	58	58	13	1410	1970
2.4	0.75	114	63	1.9	26.26	IE5	**BG10-../S5E06LA4**	5.7	19	38	114	137	63	63	63	63	63	13	1460	2000
2.4	0.75	114	63	1.9	26.26	IE3	**BG10-../SPE06MA4**	5.7	19	38	114	137	47	52	57	63	63	13	1460	2000
2.4	0.75	103	69	1.7	29.09	IE5	**BG10-../S5E06LA4**	5.1	17	34	103	123	69	69	69	69	69	13	1540	2150
2.4	0.75	103	69	1.7	29.09	IE3	**BG10-../SPE06MA4**	5.1	17	34	103	123	52	58	63	69	69	13	1540	2150
2.4	0.75	95	75	1.6	31.52	IE5	**BG10-../S5E06LA4**	4.7	15.5	31.5	95	114	75	75	75	75	75	13	1600	2200
2.4	0.75	95	75	1.6	31.52	IE3	**BG10-../SPE06MA4**	4.7	15.5	31.5	95	114	56	63	69	75	75	13	1600	2200
2.4	0.75	85	83	1.4	34.92	IE5	**BG10-../S5E06LA4**	4.2	14	28.5	85	103	83	83	83	83	83	13	1690	2350
2.4	0.75	85	83	1.4	34.92	IE3	**BG10-../SPE06MA4**	4.2	14	28.5	85	103	62	69	76	83	83	13	1690	2350
2.4	0.75	75	95	1.3	39.7	IE5	**BG10-../S5E06LA4**	3.7	12.5	25	75	90	95	95	95	95	95	13	1780	2450
2.4	0.75	75	95	1.3	39.7	IE3	**BG10-../SPE06MA4**	3.7	12.5	25	75	90	71	79	87	95	95	13	1780	2450
2.4	0.75	68	105	1.1	43.99	IE5	**BG10-../S5E06LA4**	3.4	11	22.5	68	81	105	105	105	105	105	13	1880	2600
2.4	0.75	68	105	1.1	43.99	IE3	**BG10-../SPE06MA4**	3.4	11	22.5	68	81	79	87	96	105	105	13	1880	2600
2.4	0.75	64	111	1.1	46.55	IE5	**BG10-../S5E06LA4**	3.2	10.5	21	64	77	111	111	111	111	111	13	1920	2650
2.4	0.75	64	111	1.1	46.55	IE3	**BG10-../SPE06MA4**	3.2	10.5	21	64	77	83	93	102	111	111	13	1920	2650
2.4	0.75	58	123	0.97	51.57	IE5	**BG10-../S5E06LA4**	2.9	9.6	19	58	69	123	123	123	123	123	13	2000	2800
2.4	0.75	58	123	0.97	51.57	IE3	**BG10-../SPE06MA4**	2.9	9.6	19	58	69	92	103	113	123	123	13	2000	2800
2.4	0.75	52	137	0.87	57.48	IE5	**BG10-../S5E06LA4**	2.6	8.6	17	52	62	137	137	137	137	137	13	2000	2800
2.4	0.75	52	137	0.87	57.48	IE3	**BG10-../SPE06MA4**	2.6	8.6	17	52	62	103	114	126	137	137	13	2000	2800
2.4	0.75	110	64	2.3	27.08	IE5	**BG15-../S5E06LA4**	5.5	18	36.5	110	132	64	64	64	64	64	13	3000	6000
2.4	0.75	110	64	2.3	27.08	IE3	**BG15-../SPE06MA4**	5.5	18	36.5	110	132	48.5	54	59	64	64	13	3000	6000
2.4	0.75	99	72	2.1	30.08	IE5	**BG15-../S5E06LA4**	4.9	16.5	33	99	119	72	72	72	72	72	13	3000	6000
2.4	0.75	99	72	2.1	30.08	IE3	**BG15-../SPE06MA4**	4.9	16.5	33	99	119	54	60	66	72	72	13	3000	6000
2.4	0.75	87	82	1.8	34.2	IE5	**BG15-../S5E06LA4**	4.3	14.5	29	87	105	82	82	82	82	82	13	3000	6000
2.4	0.75	87	82	1.8	34.2	IE3	**BG15-../SPE06MA4**	4.3	14.5	29	87	105	61	68	75	82	82	13	3000	6000
2.4	0.75	79	90	1.6	37.9	IE5	**BG15-../S5E06LA4**	3.9	13	26	79	94	90	90	90	90	90	13	3000	6000
2.4	0.75	79	90	1.6	37.9	IE3	**BG15-../SPE06MA4**	3.9	13	26	79	94	68	75	83	90	90	13	3000	6000
2.4	0.75	107	66	3	27.85	IE5	**BG20-../S5E06LA4**	5.3	17.5	35.5	107	129	66	66	66	66	66	16	3800	-
2.4	0.75	107	66	3	27.85	IE3	**BG20-../SPE06MA4**	5.3	17.5	35.5	107	129	50	55	61	66	66	16	3800	-
2.4	0.75	96	74	2.7	30.94	IE5	**BG20-../S5E06LA4**	4.8	16	32	96	116	74	74	74	74	74	16	4000	-
2.4	0.75	96	74	2.7	30.94	IE3	**BG20-../SPE06MA4**	4.8	16	32	96	116	55	61	68	74	74	16	4000	-
2.4	0.75	90	79	2.5	33.33	IE5	**BG20-../S5E06LA4**	4.5	15	30	90	108	79	79	79	79	79	16	4100	-
2.4	0.75	90	79	2.5	33.33	IE3	**BG20-../SPE06MA4**	4.5	15	30	90	108	59	66	73	79	79	16	4100	-
2.4	0.75	81	88	2.3	37.02	IE5	**BG20-../S5E06LA4**	4	13.5	27	81	97	88	88	88	88	88	16	4300	-
2.4	0.75	81	88	2.3	37.02	IE3	**BG20-../SPE06MA4**	4	13.5	27	81	97	66	74	81	88	88	16	4300	-
2.4	0.75	71	100	2	41.76	IE5	**BG20-../S5E06LA4**	3.5	11.5	23.5	71	86	100	100	100	100	100	16	4500	-
2.4	0.75	71	100	2	41.76	IE3	**BG20-../SPE06MA4**	3.5	11.5	23.5	71	86	75	83	91	100	100	16	4500	-
2.4	0.75	64	111	1.8	46.38	IE5	**BG20-../S5E06LA4**	3.2	10.5	21.5	64	77	111	111	111	111	111	16	4700	-
2.4	0.75	64	111	1.8	46.38	IE3	**BG20-../SPE06MA4**	3.2	10.5	21.5	64	77	83	92	102	111	111	16	4700	-
2.4	0.75	62	115	1.7	47.92	IE5	**BG20-../S5E06LA4**	3.1	10	20.5	62	75	115	115	115	115	115	16	4750	-

MN = 2.4 Nm (PN = 0.75 kW)



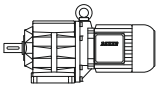
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
2.4	0.75	62	115	1.7	47.92	IE3	**BG20-../SPE06MA4**	3.1	10	20.5	62	75	86	95	105	115	115	16	4750	-
2.4	0.75	56	127	1.6	53.22	IE5	**BG20-../S5E06LA4**	2.8	9.3	18.5	56	67	127	127	127	127	127	16	4950	-
2.4	0.75	56	127	1.6	53.22	IE3	**BG20-../SPE06MA4**	2.8	9.3	18.5	56	67	95	106	117	127	127	16	4950	-
2.4	0.75	50	141	1.4	59.07	IE5	**BG20-../S5E06LA4**	2.5	8.4	16.5	50	60	141	141	141	141	141	16	5000	-
2.4	0.75	50	141	1.4	59.07	IE3	**BG20-../SPE06MA4**	2.5	8.4	16.5	50	60	106	118	129	141	141	16	5000	-
2.4	0.75	45.5	157	1.3	65.62	IE5	**BG20-../S5E06LA4**	2.2	7.6	15	45.5	54	157	157	157	157	157	16	5000	-
2.4	0.75	45.5	157	1.3	65.62	IE3	**BG20-../SPE06MA4**	2.2	7.6	15	45.5	54	118	131	144	157	157	16	5000	-
2.4	0.75	51	140	1.2	58.58	IE5	**BG20Z-../S5E06LA4**	2.5	8.5	17	51	61	140	140	140	140	140	16	5000	-
2.4	0.75	51	140	1.2	58.58	IE3	**BG20Z-../SPE06MA4**	2.5	8.5	17	51	61	105	117	128	140	140	16	5000	-
2.4	0.75	44	162	1.2	67.53	IE5	**BG20Z-../S5E06LA4**	2.2	7.4	14.5	44	53	162	162	162	162	162	16	5000	-
2.4	0.75	44	162	1.2	67.53	IE3	**BG20Z-../SPE06MA4**	2.2	7.4	14.5	44	53	121	135	148	162	162	16	5000	-
2.4	0.75	40	180	1.1	75	IE5	**BG20Z-../S5E06LA4**	2	6.6	13	40	48	180	180	180	180	180	16	5000	-
2.4	0.75	40	180	1.1	75	IE3	**BG20Z-../SPE06MA4**	2	6.6	13	40	48	135	150	165	180	180	16	5000	-
2.4	0.75	38	188	1.1	78.6	IE5	**BG20Z-../S5E06LA4**	1.9	6.3	12.5	38	45.5	188	188	188	188	188	16	5000	-
2.4	0.75	38	188	1.1	78.6	IE3	**BG20Z-../SPE06MA4**	1.9	6.3	12.5	38	45.5	141	157	172	188	188	16	5000	-
2.4	0.75	34	205	0.95	87.3	IE5	**BG20Z-../S5E06LA4**	1.7	5.7	11	34	41	205	205	205	205	205	16	5000	-
2.4	0.75	34	205	0.95	87.3	IE3	**BG20Z-../SPE06MA4**	1.7	5.7	11	34	41	157	174	192	205	205	16	5000	-
2.4	0.75	31.5	225	0.88	94.27	IE5	**BG20Z-../S5E06LA4**	1.5	5.3	10.5	31.5	38	225	225	225	225	225	16	5000	-
2.4	0.75	31.5	225	0.88	94.27	IE3	**BG20Z-../SPE06MA4**	1.5	5.3	10.5	31.5	38	169	188	205	225	225	16	5000	-
2.4	0.75	28.5	250	0.8	104.7	IE5	**BG20Z-../S5E06LA4**	1.4	4.7	9.5	28.5	34	250	250	250	250	250	16	5000	-
2.4	0.75	28.5	250	0.8	104.7	IE3	**BG20Z-../SPE06MA4**	1.4	4.7	9.5	28.5	34	188	205	230	250	250	16	5000	-
2.4	0.75	70	101	2.9	42.46	IE5	**BG30-../S5E06LA4**	3.5	11.5	23.5	70	84	101	101	101	101	101	20	5900	-
2.4	0.75	70	101	2.9	42.46	IE3	**BG30-../SPE06MA4**	3.5	11.5	23.5	70	84	76	84	93	101	101	20	5900	-
2.4	0.75	63	113	2.7	47.11	IE5	**BG30-../S5E06LA4**	3.1	10.5	21	63	76	113	113	113	113	113	20	6000	-
2.4	0.75	63	113	2.7	47.11	IE3	**BG30-../SPE06MA4**	3.1	10.5	21	63	76	84	94	103	113	113	20	6000	-
2.4	0.75	57	125	2.4	52.44	IE5	**BG30-../S5E06LA4**	2.8	9.5	19	57	68	125	125	125	125	125	20	6000	-
2.4	0.75	57	125	2.4	52.44	IE3	**BG30-../SPE06MA4**	2.8	9.5	19	57	68	94	104	115	125	125	20	6000	-
2.4	0.75	51	139	2.1	58.18	IE5	**BG30-../S5E06LA4**	2.5	8.5	17	51	61	139	139	139	139	139	20	6000	-
2.4	0.75	51	139	2.1	58.18	IE3	**BG30-../SPE06MA4**	2.5	8.5	17	51	61	104	116	127	139	139	20	6000	-
2.4	0.75	49	145	2.1	60.79	IE5	**BG30-../S5E06LA4**	2.4	8.2	16	49	59	145	145	145	145	145	20	6000	-
2.4	0.75	49	145	2.1	60.79	IE3	**BG30-../SPE06MA4**	2.4	8.2	16	49	59	109	121	133	145	145	20	6000	-
2.4	0.75	44	161	1.9	67.44	IE5	**BG30-../S5E06LA4**	2.2	7.4	14.5	44	53	161	161	161	161	161	20	6000	-
2.4	0.75	44	161	1.9	67.44	IE3	**BG30-../SPE06MA4**	2.2	7.4	14.5	44	53	121	134	148	161	161	20	6000	-
2.4	0.75	45.5	157	1.7	65.79	IE5	**BG30Z-../S5E06LA4**	2.2	7.5	15	45.5	54	157	157	157	157	157	22	6000	-
2.4	0.75	45.5	157	1.7	65.79	IE3	**BG30Z-../SPE06MA4**	2.2	7.5	15	45.5	54	118	131	144	157	157	22	6000	-
2.4	0.75	40.5	176	1.7	73.51	IE5	**BG30Z-../S5E06LA4**	2	6.8	13.5	40.5	48.5	176	176	176	176	176	22	6000	-
2.4	0.75	40.5	176	1.7	73.51	IE3	**BG30Z-../SPE06MA4**	2	6.8	13.5	40.5	48.5	132	147	161	176	176	22	6000	-
2.4	0.75	36.5	195	1.5	81.55	IE5	**BG30Z-../S5E06LA4**	1.8	6.1	12	36.5	44	195	195	195	195	195	22	6000	-
2.4	0.75	36.5	195	1.5	81.55	IE3	**BG30Z-../SPE06MA4**	1.8	6.1	12	36.5	44	146	163	179	195	195	22	6000	-
2.4	0.75	34.5	205	1.5	86.13	IE5	**BG30Z-../S5E06LA4**	1.7	5.8	11.5	34.5	41.5	205	205	205	205	205	22	6000	-
2.4	0.75	34.5	205	1.5	86.13	IE3	**BG30Z-../SPE06MA4**	1.7	5.8	11.5	34.5	41.5	155	172	189	205	205	22	6000	-
2.4	0.75	31	225	1.3	95.55	IE5	**BG30Z-../S5E06LA4**	1.5	5.2	10	31	37.5	225	225	225	225	225	22	6000	-
2.4	0.75	31	225	1.3	95.55	IE3	**BG30Z-../SPE06MA4**	1.5	5.2	10	31	37.5	171	191	210	225	225	22	6000	-
2.4	0.75	27	260	1.1	109.6	IE5	**BG30Z-../S5E06LA4**	1.3	4.5	9.1	27	32.5	260	260	260	260	260	22	6000	-
2.4	0.75	27	260	1.1	109.6	IE3	**BG30Z-../SPE06MA4**	1.3	4.5	9.1	27	32.5	197	215	240	260	260	22	6000	-
2.4	0.75	24.5	290	1	121.6	IE5	**BG30Z-../S5E06LA4**	1.2	4.1	8.2	24.5	29.5	290	290	290	290	290	22	6000	-
2.4	0.75	24.5	290	1	121.6	IE3	**BG30Z-../SPE06MA4**	1.2	4.1	8.2	24.5	29.5	215	240	265	290	290	22	6000	-
2.4	0.75	23	305	0.97	128.5	IE5	**BG30Z-../S5E06LA4**	1.1	3.8	7.7	23	28	305	305	305	305	305	22	6000	-
2.4	0.75	23	305	0.97	128.5	IE3	**BG30Z-../SPE06MA4**	1.1	3.8	7.7	23	28	230	255	280	305	305	22	6000	-
2.4	0.75	21	340	0.88	142.5	IE5	**BG30Z-../S5E06LA4**	1	3.5	7	21	25	340	340	340	340	340	22	6000	-
2.4	0.75	21	340	0.88	142.5	IE3	**BG30Z-../SPE06MA4**	1	3.5	7	21	25	255	285	310	340	340	22	6000	-
2.4	0.75	19.5	360	0.83	151.5	IE5	**BG30Z-../S5E06LA4**	0.95	3.3	6.6	19.5	23.5	360	360	360	360	360	22	6000	-
2.4	0.75	19.5	360	0.83	151.5	IE3	**BG30Z-../SPE06MA4**	0.95	3.3	6.6	19.5	23.5	270	300	330	360	360	22	6000	-
2.4	0.75	44	162	2.6	67.74	IE5	**BG40Z-../S5E06LA4**	2.2	7.3	14.5	44	53	162	162	162	162	162	38	7000	-
2.4	0.75	44	162	2.6	67.74	IE3	**BG40Z-../SPE06MA4**	2.2	7.3	14.5	44	53	121	135	149	162	162	38	7000	-
2.4	0.75	39.5	180	2.4	75.19	IE5	**BG40Z-../S5E06LA4**	1.9	6.6	13	39.5	47.5	180	180	180	180	180	38	7000	-
2.4	0.75	39.5	180	2.4	75.19	IE3	**BG40Z-../SPE06MA4**	1.9	6.6	13	39.5	47.5	135	150	165	180	180	38	7000	-
2.4	0.75	36.5	196	2.2	82	IE5	**BG40Z-../S5E06LA4**	1.8	6	12	36.5	43.5	196	196	196	196	196	38	7000	-
2.4	0.75	36.5	196	2.2	82	IE3	**BG40Z-../SPE06MA4**	1.8	6	12	36.5	43.5	147	164	180	196	196	38	7000	-
2.4	0.75	32.5	215	1.9	91.02	IE5	**BG40Z-../S5E06LA4**	1.6	5.4	10.5	32.5	39.5	215	215	215	215	215	38	7000	-
2.4	0.75	32.5	215	1.9	91.02	IE3	**BG40Z-../SPE06MA4**	1.6	5.4	10.5	32.5	39.5	163	182	200	215	215	38	7000	-
2.4	0.75	30.5	230	1.8	96.86	IE5	**BG40Z-../S5E06LA4**	1.5	5.1	10	30.5	37	230	230	230	230	230	38	7000	-
2.4	0.75	30.5	230	1.8	96.86	IE3	**BG40Z-../SPE06MA4**	1.5	5.1	10	30.5	37	174	193	210	230	230	38	7000	-
2.4	0.75	27.5	255	1.6	107.5	IE5	**BG40Z-../S5E06LA4**	1.3	4.6	9.3	27.5	33	255	255	255	255	255	38	7000	-
2.4	0.75	27.5	255	1.6	107.5	IE3	**BG40Z-../SPE06MA4**	1.3	4.6	9.3	27.5	33	193	215	235	255	255	38	7000	-
2.4	0.75	24.5	290	1.5	121.3	IE5	**BG40Z-../S5E06LA4**	1.2	4.1	8.2	24.5	29.5	290	290	290	290	290	38	7000	-
2.4	0.75	24.5	290	1.5	121.3	IE3	**BG40Z-../SPE06MA4**	1.2	4.1	8.2	24.5	29.5	215	240	265	290	290	38	7000	-
2.4	0.75	22	320	1.3	134.6	IE5	**BG40Z-../S5E06LA4**	1.1	3.7	7.4	22	26.5	320	320	320	320	320	38	7000	-
2.4	0.75	22	320	1.3	134.6	IE3	**BG40Z-../SPE06MA4**	1.1	3.7	7.4	22	26.5	240	265	295	320	320	38	7000	-
2.4	0.75	21	335	1.3	141.4	IE5	**BG40Z-../S5E06LA4**	1	3.5	7	21	25	335	335	335	335	335	38	7000	-
2.4	0.75	21	335	1.3	141.4	IE3	**BG40Z-../SPE06MA4**	1	3.5	7	21	25	250	280	310	335	335	38	7000	-
2.4	0.75	19	375	1.1	156.9	IE5	**BG40Z-../S5E06LA4**	0.95	3.1	6.3	19	22.5	375	375	375	375	375	38	7000	-
2.4	0.75	19	375	1.1	156.9	IE3	**BG40Z-../SPE06MA4**	0.95	3.1	6.3	19	22.5	280	310	345	375	375	38	7000	-
2.4	0.75	18	395	1.1	166.1	IE5	**BG40Z-../S5E06LA4**	0.9	3	6	18	21.5	395	395	395	395	395	38	7000	-
2.4	0.75	18	395	1.1	166.1	IE3	**BG40Z-../SPE06MA4**	0.9	3	6	18	21.5	295	330	365	395	395	38	7000	-
2.4	0.75	16	440	0.96	184.4	IE5	**BG40Z-../S5E06LA4**	0.8	2.7	5.4	16	19.5	440	440	440	440	440	38	7000	-
2.4	0.75	16	440	0.96	184.4	IE3	**BG40Z-../SPE06MA4**	0.8	2.7	5.4	16	19.5	330	365	405	440	440	38	7000	-
2.4	0.75	15	475	0.89	199.9	IE5	**BG40Z-../S5E06LA4**	0.75	2.5	5	15	18	475	475	475	475	475	38	7000	-
2.4	0.75	15	475	0.89	199.9	IE3	**BG40Z-../SPE06MA4**	0.75	2.5	5	15	18	355	395	435	475	475	38	7000	-
2.4	0.75	13.5	530	0.8	221.9	IE5	**BG40Z-../S5E06LA4**	0.65	2.2	4.5	13.5	16	530	530	530	530	530	38	7000	-
2.4	0.75	13.5	530	0.8	221.9	IE3	**BG40Z-../SPE06MA4**	0.65	2.2	4.5	13.5	16	395	440	485	530	530	38	7000	-

MN = 2.4 Nm (PN = 0.75 kW)



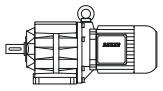
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
2.4	0.75	31	225	2.7	95.58	IE5	**BG50Z-../S5E06LA4**	1.5	5.2	10	31	37.5	225	225	225	225	225	47	10000	-
2.4	0.75	31	225	2.7	95.58	IE3	**BG50Z-../SPE06MA4**	1.5	5.2	10	31	37.5	172	191	210	225	225	47	10000	-
2.4	0.75	28	250	2.5	106	IE5	**BG50Z-../S5E06LA4**	1.4	4.7	9.4	28	33.5	250	250	250	250	250	47	10000	-
2.4	0.75	28	250	2.5	106	IE3	**BG50Z-../SPE06MA4**	1.4	4.7	9.4	28	33.5	190	210	230	250	250	47	10000	-
2.4	0.75	23	305	2	128.9	IE5	**BG50Z-../S5E06LA4**	1.1	3.8	7.7	23	27.5	305	305	305	305	305	47	10000	-
2.4	0.75	23	305	2	128.9	IE3	**BG50Z-../SPE06MA4**	1.1	3.8	7.7	23	27.5	230	255	280	305	305	47	10000	-
2.4	0.75	20.5	340	1.8	142.9	IE5	**BG50Z-../S5E06LA4**	1	3.4	6.9	20.5	25	340	340	340	340	340	47	10000	-
2.4	0.75	20.5	340	1.8	142.9	IE3	**BG50Z-../SPE06MA4**	1	3.4	6.9	20.5	25	255	285	310	340	340	47	10000	-
2.4	0.75	18	395	1.6	164.9	IE5	**BG50Z-../S5E06LA4**	0.9	3	6	18	21.5	395	395	395	395	395	47	10000	-
2.4	0.75	18	395	1.6	164.9	IE3	**BG50Z-../SPE06MA4**	0.9	3	6	18	21.5	295	325	360	395	395	47	10000	-
2.4	0.75	16	435	1.4	182.8	IE5	**BG50Z-../S5E06LA4**	0.8	2.7	5.4	16	19.5	435	435	435	435	435	47	10000	-
2.4	0.75	16	435	1.4	182.8	IE3	**BG50Z-../SPE06MA4**	0.8	2.7	5.4	16	19.5	325	365	400	435	435	47	10000	-
2.4	0.75	14.5	490	1.3	204.7	IE5	**BG50Z-../S5E06LA4**	0.7	2.4	4.8	14.5	17.5	490	490	490	490	490	47	10000	-
2.4	0.75	14.5	490	1.3	204.7	IE3	**BG50Z-../SPE06MA4**	0.7	2.4	4.8	14.5	17.5	365	405	450	490	490	47	10000	-
2.4	0.75	13	540	1.2	226.9	IE5	**BG50Z-../S5E06LA4**	0.65	2.2	4.4	13	15.5	540	540	540	540	540	47	10000	-
2.4	0.75	13	540	1.2	226.9	IE3	**BG50Z-../SPE06MA4**	0.65	2.2	4.4	13	15.5	405	450	495	540	540	47	10000	-
2.4	0.75	11.5	620	1	258.6	IE5	**BG50Z-../S5E06LA4**	0.55	1.9	3.8	11.5	13.5	620	620	620	620	620	47	10000	-
2.4	0.75	11.5	620	1	258.6	IE3	**BG50Z-../SPE06MA4**	0.55	1.9	3.8	11.5	13.5	465	510	560	620	620	47	10000	-
2.4	0.75	10	680	0.92	286.7	IE5	**BG50Z-../S5E06LA4**	0.5	1.7	3.4	10	12.5	680	680	680	680	680	47	10000	-
2.4	0.75	10	680	0.92	286.7	IE3	**BG50Z-../SPE06MA4**	0.5	1.7	3.4	10	12.5	510	570	630	680	680	47	10000	-
2.4	0.75	10	680	1	287.1	IE5	**BG50G10-../S5E06LA4**	0.5	1.7	3.4	10	12.5	680	680	680	680	680	51	10000	-
2.4	0.75	10	680	1	287.1	IE3	**BG50G10-../SPE06MA4**	0.5	1.7	3.4	10	12.5	510	570	630	680	680	51	10000	-
2.4	0.75	8.5	840	0.82	351.7	IE5	**BG50G10-../S5E06LA4**	0.42	1.4	2.8	8.5	10	840	840	840	840	840	51	10000	-
2.4	0.75	8.5	840	0.82	351.7	IE3	**BG50G10-../SPE06MA4**	0.42	1.4	2.8	8.5	10	630	700	770	840	840	51	10000	-
2.4	0.75	10.5	660	2	276.2	IE5	**BG60G20-../S5E06LA4**	0.5	1.8	3.6	10.5	13	660	660	660	660	660	100	16000	-
2.4	0.75	10.5	660	2	276.2	IE3	**BG60G20-../SPE06MA4**	0.5	1.8	3.6	10.5	13	495	550	600	660	660	100	16000	-
2.4	0.75	9.8	730	1.8	306.1	IE5	**BG60G20-../S5E06LA4**	0.49	1.6	3.2	9.8	11.5	730	730	730	730	730	100	16000	-
2.4	0.75	9.8	730	1.8	306.1	IE3	**BG60G20-../SPE06MA4**	0.49	1.6	3.2	9.8	11.5	550	610	670	730	730	100	16000	-
2.4	0.75	8.9	800	1.6	334.3	IE5	**BG60G20-../S5E06LA4**	0.44	1.4	2.9	8.9	10.5	800	800	800	800	800	100	16000	-
2.4	0.75	8.9	800	1.6	334.3	IE3	**BG60G20-../SPE06MA4**	0.44	1.4	2.9	8.9	10.5	600	660	730	800	800	100	16000	-
2.4	0.75	8	880	1.5	370.5	IE5	**BG60G20-../S5E06LA4**	0.4	1.3	2.6	8	9.7	880	880	880	880	880	100	16000	-
2.4	0.75	8	880	1.5	370.5	IE3	**BG60G20-../SPE06MA4**	0.4	1.3	2.6	8	9.7	660	740	810	880	880	100	16000	-
2.4	0.75	6.8	1040	1.2	437.3	IE5	**BG60G20-../S5E06LA4**	0.34	1.1	2.2	6.8	8.2	1040	1040	1040	1040	1040	100	16000	-
2.4	0.75	6.8	1040	1.2	437.3	IE3	**BG60G20-../SPE06MA4**	0.34	1.1	2.2	6.8	8.2	780	870	960	1040	1040	100	16000	-
2.4	0.75	5.9	1210	1.1	504.9	IE5	**BG60G20-../S5E06LA4**	0.29	0.95	1.9	5.9	7.1	1210	1210	1210	1210	1210	100	16000	-
2.4	0.75	5.9	1210	1.1	504.9	IE3	**BG60G20-../SPE06MA4**	0.29	0.95	1.9	5.9	7.1	900	1000	1110	1210	1210	100	16000	-
2.4	0.75	5.3	1340	0.97	559.5	IE5	**BG60G20-../S5E06LA4**	0.26	0.85	1.7	5.3	6.4	1340	1340	1340	1340	1340	100	16000	-
2.4	0.75	5.3	1340	0.97	559.5	IE3	**BG60G20-../SPE06MA4**	0.26	0.85	1.7	5.3	6.4	1000	1110	1230	1340	1340	100	16000	-
2.4	0.75	4.6	1560	0.83	651.3	IE5	**BG60G20-../S5E06LA4**	0.23	0.75	1.5	4.6	5.5	1560	1560	1560	1560	1560	100	16000	-
2.4	0.75	4.6	1560	0.83	651.3	IE3	**BG60G20-../SPE06MA4**	0.23	0.75	1.5	4.6	5.5	1170	1300	1430	1560	1560	100	16000	-
2.4	0.75	7.7	930	2.7	387.6	IE5	**BG70G20-../S5E06LA4**	0.38	1.2	2.5	7.7	9.2	930	930	930	930	930	130	20000	-
2.4	0.75	7.7	930	2.7	387.6	IE3	**BG70G20-../SPE06MA4**	0.38	1.2	2.5	7.7	9.2	690	770	850	930	930	130	20000	-
2.4	0.75	7.1	1000	2.5	417.8	IE5	**BG70G20-../S5E06LA4**	0.35	1.1	2.3	7.1	8.6	1000	1000	1000	1000	1000	130	20000	-
2.4	0.75	7.1	1000	2.5	417.8	IE3	**BG70G20-../SPE06MA4**	0.35	1.1	2.3	7.1	8.6	750	830	910	1000	1000	130	20000	-
2.4	0.75	6	1190	2.1	495.9	IE5	**BG70G20-../S5E06LA4**	0.3	1	2	6	7.2	1190	1190	1190	1190	1190	130	20000	-
2.4	0.75	6	1190	2.1	495.9	IE3	**BG70G20-../SPE06MA4**	0.3	1	2	6	7.2	890	990	1090	1190	1190	130	20000	-
2.4	0.75	5.1	1380	1.8	577.3	IE5	**BG70G20-../S5E06LA4**	0.25	0.85	1.7	5.1	6.2	1380	1380	1380	1380	1380	130	20000	-
2.4	0.75	5.1	1380	1.8	577.3	IE3	**BG70G20-../SPE06MA4**	0.25	0.85	1.7	5.1	6.2	1030	1150	1270	1380	1380	130	20000	-
2.4	0.75	4.5	1590	1.6	665.8	IE5	**BG70G20-../S5E06LA4**	0.22	0.75	1.5	4.5	5.4	1590	1590	1590	1590	1590	130	20000	-
2.4	0.75	4.5	1590	1.6	665.8	IE3	**BG70G20-../SPE06MA4**	0.22	0.75	1.5	4.5	5.4	1190	1330	1460	1590	1590	130	20000	-
2.4	0.75	3.7	1890	1.3	790.2	IE5	**BG70G20-../S5E06LA4**	0.18	0.6	1.2	3.7	4.5	1890	1890	1890	1890	1890	130	20000	-
2.4	0.75	3.7	1890	1.3	790.2	IE3	**BG70G20-../SPE06MA4**	0.18	0.6	1.2	3.7	4.5	1420	1580	1730	1890	1890	130	20000	-
2.4	0.75	3.4	2100	1.2	877.6	IE5	**BG70G20-../S5E06LA4**	0.17	0.55	1.1	3.4	4.1	2100	2100	2100	2100	2100	130	20000	-
2.4	0.75	3.4	2100	1.2	877.6	IE3	**BG70G20-../SPE06MA4**	0.17	0.55	1.1	3.4	4.1	1570	1750	1930	2100	2100	130	20000	-
2.4	0.75	2.8	2450	1	1035	IE5	**BG70G20-../S5E06LA4**	0.14	0.48	0.95	2.8	3.4	2450	2450	2450	2450	2450	130	20000	-
2.4	0.75	2.8	2450	1	1035	IE3	**BG70G20-../SPE06MA4**	0.14	0.48	0.95	2.8	3.4	1860	2050	2250	2450	2450	130	20000	-
2.4	0.75	2.5	2850	0.87	1193	IE5	**BG70G20-../S5E06LA4**	0.12	0.41	0.8	2.5	3	2850	2850	2850	2850	2850	130	20000	-
2.4	0.75	2.5	2850	0.87	1193	IE3	**BG70G20-../SPE06MA4**	0.12	0.41	0.8	2.5	3	2100	2350	2600	2850	2850	130	20000	-

MN = 3.5 Nm (PN = 1.1 kW)



M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
3.5	1.1	1130	9.2	0.97	2.64	IE4	**BG05-../S4E06LA4**	56	189	375	1130	1360	6.6	7.6	9.2	9.2	9.2	8.5	420	-
3.5	1.1	880	11.8	0.85	3.38	IE4	**BG05-../S4E06LA4**	44	147	295	880	1060	8.4	9.8	11.8	11.8	11.8	8.5	460	-
3.5	1.1	490	21	0.8	6.09	IE4	**BG05-../S4E06LA4**	24.5	82	164	490	590	15.2	17.6	21	21	21	8.5	480	-
3.5	1.1	790	13.2	1.5	3.78	IE4	**BG06-../S4E06LA4**	39.5	132	260	790	950	9.4	10.9	13.2	13.2	13.2	9.5	520	-
3.5	1.1	660	15.8	1.4	4.54	IE4	**BG06-../S4E06LA4**	33	110	220	660	790	11.3	13.1	15.8	15.8	15.8	9.5	530	-
3.5	1.1	500	20.5	1.2	5.96	IE4	**BG06-../S4E06LA4**	25	83	167	500	600	14.9	17.2	20.5	20.5	20.5	9.5	570	-
3.5	1.1	425	24.5	1.1	7.01	IE4	**BG06-../S4E06LA4**	21	71	142	425	510	17.5	20	24.5	24.5	24.5	9.5	580	-
3.5	1.1	355	29	0.95	8.39	IE4	**BG06-../S4E06LA4**	17.5	59	119	355	425	20.5	24	29	29	29	9.5	600	-
3.5	1.1	315	32.5	0.91	9.38	IE4	**BG06-../S4E06LA4**	15.5	53	106	315	380	23	27	32.5	32.5	32.5	9.5	640	-
3.5	1.1	290	35.5	0.86	10.24	IE4	**BG06-../S4E06LA4**	14.5	48.5	97	290	350	25.5	29.5	35.5	35.5	35.5	9.5	640	-
3.5	1.1	265	39	0.81	11.28	IE4	**BG06-../S4E06LA4**	13	44	88	265	315	28	32.5	39	39	39	9.5	670	-

MN = 3.5 Nm (PN = 1.1 kW)

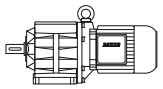


M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
3.5	1.1	250	41.5	2.5	11.92	IE4	**BG10-../S4E06LA4**	12.5	41.5	83	250	300	29.5	34.5	41.5	41.5	41.5	13	1030	1440
3.5	1.1	225	46	2.4	13.21	IE4	**BG10-../S4E06LA4**	11	37.5	75	225	270	33	38	46	46	46	13	1070	1490
3.5	1.1	205	51	2.2	14.58	IE4	**BG10-../S4E06LA4**	10	34	68	205	245	36	42	51	51	51	13	1100	1540
3.5	1.1	185	56	2.1	16.15	IE4	**BG10-../S4E06LA4**	9.2	30.5	61	185	220	40	46.5	56	56	56	13	1140	1590
3.5	1.1	162	64	1.9	18.51	IE4	**BG10-../S4E06LA4**	8.1	27	54	162	194	46	53	64	64	64	13	1210	1690
3.5	1.1	146	71	1.7	20.51	IE4	**BG10-../S4E06LA4**	7.3	24	48.5	146	175	51	59	71	71	71	13	1290	1800
3.5	1.1	136	77	1.6	22.04	IE4	**BG10-../S4E06LA4**	6.8	22.5	45	136	163	55	63	77	77	77	13	1330	1860
3.5	1.1	122	85	1.4	24.42	IE4	**BG10-../S4E06LA4**	6.1	20	40.5	122	147	61	70	85	85	85	13	1410	1970
3.5	1.1	114	91	1.3	26.26	IE4	**BG10-../S4E06LA4**	5.7	19	38	114	137	65	76	91	91	91	13	1460	2000
3.5	1.1	103	101	1.2	29.09	IE4	**BG10-../S4E06LA4**	5.1	17	34	103	123	72	84	101	101	101	13	1540	2150
3.5	1.1	95	110	1.1	31.52	IE4	**BG10-../S4E06LA4**	4.7	15.5	31.5	95	114	78	91	110	110	110	13	1600	2200
3.5	1.1	85	122	0.98	34.92	IE4	**BG10-../S4E06LA4**	4.2	14	28.5	85	103	87	101	122	122	122	13	1690	2350
3.5	1.1	75	138	0.86	39.7	IE4	**BG10-../S4E06LA4**	3.7	12.5	25	75	90	99	115	138	138	138	13	1780	2450
3.5	1.1	110	94	1.6	27.08	IE4	**BG15-../S4E06LA4**	5.5	18	36.5	110	132	67	78	94	94	94	13	3000	6000
3.5	1.1	99	105	1.4	30.08	IE4	**BG15-../S4E06LA4**	4.9	16.5	33	99	119	75	87	105	105	105	13	3000	6000
3.5	1.1	87	119	1.3	34.2	IE4	**BG15-../S4E06LA4**	4.3	14.5	29	87	105	85	99	119	119	119	13	3000	6000
3.5	1.1	79	132	1.1	37.9	IE4	**BG15-../S4E06LA4**	3.9	13	26	79	94	94	109	132	132	132	13	3000	6000
3.5	1.1	173	60	3	17.31	IE4	**BG20-../S4E06LA4**	8.6	28.5	57	173	205	43	50	60	60	60	16	3200	-
3.5	1.1	150	69	2.8	19.95	IE4	**BG20-../S4E06LA4**	7.5	25	50	150	180	49.5	57	69	69	69	16	3350	-
3.5	1.1	135	77	2.6	22.16	IE4	**BG20-../S4E06LA4**	6.7	22.5	45	135	162	55	64	77	77	77	16	3500	-
3.5	1.1	129	81	2.5	23.22	IE4	**BG20-../S4E06LA4**	6.4	21.5	43	129	155	58	67	81	81	81	16	3550	-
3.5	1.1	116	90	2.2	25.79	IE4	**BG20-../S4E06LA4**	5.8	19	38.5	116	139	64	74	90	90	90	16	3700	-
3.5	1.1	107	97	2.1	27.85	IE4	**BG20-../S4E06LA4**	5.3	17.5	35.5	107	129	69	80	97	97	97	16	3800	-
3.5	1.1	96	108	1.8	30.94	IE4	**BG20-../S4E06LA4**	4.8	16	32	96	116	77	89	108	108	108	16	4000	-
3.5	1.1	90	116	1.7	33.33	IE4	**BG20-../S4E06LA4**	4.5	15	30	90	108	83	96	116	116	116	16	4100	-
3.5	1.1	81	129	1.5	37.02	IE4	**BG20-../S4E06LA4**	4	13.5	27	81	97	92	107	129	129	129	16	4300	-
3.5	1.1	71	146	1.4	41.76	IE4	**BG20-../S4E06LA4**	3.5	11.5	23.5	71	86	104	121	146	146	146	16	4500	-
3.5	1.1	64	162	1.2	46.38	IE4	**BG20-../S4E06LA4**	3.2	10.5	21.5	64	77	115	134	162	162	162	16	4700	-
3.5	1.1	62	167	1.2	47.92	IE4	**BG20-../S4E06LA4**	3.1	10	20.5	62	75	119	138	167	167	167	16	4750	-
3.5	1.1	56	186	1.1	53.22	IE4	**BG20-../S4E06LA4**	2.8	9.3	18.5	56	67	133	154	186	186	186	16	4950	-
3.5	1.1	50	205	0.97	59.07	IE4	**BG20-../S4E06LA4**	2.5	8.4	16.5	50	60	147	171	205	205	205	16	5000	-
3.5	1.1	45.5	225	0.87	65.62	IE4	**BG20-../S4E06LA4**	2.2	7.6	15	45.5	54	164	190	225	225	225	16	5000	-
3.5	1.1	51	205	0.84	58.58	IE4	**BG20Z-../S4E06LA4**	2.5	8.5	17	51	61	146	169	205	205	205	16	5000	-
3.5	1.1	44	235	0.85	67.53	IE4	**BG20Z-../S4E06LA4**	2.2	7.4	14.5	44	53	168	195	235	235	235	16	5000	-
3.5	1.1	106	98	3	28.24	IE4	**BG30-../S4E06LA4**	5.3	17.5	35	106	127	70	81	98	98	98	20	5100	-
3.5	1.1	100	104	2.9	29.83	IE4	**BG30-../S4E06LA4**	5	16.5	33.5	100	120	74	86	104	104	104	20	5200	-
3.5	1.1	90	115	2.6	33.09	IE4	**BG30-../S4E06LA4**	4.5	15	30	90	108	82	95	115	115	115	20	5400	-
3.5	1.1	85	123	2.4	35.17	IE4	**BG30-../S4E06LA4**	4.2	14	28	85	102	87	101	123	123	123	20	5500	-
3.5	1.1	76	136	2.2	39.02	IE4	**BG30-../S4E06LA4**	3.8	12.5	25.5	76	92	97	113	136	136	136	20	5800	-
3.5	1.1	70	148	2	42.46	IE4	**BG30-../S4E06LA4**	3.5	11.5	23.5	70	84	106	123	148	148	148	20	5900	-
3.5	1.1	63	164	1.8	47.11	IE4	**BG30-../S4E06LA4**	3.1	10.5	21	63	76	117	136	164	164	164	20	6000	-
3.5	1.1	57	183	1.6	52.44	IE4	**BG30-../S4E06LA4**	2.8	9.5	19	57	68	131	152	183	183	183	20	6000	-
3.5	1.1	51	200	1.5	58.18	IE4	**BG30-../S4E06LA4**	2.5	8.5	17	51	61	145	168	200	200	200	20	6000	-
3.5	1.1	49	210	1.4	60.79	IE4	**BG30-../S4E06LA4**	2.4	8.2	16	49	59	151	176	210	210	210	20	6000	-
3.5	1.1	44	235	1.3	67.44	IE4	**BG30-../S4E06LA4**	2.2	7.4	14.5	44	53	168	195	235	235	235	20	6000	-
3.5	1.1	45.5	230	1.2	65.79	IE4	**BG30Z-../S4E06LA4**	2.2	7.5	15	45.5	54	164	190	230	230	230	22	6000	-
3.5	1.1	40.5	255	1.2	73.51	IE4	**BG30Z-../S4E06LA4**	2	6.8	13.5	40.5	48.5	183	210	255	255	255	22	6000	-
3.5	1.1	36.5	285	1.1	81.55	IE4	**BG30Z-../S4E06LA4**	1.8	6.1	12	36.5	44	200	235	285	285	285	22	6000	-
3.5	1.1	34.5	300	1	86.13	IE4	**BG30Z-../S4E06LA4**	1.7	5.8	11.5	34.5	41.5	215	245	300	300	300	22	6000	-
3.5	1.1	31	330	0.9	95.55	IE4	**BG30Z-../S4E06LA4**	1.5	5.2	10	31	37.5	235	275	330	330	330	22	6000	-
3.5	1.1	44	235	1.8	67.74	IE4	**BG40Z-../S4E06LA4**	2.2	7.3	14.5	44	53	169	196	235	235	235	38	7000	-
3.5	1.1	39.5	260	1.6	75.19	IE4	**BG40Z-../S4E06LA4**	1.9	6.6	13	39.5	47.5	187	215	260	260	260	38	7000	-
3.5	1.1	36.5	285	1.5	82	IE4	**BG40Z-../S4E06LA4**	1.8	6	12	36.5	43.5	205	235	285	285	285	38	7000	-
3.5	1.1	32.5	315	1.3	91.02	IE4	**BG40Z-../S4E06LA4**	1.6	5.4	10.5	32.5	39.5	225	260	315	315	315	38	7000	-
3.5	1.1	30.5	335	1.3	96.86	IE4	**BG40Z-../S4E06LA4**	1.5	5.1	10	30.5	37	240	280	335	335	335	38	7000	-
3.5	1.1	27.5	375	1.1	107.5	IE4	**BG40Z-../S4E06LA4**	1.3	4.6	9.3	27.5	33	265	310	375	375	375	38	7000	-
3.5	1.1	24.5	420	1	121.3	IE4	**BG40Z-../S4E06LA4**	1.2	4.1	8.2	24.5	29.5	300	350	420	420	420	38	7000	-
3.5	1.1	22	470	0.9	134.6	IE4	**BG40Z-../S4E06LA4**	1.1	3.7	7.4	22	26.5	335	390	470	470	470	38	7000	-
3.5	1.1	21	490	0.86	141.4	IE4	**BG40Z-../S4E06LA4**	1	3.5	7	21	25	350	410	490	490	490	38	7000	-
3.5	1.1	41.5	250	2.5	71.97	IE4	**BG50Z-../S4E06LA4**	2	6.9	13.5	41.5	50	179	205	250	250	250	47	10000	-
3.5	1.1	37.5	275	2.3	79.78	IE4	**BG50Z-../S4E06LA4**	1.8	6.2	12.5	37.5	45	199	230	275	275	275	47	10000	-
3.5	1.1	31	330	1.9	95.58	IE4	**BG50Z-../S4E06LA4**	1.5	5.2	10	31	37.5	235	275	330	330	330	47	10000	-
3.5	1.1	28	370	1.7	106	IE4	**BG50Z-../S4E06LA4**	1.4	4.7	9.4	28	33.5	265	305	370	370	370	47	10000	-
3.5	1.1	23	450	1.4	128.9	IE4	**BG50Z-../S4E06LA4**	1.1	3.8	7.7	23	27.5	320	370	450	450	450	47	10000	-
3.5	1.1	20.5	500	1.3	142.9	IE4	**BG50Z-../S4E06LA4**	1	3.4	6.9	20.5	25	355	410	500	500	500	47	10000	-
3.5	1.1	18	570	1.1	164.9	IE4	**BG50Z-../S4E06LA4**	0.9	3	6	18	21.5	410	475	570	570	570	47	10000	-
3.5	1.1	16	630	0.98	182.8	IE4	**BG50Z-../S4E06LA4**	0.8	2.7	5.4	16	19.5	455	530	630	630	630	47	10000	-
3.5	1.1	14.5	710	0.88	204.7	IE4	**BG50Z-../S4E06LA4**	0.7	2.4	4.8	14.5	17.5	510	590	710	710	710	47	10000	-
3.5	1.1	10.5	960	1.3	276.2	IE4	**BG60G20-../S4E06LA4**	0.5	1.8	3.6	10.5	13	690	800	960	960	960	100	16000	-
3.5	1.1	9.8	1070	1.2	306.1	IE4	**BG60G20-../S4E06LA4**	0.49	1.6	3.2	9.8	11.5	760	880	1070	1070	1070	100	16000	-
3.5	1.1	8.9	1170	1.1	334.3	IE4	**BG60G20-../S4E06LA4**	0.44	1.4	2.9	8.9	10.5	830	960	1170	1170	1170	100	16000	-
3.5	1.1	8	1290	1	370.5	IE4	**BG60G20-../S4E06LA4**	0.4	1.3	2.6	8	9.7	920	1070	1290	1290	1290	100	16000	-
3.5	1.1	6.8	1530	0.85	437.3	IE4	**BG60G20-../S4E06LA4**	0.34	1.1	2.2	6.8	8.2	1090	1260	1530	1530	1530	100	16000	-
3.5	1.1	11.5	890	2.8	255.5	IE4	**BG70G20-../S4E06LA4**	0.55	1.9	3.9	11.5	14	630	740	890	890	890	130	20000	-
3.5	1.1	10.5	960	2.6	276.7	IE4	**BG70G20-../S4E06LA4**	0.5	1.8	3.6	10.5	13	690	800	960	960	960	130	20000	-

BG-series helical-geared motors

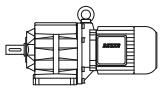
Selection helical-geared motors - n_1 = 3000 $^1/_{min}$

MN = 3.5 Nm (PN = 1.1 kW)



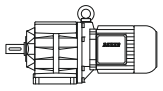
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
3.5	1.1	9.1	1140	2.2	328.4	IE4	**BG70G20-../S4E06LA4**	0.45	1.5	3	9.1	10.5	820	950	1140	1140	1140	130	20000	-
3.5	1.1	7.7	1350	1.8	387.6	IE4	**BG70G20-../S4E06LA4**	0.38	1.2	2.5	7.7	9.2	960	1120	1350	1350	1350	130	20000	-
3.5	1.1	7.1	1460	1.7	417.8	IE4	**BG70G20-../S4E06LA4**	0.35	1.1	2.3	7.1	8.6	1040	1210	1460	1460	1460	130	20000	-
3.5	1.1	6	1730	1.4	495.9	IE4	**BG70G20-../S4E06LA4**	0.3	1	2	6	7.2	1230	1430	1730	1730	1730	130	20000	-
3.5	1.1	5.1	2000	1.2	577.3	IE4	**BG70G20-../S4E06LA4**	0.25	0.85	1.7	5.1	6.2	1440	1670	2000	2000	2000	130	20000	-
3.5	1.1	4.5	2300	1.1	665.8	IE4	**BG70G20-../S4E06LA4**	0.22	0.75	1.5	4.5	5.4	1660	1930	2300	2300	2300	130	20000	-
3.5	1.1	3.7	2750	0.9	790.2	IE4	**BG70G20-../S4E06LA4**	0.18	0.6	1.2	3.7	4.5	1970	2250	2750	2750	2750	130	20000	-
3.5	1.1	3.4	3050	0.81	877.6	IE4	**BG70G20-../S4E06LA4**	0.17	0.55	1.1	3.4	4.1	2150	2500	3050	3050	3050	130	20000	-

MN = 5 Nm (PN = 1.55 kW)



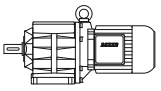
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
5	1.55	1060	14.1	1.3	2.82	IE5	**BG06-../S5E08MA4**	53	177	350	1060	1270	14.1	14.1	14.1	14.1	14.1	16	470	-
5	1.55	790	18.8	1.1	3.78	IE5	**BG06-../S5E08MA4**	39.5	132	260	790	950	18.8	18.8	18.8	18.8	18.8	16	520	-
5	1.55	660	22.5	0.97	4.54	IE5	**BG06-../S5E08MA4**	33	110	220	660	790	22.5	22.5	22.5	22.5	22.5	16	530	-
5	1.55	500	29.5	0.81	5.96	IE5	**BG06-../S5E08MA4**	25	83	167	500	600	29.5	29.5	29.5	29.5	29.5	16	570	-
5	1.55	560	26.5	2.8	5.34	IE5	**BG10-../S5E08MA4**	28	93	187	560	670	26.5	26.5	26.5	26.5	26.5	16	620	910
5	1.55	440	33.5	2.4	6.78	IE5	**BG10-../S5E08MA4**	22	73	147	440	530	33.5	33.5	33.5	33.5	33.5	16	660	920
5	1.55	435	34	2.6	6.89	IE5	**BG10-../S5E08MA4**	21.5	72	145	435	520	34	34	34	34	34	16	850	1200
5	1.55	390	38	2.3	7.63	IE5	**BG10-../S5E08MA4**	19.5	65	131	390	470	38	38	38	38	38	16	900	1250
5	1.55	370	40	2.2	8.07	IE5	**BG10-../S5E08MA4**	18.5	61	123	370	445	40	40	40	40	40	16	660	920
5	1.55	320	46.5	2.1	9.33	IE5	**BG10-../S5E08MA4**	16	53	107	320	385	46.5	46.5	46.5	46.5	46.5	16	950	1330
5	1.55	290	51	1.9	10.34	IE5	**BG10-../S5E08MA4**	14.5	48	96	290	345	51	51	51	51	51	16	1000	1400
5	1.55	250	59	1.8	11.92	IE5	**BG10-../S5E08MA4**	12.5	41.5	83	250	300	59	59	59	59	59	16	1030	1440
5	1.55	225	66	1.7	13.21	IE5	**BG10-../S5E08MA4**	11	37.5	75	225	270	66	66	66	66	66	16	1070	1490
5	1.55	205	72	1.6	14.58	IE5	**BG10-../S5E08MA4**	10	34	68	205	245	72	72	72	72	72	16	1100	1540
5	1.55	185	80	1.4	16.15	IE5	**BG10-../S5E08MA4**	9.2	30.5	61	185	220	80	80	80	80	80	16	1140	1590
5	1.55	162	92	1.3	18.51	IE5	**BG10-../S5E08MA4**	8.1	27	54	162	194	92	92	92	92	92	16	1210	1690
5	1.55	146	102	1.2	20.51	IE5	**BG10-../S5E08MA4**	7.3	24	48.5	146	175	102	102	102	102	102	16	1290	1800
5	1.55	136	110	1.1	22.04	IE5	**BG10-../S5E08MA4**	6.8	22.5	45	136	163	110	110	110	110	110	16	1330	1860
5	1.55	122	122	0.98	24.42	IE5	**BG10-../S5E08MA4**	6.1	20	40.5	122	147	122	122	122	122	122	16	1410	1970
5	1.55	114	131	0.91	26.26	IE5	**BG10-../S5E08MA4**	5.7	19	38	114	137	131	131	131	131	131	16	1460	2000
5	1.55	103	145	0.83	29.09	IE5	**BG10-../S5E08MA4**	5.1	17	34	103	123	145	145	145	145	145	16	1540	2150
5	1.55	110	135	1.1	27.08	IE5	**BG15-../S5E08MA4**	5.5	18	36.5	110	132	135	135	135	135	135	16	3000	6000
5	1.55	99	150	1	30.08	IE5	**BG15-../S5E08MA4**	4.9	16.5	33	99	119	150	150	150	150	150	16	3000	6000
5	1.55	87	171	0.88	34.2	IE5	**BG15-../S5E08MA4**	4.3	14.5	29	87	105	171	171	171	171	171	16	3000	6000
5	1.55	360	41	2.9	8.29	IE5	**BG20-../S5E08MA4**	18	60	120	360	430	41	41	41	41	41	19	2250	-
5	1.55	310	48	2.5	9.65	IE5	**BG20-../S5E08MA4**	15.5	51	103	310	370	48	48	48	48	48	19	2250	-
5	1.55	280	52	2.9	10.54	IE5	**BG20-../S5E08MA4**	14	47	94	280	340	52	52	52	52	52	19	2700	-
5	1.55	255	58	2.7	11.71	IE5	**BG20-../S5E08MA4**	12.5	42.5	85	255	305	58	58	58	58	58	19	2800	-
5	1.55	225	66	2.5	13.21	IE5	**BG20-../S5E08MA4**	11	37.5	75	225	270	66	66	66	66	66	19	2900	-
5	1.55	200	73	2.3	14.67	IE5	**BG20-../S5E08MA4**	10	34	68	200	245	73	73	73	73	73	19	3050	-
5	1.55	192	77	2.3	15.58	IE5	**BG20-../S5E08MA4**	9.6	32	64	192	230	77	77	77	77	77	19	3100	-
5	1.55	173	86	2.1	17.31	IE5	**BG20-../S5E08MA4**	8.6	28.5	57	173	205	86	86	86	86	86	19	3200	-
5	1.55	150	99	2	19.95	IE5	**BG20-../S5E08MA4**	7.5	25	50	150	180	99	99	99	99	99	19	3350	-
5	1.55	135	110	1.8	22.16	IE5	**BG20-../S5E08MA4**	6.7	22.5	45	135	162	110	110	110	110	110	19	3500	-
5	1.55	129	116	1.7	23.22	IE5	**BG20-../S5E08MA4**	6.4	21.5	43	129	155	116	116	116	116	116	19	3550	-
5	1.55	116	128	1.6	25.79	IE5	**BG20-../S5E08MA4**	5.8	19	38.5	116	139	128	128	128	128	128	19	3700	-
5	1.55	107	139	1.4	27.85	IE5	**BG20-../S5E08MA4**	5.3	17.5	35.5	107	129	139	139	139	139	139	19	3800	-
5	1.55	96	154	1.3	30.94	IE5	**BG20-../S5E08MA4**	4.8	16	32	96	116	154	154	154	154	154	19	4000	-
5	1.55	90	166	1.2	33.33	IE5	**BG20-../S5E08MA4**	4.5	15	30	90	108	166	166	166	166	166	19	4100	-
5	1.55	81	185	1.1	37.02	IE5	**BG20-../S5E08MA4**	4	13.5	27	81	97	185	185	185	185	185	19	4300	-
5	1.55	71	205	0.96	41.76	IE5	**BG20-../S5E08MA4**	3.5	11.5	23.5	71	86	205	205	205	205	205	19	4500	-
5	1.55	64	230	0.86	46.38	IE5	**BG20-../S5E08MA4**	3.2	10.5	21.5	64	77	230	230	230	230	230	19	4700	-
5	1.55	62	235	0.83	47.92	IE5	**BG20-../S5E08MA4**	3.1	10	20.5	62	75	235	235	235	235	235	19	4750	-
5	1.55	150	99	3	19.99	IE5	**BG30-../S5E08MA4**	7.5	25	50	150	180	99	99	99	99	99	23	4200	-
5	1.55	135	110	2.7	22.18	IE5	**BG30-../S5E08MA4**	6.7	22.5	45	135	162	110	110	110	110	110	23	4600	-
5	1.55	117	127	2.4	25.45	IE5	**BG30-../S5E08MA4**	5.8	19.5	39	117	141	127	127	127	127	127	23	4850	-
5	1.55	106	141	2.1	28.24	IE5	**BG30-../S5E08MA4**	5.3	17.5	35	106	127	141	141	141	141	141	23	5100	-
5	1.55	100	149	2	29.83	IE5	**BG30-../S5E08MA4**	5	16.5	33.5	100	120	149	149	149	149	149	23	5200	-
5	1.55	90	165	1.8	33.09	IE5	**BG30-../S5E08MA4**	4.5	15	30	90	108	165	165	165	165	165	23	5400	-
5	1.55	85	175	1.7	35.17	IE5	**BG30-../S5E08MA4**	4.2	14	28	85	102	175	175	175	175	175	23	5500	-
5	1.55	76	195	1.5	39.02	IE5	**BG30-../S5E08MA4**	3.8	12.5	25.5	76	92	195	195	195	195	195	23	5800	-
5	1.55	70	210	1.4	42.46	IE5	**BG30-../S5E08MA4**	3.5	11.5	23.5	70	84	210	210	210	210	210	23	5900	-
5	1.55	63	235	1.3	47.11	IE5	**BG30-../S5E08MA4**	3.1	10.5	21	63	76	235	235	235	235	235	23	6000	-
5	1.55	57	260	1.1	52.44	IE5	**BG30-../S5E08MA4**	2.8	9.5	19	57	68	260	260	260	260	260	23	6000	-
5	1.55	51	290	1	58.18	IE5	**BG30-../S5E08MA4**	2.5	8.5	17	51	61	290	290	290	290	290	23	6000	-
5	1.55	49	300	0.99	60.79	IE5	**BG30-../S5E08MA4**	2.4	8.2	16	49	59	300	300	300	300	300	23	6000	-
5	1.55	44	335	0.89	67.44	IE5	**BG30-../S5E08MA4**	2.2	7.4	14.5	44	53	335	335	335	335	335	23	6000	-
5	1.55	45.5	325	0.81	65.79	IE5	**BG30Z-../S5E08MA4**	2.2	7.5	15	45.5	54	325	325	325	325	325	26	6000	-
5	1.55	40.5	365	0.82	73.51	IE5	**BG30Z-../S5E08MA4**	2	6.8	13.5	40.5	48.5	365	365	365	365	365	26	6000	-

MN = 5 Nm (PN = 1.55 kW)



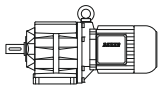
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
5	1.55	102	146	2.9	29.34	IE5	**BG40-../S5E08MA4**	5.1	17	34	102	122	146	146	146	146	146	38	6800	-
5	1.55	92	162	2.6	32.57	IE5	**BG40-../S5E08MA4**	4.6	15	30.5	92	110	162	162	162	162	162	38	7000	-
5	1.55	87	171	2.5	34.2	IE5	**BG40-../S5E08MA4**	4.3	14.5	29	87	105	171	171	171	171	171	38	7000	-
5	1.55	79	189	2.2	37.96	IE5	**BG40-../S5E08MA4**	3.9	13	26	79	94	189	189	189	189	189	38	7000	-
5	1.55	74	200	2.1	40.19	IE5	**BG40-../S5E08MA4**	3.7	12	24.5	74	89	200	200	200	200	200	38	7000	-
5	1.55	67	220	1.9	44.62	IE5	**BG40-../S5E08MA4**	3.3	11	22	67	80	220	220	220	220	220	38	7000	-
5	1.55	62	240	1.8	48.36	IE5	**BG40-../S5E08MA4**	3.1	10	20.5	62	74	240	240	240	240	240	38	7000	-
5	1.55	55	265	1.6	53.69	IE5	**BG40-../S5E08MA4**	2.7	9.3	18.5	55	67	265	265	265	265	265	38	7000	-
5	1.55	50	295	1.4	59.64	IE5	**BG40-../S5E08MA4**	2.5	8.3	16.5	50	60	295	295	295	295	295	38	7000	-
5	1.55	45	330	1.3	66.2	IE5	**BG40-../S5E08MA4**	2.2	7.5	15	45	54	330	330	330	330	330	38	7000	-
5	1.55	44	335	1.3	67.74	IE5	**BG40Z-../S5E08MA4**	2.2	7.3	14.5	44	53	335	335	335	335	335	42	7000	-
5	1.55	39.5	375	1.1	75.19	IE5	**BG40Z-../S5E08MA4**	1.9	6.6	13	39.5	47.5	375	375	375	375	375	42	7000	-
5	1.55	36.5	410	1	82	IE5	**BG40Z-../S5E08MA4**	1.8	6	12	36.5	43.5	410	410	410	410	410	42	7000	-
5	1.55	32.5	455	0.93	91.02	IE5	**BG40Z-../S5E08MA4**	1.6	5.4	10.5	32.5	39.5	455	455	455	455	455	42	7000	-
5	1.55	30.5	480	0.88	96.86	IE5	**BG40Z-../S5E08MA4**	1.5	5.1	10	30.5	37	480	480	480	480	480	42	7000	-
5	1.55	71	210	3	42	IE5	**BG50-../S5E08MA4**	3.5	11.5	23.5	71	85	210	210	210	210	210	46	10000	-
5	1.55	63	235	2.7	47.02	IE5	**BG50-../S5E08MA4**	3.1	10.5	21	63	76	235	235	235	235	235	46	10000	-
5	1.55	57	260	2.4	52.12	IE5	**BG50-../S5E08MA4**	2.8	9.5	19	57	69	260	260	260	260	260	46	10000	-
5	1.55	50	295	2.1	59.42	IE5	**BG50-../S5E08MA4**	2.5	8.4	16.5	50	60	295	295	295	295	295	46	10000	-
5	1.55	45.5	325	1.9	65.86	IE5	**BG50-../S5E08MA4**	2.2	7.5	15	45.5	54	325	325	325	325	325	46	10000	-
5	1.55	41.5	355	1.8	71.97	IE5	**BG50Z-../S5E08MA4**	2	6.9	13.5	41.5	50	355	355	355	355	355	51	10000	-
5	1.55	37.5	395	1.6	79.78	IE5	**BG50Z-../S5E08MA4**	1.8	6.2	12.5	37.5	45	395	395	395	395	395	51	10000	-
5	1.55	31	475	1.3	95.58	IE5	**BG50Z-../S5E08MA4**	1.5	5.2	10	31	37.5	475	475	475	475	475	51	10000	-
5	1.55	28	530	1.2	106	IE5	**BG50Z-../S5E08MA4**	1.4	4.7	9.4	28	33.5	530	530	530	530	530	51	10000	-
5	1.55	23	640	0.98	128.9	IE5	**BG50Z-../S5E08MA4**	1.1	3.8	7.7	23	27.5	640	640	640	640	640	51	10000	-
5	1.55	20.5	710	0.88	142.9	IE5	**BG50Z-../S5E08MA4**	1	3.4	6.9	20.5	25	710	710	710	710	710	51	10000	-
5	1.55	32.5	455	2.6	91.09	IE5	**BG60Z-../S5E08MA4**	1.6	5.4	10.5	32.5	39.5	455	455	455	455	455	96	16000	-
5	1.55	29.5	500	2.4	101	IE5	**BG60Z-../S5E08MA4**	1.4	4.9	9.9	29.5	35.5	500	500	500	500	500	96	16000	-
5	1.55	25	590	2	119.2	IE5	**BG60Z-../S5E08MA4**	1.2	4.1	8.3	25	30	590	590	590	590	590	96	16000	-
5	1.55	22.5	660	1.8	132.1	IE5	**BG60Z-../S5E08MA4**	1.1	3.7	7.5	22.5	27	660	660	660	660	660	96	16000	-
5	1.55	18.5	790	1.5	158	IE5	**BG60Z-../S5E08MA4**	0.9	3.1	6.3	18.5	22.5	790	790	790	790	790	96	16000	-
5	1.55	17	870	1.4	175.1	IE5	**BG60Z-../S5E08MA4**	0.85	2.8	5.7	17	20.5	870	870	870	870	870	96	16000	-
5	1.55	14.5	1020	1.2	204.6	IE5	**BG60Z-../S5E08MA4**	0.7	2.4	4.8	14.5	17.5	1020	1020	1020	1020	1020	96	16000	-
5	1.55	13	1130	1.1	226.7	IE5	**BG60Z-../S5E08MA4**	0.65	2.2	4.4	13	15.5	1130	1130	1130	1130	1130	96	16000	-
5	1.55	12	1230	0.97	247.7	IE5	**BG60Z-../S5E08MA4**	0.6	2	4	12	14.5	1230	1230	1230	1230	1230	96	16000	-
5	1.55	10.5	1370	0.87	274.5	IE5	**BG60Z-../S5E08MA4**	0.5	1.8	3.6	10.5	13	1370	1370	1370	1370	1370	96	16000	-
5	1.55	10.5	1380	0.94	276.2	IE5	**BG60G20-../S5E08MA4**	0.5	1.8	3.6	10.5	13	1380	1380	1380	1380	1380	103	16000	-
5	1.55	9.8	1530	0.85	306.1	IE5	**BG60G20-../S5E08MA4**	0.49	1.6	3.2	9.8	11.5	1530	1530	1530	1530	1530	103	16000	-
5	1.55	18	810	2.8	163.8	IE5	**BG70Z-../S5E08MA4**	0.9	3	6.1	18	21.5	810	810	810	810	810	136	20000	-
5	1.55	15	970	2.4	194.4	IE5	**BG70Z-../S5E08MA4**	0.75	2.5	5.1	15	18.5	970	970	970	970	970	136	20000	-
5	1.55	14	1050	2.2	210.5	IE5	**BG70Z-../S5E08MA4**	0.7	2.3	4.7	14	17	1050	1050	1050	1050	1050	136	20000	-
5	1.55	12	1240	1.8	249.8	IE5	**BG70Z-../S5E08MA4**	0.6	2	4	12	14	1240	1240	1240	1240	1240	136	20000	-
5	1.55	11.5	1270	2	255.5	IE5	**BG70G20-../S5E08MA4**	0.55	1.9	3.9	11.5	14	1270	1270	1270	1270	1270	133	20000	-
5	1.55	10.5	1380	1.8	276.7	IE5	**BG70G20-../S5E08MA4**	0.5	1.8	3.6	10.5	13	1380	1380	1380	1380	1380	133	20000	-
5	1.55	9.1	1640	1.5	328.4	IE5	**BG70G20-../S5E08MA4**	0.45	1.5	3	9.1	10.5	1640	1640	1640	1640	1640	133	20000	-
5	1.55	7.7	1930	1.3	387.6	IE5	**BG70G20-../S5E08MA4**	0.38	1.2	2.5	7.7	9.2	1930	1930	1930	1930	1930	133	20000	-
5	1.55	7.1	2050	1.2	417.8	IE5	**BG70G20-../S5E08MA4**	0.35	1.1	2.3	7.1	8.6	2050	2050	2050	2050	2050	133	20000	-
5	1.55	6	2450	1	495.9	IE5	**BG70G20-../S5E08MA4**	0.3	1	2	6	7.2	2450	2450	2450	2450	2450	133	20000	-
5	1.55	5.1	2850	0.87	577.3	IE5	**BG70G20-../S5E08MA4**	0.25	0.85	1.7	5.1	6.2	2850	2850	2850	2850	2850	133	20000	-
5	1.55	9.5	1570	2.9	314	IE5	**BG80G40-../S5E08MA4**	0.47	1.5	3.1	9.5	11	1570	1570	1570	1570	1570	215	26000	-
5	1.55	8.3	1800	2.6	360	IE5	**BG80G40-../S5E08MA4**	0.41	1.3	2.7	8.3	10	1800	1800	1800	1800	1800	215	26000	-
5	1.55	7.5	1990	2.3	399.8	IE5	**BG80G40-../S5E08MA4**	0.37	1.2	2.5	7.5	9	1990	1990	1990	1990	1990	215	26000	-
5	1.55	6.8	2150	2.1	436.2	IE5	**BG80G40-../S5E08MA4**	0.34	1.1	2.2	6.8	8.2	2150	2150	2150	2150	2150	215	26000	-
5	1.55	6.1	2400	1.9	484.3	IE5	**BG80G40-../S5E08MA4**	0.3	1	2	6.1	7.4	2400	2400	2400	2400	2400	215	26000	-
5	1.55	5.2	2850	1.6	572	IE5	**BG80G40-../S5E08MA4**	0.26	0.85	1.7	5.2	6.2	2850	2850	2850	2850	2850	215	26000	-
5	1.55	4.5	3250	1.4	657.8	IE5	**BG80G40-../S5E08MA4**	0.22	0.75	1.5	4.5	5.4	3250	3250	3250	3250	3250	215	26000	-
5	1.55	4.1	3650	1.3	730.3	IE5	**BG80G40-../S5E08MA4**	0.2	0.65	1.3	4.1	4.9	3650	3650	3650	3650	3650	215	26000	-
5	1.55	3.6	4050	1.1	817.4	IE5	**BG80G40-../S5E08MA4**	0.18	0.6	1.2	3.6	4.4	4050	4050	4050	4050	4050	215	26000	-
5	1.55	3.3	4500	1	907.6	IE5	**BG80G40-../S5E08MA4**	0.16	0.55	1.1	3.3	3.9	4500	4500	4500	4500	4500	215	26000	-
5	1.55	2.8	5200	0.88	1042	IE5	**BG80G40-../S5E08MA4**	0.14	0.47	0.95	2.8	3.4	5200	5200	5200	5200	5200	215	26000	-
5	1.55	4.6	3200	2.9	644.7	IE5	**BG90G50-../S5E08MA4**	0.23	0.75	1.5	4.6	5.5	3200	3200	3200	3200	3200	324	65000	-
5	1.55	4.2	3550	2.6	714.2	IE5	**BG90G50-../S5E08MA4**	0.21	0.7	1.4	4.2	5	3550	3550	3550	3550	3550	324	65000	-
5	1.55	3.3	4400	2.1	883.7	IE5	**BG90G50-../S5E08MA4**	0.16	0.55	1.1	3.3	4	4400	4400	4400	4400	4400	324	65000	-
5	1.55	2.5	5800	1.6	1174	IE5	**BG90G50-../S5E08MA4**	0.12	0.42	0.85	2.5	3	5800	5800	5800	5800	5800	324	65000	-
5	1.55	2.3	6500	1.4	1301	IE5	**BG90G50-../S5E08MA4**	0.11	0.38	0.75	2.3	2.7	6500	6500	6500	6500	6500	324	65000	-
5	1.55	1.8	7900	1.2	1583	IE5	**BG90G50-../S5E08MA4**	0.09	0.31	0.6	1.8	2.2	7900	7900	7900	7900	7900	324	65000	-
5	1.55	1.7	8700	1	1756	IE5	**BG90G50-../S5E08MA4**	0.085	0.28	0.55	1.7	2	8700	8700	8700	8700	8700	324	65000	-
5	1.55	1.4	10100	0.91	2026	IE5	**BG90G50-../S5E08MA4**	0.07	0.24	0.49	1.4	1.7	10100	10100	10100	10100	10100	324	65000	-
5	1.55	2	7200	2.6	1444	IE5	**BG100G50-../S5E08MA4**	0.1	0.34	0.65	2	2.4	7200	7200	7200	7200	7200	512	90000	-
5	1.55	1.7	8300	2.2	1678	IE5	**BG100G50-../S5E08MA4**	0.085	0.29	0.55	1.7	2.1	8300	8300	8300	8300	8300	512	90000	-
5	1.55	1.6	9300	2	1867	IE5	**BG100G50-../S5E08MA4**	0.08	0.26	0.5	1.6	1.9	9300	9300	9300	9300	9300	512	90000	-
5	1.55	1.3	10700	1.7	2154	IE5	**BG100G50-../S5E08MA4**	0.065	0.23	0.46	1.3	1.6	10700	10700	10700	10700	10700	512	90000	-
5	1.55	1.1	13200	1.4	2656	IE5	**BG100G50-../S5E08MA4**	0.055	0.18	0.37	1.1	1.3	13200	13200	13200	13200	13200	512	90000	-
5	1.55	1	14700	1.3	2952	IE5	**BG100G50-../S5E08MA4**	0.05	0.16	0.33	1	1.2	14700	14700	14700	14700	14700	512	90000	-
5	1.55	0.9	16400	1.1	3286	IE5	**BG100G50-../S5E08MA4**	0.045	0.15	0.3	0.9	1	16400	16400	16400	16400	16400	512	90000	-
5	1.55	0.8	18200	1	3644	IE5	**BG100G50-../S5E08MA4**	0.041	0.13	0.27	0.8	0.95	18200	18200	18200	18200	18200	512	90000	-
5	1.55	0.65	21500	0.85	4366	IE5	**BG100G50-../S5E08MA4**	0.034	0.11	0.22	0.65	0.8	21500	21500	21500	21500	21500	512	90000	-

MN = 7 Nm (PN = 2.2 kW)



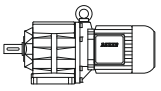
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
7	2.2	1060	19.7	0.91	2.82	IE4	**BG06-../S4E08MA4**	53	177	350	1060	1270	14.1	16.6	19.7	19.7	19.7	16	470	-
7	2.2	1060	19.7	0.91	2.82	IE5	**BG06-../S5E08LA4**	53	177	350	1060	1270	18.3	19.7	19.7	19.7	19.7	18	470	-
7	2.2	870	23.5	2.6	3.42	IE4	**BG10-../S4E08MA4**	43.5	146	290	870	1050	17.1	20	23.5	23.5	23.5	16	630	880
7	2.2	870	23.5	2.6	3.42	IE5	**BG10-../S5E08LA4**	43.5	146	290	870	1050	22	23.5	23.5	23.5	23.5	18	630	880
7	2.2	680	30.5	2.2	4.36	IE4	**BG10-../S4E08MA4**	34	114	225	680	820	21.5	25.5	30.5	30.5	30.5	16	650	910
7	2.2	680	30.5	2.2	4.36	IE5	**BG10-../S5E08LA4**	34	114	225	680	820	28	30.5	30.5	30.5	30.5	18	650	910
7	2.2	560	37	2	5.34	IE4	**BG10-../S4E08MA4**	28	93	187	560	670	26.5	31.5	37	37	37	16	620	910
7	2.2	560	37	2	5.34	IE5	**BG10-../S5E08LA4**	28	93	187	560	670	34.5	37	37	37	37	18	620	910
7	2.2	440	47	1.7	6.78	IE4	**BG10-../S4E08MA4**	22	73	147	440	530	33.5	40	47	47	47	16	660	920
7	2.2	440	47	1.7	6.78	IE5	**BG10-../S5E08LA4**	22	73	147	440	530	44	47	47	47	47	18	660	920
7	2.2	435	48	1.8	6.89	IE4	**BG10-../S4E08MA4**	21.5	72	145	435	520	34	40.5	48	48	48	16	850	1200
7	2.2	435	48	1.8	6.89	IE5	**BG10-../S5E08LA4**	21.5	72	145	435	520	44.5	48	48	48	48	18	850	1200
7	2.2	390	53	1.7	7.63	IE4	**BG10-../S4E08MA4**	19.5	65	131	390	470	38	45	53	53	53	16	900	1250
7	2.2	390	53	1.7	7.63	IE5	**BG10-../S5E08LA4**	19.5	65	131	390	470	49.5	53	53	53	53	18	900	1250
7	2.2	370	56	1.6	8.07	IE4	**BG10-../S4E08MA4**	18.5	61	123	370	445	40	47.5	56	56	56	16	660	920
7	2.2	370	56	1.6	8.07	IE5	**BG10-../S5E08LA4**	18.5	61	123	370	445	52	56	56	56	56	18	660	920
7	2.2	320	65	1.5	9.33	IE4	**BG10-../S4E08MA4**	16	53	107	320	385	46.5	55	65	65	65	16	950	1330
7	2.2	320	65	1.5	9.33	IE5	**BG10-../S5E08LA4**	16	53	107	320	385	60	65	65	65	65	18	950	1330
7	2.2	290	72	1.4	10.34	IE4	**BG10-../S4E08MA4**	14.5	48	96	290	345	51	61	72	72	72	16	1000	1400
7	2.2	290	72	1.4	10.34	IE5	**BG10-../S5E08LA4**	14.5	48	96	290	345	67	72	72	72	72	18	1000	1400
7	2.2	250	83	1.3	11.92	IE4	**BG10-../S4E08MA4**	12.5	41.5	83	250	300	59	70	83	83	83	16	1030	1440
7	2.2	250	83	1.3	11.92	IE5	**BG10-../S5E08LA4**	12.5	41.5	83	250	300	77	83	83	83	83	18	1030	1440
7	2.2	225	92	1.2	13.21	IE4	**BG10-../S4E08MA4**	11	37.5	75	225	270	66	77	92	92	92	16	1070	1490
7	2.2	225	92	1.2	13.21	IE5	**BG10-../S5E08LA4**	11	37.5	75	225	270	85	92	92	92	92	18	1070	1490
7	2.2	205	102	1.1	14.58	IE4	**BG10-../S4E08MA4**	10	34	68	205	245	72	86	102	102	102	16	1100	1540
7	2.2	205	102	1.1	14.58	IE5	**BG10-../S5E08LA4**	10	34	68	205	245	94	102	102	102	102	18	1100	1540
7	2.2	185	113	1	16.15	IE4	**BG10-../S4E08MA4**	9.2	30.5	61	185	220	80	95	113	113	113	16	1140	1590
7	2.2	185	113	1	16.15	IE5	**BG10-../S5E08LA4**	9.2	30.5	61	185	220	104	113	113	113	113	18	1140	1590
7	2.2	162	129	0.93	18.51	IE4	**BG10-../S4E08MA4**	8.1	27	54	162	194	92	109	129	129	129	16	1210	1690
7	2.2	162	129	0.93	18.51	IE5	**BG10-../S5E08LA4**	8.1	27	54	162	194	120	129	129	129	129	18	1210	1690
7	2.2	146	143	0.84	20.51	IE4	**BG10-../S4E08MA4**	7.3	24	48.5	146	175	102	121	143	143	143	16	1290	1800
7	2.2	146	143	0.84	20.51	IE5	**BG10-../S5E08LA4**	7.3	24	48.5	146	175	133	143	143	143	143	18	1290	1800
7	2.2	540	38	3	5.49	IE4	**BG20-../S4E08MA4**	27	91	182	540	650	27	32	38	38	38	19	2100	-
7	2.2	540	38	3	5.49	IE5	**BG20-../S5E08LA4**	27	91	182	540	650	35.5	38	38	38	38	20	2100	-
7	2.2	495	42	2.9	6.06	IE4	**BG20-../S4E08MA4**	24.5	82	165	495	590	30	35.5	42	42	42	19	2250	-
7	2.2	495	42	2.9	6.06	IE5	**BG20-../S5E08LA4**	24.5	82	165	495	590	39	42	42	42	42	20	2250	-
7	2.2	460	45	2.7	6.48	IE4	**BG20-../S4E08MA4**	23	77	154	460	550	32	38	45	45	45	19	2250	-
7	2.2	460	45	2.7	6.48	IE5	**BG20-../S5E08LA4**	23	77	154	460	550	42	45	45	45	45	20	2250	-
7	2.2	445	47	2.8	6.73	IE4	**BG20-../S4E08MA4**	22	74	148	445	530	33.5	39.5	47	47	47	19	2350	2100
7	2.2	445	47	2.8	6.73	IE5	**BG20-../S5E08LA4**	22	74	148	445	530	43.5	47	47	47	47	20	2350	2100
7	2.2	370	56	2.4	8.02	IE4	**BG20-../S4E08MA4**	18.5	62	124	370	445	40	47	56	56	56	19	2500	-
7	2.2	370	56	2.4	8.02	IE5	**BG20-../S5E08LA4**	18.5	62	124	370	445	52	56	56	56	56	20	2500	-
7	2.2	360	58	2.1	8.29	IE4	**BG20-../S4E08MA4**	18	60	120	360	430	41	48.5	58	58	58	19	2250	-
7	2.2	360	58	2.1	8.29	IE5	**BG20-../S5E08LA4**	18	60	120	360	430	53	58	58	58	58	20	2250	-
7	2.2	335	62	2.3	8.91	IE4	**BG20-../S4E08MA4**	16.5	56	112	335	400	44.5	52	62	62	62	19	2600	-
7	2.2	335	62	2.3	8.91	IE5	**BG20-../S5E08LA4**	16.5	56	112	335	400	57	62	62	62	62	20	2600	-
7	2.2	310	67	1.8	9.65	IE4	**BG20-../S4E08MA4**	15.5	51	103	310	370	48	56	67	67	67	19	2250	-
7	2.2	310	67	1.8	9.65	IE5	**BG20-../S5E08LA4**	15.5	51	103	310	370	62	67	67	67	67	20	2250	-
7	2.2	280	73	2.1	10.54	IE4	**BG20-../S4E08MA4**	14	47	94	280	340	52	62	73	73	73	19	2700	-
7	2.2	280	73	2.1	10.54	IE5	**BG20-../S5E08LA4**	14	47	94	280	340	68	73	73	73	73	20	2700	-
7	2.2	255	81	1.9	11.71	IE4	**BG20-../S4E08MA4**	12.5	42.5	85	255	305	58	69	81	81	81	19	2800	-
7	2.2	255	81	1.9	11.71	IE5	**BG20-../S5E08LA4**	12.5	42.5	85	255	305	76	81	81	81	81	20	2800	-
7	2.2	225	92	1.8	13.21	IE4	**BG20-../S4E08MA4**	11	37.5	75	225	270	66	77	92	92	92	19	2900	-
7	2.2	225	92	1.8	13.21	IE5	**BG20-../S5E08LA4**	11	37.5	75	225	270	85	92	92	92	92	20	2900	-
7	2.2	200	102	1.7	14.67	IE4	**BG20-../S4E08MA4**	10	34	68	200	245	73	86	102	102	102	19	3050	-
7	2.2	200	102	1.7	14.67	IE5	**BG20-../S5E08LA4**	10	34	68	200	245	95	102	102	102	102	20	3050	-
7	2.2	192	109	1.6	15.58	IE4	**BG20-../S4E08MA4**	9.6	32	64	192	230	77	91	109	109	109	19	3100	-
7	2.2	192	109	1.6	15.58	IE5	**BG20-../S5E08LA4**	9.6	32	64	192	230	101	109	109	109	109	20	3100	-
7	2.2	173	121	1.5	17.31	IE4	**BG20-../S4E08MA4**	8.6	28.5	57	173	205	86	102	121	121	121	19	3200	-
7	2.2	173	121	1.5	17.31	IE5	**BG20-../S5E08LA4**	8.6	28.5	57	173	205	112	121	121	121	121	20	3200	-
7	2.2	150	139	1.4	19.95	IE4	**BG20-../S4E08MA4**	7.5	25	50	150	180	99	117	139	139	139	19	3350	-
7	2.2	150	139	1.4	19.95	IE5	**BG20-../S5E08LA4**	7.5	25	50	150	180	129	139	139	139	139	20	3350	-
7	2.2	135	155	1.3	22.16	IE4	**BG20-../S4E08MA4**	6.7	22.5	45	135	162	110	130	155	155	155	19	3500	-
7	2.2	135	155	1.3	22.16	IE5	**BG20-../S5E08LA4**	6.7	22.5	45	135	162	144	155	155	155	155	20	3500	-
7	2.2	129	162	1.2	23.22	IE4	**BG20-../S4E08MA4**	6.4	21.5	43	129	155	116	136	162	162	162	19	3550	-
7	2.2	129	162	1.2	23.22	IE5	**BG20-../S5E08LA4**	6.4	21.5	43	129	155	150	162	162	162	162	20	3550	-
7	2.2	116	180	1.1	25.79	IE4	**BG20-../S4E08MA4**	5.8	19	38.5	116	139	128	152	180	180	180	19	3700	-
7	2.2	116	180	1.1	25.79	IE5	**BG20-../S5E08LA4**	5.8	19	38.5	116	139	167	180	180	180	180	20	3700	-
7	2.2	107	194	1	27.85	IE4	**BG20-../S4E08MA4**	5.3	17.5	35.5	107	129	139	164	194	194	194	19	3800	-
7	2.2	107	194	1	27.85	IE5	**BG20-../S5E08LA4**	5.3	17.5	35.5	107	129	181	194	194	194	194	20	3800	-
7	2.2	96	215	0.92	30.94	IE4	**BG20-../S4E08MA4**	4.8	16	32	96	116	154	182	215	215	215	19	4000	-
7	2.2	96	215	0.92	30.94	IE5	**BG20-../S5E08LA4**	4.8	16	32	96	116	200	215	215	215	215	20	4000	-
7	2.2	90	230	0.86	33.33	IE4	**BG20-../S4E08MA4**	4.5	15	30	90	108	166	196	230	230	230	19	4100	-
7	2.2	90	230	0.86	33.33	IE5	**BG20-../S5E08LA4**	4.5	15	30	90	108	215	230	230	230	230	20	4100	-
7	2.2	215	96	3	13.77	IE4	**BG30-../S4E08MA4**	10.5	36	72	215	260	68	81	96	96	96	23	3150	-
7	2.2	215	96	3	13.77	IE5	**BG30-../S5E08LA4**	10.5	36	72	215	260	89	96	96	96	96	25	3150	-
7	2.2	196	106	2.8	15.27	IE4	**BG30-../S4E08MA4**	9.8	32.5	65	196	235	76	90	106	106	106	23	3450	-
7	2.2	196	106	2.8	15.27	IE5	**BG30-../S5E08LA4**	9.8	32.5	65	196	235	99	106	106	106	106	25	3450	-
7	2.2	175	119	2.5	17.06	IE4	**BG30-../S4E08MA4**	8.7	29	58	175	210	85	100	119	119	119	23	3700	-

MN = 7 Nm (PN = 2.2 kW)



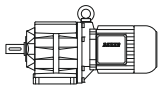
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
7	2.2	175	119	2.5	17.06	IE5	**BG30-../S5E08LA4**	8.7	29	58	175	210	110	119	119	119	119	25	3700	-
7	2.2	158	132	2.3	18.93	IE4	**BG30-../S4E08MA4**	7.9	26	52	158	190	94	111	132	132	132	23	4100	-
7	2.2	158	132	2.3	18.93	IE5	**BG30-../S5E08LA4**	7.9	26	52	158	190	123	132	132	132	132	25	4100	-
7	2.2	150	139	2.1	19.99	IE4	**BG30-../S4E08MA4**	7.5	25	50	150	180	99	117	139	139	139	23	4200	-
7	2.2	150	139	2.1	19.99	IE5	**BG30-../S5E08LA4**	7.5	25	50	150	180	129	139	139	139	139	25	4200	-
7	2.2	135	155	1.9	22.18	IE4	**BG30-../S4E08MA4**	6.7	22.5	45	135	162	110	130	155	155	155	23	4600	-
7	2.2	135	155	1.9	22.18	IE5	**BG30-../S5E08LA4**	6.7	22.5	45	135	162	144	155	155	155	155	25	4600	-
7	2.2	117	178	1.7	25.45	IE4	**BG30-../S4E08MA4**	5.8	19.5	39	117	141	127	150	178	178	178	23	4850	-
7	2.2	117	178	1.7	25.45	IE5	**BG30-../S5E08LA4**	5.8	19.5	39	117	141	165	178	178	178	178	25	4850	-
7	2.2	106	197	1.5	28.24	IE4	**BG30-../S4E08MA4**	5.3	17.5	35	106	127	141	166	197	197	197	23	5100	-
7	2.2	106	197	1.5	28.24	IE5	**BG30-../S5E08LA4**	5.3	17.5	35	106	127	183	197	197	197	197	25	5100	-
7	2.2	100	205	1.4	29.83	IE4	**BG30-../S4E08MA4**	5	16.5	33.5	100	120	149	175	205	205	205	23	5200	-
7	2.2	100	205	1.4	29.83	IE5	**BG30-../S5E08LA4**	5	16.5	33.5	100	120	193	205	205	205	205	25	5200	-
7	2.2	90	230	1.3	33.09	IE4	**BG30-../S4E08MA4**	4.5	15	30	90	108	165	195	230	230	230	23	5400	-
7	2.2	90	230	1.3	33.09	IE5	**BG30-../S5E08LA4**	4.5	15	30	90	108	215	230	230	230	230	25	5400	-
7	2.2	85	245	1.2	35.17	IE4	**BG30-../S4E08MA4**	4.2	14	28	85	102	175	205	245	245	245	23	5500	-
7	2.2	85	245	1.2	35.17	IE5	**BG30-../S5E08LA4**	4.2	14	28	85	102	225	245	245	245	245	25	5500	-
7	2.2	76	270	1.1	39.02	IE4	**BG30-../S4E08MA4**	3.8	12.5	25.5	76	92	195	230	270	270	270	23	5800	-
7	2.2	76	270	1.1	39.02	IE5	**BG30-../S5E08LA4**	3.8	12.5	25.5	76	92	250	270	270	270	270	25	5800	-
7	2.2	70	295	1	42.46	IE4	**BG30-../S4E08MA4**	3.5	11.5	23.5	70	84	210	250	295	295	295	23	5900	-
7	2.2	70	295	1	42.46	IE5	**BG30-../S5E08LA4**	3.5	11.5	23.5	70	84	275	295	295	295	295	25	5900	-
7	2.2	63	325	0.91	47.11	IE4	**BG30-../S4E08MA4**	3.1	10.5	21	63	76	235	275	325	325	325	23	6000	-
7	2.2	63	325	0.91	47.11	IE5	**BG30-../S5E08LA4**	3.1	10.5	21	63	76	305	325	325	325	325	25	6000	-
7	2.2	57	365	0.82	52.44	IE4	**BG30-../S4E08MA4**	2.8	9.5	19	57	68	260	305	365	365	365	23	6000	-
7	2.2	57	365	0.82	52.44	IE5	**BG30-../S5E08LA4**	2.8	9.5	19	57	68	340	365	365	365	365	25	6000	-
7	2.2	136	154	2.8	22.02	IE4	**BG40-../S4E08MA4**	6.8	22.5	45	136	163	110	129	154	154	154	38	6000	-
7	2.2	136	154	2.8	22.02	IE5	**BG40-../S5E08LA4**	6.8	22.5	45	136	163	143	154	154	154	154	40	6000	-
7	2.2	128	164	2.6	23.43	IE4	**BG40-../S4E08MA4**	6.4	21	42.5	128	153	117	138	164	164	164	38	6200	-
7	2.2	128	164	2.6	23.43	IE5	**BG40-../S5E08LA4**	6.4	21	42.5	128	153	152	164	164	164	164	40	6200	-
7	2.2	115	182	2.3	26.01	IE4	**BG40-../S4E08MA4**	5.7	19	38	115	138	130	153	182	182	182	38	6500	-
7	2.2	115	182	2.3	26.01	IE5	**BG40-../S5E08LA4**	5.7	19	38	115	138	169	182	182	182	182	40	6500	-
7	2.2	102	205	2.1	29.34	IE4	**BG40-../S4E08MA4**	5.1	17	34	102	122	146	173	205	205	205	38	6800	-
7	2.2	102	205	2.1	29.34	IE5	**BG40-../S5E08LA4**	5.1	17	34	102	122	190	205	205	205	205	40	6800	-
7	2.2	92	225	1.9	32.57	IE4	**BG40-../S4E08MA4**	4.6	15	30.5	92	110	162	192	225	225	225	38	7000	-
7	2.2	92	225	1.9	32.57	IE5	**BG40-../S5E08LA4**	4.6	15	30.5	92	110	210	225	225	225	225	40	7000	-
7	2.2	87	235	1.8	34.2	IE4	**BG40-../S4E08MA4**	4.3	14.5	29	87	105	171	200	235	235	235	38	7000	-
7	2.2	87	235	1.8	34.2	IE5	**BG40-../S5E08LA4**	4.3	14.5	29	87	105	220	235	235	235	235	40	7000	-
7	2.2	79	265	1.6	37.96	IE4	**BG40-../S4E08MA4**	3.9	13	26	79	94	189	220	265	265	265	38	7000	-
7	2.2	79	265	1.6	37.96	IE5	**BG40-../S5E08LA4**	3.9	13	26	79	94	245	265	265	265	265	40	7000	-
7	2.2	74	280	1.5	40.19	IE4	**BG40-../S4E08MA4**	3.7	12	24.5	74	89	200	235	280	280	280	38	7000	-
7	2.2	74	280	1.5	40.19	IE5	**BG40-../S5E08LA4**	3.7	12	24.5	74	89	260	280	280	280	280	40	7000	-
7	2.2	67	310	1.4	44.62	IE4	**BG40-../S4E08MA4**	3.3	11	22	67	80	220	260	310	310	310	38	7000	-
7	2.2	67	310	1.4	44.62	IE5	**BG40-../S5E08LA4**	3.3	11	22	67	80	290	310	310	310	310	40	7000	-
7	2.2	62	335	1.3	48.36	IE4	**BG40-../S4E08MA4**	3.1	10	20.5	62	74	240	285	335	335	335	38	7000	-
7	2.2	62	335	1.3	48.36	IE5	**BG40-../S5E08LA4**	3.1	10	20.5	62	74	310	335	335	335	335	40	7000	-
7	2.2	55	375	1.1	53.69	IE4	**BG40-../S4E08MA4**	2.7	9.3	18.5	55	67	265	315	375	375	375	38	7000	-
7	2.2	55	375	1.1	53.69	IE5	**BG40-../S5E08LA4**	2.7	9.3	18.5	55	67	345	375	375	375	375	40	7000	-
7	2.2	50	415	1	59.64	IE4	**BG40-../S4E08MA4**	2.5	8.3	16.5	50	60	295	350	415	415	415	38	7000	-
7	2.2	50	415	1	59.64	IE5	**BG40-../S5E08LA4**	2.5	8.3	16.5	50	60	385	415	415	415	415	40	7000	-
7	2.2	45	460	0.92	66.2	IE4	**BG40-../S4E08MA4**	2.2	7.5	15	45	54	330	390	460	460	460	38	7000	-
7	2.2	45	460	0.92	66.2	IE5	**BG40-../S5E08LA4**	2.2	7.5	15	45	54	430	460	460	460	460	40	7000	-
7	2.2	44	470	0.9	67.74	IE4	**BG40Z-../S4E08MA4**	2.2	7.3	14.5	44	53	335	395	470	470	470	42	7000	-
7	2.2	44	470	0.9	67.74	IE5	**BG40Z-../S5E08LA4**	2.2	7.3	14.5	44	53	440	470	470	470	470	43	7000	-
7	2.2	39.5	520	0.81	75.19	IE4	**BG40Z-../S4E08MA4**	1.9	6.6	13	39.5	47.5	375	440	520	520	520	42	7000	-
7	2.2	39.5	520	0.81	75.19	IE5	**BG40Z-../S5E08LA4**	1.9	6.6	13	39.5	47.5	485	520	520	520	520	43	7000	-
7	2.2	101	205	3	29.62	IE4	**BG50-../S4E08MA4**	5	16.5	33.5	101	121	148	174	205	205	205	46	8000	-
7	2.2	101	205	3	29.62	IE5	**BG50-../S5E08LA4**	5	16.5	33.5	101	121	192	205	205	205	205	48	8000	-
7	2.2	91	225	2.7	32.84	IE4	**BG50-../S4E08MA4**	4.5	15	30	91	109	164	193	225	225	225	46	8700	-
7	2.2	91	225	2.7	32.84	IE5	**BG50-../S5E08LA4**	4.5	15	30	91	109	210	225	225	225	225	48	8700	-
7	2.2	79	265	2.4	37.89	IE4	**BG50-../S4E08MA4**	3.9	13	26	79	95	189	220	265	265	265	46	10000	-
7	2.2	79	265	2.4	37.89	IE5	**BG50-../S5E08LA4**	3.9	13	26	79	95	245	265	265	265	265	48	10000	-
7	2.2	71	290	2.1	42	IE4	**BG50-../S4E08MA4**	3.5	11.5	23.5	71	85	210	245	290	290	290	46	10000	-
7	2.2	71	290	2.1	42	IE5	**BG50-../S5E08LA4**	3.5	11.5	23.5	71	85	270	290	290	290	290	48	10000	-
7	2.2	63	325	1.9	47.02	IE4	**BG50-../S4E08MA4**	3.1	10.5	21	63	76	235	275	325	325	325	46	10000	-
7	2.2	63	325	1.9	47.02	IE5	**BG50-../S5E08LA4**	3.1	10.5	21	63	76	305	325	325	325	325	48	10000	-
7	2.2	57	360	1.7	52.12	IE4	**BG50-../S4E08MA4**	2.8	9.5	19	57	69	260	305	360	360	360	46	10000	-
7	2.2	57	360	1.7	52.12	IE5	**BG50-../S5E08LA4**	2.8	9.5	19	57	69	335	360	360	360	360	48	10000	-
7	2.2	50	415	1.5	59.42	IE4	**BG50-../S4E08MA4**	2.5	8.4	16.5	50	60	295	350	415	415	415	46	10000	-
7	2.2	50	415	1.5	59.42	IE5	**BG50-../S5E08LA4**	2.5	8.4	16.5	50	60	385	415	415	415	415	48	10000	-
7	2.2	45.5	460	1.4	65.86	IE4	**BG50-../S4E08MA4**	2.2	7.5	15	45.5	54	325	385	460	460	460	46	10000	-
7	2.2	45.5	460	1.4	65.86	IE5	**BG50-../S5E08LA4**	2.2	7.5	15	45.5	54	425	460	460	460	460	48	10000	-
7	2.2	41.5	500	1.3	71.97	IE4	**BG50Z-../S4E08MA4**	2	6.9	13.5	41.5	50	355	420	500	500	500	51	10000	-
7	2.2	41.5	500	1.3	71.97	IE5	**BG50Z-../S5E08LA4**	2	6.9	13.5	41.5	50	465	500	500	500	500	52	10000	-
7	2.2	37.5	550	1.1	79.78	IE4	**BG50Z-../S4E08MA4**	1.8	6.2	12.5	37.5	45	395	470	550	550	550	51	10000	-
7	2.2	37.5	550	1.1	79.78	IE5	**BG50Z-../S5E08LA4**	1.8	6.2	12.5	37.5	45	510	550	550	550	550	52	10000	-
7	2.2	31	660	0.94	95.58	IE4	**BG50Z-../S4E08MA4**	1.5	5.2	10	31	37.5	475	560	660	660	660	51	10000	-
7	2.2	31	660	0.94	95.58	IE5	**BG50Z-../S5E08LA4**	1.5	5.2	10	31	37.5	620	660	660	660	660	52	10000	-
7	2.2	28	740	0.85	106	IE4	**BG50Z-../S4E08MA4**	1.4	4.7	9.4	28	33.5	530	620	740	740	740	51	10000	-
7	2.2	28	740	0.85	106	IE5	**BG50Z-../S5E08LA4**	1.4	4.7	9.4	28	33.5	680	740	740	740	740	52	10000	-

MN = 7 Nm (PN = 2.2 kW)



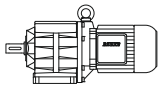
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
7	2.2	43.5	475	2.5	68.32	IE4	**BG60Z-../S4E08MA4**	2.1	7.3	14.5	43.5	52	340	400	475	475	475	96	16000	-
7	2.2	43.5	475	2.5	68.32	IE5	**BG60Z-../S5E08LA4**	2.1	7.3	14.5	43.5	52	440	475	475	475	475	97	16000	-
7	2.2	39.5	520	2.3	75.71	IE4	**BG60Z-../S4E08MA4**	1.9	6.6	13	39.5	47.5	375	445	520	520	520	96	16000	-
7	2.2	39.5	520	2.3	75.71	IE5	**BG60Z-../S5E08LA4**	1.9	6.6	13	39.5	47.5	490	520	520	520	520	97	16000	-
7	2.2	32.5	630	1.9	91.09	IE4	**BG60Z-../S4E08MA4**	1.6	5.4	10.5	32.5	39.5	455	530	630	630	630	96	16000	-
7	2.2	32.5	630	1.9	91.09	IE5	**BG60Z-../S5E08LA4**	1.6	5.4	10.5	32.5	39.5	590	630	630	630	630	97	16000	-
7	2.2	29.5	700	1.7	101	IE4	**BG60Z-../S4E08MA4**	1.4	4.9	9.9	29.5	35.5	500	590	700	700	700	96	16000	-
7	2.2	29.5	700	1.7	101	IE5	**BG60Z-../S5E08LA4**	1.4	4.9	9.9	29.5	35.5	650	700	700	700	700	97	16000	-
7	2.2	25	830	1.4	119.2	IE4	**BG60Z-../S4E08MA4**	1.2	4.1	8.3	25	30	590	700	830	830	830	96	16000	-
7	2.2	25	830	1.4	119.2	IE5	**BG60Z-../S5E08LA4**	1.2	4.1	8.3	25	30	770	830	830	830	830	97	16000	-
7	2.2	22.5	920	1.3	132.1	IE4	**BG60Z-../S4E08MA4**	1.1	3.7	7.5	22.5	27	660	770	920	920	920	96	16000	-
7	2.2	22.5	920	1.3	132.1	IE5	**BG60Z-../S5E08LA4**	1.1	3.7	7.5	22.5	27	850	920	920	920	920	97	16000	-
7	2.2	18.5	1100	1.1	158	IE4	**BG60Z-../S4E08MA4**	0.9	3.1	6.3	18.5	22.5	790	930	1100	1100	1100	96	16000	-
7	2.2	18.5	1100	1.1	158	IE5	**BG60Z-../S5E08LA4**	0.9	3.1	6.3	18.5	22.5	1020	1100	1100	1100	1100	97	16000	-
7	2.2	17	1220	0.98	175.1	IE4	**BG60Z-../S4E08MA4**	0.85	2.8	5.7	17	20.5	870	1030	1220	1220	1220	96	16000	-
7	2.2	17	1220	0.98	175.1	IE5	**BG60Z-../S5E08LA4**	0.85	2.8	5.7	17	20.5	1130	1220	1220	1220	1220	97	16000	-
7	2.2	14.5	1430	0.84	204.6	IE4	**BG60Z-../S4E08MA4**	0.7	2.4	4.8	14.5	17.5	1020	1200	1430	1430	1430	96	16000	-
7	2.2	14.5	1430	0.84	204.6	IE5	**BG60Z-../S5E08LA4**	0.7	2.4	4.8	14.5	17.5	1320	1430	1430	1430	1430	97	16000	-
7	2.2	26	790	2.9	113.6	IE4	**BG70Z-../S4E08MA4**	1.3	4.4	8.8	26	31.5	560	670	790	790	790	136	20000	-
7	2.2	26	790	2.9	113.6	IE5	**BG70Z-../S5E08LA4**	1.3	4.4	8.8	26	31.5	730	790	790	790	790	137	20000	-
7	2.2	24	860	2.6	124	IE4	**BG70Z-../S4E08MA4**	1.2	4	8	24	29	620	730	860	860	860	136	20000	-
7	2.2	24	860	2.6	124	IE5	**BG70Z-../S5E08LA4**	1.2	4	8	24	29	800	860	860	860	860	137	20000	-
7	2.2	20	1030	2.2	147.2	IE4	**BG70Z-../S4E08MA4**	1	3.3	6.7	20	24	730	860	1030	1030	1030	136	20000	-
7	2.2	20	1030	2.2	147.2	IE5	**BG70Z-../S5E08LA4**	1	3.3	6.7	20	24	950	1030	1030	1030	1030	137	20000	-
7	2.2	18	1140	2	163.8	IE4	**BG70Z-../S4E08MA4**	0.9	3	6.1	18	21.5	810	960	1140	1140	1140	136	20000	-
7	2.2	18	1140	2	163.8	IE5	**BG70Z-../S5E08LA4**	0.9	3	6.1	18	21.5	1060	1140	1140	1140	1140	137	20000	-
7	2.2	15	1360	1.7	194.4	IE4	**BG70Z-../S4E08MA4**	0.75	2.5	5.1	15	18.5	970	1140	1360	1360	1360	136	20000	-
7	2.2	15	1360	1.7	194.4	IE5	**BG70Z-../S5E08LA4**	0.75	2.5	5.1	15	18.5	1260	1360	1360	1360	1360	137	20000	-
7	2.2	14	1470	1.6	210.5	IE4	**BG70Z-../S4E08MA4**	0.7	2.3	4.7	14	17	1050	1240	1470	1470	1470	136	20000	-
7	2.2	14	1470	1.6	210.5	IE5	**BG70Z-../S5E08LA4**	0.7	2.3	4.7	14	17	1360	1470	1470	1470	1470	137	20000	-
7	2.2	12	1740	1.3	249.8	IE4	**BG70Z-../S4E08MA4**	0.6	2	4	12	14	1240	1470	1740	1740	1740	136	20000	-
7	2.2	12	1740	1.3	249.8	IE5	**BG70Z-../S5E08LA4**	0.6	2	4	12	14	1620	1740	1740	1740	1740	137	20000	-
7	2.2	11.5	1780	1.4	255.5	IE4	**BG70G20-../S4E08MA4**	0.55	1.9	3.9	11.5	14	1270	1500	1780	1780	1780	133	20000	-
7	2.2	11.5	1780	1.4	255.5	IE5	**BG70G20-../S5E08LA4**	0.55	1.9	3.9	11.5	14	1660	1780	1780	1780	1780	135	20000	-
7	2.2	10.5	1930	1.3	276.7	IE4	**BG70G20-../S4E08MA4**	0.5	1.8	3.6	10.5	13	1380	1630	1930	1930	1930	133	20000	-
7	2.2	10.5	1930	1.3	276.7	IE5	**BG70G20-../S5E08LA4**	0.5	1.8	3.6	10.5	13	1790	1930	1930	1930	1930	135	20000	-
7	2.2	9.1	2250	1.1	328.4	IE4	**BG70G20-../S4E08MA4**	0.45	1.5	3	9.1	10.5	1640	1930	2250	2250	2250	133	20000	-
7	2.2	9.1	2250	1.1	328.4	IE5	**BG70G20-../S5E08LA4**	0.45	1.5	3	9.1	10.5	2100	2250	2250	2250	2250	135	20000	-
7	2.2	7.7	2700	0.92	387.6	IE4	**BG70G20-../S4E08MA4**	0.38	1.2	2.5	7.7	9.2	1930	2250	2700	2700	2700	133	20000	-
7	2.2	7.7	2700	0.92	387.6	IE5	**BG70G20-../S5E08LA4**	0.38	1.2	2.5	7.7	9.2	2500	2700	2700	2700	2700	135	20000	-
7	2.2	7.1	2900	0.85	417.8	IE4	**BG70G20-../S4E08MA4**	0.35	1.1	2.3	7.1	8.6	2050	2450	2900	2900	2900	133	20000	-
7	2.2	7.1	2900	0.85	417.8	IE5	**BG70G20-../S5E08LA4**	0.35	1.1	2.3	7.1	8.6	2700	2900	2900	2900	2900	135	20000	-
7	2.2	13	1590	2.9	227.2	IE4	**BG80G40-../S4E08MA4**	0.65	2.2	4.4	13	15.5	1130	1340	1590	1590	1590	215	26000	-
7	2.2	13	1590	2.9	227.2	IE5	**BG80G40-../S5E08LA4**	0.65	2.2	4.4	13	15.5	1470	1590	1590	1590	1590	216	26000	-
7	2.2	11.5	1760	2.6	252.3	IE4	**BG80G40-../S4E08MA4**	0.55	1.9	3.9	11.5	14	1260	1480	1760	1760	1760	215	26000	-
7	2.2	11.5	1760	2.6	252.3	IE5	**BG80G40-../S5E08LA4**	0.55	1.9	3.9	11.5	14	1630	1760	1760	1760	1760	216	26000	-
7	2.2	10.5	1970	2.3	282.8	IE4	**BG80G40-../S4E08MA4**	0.5	1.7	3.5	10.5	12.5	1410	1660	1970	1970	1970	215	26000	-
7	2.2	10.5	1970	2.3	282.8	IE5	**BG80G40-../S5E08LA4**	0.5	1.7	3.5	10.5	12.5	1830	1970	1970	1970	1970	216	26000	-
7	2.2	9.5	2150	2.1	314	IE4	**BG80G40-../S4E08MA4**	0.47	1.5	3.1	9.5	11	1570	1850	2150	2150	2150	215	26000	-
7	2.2	9.5	2150	2.1	314	IE5	**BG80G40-../S5E08LA4**	0.47	1.5	3.1	9.5	11	2000	2150	2150	2150	2150	216	26000	-
7	2.2	8.3	2500	1.8	360	IE4	**BG80G40-../S4E08MA4**	0.41	1.3	2.7	8.3	10	1800	2100	2500	2500	2500	215	26000	-
7	2.2	8.3	2500	1.8	360	IE5	**BG80G40-../S5E08LA4**	0.41	1.3	2.7	8.3	10	2300	2500	2500	2500	2500	216	26000	-
7	2.2	7.5	2750	1.6	399.8	IE4	**BG80G40-../S4E08MA4**	0.37	1.2	2.5	7.5	9	1990	2350	2750	2750	2750	215	26000	-
7	2.2	7.5	2750	1.6	399.8	IE5	**BG80G40-../S5E08LA4**	0.37	1.2	2.5	7.5	9	2550	2750	2750	2750	2750	216	26000	-
7	2.2	6.8	3050	1.5	436.2	IE4	**BG80G40-../S4E08MA4**	0.34	1.1	2.2	6.8	8.2	2150	2550	3050	3050	3050	215	26000	-
7	2.2	6.8	3050	1.5	436.2	IE5	**BG80G40-../S5E08LA4**	0.34	1.1	2.2	6.8	8.2	2800	3050	3050	3050	3050	216	26000	-
7	2.2	6.1	3350	1.4	484.3	IE4	**BG80G40-../S4E08MA4**	0.3	1	2	6.1	7.4	2400	2850	3350	3350	3350	215	26000	-
7	2.2	6.1	3350	1.4	484.3	IE5	**BG80G40-../S5E08LA4**	0.3	1	2	6.1	7.4	3100	3350	3350	3350	3350	216	26000	-
7	2.2	5.2	4000	1.1	572	IE4	**BG80G40-../S4E08MA4**	0.26	0.85	1.7	5.2	6.2	2850	3350	4000	4000	4000	215	26000	-
7	2.2	5.2	4000	1.1	572	IE5	**BG80G40-../S5E08LA4**	0.26	0.85	1.7	5.2	6.2	3700	4000	4000	4000	4000	216	26000	-
7	2.2	4.5	4600	1	657.8	IE4	**BG80G40-../S4E08MA4**	0.22	0.75	1.5	4.5	5.4	3250	3850	4600	4600	4600	215	26000	-
7	2.2	4.5	4600	1	657.8	IE5	**BG80G40-../S5E08LA4**	0.22	0.75	1.5	4.5	5.4	4250	4600	4600	4600	4600	216	26000	-
7	2.2	4.1	5100	0.9	730.3	IE4	**BG80G40-../S4E08MA4**	0.2	0.65	1.3	4.1	4.9	3650	4300	5100	5100	5100	215	26000	-
7	2.2	4.1	5100	0.9	730.3	IE5	**BG80G40-../S5E08LA4**	0.2	0.65	1.3	4.1	4.9	4700	5100	5100	5100	5100	216	26000	-
7	2.2	3.6	5700	0.8	817.4	IE4	**BG80G40-../S4E08MA4**	0.18	0.6	1.2	3.6	4.4	4050	4800	5700	5700	5700	215	26000	-
7	2.2	3.6	5700	0.8	817.4	IE5	**BG80G40-../S5E08LA4**	0.18	0.6	1.2	3.6	4.4	5300	5700	5700	5700	5700	216	26000	-
7	2.2	6.8	3050	3	435.8	IE4	**BG90G50-../S4E08MA4**	0.34	1.1	2.2	6.8	8.2	2150	2550	3050	3050	3050	324	65000	-
7	2.2	6.8	3050	3	435.8	IE5	**BG90G50-../S5E08LA4**	0.34	1.1	2.2	6.8	8.2	2800	3050	3050	3050	3050	326	65000	-
7	2.2	5.9	3500	2.6	504.7	IE4	**BG90G50-../S4E08MA4**	0.29	0.95	1.9	5.9	7.1	2500	2950	3500	3500	3500	324	65000	-
7	2.2	5.9	3500	2.6	504.7	IE5	**BG90G50-../S5E08LA4**	0.29	0.95	1.9	5.9	7.1	3250	3500	3500	3500	3500	326	65000	-
7	2.2	5	4100	2.2	588.8	IE4	**BG90G50-../S4E08MA4**	0.25	0.8	1.6	5	6.1	2900	3450	4100	4100	4100	324	65000	-
7	2.2	5	4100	2.2	588.8	IE5	**BG90G50-../S5E08LA4**	0.25	0.8	1.6	5	6.1	3800	4100	4100	4100	4100	326	65000	-
7	2.2	4.6	4500	2	644.7	IE4	**BG90G50-../S4E08MA4**	0.23	0.75	1.5	4.6	5.5	3200	3800	4500	4500	4500	324	65000	-
7	2.2	4.6	4500	2	644.7	IE5	**BG90G50-../S5E08LA4**	0.23	0.75	1.5	4.6	5.5	4150	4500	4500	4500	4500	326	65000	-
7	2.2	4.2	4950	1.8	714.2	IE4	**BG90G50-../S4E08MA4**	0.21	0.7	1.4	4.2	5	3550	4200	4950	4950	4950	324	65000	-
7	2.2	4.2	4950	1.8	714.2	IE5	**BG90G50-../S5E08LA4**	0.21	0.7	1.4	4.2	5	4600	4950	4950	4950	4950	326	65000	-
7	2.2	3.3	6100	1.5	883.7	IE4	**BG90G50-../S4E08MA4**	0.16	0.55	1.1	3.3	4	4400	5200	6100	6100	6100	324	65000	-
7	2.2	3.3	6100	1.5	883.7	IE5	**BG90G50-../S5E08LA4**	0.16	0.55	1.1	3.3	4	5700	6100	6100	6100	6100	326	65000	-
7	2.2	2.5	8200	1.1	1174	IE4	**BG90G50-../S4E08MA4**	0.12	0.42	0.85	2.5	3	5800	6900	8200	8200	8200	324	65000	-

MN = 7 Nm (PN = 2.2 kW)



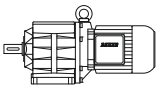
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
7	2.2	2.5	8200	1.1	1174	IE5	**BG90G50-../S5E08LA4**	0.12	0.42	0.85	2.5	3	7600	8200	8200	8200	8200	326	65000	-
7	2.2	2.3	9100	1	1301	IE4	**BG90G50-../S4E08MA4**	0.11	0.38	0.75	2.3	2.7	6500	7600	9100	9100	9100	324	65000	-
7	2.2	2.3	9100	1	1301	IE5	**BG90G50-../S5E08LA4**	0.11	0.38	0.75	2.3	2.7	8400	9100	9100	9100	9100	326	65000	-
7	2.2	1.8	11000	0.83	1583	IE4	**BG90G50-../S4E08MA4**	0.09	0.31	0.6	1.8	2.2	7900	9300	11000	11000	11000	324	65000	-
7	2.2	1.8	11000	0.83	1583	IE5	**BG90G50-../S5E08LA4**	0.09	0.31	0.6	1.8	2.2	10200	11000	11000	11000	11000	326	65000	-
7	2.2	3	6800	2.7	976.1	IE4	**BG100G50-../S4E08MA4**	0.15	0.5	1	3	3.6	4850	5700	6800	6800	6800	512	90000	-
7	2.2	3	6800	2.7	976.1	IE5	**BG100G50-../S5E08LA4**	0.15	0.5	1	3	3.6	6300	6800	6800	6800	6800	513	90000	-
7	2.2	2.8	7300	2.5	1043	IE4	**BG100G50-../S4E08MA4**	0.14	0.47	0.95	2.8	3.4	5200	6100	7300	7300	7300	512	90000	-
7	2.2	2.8	7300	2.5	1043	IE5	**BG100G50-../S5E08LA4**	0.14	0.47	0.95	2.8	3.4	6700	7300	7300	7300	7300	513	90000	-
7	2.2	2.4	8400	2.2	1204	IE4	**BG100G50-../S4E08MA4**	0.12	0.41	0.8	2.4	2.9	6000	7100	8400	8400	8400	512	90000	-
7	2.2	2.4	8400	2.2	1204	IE5	**BG100G50-../S5E08LA4**	0.12	0.41	0.8	2.4	2.9	7800	8400	8400	8400	8400	513	90000	-
7	2.2	2	10100	1.8	1444	IE4	**BG100G50-../S4E08MA4**	0.1	0.34	0.65	2	2.4	7200	8500	10100	10100	10100	512	90000	-
7	2.2	2	10100	1.8	1444	IE5	**BG100G50-../S5E08LA4**	0.1	0.34	0.65	2	2.4	9300	10100	10100	10100	10100	513	90000	-
7	2.2	1.7	11700	1.6	1678	IE4	**BG100G50-../S4E08MA4**	0.085	0.29	0.55	1.7	2.1	8300	9900	11700	11700	11700	512	90000	-
7	2.2	1.7	11700	1.6	1678	IE5	**BG100G50-../S5E08LA4**	0.085	0.29	0.55	1.7	2.1	10900	11700	11700	11700	11700	513	90000	-
7	2.2	1.6	13000	1.4	1867	IE4	**BG100G50-../S4E08MA4**	0.08	0.26	0.5	1.6	1.9	9300	11000	13000	13000	13000	512	90000	-
7	2.2	1.6	13000	1.4	1867	IE5	**BG100G50-../S5E08LA4**	0.08	0.26	0.5	1.6	1.9	12100	13000	13000	13000	13000	513	90000	-
7	2.2	1.3	15000	1.2	2154	IE4	**BG100G50-../S4E08MA4**	0.065	0.23	0.46	1.3	1.6	10700	12700	15000	15000	15000	512	90000	-
7	2.2	1.3	15000	1.2	2154	IE5	**BG100G50-../S5E08LA4**	0.065	0.23	0.46	1.3	1.6	14000	15000	15000	15000	15000	513	90000	-
7	2.2	1.1	18500	1	2656	IE4	**BG100G50-../S4E08MA4**	0.055	0.18	0.37	1.1	1.3	13200	15600	18500	18500	18500	512	90000	-
7	2.2	1.1	18500	1	2656	IE5	**BG100G50-../S5E08LA4**	0.055	0.18	0.37	1.1	1.3	17200	18500	18500	18500	18500	513	90000	-
7	2.2	1	20500	0.9	2952	IE4	**BG100G50-../S4E08MA4**	0.05	0.16	0.33	1	1.2	14700	17400	20500	20500	20500	512	90000	-
7	2.2	1	20500	0.9	2952	IE5	**BG100G50-../S5E08LA4**	0.05	0.16	0.33	1	1.2	19100	20500	20500	20500	20500	513	90000	-
7	2.2	0.9	23000	0.8	3286	IE4	**BG100G50-../S4E08MA4**	0.045	0.15	0.3	0.9	1	16400	19300	23000	23000	23000	512	90000	-
7	2.2	0.9	23000	0.8	3286	IE5	**BG100G50-../S5E08LA4**	0.045	0.15	0.3	0.9	1	21000	23000	23000	23000	23000	513	90000	-

MN = 10 Nm (PN = 3.1 kW)



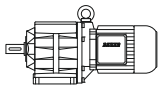
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
10	3.1	1190	25	2.2	2.52	IE3	**BG10-../SPE08LA4**	59	198	395	1190	1420	16.3	20	25	25	25	18	570	790
10	3.1	870	34	1.8	3.42	IE3	**BG10-../SPE08LA4**	43.5	146	290	870	1050	22	27	34	34	34	18	630	880
10	3.1	680	43.5	1.6	4.36	IE3	**BG10-../SPE08LA4**	34	114	225	680	820	28	34.5	43.5	43.5	43.5	18	650	910
10	3.1	560	53	1.4	5.34	IE3	**BG10-../SPE08LA4**	28	93	187	560	670	34.5	42.5	53	53	53	18	620	910
10	3.1	440	67	1.2	6.78	IE3	**BG10-../SPE08LA4**	22	73	147	440	530	44	54	67	67	67	18	660	920
10	3.1	435	68	1.3	6.89	IE3	**BG10-../SPE08LA4**	21.5	72	145	435	520	44.5	55	68	68	68	18	850	1200
10	3.1	390	76	1.2	7.63	IE3	**BG10-../SPE08LA4**	19.5	65	131	390	470	49.5	61	76	76	76	18	900	1250
10	3.1	370	80	1.1	8.07	IE3	**BG10-../SPE08LA4**	18.5	61	123	370	445	52	64	80	80	80	18	660	920
10	3.1	320	93	1	9.33	IE3	**BG10-../SPE08LA4**	16	53	107	320	385	60	74	93	93	93	18	950	1330
10	3.1	290	103	0.96	10.34	IE3	**BG10-../SPE08LA4**	14.5	48	96	290	345	67	82	103	103	103	18	1000	1400
10	3.1	250	119	0.88	11.92	IE3	**BG10-../SPE08LA4**	12.5	41.5	83	250	300	77	95	119	119	119	18	1030	1440
10	3.1	225	132	0.83	13.21	IE3	**BG10-../SPE08LA4**	11	37.5	75	225	270	85	105	132	132	132	18	1070	1490
10	3.1	900	33	2.8	3.33	IE3	**BG20-../SPE08LA4**	45	150	300	900	1080	21.5	26.5	33	33	33	20	1830	-
10	3.1	680	43.5	2.4	4.38	IE3	**BG20-../SPE08LA4**	34	114	225	680	820	28	35	43.5	43.5	43.5	20	1990	-
10	3.1	540	54	2.1	5.49	IE3	**BG20-../SPE08LA4**	27	91	182	540	650	35.5	43.5	54	54	54	20	2100	-
10	3.1	495	60	2.1	6.06	IE3	**BG20-../SPE08LA4**	24.5	82	165	495	590	39	48	60	60	60	20	2250	-
10	3.1	460	64	1.9	6.48	IE3	**BG20-../SPE08LA4**	23	77	154	460	550	42	51	64	64	64	20	2250	-
10	3.1	445	67	1.9	6.73	IE3	**BG20-../SPE08LA4**	22	74	148	445	530	43.5	53	67	67	67	20	2350	2100
10	3.1	370	80	1.7	8.02	IE3	**BG20-../SPE08LA4**	18.5	62	124	370	445	52	64	80	80	80	20	2500	-
10	3.1	360	82	1.5	8.29	IE3	**BG20-../SPE08LA4**	18	60	120	360	430	53	66	82	82	82	20	2250	-
10	3.1	335	89	1.6	8.91	IE3	**BG20-../SPE08LA4**	16.5	56	112	335	400	57	71	89	89	89	20	2600	-
10	3.1	310	96	1.3	9.65	IE3	**BG20-../SPE08LA4**	15.5	51	103	310	370	62	77	96	96	96	20	2250	-
10	3.1	280	105	1.5	10.54	IE3	**BG20-../SPE08LA4**	14	47	94	280	340	68	84	105	105	105	20	2700	-
10	3.1	255	117	1.3	11.71	IE3	**BG20-../SPE08LA4**	12.5	42.5	85	255	305	76	93	117	117	117	20	2800	-
10	3.1	225	132	1.3	13.21	IE3	**BG20-../SPE08LA4**	11	37.5	75	225	270	85	105	132	132	132	20	2900	-
10	3.1	200	146	1.2	14.67	IE3	**BG20-../SPE08LA4**	10	34	68	200	245	95	117	146	146	146	20	3050	-
10	3.1	192	155	1.1	15.58	IE3	**BG20-../SPE08LA4**	9.6	32	64	192	230	101	124	155	155	155	20	3100	-
10	3.1	173	173	1.1	17.31	IE3	**BG20-../SPE08LA4**	8.6	28.5	57	173	205	112	138	173	173	173	20	3200	-
10	3.1	150	199	0.98	19.95	IE3	**BG20-../SPE08LA4**	7.5	25	50	150	180	129	159	199	199	199	20	3350	-
10	3.1	135	220	0.9	22.16	IE3	**BG20-../SPE08LA4**	6.7	22.5	45	135	162	144	177	220	220	220	20	3500	-
10	3.1	129	230	0.86	23.22	IE3	**BG20-../SPE08LA4**	6.4	21.5	43	129	155	150	185	230	230	230	20	3550	-
10	3.1	375	79	2.7	7.91	IE3	**BG30-../SPE08LA4**	18.5	63	126	375	455	51	63	79	79	79	25	1760	-
10	3.1	345	86	2.8	8.6	IE3	**BG30-../SPE08LA4**	17	58	116	345	415	55	68	86	86	86	25	2800	-
10	3.1	310	95	2.6	9.55	IE3	**BG30-../SPE08LA4**	15.5	52	104	310	375	62	76	95	95	95	25	3000	-
10	3.1	280	106	2.5	10.65	IE3	**BG30-../SPE08LA4**	14	46.5	93	280	335	69	85	106	106	106	25	2950	-
10	3.1	250	118	2.3	11.82	IE3	**BG30-../SPE08LA4**	12.5	42	84	250	300	76	94	118	118	118	25	3200	-
10	3.1	215	137	2.1	13.77	IE3	**BG30-../SPE08LA4**	10.5	36	72	215	260	89	110	137	137	137	25	3150	-
10	3.1	196	152	2	15.27	IE3	**BG30-../SPE08LA4**	9.8	32.5	65	196	235	99	122	152	152	152	25	3450	-
10	3.1	175	170	1.8	17.06	IE3	**BG30-../SPE08LA4**	8.7	29	58	175	210	110	136	170	170	170	25	3700	-
10	3.1	158	189	1.6	18.93	IE3	**BG30-../SPE08LA4**	7.9	26	52	158	190	123	151	189	189	189	25	4100	-
10	3.1	150	199	1.5	19.99	IE3	**BG30-../SPE08LA4**	7.5	25	50	150	180	129	159	199	199	199	25	4200	-
10	3.1	135	220	1.4	22.18	IE3	**BG30-../SPE08LA4**	6.7	22.5	45	135	162	144	177	220	220	220	25	4600	-
10	3.1	117	250	1.2	25.45	IE3	**BG30-../SPE08LA4**	5.8	19.5	39	117	141	165	200	250	250	250	25	4850	-
10	3.1	106	280	1.1	28.24	IE3	**BG30-../SPE08LA4**	5.3	17.5	35	106	127	183	225	280	280	280	25	5100	-

MN = 10 Nm (PN = 3.1 kW)



M_N	P_N	n_2	M_2	f_B	i	IE-Classe	**Type**	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
10	3.1	100	295	1	29.83	IE3	**BG30-../SPE08LA4**	5	16.5	33.5	100	120	193	235	295	295	295	25	5200	-
10	3.1	90	330	0.91	33.09	IE3	**BG30-../SPE08LA4**	4.5	15	30	90	108	215	260	330	330	330	25	5400	-
10	3.1	85	350	0.85	35.17	IE3	**BG30-../SPE08LA4**	4.2	14	28	85	102	225	280	350	350	350	25	5500	-
10	3.1	210	142	2.9	14.28	IE3	**BG40-../SPE08LA4**	10.5	35	70	210	250	92	114	142	142	142	40	4900	-
10	3.1	183	163	2.6	16.39	IE3	**BG40-../SPE08LA4**	9.1	30.5	61	183	215	106	131	163	163	163	40	5300	-
10	3.1	164	181	2.3	18.19	IE3	**BG40-../SPE08LA4**	8.2	27	54	164	197	118	145	181	181	181	40	5600	-
10	3.1	151	198	2.1	19.84	IE3	**BG40-../SPE08LA4**	7.5	25	50	151	181	128	158	198	198	198	40	5800	-
10	3.1	136	220	1.9	22.02	IE3	**BG40-../SPE08LA4**	6.8	22.5	45	136	163	143	176	220	220	220	40	6000	-
10	3.1	128	230	1.8	23.43	IE3	**BG40-../SPE08LA4**	6.4	21	42.5	128	153	152	187	230	230	230	40	6200	-
10	3.1	115	260	1.6	26.01	IE3	**BG40-../SPE08LA4**	5.7	19	38	115	138	169	205	260	260	260	40	6500	-
10	3.1	102	290	1.4	29.34	IE3	**BG40-../SPE08LA4**	5.1	17	34	102	122	190	230	290	290	290	40	6800	-
10	3.1	92	325	1.3	32.57	IE3	**BG40-../SPE08LA4**	4.6	15	30.5	92	110	210	260	325	325	325	40	7000	-
10	3.1	87	340	1.2	34.2	IE3	**BG40-../SPE08LA4**	4.3	14.5	29	87	105	220	270	340	340	340	40	7000	-
10	3.1	79	375	1.1	37.96	IE3	**BG40-../SPE08LA4**	3.9	13	26	79	94	245	300	375	375	375	40	7000	-
10	3.1	74	400	1.1	40.19	IE3	**BG40-../SPE08LA4**	3.7	12	24.5	74	89	260	320	400	400	400	40	7000	-
10	3.1	67	445	0.95	44.62	IE3	**BG40-../SPE08LA4**	3.3	11	22	67	80	290	355	445	445	445	40	7000	-
10	3.1	62	480	0.88	48.36	IE3	**BG40-../SPE08LA4**	3.1	10	20.5	62	74	310	385	480	480	480	40	7000	-
10	3.1	136	215	2.9	21.96	IE3	**BG50-../SPE08LA4**	6.8	22.5	45.5	136	163	142	175	215	215	215	48	8000	-
10	3.1	123	240	2.6	24.34	IE3	**BG50-../SPE08LA4**	6.1	20.5	41	123	147	158	194	240	240	240	48	8700	-
10	3.1	101	295	2.1	29.62	IE3	**BG50-../SPE08LA4**	5	16.5	33.5	101	121	192	235	295	295	295	48	8000	-
10	3.1	91	325	1.9	32.84	IE3	**BG50-../SPE08LA4**	4.5	15	30	91	109	210	260	325	325	325	48	8700	-
10	3.1	79	375	1.7	37.89	IE3	**BG50-../SPE08LA4**	3.9	13	26	79	95	245	300	375	375	375	48	10000	-
10	3.1	71	420	1.5	42	IE3	**BG50-../SPE08LA4**	3.5	11.5	23.5	71	85	270	335	420	420	420	48	10000	-
10	3.1	63	470	1.3	47.02	IE3	**BG50-../SPE08LA4**	3.1	10.5	21	63	76	305	375	470	470	470	48	10000	-
10	3.1	57	520	1.2	52.12	IE3	**BG50-../SPE08LA4**	2.8	9.5	19	57	69	335	415	520	520	520	48	10000	-
10	3.1	50	590	1.1	59.42	IE3	**BG50-../SPE08LA4**	2.5	8.4	16.5	50	60	385	475	590	590	590	48	10000	-
10	3.1	45.5	650	0.96	65.86	IE3	**BG50-../SPE08LA4**	2.2	7.5	15	45.5	54	425	520	650	650	650	48	10000	-
10	3.1	41.5	710	0.88	71.97	IE3	**BG50Z-../SPE08LA4**	2	6.9	13.5	41.5	50	465	570	710	710	710	52	10000	-
10	3.1	43.5	680	1.8	68.32	IE3	**BG60Z-../SPE08LA4**	2.1	7.3	14.5	43.5	52	440	540	680	680	680	97	16000	-
10	3.1	39.5	750	1.6	75.71	IE3	**BG60Z-../SPE08LA4**	1.9	6.6	13	39.5	47.5	490	600	750	750	750	97	16000	-
10	3.1	32.5	910	1.3	91.09	IE3	**BG60Z-../SPE08LA4**	1.6	5.4	10.5	32.5	39.5	590	720	910	910	910	97	16000	-
10	3.1	29.5	1010	1.2	101	IE3	**BG60Z-../SPE08LA4**	1.4	4.9	9.9	29.5	35.5	650	800	1010	1010	1010	97	16000	-
10	3.1	25	1190	1	119.2	IE3	**BG60Z-../SPE08LA4**	1.2	4.1	8.3	25	30	770	950	1190	1190	1190	97	16000	-
10	3.1	22.5	1320	0.91	132.1	IE3	**BG60Z-../SPE08LA4**	1.1	3.7	7.5	22.5	27	850	1050	1320	1320	1320	97	16000	-
10	3.1	34	870	2.6	87.61	IE3	**BG70Z-../SPE08LA4**	1.7	5.7	11	34	41	560	700	870	870	870	137	20000	-
10	3.1	31	950	2.4	95.74	IE3	**BG70Z-../SPE08LA4**	1.5	5.2	10	31	37.5	620	760	950	950	950	137	20000	-
10	3.1	26	1130	2	113.6	IE3	**BG70Z-../SPE08LA4**	1.3	4.4	8.8	26	31.5	730	900	1130	1130	1130	137	20000	-
10	3.1	24	1240	1.9	124	IE3	**BG70Z-../SPE08LA4**	1.2	4	8	24	29	800	990	1240	1240	1240	137	20000	-
10	3.1	20	1470	1.6	147.2	IE3	**BG70Z-../SPE08LA4**	1	3.3	6.7	20	24	950	1170	1470	1470	1470	137	20000	-
10	3.1	18	1630	1.4	163.8	IE3	**BG70Z-../SPE08LA4**	0.9	3	6.1	18	21.5	1060	1310	1630	1630	1630	137	20000	-
10	3.1	15	1940	1.2	194.4	IE3	**BG70Z-../SPE08LA4**	0.75	2.5	5.1	15	18.5	1260	1550	1940	1940	1940	137	20000	-
10	3.1	14	2100	1.1	210.5	IE3	**BG70Z-../SPE08LA4**	0.7	2.3	4.7	14	17	1360	1680	2100	2100	2100	137	20000	-
10	3.1	12	2450	0.92	249.8	IE3	**BG70Z-../SPE08LA4**	0.6	2	4	12	14	1620	1990	2450	2450	2450	137	20000	-
10	3.1	11.5	2550	0.98	255.5	IE3	**BG70G20-../SPE08LA4**	0.55	1.9	3.9	11.5	14	1660	2000	2550	2550	2550	135	20000	-
10	3.1	10.5	2750	0.9	276.7	IE3	**BG70G20-../SPE08LA4**	0.5	1.8	3.6	10.5	13	1790	2200	2750	2750	2750	135	20000	-
10	3.1	13	2250	2	227.2	IE3	**BG80G40-../SPE08LA4**	0.65	2.2	4.4	13	15.5	1470	1810	2250	2250	2250	216	26000	-
10	3.1	11.5	2500	1.8	252.3	IE3	**BG80G40-../SPE08LA4**	0.55	1.9	3.9	11.5	14	1630	2000	2500	2500	2500	216	26000	-
10	3.1	10.5	2800	1.6	282.8	IE3	**BG80G40-../SPE08LA4**	0.5	1.7	3.5	10.5	12.5	1830	2250	2800	2800	2800	216	26000	-
10	3.1	9.5	3100	1.5	314	IE3	**BG80G40-../SPE08LA4**	0.47	1.5	3.1	9.5	11	2000	2500	3100	3100	3100	216	26000	-
10	3.1	8.3	3600	1.3	360	IE3	**BG80G40-../SPE08LA4**	0.41	1.3	2.7	8.3	10	2300	2850	3600	3600	3600	216	26000	-
10	3.1	7.5	3950	1.2	399.8	IE3	**BG80G40-../SPE08LA4**	0.37	1.2	2.5	7.5	9	2550	3150	3950	3950	3950	216	26000	-
10	3.1	6.8	4350	1.1	436.2	IE3	**BG80G40-../SPE08LA4**	0.34	1.1	2.2	6.8	8.2	2800	3450	4350	4350	4350	216	26000	-
10	3.1	6.1	4800	0.95	484.3	IE3	**BG80G40-../SPE08LA4**	0.3	1	2	6.1	7.4	3100	3850	4800	4800	4800	216	26000	-
10	3.1	5.2	5700	0.8	572	IE3	**BG80G40-../SPE08LA4**	0.26	0.85	1.7	5.2	6.2	3700	4550	5700	5700	5700	216	26000	-
10	3.1	8.3	3600	2.6	360.3	IE3	**BG90G50-../SPE08LA4**	0.41	1.3	2.7	8.3	9.9	2300	2850	3600	3600	3600	326	65000	-
10	3.1	6.8	4350	2.1	435.8	IE3	**BG90G50-../SPE08LA4**	0.34	1.1	2.2	6.8	8.2	2800	3450	4350	4350	4350	326	65000	-
10	3.1	5.9	5000	1.8	504.7	IE3	**BG90G50-../SPE08LA4**	0.29	0.95	1.9	5.9	7.1	3250	4000	5000	5000	5000	326	65000	-
10	3.1	5	5800	1.6	588.8	IE3	**BG90G50-../SPE08LA4**	0.25	0.8	1.6	5	6.1	3800	4700	5800	5800	5800	326	65000	-
10	3.1	4.6	6400	1.4	644.7	IE3	**BG90G50-../SPE08LA4**	0.23	0.75	1.5	4.6	5.5	4150	5100	6400	6400	6400	326	65000	-
10	3.1	4.2	7100	1.3	714.2	IE3	**BG90G50-../SPE08LA4**	0.21	0.7	1.4	4.2	5	4600	5700	7100	7100	7100	326	65000	-
10	3.1	3.3	8800	1	883.7	IE3	**BG90G50-../SPE08LA4**	0.16	0.55	1.1	3.3	4	5700	7000	8800	8800	8800	326	65000	-
10	3.1	3	9700	1.9	976.1	IE3	**BG100G50-../SPE08LA4**	0.15	0.5	1	3	3.6	6300	7800	9700	9700	9700	513	90000	-
10	3.1	2.8	10400	1.8	1043	IE3	**BG100G50-../SPE08LA4**	0.14	0.47	0.95	2.8	3.4	6700	8300	10400	10400	10400	513	90000	-
10	3.1	2.4	12000	1.5	1204	IE3	**BG100G50-../SPE08LA4**	0.12	0.41	0.8	2.4	2.9	7800	9600	12000	12000	12000	513	90000	-
10	3.1	2	14400	1.3	1444	IE3	**BG100G50-../SPE08LA4**	0.1	0.34	0.65	2	2.4	9300	11500	14400	14400	14400	513	90000	-
10	3.1	1.7	16700	1.1	1678	IE3	**BG100G50-../SPE08LA4**	0.085	0.29	0.55	1.7	2.1	10900	13400	16700	16700	16700	513	90000	-
10	3.1	1.6	18600	0.99	1867	IE3	**BG100G50-../SPE08LA4**	0.08	0.26	0.5	1.6	1.9	12100	14900	18600	18600	18600	513	90000	-
10	3.1	1.3	21500	0.86	2154	IE3	**BG100G50-../SPE08LA4**	0.065	0.23	0.46	1.3	1.6	14000	17200	21500	21500	21500	513	90000	-

MN = 13 Nm (PN = 4 kW)

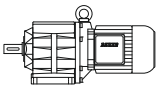


M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
13	4	1190	32.5	1.7	2.52	IE4	**BG10-../S4E09SA4**	59	198	395	1190	1420	21	25	32.5	32.5	32.5	22	570	790
13	4	870	44	1.4	3.42	IE4	**BG10-../S4E09SA4**	43.5	146	290	870	1050	29	34	44	44	44	22	630	880
13	4	680	56	1.2	4.36	IE4	**BG10-../S4E09SA4**	34	114	225	680	820	37	43.5	56	56	56	22	650	910
13	4	560	69	1.1	5.34	IE4	**BG10-../S4E09SA4**	28	93	187	560	670	45	53	69	69	69	22	620	910
13	4	440	88	0.92	6.78	IE4	**BG10-../S4E09SA4**	22	73	147	440	530	57	67	88	88	88	22	660	920
13	4	435	89	0.98	6.89	IE4	**BG10-../S4E09SA4**	21.5	72	145	435	520	58	68	89	89	89	22	850	1200
13	4	390	99	0.9	7.63	IE4	**BG10-../S4E09SA4**	19.5	65	131	390	470	64	76	99	99	99	22	900	1250
13	4	370	104	0.84	8.07	IE4	**BG10-../S4E09SA4**	18.5	61	123	370	445	68	80	104	104	104	22	660	920
13	4	320	121	0.8	9.33	IE4	**BG10-../S4E09SA4**	16	53	107	320	385	79	93	121	121	121	22	950	1330
13	4	1190	32.5	2.6	2.52	IE4	**BG20-../S4E09SA4**	59	198	395	1190	1420	21	25	32.5	32.5	32.5	24	1650	-
13	4	900	43	2.1	3.33	IE4	**BG20-../S4E09SA4**	45	150	300	900	1080	28	33	43	43	43	24	1830	-
13	4	680	56	1.8	4.38	IE4	**BG20-../S4E09SA4**	34	114	225	680	820	37	43.5	56	56	56	24	1990	-
13	4	540	71	1.6	5.49	IE4	**BG20-../S4E09SA4**	27	91	182	540	650	46.5	54	71	71	71	24	2100	-
13	4	495	78	1.6	6.06	IE4	**BG20-../S4E09SA4**	24.5	82	165	495	590	51	60	78	78	78	24	2250	-
13	4	460	84	1.4	6.48	IE4	**BG20-../S4E09SA4**	23	77	154	460	550	55	64	84	84	84	24	2250	-
13	4	445	87	1.5	6.73	IE4	**BG20-../S4E09SA4**	22	74	148	445	530	57	67	87	87	87	24	2350	2100
13	4	370	104	1.3	8.02	IE4	**BG20-../S4E09SA4**	18.5	62	124	370	445	68	80	104	104	104	24	2500	-
13	4	360	107	1.1	8.29	IE4	**BG20-../S4E09SA4**	18	60	120	360	430	70	82	107	107	107	24	2250	-
13	4	335	115	1.2	8.91	IE4	**BG20-../S4E09SA4**	16.5	56	112	335	400	75	89	115	115	115	24	2600	-
13	4	310	125	0.97	9.65	IE4	**BG20-../S4E09SA4**	15.5	51	103	310	370	82	96	125	125	125	24	2250	-
13	4	280	137	1.1	10.54	IE4	**BG20-../S4E09SA4**	14	47	94	280	340	89	105	137	137	137	24	2700	-
13	4	255	152	1	11.71	IE4	**BG20-../S4E09SA4**	12.5	42.5	85	255	305	99	117	152	152	152	24	2800	-
13	4	225	171	0.97	13.21	IE4	**BG20-../S4E09SA4**	11	37.5	75	225	270	112	132	171	171	171	24	2900	-
13	4	200	190	0.9	14.67	IE4	**BG20-../S4E09SA4**	10	34	68	200	245	124	146	190	190	190	24	3050	-
13	4	192	200	0.87	15.58	IE4	**BG20-../S4E09SA4**	9.6	32	64	192	230	132	155	200	200	200	24	3100	-
13	4	173	225	0.81	17.31	IE4	**BG20-../S4E09SA4**	8.6	28.5	57	173	205	147	173	225	225	225	24	3200	-
13	4	550	70	2.8	5.44	IE4	**BG30-../S4E09SA4**	27.5	91	183	550	660	46	54	70	70	70	29	1670	-
13	4	440	87	2.5	6.75	IE4	**BG30-../S4E09SA4**	22	74	148	440	530	57	67	87	87	87	29	1760	-
13	4	440	87	2.6	6.76	IE4	**BG30-../S4E09SA4**	22	73	147	440	530	57	67	87	87	87	29	2550	-
13	4	400	97	2.4	7.5	IE4	**BG30-../S4E09SA4**	20	66	133	400	480	63	75	97	97	97	29	2750	-
13	4	375	102	2.1	7.91	IE4	**BG30-../S4E09SA4**	18.5	63	126	375	455	67	79	102	102	102	29	1760	-
13	4	345	111	2.2	8.6	IE4	**BG30-../S4E09SA4**	17	58	116	345	415	73	86	111	111	111	29	2800	-
13	4	310	124	2	9.55	IE4	**BG30-../S4E09SA4**	15.5	52	104	310	375	81	95	124	124	124	29	3000	-
13	4	280	138	1.9	10.65	IE4	**BG30-../S4E09SA4**	14	46.5	93	280	335	90	106	138	138	138	29	2950	-
13	4	250	153	1.8	11.82	IE4	**BG30-../S4E09SA4**	12.5	42	84	250	300	100	118	153	153	153	29	3200	-
13	4	215	179	1.6	13.77	IE4	**BG30-../S4E09SA4**	10.5	36	72	215	260	117	137	179	179	179	29	3150	-
13	4	196	198	1.5	15.27	IE4	**BG30-../S4E09SA4**	9.8	32.5	65	196	235	129	152	198	198	198	29	3450	-
13	4	175	220	1.4	17.06	IE4	**BG30-../S4E09SA4**	8.7	29	58	175	210	145	170	220	220	220	29	3700	-
13	4	158	245	1.2	18.93	IE4	**BG30-../S4E09SA4**	7.9	26	52	158	190	160	189	245	245	245	29	4100	-
13	4	150	255	1.2	19.99	IE4	**BG30-../S4E09SA4**	7.5	25	50	150	180	169	199	255	255	255	29	4200	-
13	4	135	285	1	22.18	IE4	**BG30-../S4E09SA4**	6.7	22.5	45	135	162	188	220	285	285	285	29	4600	-
13	4	117	330	0.91	25.45	IE4	**BG30-../S4E09SA4**	5.8	19.5	39	117	141	215	250	330	330	330	29	4850	-
13	4	106	365	0.82	28.24	IE4	**BG30-../S4E09SA4**	5.3	17.5	35	106	127	240	280	365	365	365	29	5100	-
13	4	390	99	3	7.62	IE4	**BG40-../S4E09SA4**	19.5	65	131	390	470	64	76	99	99	99	43	2650	-
13	4	330	117	2.5	9	IE4	**BG40-../S4E09SA4**	16.5	55	111	330	400	76	90	117	117	117	43	2650	-
13	4	325	119	3	9.23	IE4	**BG40-../S4E09SA4**	16	54	108	325	390	78	92	119	119	119	43	4350	-
13	4	285	134	2.8	10.35	IE4	**BG40-../S4E09SA4**	14	48	96	285	345	87	103	134	134	134	43	4350	-
13	4	260	149	2.6	11.49	IE4	**BG40-../S4E09SA4**	13	43.5	87	260	310	97	114	149	149	149	43	4600	-
13	4	230	167	2.5	12.86	IE4	**BG40-../S4E09SA4**	11.5	38.5	77	230	275	109	128	167	167	167	43	4500	-
13	4	210	185	2.3	14.28	IE4	**BG40-../S4E09SA4**	10.5	35	70	210	250	121	142	185	185	185	43	4900	-
13	4	183	210	2	16.39	IE4	**BG40-../S4E09SA4**	9.1	30.5	61	183	215	139	163	210	210	210	43	5300	-
13	4	164	235	1.8	18.19	IE4	**BG40-../S4E09SA4**	8.2	27	54	164	197	154	181	235	235	235	43	5600	-
13	4	151	255	1.6	19.84	IE4	**BG40-../S4E09SA4**	7.5	25	50	151	181	168	198	255	255	255	43	5800	-
13	4	136	285	1.5	22.02	IE4	**BG40-../S4E09SA4**	6.8	22.5	45	136	163	187	220	285	285	285	43	6000	-
13	4	128	300	1.4	23.43	IE4	**BG40-../S4E09SA4**	6.4	21	42.5	128	153	199	230	300	300	300	43	6200	-
13	4	115	335	1.3	26.01	IE4	**BG40-../S4E09SA4**	5.7	19	38	115	138	220	260	335	335	335	43	6500	-
13	4	102	380	1.1	29.34	IE4	**BG40-../S4E09SA4**	5.1	17	34	102	122	245	290	380	380	380	43	6800	-
13	4	92	420	1	32.57	IE4	**BG40-../S4E09SA4**	4.6	15	30.5	92	110	275	325	420	420	420	43	7000	-
13	4	87	440	0.96	34.2	IE4	**BG40-../S4E09SA4**	4.3	14.5	29	87	105	290	340	440	440	440	43	7000	-
13	4	79	490	0.86	37.96	IE4	**BG40-../S4E09SA4**	3.9	13	26	79	94	320	375	490	490	490	43	7000	-
13	4	74	520	0.81	40.19	IE4	**BG40-../S4E09SA4**	3.7	12	24.5	74	89	340	400	520	520	520	43	7000	-
13	4	181	210	2.9	16.53	IE4	**BG50-../S4E09SA4**	9	30	60	181	215	140	165	210	210	210	51	6500	-
13	4	163	235	2.6	18.33	IE4	**BG50-../S4E09SA4**	8.1	27	54	163	196	155	183	235	235	235	51	7200	-
13	4	136	285	2.2	21.96	IE4	**BG50-../S4E09SA4**	6.8	22.5	45.5	136	163	186	215	285	285	285	51	8000	-
13	4	123	315	2	24.34	IE4	**BG50-../S4E09SA4**	6.1	20.5	41	123	147	205	240	315	315	315	51	8700	-
13	4	101	385	1.6	29.62	IE4	**BG50-../S4E09SA4**	5	16.5	33.5	101	121	250	295	385	385	385	51	8000	-
13	4	91	425	1.5	32.84	IE4	**BG50-../S4E09SA4**	4.5	15	30	91	109	275	325	425	425	425	51	8700	-
13	4	79	490	1.3	37.89	IE4	**BG50-../S4E09SA4**	3.9	13	26	79	95	320	375	490	490	490	51	10000	-
13	4	71	540	1.2	42	IE4	**BG50-../S4E09SA4**	3.5	11.5	23.5	71	85	355	420	540	540	540	51	10000	-
13	4	63	610	1	47.02	IE4	**BG50-../S4E09SA4**	3.1	10.5	21	63	76	395	470	610	610	610	51	10000	-
13	4	57	670	0.93	52.12	IE4	**BG50-../S4E09SA4**	2.8	9.5	19	57	69	440	520	670	670	670	51	10000	-
13	4	50	770	0.82	59.42	IE4	**BG50-../S4E09SA4**	2.5	8.4	16.5	50	60	500	590	770	770	770	51	10000	-
13	4	92	420	2.8	32.48	IE4	**BG60-../S4E09SA4**	4.6	15	30.5	92	110	275	320	420	420	420	82	15400	-
13	4	77	500	2.4	38.85	IE4	**BG60-../S4E09SA4**	3.8	12.5	25.5	77	92	330	385	500	500	500	82	16000	-
13	4	69	550	2.1	43.05	IE4	**BG60-../S4E09SA4**	3.4	11.5	23	69	83	365	430	550	550	550	82	16000	-
13	4	59	650	1.8	50.31	IE4	**BG60-../S4E09SA4**	2.9	9.9	19.5	59	71	425	500	650	650	650	82	16000	-
13	4	53	720	1.7	55.76	IE4	**BG60-../S4E09SA4**	2.6	8.9	17.5	53	64	470	550	720	720	720	82	16000	-

BG-series helical-geared motors

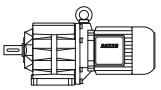
Selection helical-geared motors - n_1 = 3000 $^1/_{min}$

MN = 13 Nm (PN = 4 kW)



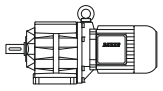
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
13	4	49	790	1.5	60.9	IE4	**BG60-../S4E09SA4**	2.4	8.2	16	49	59	510	600	790	790	790	82	16000	-
13	4	44	870	1.4	67.49	IE4	**BG60-../S4E09SA4**	2.2	7.4	14.5	44	53	570	670	870	870	870	82	16000	-
13	4	43.5	880	1.4	68.32	IE4	**BG60Z-../S4E09SA4**	2.1	7.3	14.5	43.5	52	580	680	880	880	880	101	16000	-
13	4	39.5	980	1.2	75.71	IE4	**BG60Z-../S4E09SA4**	1.9	6.6	13	39.5	47.5	640	750	980	980	980	101	16000	-
13	4	32.5	1180	1	91.09	IE4	**BG60Z-../S4E09SA4**	1.6	5.4	10.5	32.5	39.5	770	910	1180	1180	1180	101	16000	-
13	4	29.5	1310	0.91	101	IE4	**BG60Z-../S4E09SA4**	1.4	4.9	9.9	29.5	35.5	850	1010	1310	1310	1310	101	16000	-
13	4	50	770	3	59.82	IE4	**BG70-../S4E09SA4**	2.5	8.3	16.5	50	60	500	590	770	770	770	120	20000	-
13	4	54	710	2.7	54.64	IE4	**BG70Z-../S4E09SA4**	2.7	9.1	18	54	65	460	540	710	710	710	141	20000	-
13	4	46	840	2.7	64.85	IE4	**BG70Z-../S4E09SA4**	2.3	7.7	15	46	55	550	640	840	840	840	141	20000	-
13	4	40.5	950	2.4	73.82	IE4	**BG70Z-../S4E09SA4**	2	6.7	13.5	40.5	48.5	620	730	950	950	950	141	20000	-
13	4	34	1130	2	87.61	IE4	**BG70Z-../S4E09SA4**	1.7	5.7	11	34	41	740	870	1130	1130	1130	141	20000	-
13	4	31	1240	1.8	95.74	IE4	**BG70Z-../S4E09SA4**	1.5	5.2	10	31	37.5	810	950	1240	1240	1240	141	20000	-
13	4	26	1470	1.6	113.6	IE4	**BG70Z-../S4E09SA4**	1.3	4.4	8.8	26	31.5	960	1130	1470	1470	1470	141	20000	-
13	4	24	1610	1.4	124	IE4	**BG70Z-../S4E09SA4**	1.2	4	8	24	29	1050	1240	1610	1610	1610	141	20000	-
13	4	20	1910	1.2	147.2	IE4	**BG70Z-../S4E09SA4**	1	3.3	6.7	20	24	1250	1470	1910	1910	1910	141	20000	-
13	4	18	2100	1.1	163.8	IE4	**BG70Z-../S4E09SA4**	0.9	3	6.1	18	21.5	1390	1630	2100	2100	2100	141	20000	-
13	4	15	2500	0.91	194.4	IE4	**BG70Z-../S4E09SA4**	0.75	2.5	5.1	15	18.5	1650	1940	2500	2500	2500	141	20000	-
13	4	14	2700	0.84	210.5	IE4	**BG70Z-../S4E09SA4**	0.7	2.3	4.7	14	17	1780	2100	2700	2700	2700	141	20000	-
13	4	26.5	1460	2.9	112.4	IE4	**BG80Z-../S4E09SA4**	1.3	4.4	8.8	26.5	32	950	1120	1460	1460	1460	209	26000	-
13	4	24	1620	2.6	124.8	IE4	**BG80Z-../S4E09SA4**	1.2	4	8	24	28.5	1060	1240	1620	1620	1620	209	26000	-
13	4	20.5	1890	2.2	145.4	IE4	**BG80Z-../S4E09SA4**	1	3.4	6.8	20.5	24.5	1230	1450	1890	1890	1890	209	26000	-
13	4	18.5	2050	2	161.5	IE4	**BG80Z-../S4E09SA4**	0.9	3	6.1	18.5	22	1370	1610	2050	2050	2050	209	26000	-
13	4	16	2400	1.7	186.8	IE4	**BG80Z-../S4E09SA4**	0.8	2.6	5.3	16	19	1580	1860	2400	2400	2400	209	26000	-
13	4	14	2650	1.6	207.4	IE4	**BG80Z-../S4E09SA4**	0.7	2.4	4.8	14	17	1760	2050	2650	2650	2650	209	26000	-
13	4	13	2950	1.6	227.2	IE4	**BG80G40-../S4E09SA4**	0.65	2.2	4.4	13	15.5	1930	2250	2950	2950	2950	220	26000	-
13	4	11.5	3250	1.4	252.3	IE4	**BG80G40-../S4E09SA4**	0.55	1.9	3.9	11.5	14	2100	2500	3250	3250	3250	220	26000	-
13	4	10.5	3650	1.3	282.8	IE4	**BG80G40-../S4E09SA4**	0.5	1.7	3.5	10.5	12.5	2400	2800	3650	3650	3650	220	26000	-
13	4	9.5	4050	1.1	314	IE4	**BG80G40-../S4E09SA4**	0.47	1.5	3.1	9.5	11	2650	3100	4050	4050	4050	220	26000	-
13	4	8.3	4650	0.98	360	IE4	**BG80G40-../S4E09SA4**	0.41	1.3	2.7	8.3	10	3050	3600	4650	4650	4650	220	26000	-
13	4	7.5	5100	0.89	399.8	IE4	**BG80G40-../S4E09SA4**	0.37	1.2	2.5	7.5	9	3350	3950	5100	5100	5100	220	26000	-
13	4	6.8	5600	0.81	436.2	IE4	**BG80G40-../S4E09SA4**	0.34	1.1	2.2	6.8	8.2	3700	4350	5600	5600	5600	220	26000	-
13	4	13	2950	2.8	228.1	IE4	**BG90Z-../S4E09SA4**	0.65	2.1	4.3	13	15.5	1930	2250	2950	2950	2950	319	65000	-
13	4	11	3400	2.7	262.5	IE4	**BG90G50-../S4E09SA4**	0.55	1.9	3.8	11	13.5	2200	2600	3400	3400	3400	330	65000	-
13	4	10	3850	2.4	298.8	IE4	**BG90G50-../S4E09SA4**	0.5	1.6	3.3	10	12	2500	2950	3850	3850	3850	330	65000	-
13	4	8.3	4650	2	360.3	IE4	**BG90G50-../S4E09SA4**	0.41	1.3	2.7	8.3	9.9	3050	3600	4650	4650	4650	330	65000	-
13	4	6.8	5600	1.6	435.8	IE4	**BG90G50-../S4E09SA4**	0.34	1.1	2.2	6.8	8.2	3700	4350	5600	5600	5600	330	65000	-
13	4	5.9	6500	1.4	504.7	IE4	**BG90G50-../S4E09SA4**	0.29	0.95	1.9	5.9	7.1	4250	5000	6500	6500	6500	330	65000	-
13	4	5	7600	1.2	588.8	IE4	**BG90G50-../S4E09SA4**	0.25	0.8	1.6	5	6.1	5000	5800	7600	7600	7600	330	65000	-
13	4	4.6	8300	1.1	644.7	IE4	**BG90G50-../S4E09SA4**	0.23	0.75	1.5	4.6	5.5	5400	6400	8300	8300	8300	330	65000	-
13	4	4.2	9200	0.99	714.2	IE4	**BG90G50-../S4E09SA4**	0.21	0.7	1.4	4.2	5	6000	7100	9200	9200	9200	330	65000	-
13	4	3.3	11400	0.8	883.7	IE4	**BG90G50-../S4E09SA4**	0.16	0.55	1.1	3.3	4	7500	8800	11400	11400	11400	330	65000	-
13	4	5.8	6600	2.8	508.5	IE4	**BG100Z-../S4E09SA4**	0.29	0.95	1.9	5.8	7	4300	5000	6600	6600	6600	518	90000	-
13	4	5	7600	2.4	591.1	IE4	**BG100Z-../S4E09SA4**	0.25	0.8	1.6	5	6	5000	5900	7600	7600	7600	518	90000	-
13	4	4.5	8500	2.2	658.1	IE4	**BG100Z-../S4E09SA4**	0.22	0.75	1.5	4.5	5.4	5500	6500	8500	8500	8500	518	90000	-
13	4	3.9	9800	1.9	759	IE4	**BG100Z-../S4E09SA4**	0.19	0.65	1.3	3.9	4.7	6400	7500	9800	9800	9800	518	90000	-
13	4	3.5	10900	1.7	845.1	IE4	**BG100Z-../S4E09SA4**	0.17	0.55	1.1	3.5	4.2	7100	8400	10900	10900	10900	518	90000	-
13	4	3	12600	1.5	976.1	IE4	**BG100G50-../S4E09SA4**	0.15	0.5	1	3	3.6	8200	9700	12600	12600	12600	517	90000	-
13	4	2.8	13500	1.4	1043	IE4	**BG100G50-../S4E09SA4**	0.14	0.47	0.95	2.8	3.4	8800	10400	13500	13500	13500	517	90000	-
13	4	2.4	15600	1.2	1204	IE4	**BG100G50-../S4E09SA4**	0.12	0.41	0.8	2.4	2.9	10200	12000	15600	15600	15600	517	90000	-
13	4	2	18700	0.99	1444	IE4	**BG100G50-../S4E09SA4**	0.1	0.34	0.65	2	2.4	12200	14400	18700	18700	18700	517	90000	-
13	4	1.7	21500	0.85	1678	IE4	**BG100G50-../S4E09SA4**	0.085	0.29	0.55	1.7	2.1	14200	16700	21500	21500	21500	517	90000	-

MN = 17.5 Nm (PN = 5.5 kW)



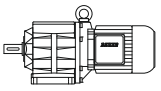
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
17.5	5.5	1190	44	1.3	2.52	IE5	**BG10-../S5E09XA4**	59	198	395	1190	1420	32.5	40	44	44	44	30	570	790
17.5	5.5	870	59	1	3.42	IE5	**BG10-../S5E09XA4**	43.5	146	290	870	1050	44	54	59	59	59	30	630	880
17.5	5.5	680	76	0.89	4.36	IE5	**BG10-../S5E09XA4**	34	114	225	680	820	56	69	76	76	76	30	650	910
17.5	5.5	560	93	0.8	5.34	IE5	**BG10-../S5E09XA4**	28	93	187	560	670	69	85	93	93	93	30	620	910
17.5	5.5	1190	44	1.9	2.52	IE5	**BG20-../S5E09XA4**	59	198	395	1190	1420	32.5	40	44	44	44	32	1650	-
17.5	5.5	900	58	1.6	3.33	IE5	**BG20-../S5E09XA4**	45	150	300	900	1080	43	53	58	58	58	32	1830	-
17.5	5.5	680	76	1.4	4.38	IE5	**BG20-../S5E09XA4**	34	114	225	680	820	56	70	76	76	76	32	1990	-
17.5	5.5	540	96	1.2	5.49	IE5	**BG20-../S5E09XA4**	27	91	182	540	650	71	87	96	96	96	32	2100	-
17.5	5.5	495	106	1.2	6.06	IE5	**BG20-../S5E09XA4**	24.5	82	165	495	590	78	96	106	106	106	32	2250	-
17.5	5.5	460	113	1.1	6.48	IE5	**BG20-../S5E09XA4**	23	77	154	460	550	84	103	113	113	113	32	2250	-
17.5	5.5	445	117	1.1	6.73	IE5	**BG20-../S5E09XA4**	22	74	148	445	530	87	107	117	117	117	32	2350	2100
17.5	5.5	370	140	0.98	8.02	IE5	**BG20-../S5E09XA4**	18.5	62	124	370	445	104	128	140	140	140	32	2500	-
17.5	5.5	360	145	0.84	8.29	IE5	**BG20-../S5E09XA4**	18	60	120	360	430	107	132	145	145	145	32	2250	-
17.5	5.5	335	155	0.92	8.91	IE5	**BG20-../S5E09XA4**	16.5	56	112	335	400	115	142	155	155	155	32	2600	-
17.5	5.5	280	184	0.83	10.54	IE5	**BG20-../S5E09XA4**	14	47	94	280	340	137	168	184	184	184	32	2700	-

MN = 17.5 Nm (PN = 5.5 kW)



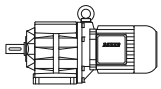
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
17.5	5.5	1120	46.5	2.7	2.67	IE4	**BG30-../S4E11SA6**	56	187	370	1120	1340	46.5	46.5	46.5	46.5	46.5	46	1450	-
17.5	5.5	1120	46.5	2.7	2.67	IE5	**BG30-../S5E09XA4**	56	187	370	1120	1340	34.5	42.5	46.5	46.5	46.5	37	1450	-
17.5	5.5	880	59	2.3	3.4	IE4	**BG30-../S4E11SA6**	44	147	290	880	1050	59	59	59	59	59	46	1580	-
17.5	5.5	880	59	2.3	3.4	IE5	**BG30-../S5E09XA4**	44	147	290	880	1050	44	54	59	59	59	37	1580	-
17.5	5.5	710	73	2.3	4.21	IE4	**BG30-../S4E11SA6**	35.5	118	235	710	850	73	73	73	73	73	46	1630	-
17.5	5.5	710	73	2.3	4.21	IE5	**BG30-../S5E09XA4**	35.5	118	235	710	850	54	67	73	73	73	37	1630	-
17.5	5.5	550	95	2.1	5.44	IE4	**BG30-../S4E11SA6**	27.5	91	183	550	660	95	95	95	95	95	46	1670	-
17.5	5.5	550	95	2.1	5.44	IE5	**BG30-../S5E09XA4**	27.5	91	183	550	660	70	87	95	95	95	37	1670	-
17.5	5.5	440	118	1.8	6.75	IE4	**BG30-../S4E11SA6**	22	74	148	440	530	118	118	118	118	118	46	1760	-
17.5	5.5	440	118	1.9	6.76	IE4	**BG30-../S4E11SA6**	22	73	147	440	530	118	118	118	118	118	46	2550	-
17.5	5.5	440	118	1.8	6.75	IE5	**BG30-../S5E09XA4**	22	74	148	440	530	87	108	118	118	118	37	1760	-
17.5	5.5	440	118	1.9	6.76	IE5	**BG30-../S5E09XA4**	22	73	147	440	530	87	108	118	118	118	37	2550	-
17.5	5.5	400	131	1.8	7.5	IE4	**BG30-../S4E11SA6**	20	66	133	400	480	131	131	131	131	131	46	2750	-
17.5	5.5	400	131	1.8	7.5	IE5	**BG30-../S5E09XA4**	20	66	133	400	480	97	120	131	131	131	37	2750	-
17.5	5.5	375	138	1.6	7.91	IE4	**BG30-../S4E11SA6**	18.5	63	126	375	455	138	138	138	138	138	46	1760	-
17.5	5.5	375	138	1.6	7.91	IE5	**BG30-../S5E09XA4**	18.5	63	126	375	455	102	126	138	138	138	37	1760	-
17.5	5.5	345	150	1.6	8.6	IE4	**BG30-../S4E11SA6**	17	58	116	345	415	150	150	150	150	150	46	2800	-
17.5	5.5	345	150	1.6	8.6	IE5	**BG30-../S5E09XA4**	17	58	116	345	415	111	137	150	150	150	37	2800	-
17.5	5.5	310	167	1.5	9.55	IE4	**BG30-../S4E11SA6**	15.5	52	104	310	375	167	167	167	167	167	46	3000	-
17.5	5.5	310	167	1.5	9.55	IE5	**BG30-../S5E09XA4**	15.5	52	104	310	375	124	152	167	167	167	37	3000	-
17.5	5.5	280	186	1.4	10.65	IE4	**BG30-../S4E11SA6**	14	46.5	93	280	335	186	186	186	186	186	46	2950	-
17.5	5.5	280	186	1.4	10.65	IE5	**BG30-../S5E09XA4**	14	46.5	93	280	335	138	170	186	186	186	37	2950	-
17.5	5.5	250	205	1.3	11.82	IE4	**BG30-../S4E11SA6**	12.5	42	84	250	300	205	205	205	205	205	46	3200	-
17.5	5.5	250	205	1.3	11.82	IE5	**BG30-../S5E09XA4**	12.5	42	84	250	300	153	189	205	205	205	37	3200	-
17.5	5.5	215	240	1.2	13.77	IE4	**BG30-../S4E11SA6**	10.5	36	72	215	260	240	240	240	240	240	46	3150	-
17.5	5.5	215	240	1.2	13.77	IE5	**BG30-../S5E09XA4**	10.5	36	72	215	260	179	220	240	240	240	37	3150	-
17.5	5.5	196	265	1.1	15.27	IE4	**BG30-../S4E11SA6**	9.8	32.5	65	196	235	265	265	265	265	265	46	3450	-
17.5	5.5	196	265	1.1	15.27	IE5	**BG30-../S5E09XA4**	9.8	32.5	65	196	235	198	240	265	265	265	37	3450	-
17.5	5.5	175	295	1	17.06	IE4	**BG30-../S4E11SA6**	8.7	29	58	175	210	295	295	295	295	295	46	3700	-
17.5	5.5	175	295	1	17.06	IE5	**BG30-../S5E09XA4**	8.7	29	58	175	210	220	270	295	295	295	37	3700	-
17.5	5.5	158	330	0.91	18.93	IE4	**BG30-../S4E11SA6**	7.9	26	52	158	190	330	330	330	330	330	46	4100	-
17.5	5.5	158	330	0.91	18.93	IE5	**BG30-../S5E09XA4**	7.9	26	52	158	190	245	300	330	330	330	37	4100	-
17.5	5.5	150	345	0.86	19.99	IE4	**BG30-../S4E11SA6**	7.5	25	50	150	180	345	345	345	345	345	46	4200	-
17.5	5.5	150	345	0.86	19.99	IE5	**BG30-../S5E09XA4**	7.5	25	50	150	180	255	315	345	345	345	37	4200	-
17.5	5.5	475	110	2.7	6.29	IE4	**BG40-../S4E11SA6**	23.5	79	158	475	570	110	110	110	110	110	65	2600	-
17.5	5.5	475	110	2.7	6.29	IE5	**BG40-../S5E09XA4**	23.5	79	158	475	570	81	100	110	110	110	51	2600	-
17.5	5.5	465	112	2.8	6.4	IE4	**BG40-../S4E11SA6**	23	78	156	465	560	112	112	112	112	112	65	3750	-
17.5	5.5	465	112	2.8	6.4	IE5	**BG40-../S5E09XA4**	23	78	156	465	560	83	102	112	112	112	51	3750	-
17.5	5.5	420	124	2.6	7.11	IE4	**BG40-../S4E11SA6**	21	70	140	420	500	124	124	124	124	124	65	3950	-
17.5	5.5	420	124	2.6	7.11	IE5	**BG40-../S5E09XA4**	21	70	140	420	500	92	113	124	124	124	51	3950	-
17.5	5.5	390	133	2.2	7.62	IE4	**BG40-../S4E11SA6**	19.5	65	131	390	470	133	133	133	133	133	65	2650	-
17.5	5.5	390	133	2.2	7.62	IE5	**BG40-../S5E09XA4**	19.5	65	131	390	470	99	121	133	133	133	51	2650	-
17.5	5.5	360	145	2.3	8.31	IE4	**BG40-../S4E11SA6**	18	60	120	360	430	145	145	145	145	145	65	4100	-
17.5	5.5	360	145	2.3	8.31	IE5	**BG40-../S5E09XA4**	18	60	120	360	430	108	132	145	145	145	51	4100	-
17.5	5.5	330	157	1.9	9	IE4	**BG40-../S4E11SA6**	16.5	55	111	330	400	157	157	157	157	157	65	2650	-
17.5	5.5	330	157	1.9	9	IE5	**BG40-../S5E09XA4**	16.5	55	111	330	400	117	144	157	157	157	51	2650	-
17.5	5.5	325	161	2.2	9.23	IE4	**BG40-../S4E11SA6**	16	54	108	325	390	161	161	161	161	161	65	4350	-
17.5	5.5	325	161	2.2	9.23	IE5	**BG40-../S5E09XA4**	16	54	108	325	390	119	147	161	161	161	51	4350	-
17.5	5.5	285	181	2.1	10.35	IE4	**BG40-../S4E11SA6**	14	48	96	285	345	181	181	181	181	181	65	4350	-
17.5	5.5	285	181	2.1	10.35	IE5	**BG40-../S5E09XA4**	14	48	96	285	345	134	165	181	181	181	51	4350	-
17.5	5.5	260	200	1.9	11.49	IE4	**BG40-../S4E11SA6**	13	43.5	87	260	310	200	200	200	200	200	65	4600	-
17.5	5.5	260	200	1.9	11.49	IE5	**BG40-../S5E09XA4**	13	43.5	87	260	310	149	183	200	200	200	51	4600	-
17.5	5.5	230	225	1.8	12.86	IE4	**BG40-../S4E11SA6**	11.5	38.5	77	230	275	225	225	225	225	225	65	4500	-
17.5	5.5	230	225	1.8	12.86	IE5	**BG40-../S5E09XA4**	11.5	38.5	77	230	275	167	205	225	225	225	51	4500	-
17.5	5.5	210	245	1.7	14.28	IE4	**BG40-../S4E11SA6**	10.5	35	70	210	250	245	245	245	245	245	65	4900	-
17.5	5.5	210	245	1.7	14.28	IE5	**BG40-../S5E09XA4**	10.5	35	70	210	250	185	225	245	245	245	51	4900	-
17.5	5.5	183	285	1.5	16.39	IE4	**BG40-../S4E11SA6**	9.1	30.5	61	183	215	285	285	285	285	285	65	5300	-
17.5	5.5	183	285	1.5	16.39	IE5	**BG40-../S5E09XA4**	9.1	30.5	61	183	215	210	260	285	285	285	51	5300	-
17.5	5.5	164	315	1.3	18.19	IE4	**BG40-../S4E11SA6**	8.2	27	54	164	197	315	315	315	315	315	65	5600	-
17.5	5.5	164	315	1.3	18.19	IE5	**BG40-../S5E09XA4**	8.2	27	54	164	197	235	290	315	315	315	51	5600	-
17.5	5.5	151	345	1.2	19.84	IE4	**BG40-../S4E11SA6**	7.5	25	50	151	181	345	345	345	345	345	65	5800	-
17.5	5.5	151	345	1.2	19.84	IE5	**BG40-../S5E09XA4**	7.5	25	50	151	181	255	315	345	345	345	51	5800	-
17.5	5.5	136	385	1.1	22.02	IE4	**BG40-../S4E11SA6**	6.8	22.5	45	136	163	385	385	385	385	385	65	6000	-
17.5	5.5	136	385	1.1	22.02	IE5	**BG40-../S5E09XA4**	6.8	22.5	45	136	163	285	350	385	385	385	51	6000	-
17.5	5.5	128	410	1	23.43	IE4	**BG40-../S4E11SA6**	6.4	21	42.5	128	153	410	410	410	410	410	65	6200	-
17.5	5.5	128	410	1	23.43	IE5	**BG40-../S5E09XA4**	6.4	21	42.5	128	153	300	370	410	410	410	51	6200	-
17.5	5.5	115	455	0.93	26.01	IE4	**BG40-../S4E11SA6**	5.7	19	38	115	138	455	455	455	455	455	65	6500	-
17.5	5.5	115	455	0.93	26.01	IE5	**BG40-../S5E09XA4**	5.7	19	38	115	138	335	415	455	455	455	51	6500	-
17.5	5.5	102	510	0.83	29.34	IE5	**BG40-../S5E09XA4**	5.1	17	34	102	122	380	465	510	510	510	51	6800	-
17.5	5.5	245	210	2.7	12.06	IE4	**BG50-../S4E11SA6**	12	41	82	245	295	210	210	210	210	210	75	5700	-
17.5	5.5	245	210	2.7	12.06	IE5	**BG50-../S5E09XA4**	12	41	82	245	295	156	192	210	210	210	59	5700	-
17.5	5.5	220	230	2.5	13.36	IE4	**BG50-../S4E11SA6**	11	37	74	220	265	230	230	230	230	230	75	6100	-
17.5	5.5	220	230	2.5	13.36	IE5	**BG50-../S5E09XA4**	11	37	74	220	265	173	210	230	230	230	59	6100	-
17.5	5.5	181	285	2.2	16.53	IE4	**BG50-../S4E11SA6**	9	30	60	181	215	285	285	285	285	285	75	6500	-
17.5	5.5	181	285	2.2	16.53	IE5	**BG50-../S5E09XA4**	9	30	60	181	215	210	260	285	285	285	59	6500	-
17.5	5.5	163	320	2	18.33	IE4	**BG50-../S4E11SA6**	8.1	27	54	163	196	320	320	320	320	320	75	7200	-
17.5	5.5	163	320	2	18.33	IE5	**BG50-../S5E09XA4**	8.1	27	54	163	196	235	290	320	320	320	59	7200	-
17.5	5.5	136	380	1.6	21.96	IE4	**BG50-../S4E11SA6**	6.8	22.5	45.5	136	163	380	380	380	380	380	75	8000	-
17.5	5.5	136	380	1.6	21.96	IE5	**BG50-../S5E09XA4**	6.8	22.5	45.5	136	163	285	350	380	380	380	59	8000	-
17.5	5.5	123	425	1.5	24.34	IE4	**BG50-../S4E11SA6**	6.1	20.5	41	123	147	425	425	425	425	425	75	8700	-

MN = 17.5 Nm (PN = 5.5 kW)



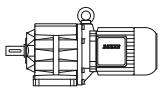
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
17.5	5.5	123	425	1.5	24.34	IE5	**BG50-../S5E09XA4**	6.1	20.5	41	123	147	315	385	425	425	425	59	8700	-
17.5	5.5	101	510	1.2	29.62	IE4	**BG50-../S4E11SA6**	5	16.5	33.5	101	121	510	510	510	510	510	75	8000	-
17.5	5.5	101	510	1.2	29.62	IE5	**BG50-../S5E09XA4**	5	16.5	33.5	101	121	385	470	510	510	510	59	8000	-
17.5	5.5	91	570	1.1	32.84	IE4	**BG50-../S4E11SA6**	4.5	15	30	91	109	570	570	570	570	570	75	8700	-
17.5	5.5	91	570	1.1	32.84	IE5	**BG50-../S5E09XA4**	4.5	15	30	91	109	425	520	570	570	570	59	8700	-
17.5	5.5	79	660	0.95	37.89	IE4	**BG50-../S4E11SA6**	3.9	13	26	79	95	660	660	660	660	660	75	10000	-
17.5	5.5	79	660	0.95	37.89	IE5	**BG50-../S5E09XA4**	3.9	13	26	79	95	490	600	660	660	660	59	10000	-
17.5	5.5	71	730	0.86	42	IE4	**BG50-../S4E11SA6**	3.5	11.5	23.5	71	85	730	730	730	730	730	75	10000	-
17.5	5.5	71	730	0.86	42	IE5	**BG50-../S5E09XA4**	3.5	11.5	23.5	71	85	540	670	730	730	730	59	10000	-
17.5	5.5	120	430	2.8	24.82	IE4	**BG60-../S4E11SA6**	6	20	40	120	145	430	430	430	430	430	107	13800	-
17.5	5.5	120	430	2.8	24.82	IE5	**BG60-../S5E09XA4**	6	20	40	120	145	320	395	430	430	430	90	13800	-
17.5	5.5	102	510	2.3	29.31	IE4	**BG60-../S4E11SA6**	5.1	17	34	102	122	510	510	510	510	510	107	14800	-
17.5	5.5	102	510	2.3	29.31	IE5	**BG60-../S5E09XA4**	5.1	17	34	102	122	380	465	510	510	510	90	14800	-
17.5	5.5	92	560	2.1	32.48	IE4	**BG60-../S4E11SA6**	4.6	15	30.5	92	110	560	560	560	560	560	107	15400	-
17.5	5.5	92	560	2.1	32.48	IE5	**BG60-../S5E09XA4**	4.6	15	30.5	92	110	420	510	560	560	560	90	15400	-
17.5	5.5	77	670	1.8	38.85	IE4	**BG60-../S4E11SA6**	3.8	12.5	25.5	77	92	670	670	670	670	670	107	16000	-
17.5	5.5	77	670	1.8	38.85	IE5	**BG60-../S5E09XA4**	3.8	12.5	25.5	77	92	500	620	670	670	670	90	16000	-
17.5	5.5	69	750	1.6	43.05	IE4	**BG60-../S4E11SA6**	3.4	11.5	23	69	83	750	750	750	750	750	107	16000	-
17.5	5.5	69	750	1.6	43.05	IE5	**BG60-../S5E09XA4**	3.4	11.5	23	69	83	550	680	750	750	750	90	16000	-
17.5	5.5	59	880	1.4	50.31	IE4	**BG60-../S4E11SA6**	2.9	9.9	19.5	59	71	880	880	880	880	880	107	16000	-
17.5	5.5	59	880	1.4	50.31	IE5	**BG60-../S5E09XA4**	2.9	9.9	19.5	59	71	650	800	880	880	880	90	16000	-
17.5	5.5	53	970	1.2	55.76	IE4	**BG60-../S4E11SA6**	2.6	8.9	17.5	53	64	970	970	970	970	970	107	16000	-
17.5	5.5	53	970	1.2	55.76	IE5	**BG60-../S5E09XA4**	2.6	8.9	17.5	53	64	720	890	970	970	970	90	16000	-
17.5	5.5	49	1060	1.1	60.9	IE4	**BG60-../S4E11SA6**	2.4	8.2	16	49	59	1060	1060	1060	1060	1060	107	16000	-
17.5	5.5	49	1060	1.1	60.9	IE5	**BG60-../S5E09XA4**	2.4	8.2	16	49	59	790	970	1060	1060	1060	90	16000	-
17.5	5.5	44	1180	1	67.49	IE4	**BG60-../S4E11SA6**	2.2	7.4	14.5	44	53	1180	1180	1180	1180	1180	107	16000	-
17.5	5.5	44	1180	1	67.49	IE5	**BG60-../S5E09XA4**	2.2	7.4	14.5	44	53	870	1070	1180	1180	1180	90	16000	-
17.5	5.5	43.5	1190	1	68.32	IE4	**BG60Z-../S4E11SA6**	2.1	7.3	14.5	43.5	52	1190	1190	1190	1190	1190	123	16000	-
17.5	5.5	43.5	1190	1	68.32	IE5	**BG60Z-../S5E09XA4**	2.1	7.3	14.5	43.5	52	880	1090	1190	1190	1190	109	16000	-
17.5	5.5	39.5	1320	0.91	75.71	IE4	**BG60Z-../S4E11SA6**	1.9	6.6	13	39.5	47.5	1320	1320	1320	1320	1320	123	16000	-
17.5	5.5	39.5	1320	0.91	75.71	IE5	**BG60Z-../S5E09XA4**	1.9	6.6	13	39.5	47.5	980	1210	1320	1320	1320	109	16000	-
17.5	5.5	64	810	2.8	46.54	IE4	**BG70-../S4E11SA6**	3.2	10.5	21	64	77	810	810	810	810	810	138	20000	-
17.5	5.5	64	810	2.8	46.54	IE5	**BG70-../S5E09XA4**	3.2	10.5	21	64	77	600	740	810	810	810	128	20000	-
17.5	5.5	59	880	2.6	50.4	IE4	**BG70-../S4E11SA6**	2.9	9.9	19.5	59	71	880	880	880	880	880	138	20000	-
17.5	5.5	59	880	2.6	50.4	IE5	**BG70-../S5E09XA4**	2.9	9.9	19.5	59	71	650	800	880	880	880	128	20000	-
17.5	5.5	50	1040	2.2	59.82	IE4	**BG70-../S4E11SA6**	2.5	8.3	16.5	50	60	1040	1040	1040	1040	1040	138	20000	-
17.5	5.5	50	1040	2.2	59.82	IE5	**BG70-../S5E09XA4**	2.5	8.3	16.5	50	60	770	950	1040	1040	1040	128	20000	-
17.5	5.5	54	950	2	54.64	IE4	**BG70Z-../S4E11SA6**	2.7	9.1	18	54	65	950	950	950	950	950	164	20000	-
17.5	5.5	54	950	2	54.64	IE5	**BG70Z-../S5E09XA4**	2.7	9.1	18	54	65	710	870	950	950	950	149	20000	-
17.5	5.5	46	1130	2	64.85	IE4	**BG70Z-../S4E11SA6**	2.3	7.7	15	46	55	1130	1130	1130	1130	1130	164	20000	-
17.5	5.5	46	1130	2	64.85	IE5	**BG70Z-../S5E09XA4**	2.3	7.7	15	46	55	840	1030	1130	1130	1130	149	20000	-
17.5	5.5	40.5	1290	1.8	73.82	IE4	**BG70Z-../S4E11SA6**	2	6.7	13.5	40.5	48.5	1290	1290	1290	1290	1290	164	20000	-
17.5	5.5	40.5	1290	1.8	73.82	IE5	**BG70Z-../S5E09XA4**	2	6.7	13.5	40.5	48.5	950	1180	1290	1290	1290	149	20000	-
17.5	5.5	34	1530	1.5	87.61	IE4	**BG70Z-../S4E11SA6**	1.7	5.7	11	34	41	1530	1530	1530	1530	1530	164	20000	-
17.5	5.5	34	1530	1.5	87.61	IE5	**BG70Z-../S5E09XA4**	1.7	5.7	11	34	41	1130	1400	1530	1530	1530	149	20000	-
17.5	5.5	31	1670	1.4	95.74	IE4	**BG70Z-../S4E11SA6**	1.5	5.2	10	31	37.5	1670	1670	1670	1670	1670	164	20000	-
17.5	5.5	31	1670	1.4	95.74	IE5	**BG70Z-../S5E09XA4**	1.5	5.2	10	31	37.5	1240	1530	1670	1670	1670	149	20000	-
17.5	5.5	26	1980	1.2	113.6	IE4	**BG70Z-../S4E11SA6**	1.3	4.4	8.8	26	31.5	1980	1980	1980	1980	1980	164	20000	-
17.5	5.5	26	1980	1.2	113.6	IE5	**BG70Z-../S5E09XA4**	1.3	4.4	8.8	26	31.5	1470	1810	1980	1980	1980	149	20000	-
17.5	5.5	24	2150	1.1	124	IE4	**BG70Z-../S4E11SA6**	1.2	4	8	24	29	2150	2150	2150	2150	2150	164	20000	-
17.5	5.5	24	2150	1.1	124	IE5	**BG70Z-../S5E09XA4**	1.2	4	8	24	29	1610	1980	2150	2150	2150	149	20000	-
17.5	5.5	20	2550	0.89	147.2	IE4	**BG70Z-../S4E11SA6**	1	3.3	6.7	20	24	2550	2550	2550	2550	2550	164	20000	-
17.5	5.5	20	2550	0.89	147.2	IE5	**BG70Z-../S5E09XA4**	1	3.3	6.7	20	24	1910	2350	2550	2550	2550	149	20000	-
17.5	5.5	18	2850	0.8	163.8	IE4	**BG70Z-../S4E11SA6**	0.9	3	6.1	18	21.5	2850	2850	2850	2850	2850	164	20000	-
17.5	5.5	18	2850	0.8	163.8	IE5	**BG70Z-../S5E09XA4**	0.9	3	6.1	18	21.5	2100	2600	2850	2850	2850	149	20000	-
17.5	5.5	35	1470	2.8	84.55	IE4	**BG80Z-../S4E11SA6**	1.7	5.9	11.5	35	42.5	1470	1470	1470	1470	1470	234	26000	-
17.5	5.5	35	1470	2.8	84.55	IE5	**BG80Z-../S5E09XA4**	1.7	5.9	11.5	35	42.5	1090	1350	1470	1470	1470	217	26000	-
17.5	5.5	31.5	1640	2.6	93.89	IE4	**BG80Z-../S4E11SA6**	1.5	5.3	10.5	31.5	38	1640	1640	1640	1640	1640	234	26000	-
17.5	5.5	31.5	1640	2.6	93.89	IE5	**BG80Z-../S5E09XA4**	1.5	5.3	10.5	31.5	38	1220	1500	1640	1640	1640	217	26000	-
17.5	5.5	26.5	1960	2.1	112.4	IE4	**BG80Z-../S4E11SA6**	1.3	4.4	8.8	26.5	32	1960	1960	1960	1960	1960	234	26000	-
17.5	5.5	26.5	1960	2.1	112.4	IE5	**BG80Z-../S5E09XA4**	1.3	4.4	8.8	26.5	32	1460	1790	1960	1960	1960	217	26000	-
17.5	5.5	24	2150	1.9	124.8	IE4	**BG80Z-../S4E11SA6**	1.2	4	8	24	28.5	2150	2150	2150	2150	2150	234	26000	-
17.5	5.5	24	2150	1.9	124.8	IE5	**BG80Z-../S5E09XA4**	1.2	4	8	24	28.5	1620	1990	2150	2150	2150	217	26000	-
17.5	5.5	20.5	2500	1.7	145.4	IE4	**BG80Z-../S4E11SA6**	1	3.4	6.8	20.5	24.5	2500	2500	2500	2500	2500	234	26000	-
17.5	5.5	20.5	2500	1.7	145.4	IE5	**BG80Z-../S5E09XA4**	1	3.4	6.8	20.5	24.5	1890	2300	2500	2500	2500	217	26000	-
17.5	5.5	18.5	2800	1.5	161.5	IE4	**BG80Z-../S4E11SA6**	0.9	3	6.1	18.5	22	2800	2800	2800	2800	2800	234	26000	-
17.5	5.5	18.5	2800	1.5	161.5	IE5	**BG80Z-../S5E09XA4**	0.9	3	6.1	18.5	22	2050	2550	2800	2800	2800	217	26000	-
17.5	5.5	16	3250	1.3	186.8	IE4	**BG80Z-../S4E11SA6**	0.8	2.6	5.3	16	19	3250	3250	3250	3250	3250	234	26000	-
17.5	5.5	16	3250	1.3	186.8	IE5	**BG80Z-../S5E09XA4**	0.8	2.6	5.3	16	19	2400	2950	3250	3250	3250	217	26000	-
17.5	5.5	14	3600	1.2	207.4	IE4	**BG80Z-../S4E11SA6**	0.7	2.4	4.8	14	17	3600	3600	3600	3600	3600	234	26000	-
17.5	5.5	14	3600	1.2	207.4	IE5	**BG80Z-../S5E09XA4**	0.7	2.4	4.8	14	17	2650	3300	3600	3600	3600	217	26000	-
17.5	5.5	13	3950	1.2	227.2	IE4	**BG80G40-../S4E11SA6**	0.65	2.2	4.4	13	15.5	3950	3950	3950	3950	3950	242	26000	-
17.5	5.5	13	3950	1.2	227.2	IE5	**BG80G40-../S5E09XA4**	0.65	2.2	4.4	13	15.5	2950	3600	3950	3950	3950	228	26000	-
17.5	5.5	11.5	4400	1	252.3	IE4	**BG80G40-../S4E11SA6**	0.55	1.9	3.9	11.5	14	4400	4400	4400	4400	4400	242	26000	-
17.5	5.5	11.5	4400	1	252.3	IE5	**BG80G40-../S5E09XA4**	0.55	1.9	3.9	11.5	14	3250	4000	4400	4400	4400	228	26000	-
17.5	5.5	10.5	4900	0.93	282.8	IE4	**BG80G40-../S4E11SA6**	0.5	1.7	3.5	10.5	12.5	4900	4900	4900	4900	4900	242	26000	-
17.5	5.5	10.5	4900	0.93	282.8	IE5	**BG80G40-../S5E09XA4**	0.5	1.7	3.5	10.5	12.5	3650	4500	4900	4900	4900	228	26000	-
17.5	5.5	9.5	5400	0.84	314	IE4	**BG80G40-../S4E11SA6**	0.47	1.5	3.1	9.5	11	5400	5400	5400	5400	5400	242	26000	-
17.5	5.5	9.5	5400	0.84	314	IE5	**BG80G40-../S5E09XA4**	0.47	1.5	3.1	9.5	11	4050	5000	5400	5400	5400	228	26000	-

MN = 17.5 Nm (PN = 5.5 kW)



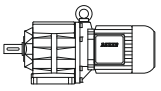
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
17.5	5.5	18	2850	2.9	163	IE4	**BG90Z-../S4E11SA6**	0.9	3	6.1	18	22	2850	2850	2850	2850	2850	336	65000	-
17.5	5.5	18	2850	2.9	163	IE5	**BG90Z-../S5E09XA4**	0.9	3	6.1	18	22	2100	2600	2850	2850	2850	327	65000	-
17.5	5.5	16.5	3100	2.7	178.5	IE4	**BG90Z-../S4E11SA6**	0.8	2.8	5.6	16.5	20	3100	3100	3100	3100	3100	336	65000	-
17.5	5.5	16.5	3100	2.7	178.5	IE5	**BG90Z-../S5E09XA4**	0.8	2.8	5.6	16.5	20	2300	2850	3100	3100	3100	327	65000	-
17.5	5.5	14	3600	2.3	208.3	IE4	**BG90Z-../S4E11SA6**	0.7	2.4	4.8	14	17	3600	3600	3600	3600	3600	336	65000	-
17.5	5.5	14	3600	2.3	208.3	IE5	**BG90Z-../S5E09XA4**	0.7	2.4	4.8	14	17	2700	3300	3600	3600	3600	327	65000	-
17.5	5.5	13	3950	2.1	228.1	IE4	**BG90Z-../S4E11SA6**	0.65	2.1	4.3	13	15.5	3950	3950	3950	3950	3950	336	65000	-
17.5	5.5	13	3950	2.1	228.1	IE5	**BG90Z-../S5E09XA4**	0.65	2.1	4.3	13	15.5	2950	3600	3950	3950	3950	327	65000	-
17.5	5.5	13.5	3800	2.4	219.9	IE4	**BG90G50-../S4E11SA6**	0.65	2.2	4.5	13.5	16	3800	3800	3800	3800	3800	353	65000	-
17.5	5.5	13.5	3800	2.4	219.9	IE5	**BG90G50-../S5E09XA4**	0.65	2.2	4.5	13.5	16	2850	3500	3800	3800	3800	338	65000	-
17.5	5.5	11	4550	2	262.5	IE4	**BG90G50-../S4E11SA6**	0.55	1.9	3.8	11	13.5	4550	4550	4550	4550	4550	353	65000	-
17.5	5.5	11	4550	2	262.5	IE5	**BG90G50-../S5E09XA4**	0.55	1.9	3.8	11	13.5	3400	4200	4550	4550	4550	338	65000	-
17.5	5.5	10	5200	1.8	298.8	IE4	**BG90G50-../S4E11SA6**	0.5	1.6	3.3	10	12	5200	5200	5200	5200	5200	353	65000	-
17.5	5.5	10	5200	1.8	298.8	IE5	**BG90G50-../S5E09XA4**	0.5	1.6	3.3	10	12	3850	4750	5200	5200	5200	338	65000	-
17.5	5.5	8.3	6300	1.5	360.3	IE4	**BG90G50-../S4E11SA6**	0.41	1.3	2.7	8.3	9.9	6300	6300	6300	6300	6300	353	65000	-
17.5	5.5	8.3	6300	1.5	360.3	IE5	**BG90G50-../S5E09XA4**	0.41	1.3	2.7	8.3	9.9	4650	5700	6300	6300	6300	338	65000	-
17.5	5.5	6.8	7600	1.2	435.8	IE4	**BG90G50-../S4E11SA6**	0.34	1.1	2.2	6.8	8.2	7600	7600	7600	7600	7600	353	65000	-
17.5	5.5	6.8	7600	1.2	435.8	IE5	**BG90G50-../S5E09XA4**	0.34	1.1	2.2	6.8	8.2	5600	6900	7600	7600	7600	338	65000	-
17.5	5.5	5.9	8800	1	504.7	IE4	**BG90G50-../S4E11SA6**	0.29	0.95	1.9	5.9	7.1	8800	8800	8800	8800	8800	353	65000	-
17.5	5.5	5.9	8800	1	504.7	IE5	**BG90G50-../S5E09XA4**	0.29	0.95	1.9	5.9	7.1	6500	8000	8800	8800	8800	338	65000	-
17.5	5.5	5	10300	0.89	588.8	IE4	**BG90G50-../S4E11SA6**	0.25	0.8	1.6	5	6.1	10300	10300	10300	10300	10300	353	65000	-
17.5	5.5	5	10300	0.89	588.8	IE5	**BG90G50-../S5E09XA4**	0.25	0.8	1.6	5	6.1	7600	9400	10300	10300	10300	338	65000	-
17.5	5.5	4.6	11200	0.82	644.7	IE4	**BG90G50-../S4E11SA6**	0.23	0.75	1.5	4.6	5.5	11200	11200	11200	11200	11200	353	65000	-
17.5	5.5	4.6	11200	0.82	644.7	IE5	**BG90G50-../S5E09XA4**	0.23	0.75	1.5	4.6	5.5	8300	10300	11200	11200	11200	338	65000	-
17.5	5.5	7.8	6600	2.8	382.6	IE4	**BG100Z-../S4E11SA6**	0.39	1.3	2.6	7.8	9.4	6600	6600	6600	6600	6600	543	90000	-
17.5	5.5	7.8	6600	2.8	382.6	IE5	**BG100Z-../S5E09XA4**	0.39	1.3	2.6	7.8	9.4	4950	6100	6600	6600	6600	526	90000	-
17.5	5.5	6.5	7900	2.3	456.7	IE4	**BG100Z-../S4E11SA6**	0.32	1	2.1	6.5	7.8	7900	7900	7900	7900	7900	543	90000	-
17.5	5.5	6.5	7900	2.3	456.7	IE5	**BG100Z-../S5E09XA4**	0.32	1	2.1	6.5	7.8	5900	7300	7900	7900	7900	526	90000	-
17.5	5.5	5.8	8800	2.1	508.5	IE4	**BG100Z-../S4E11SA6**	0.29	0.95	1.9	5.8	7	8800	8800	8800	8800	8800	543	90000	-
17.5	5.5	5.8	8800	2.1	508.5	IE5	**BG100Z-../S5E09XA4**	0.29	0.95	1.9	5.8	7	6600	8100	8800	8800	8800	526	90000	-
17.5	5.5	5	10300	1.8	591.1	IE4	**BG100Z-../S4E11SA6**	0.25	0.8	1.6	5	6	10300	10300	10300	10300	10300	543	90000	-
17.5	5.5	5	10300	1.8	591.1	IE5	**BG100Z-../S5E09XA4**	0.25	0.8	1.6	5	6	7600	9400	10300	10300	10300	526	90000	-
17.5	5.5	4.5	11500	1.6	658.1	IE4	**BG100Z-../S4E11SA6**	0.22	0.75	1.5	4.5	5.4	11500	11500	11500	11500	11500	543	90000	-
17.5	5.5	4.5	11500	1.6	658.1	IE5	**BG100Z-../S5E09XA4**	0.22	0.75	1.5	4.5	5.4	8500	10500	11500	11500	11500	526	90000	-
17.5	5.5	3.9	13200	1.4	759	IE4	**BG100Z-../S4E11SA6**	0.19	0.65	1.3	3.9	4.7	13200	13200	13200	13200	13200	543	90000	-
17.5	5.5	3.9	13200	1.4	759	IE5	**BG100Z-../S5E09XA4**	0.19	0.65	1.3	3.9	4.7	9800	12100	13200	13200	13200	526	90000	-
17.5	5.5	3.5	14700	1.3	845.1	IE4	**BG100Z-../S4E11SA6**	0.17	0.55	1.1	3.5	4.2	14700	14700	14700	14700	14700	543	90000	-
17.5	5.5	3.5	14700	1.3	845.1	IE5	**BG100Z-../S5E09XA4**	0.17	0.55	1.1	3.5	4.2	10900	13500	14700	14700	14700	526	90000	-
17.5	5.5	3	17000	1.1	976.1	IE4	**BG100G50-../S4E11SA6**	0.15	0.5	1	3	3.6	17000	17000	17000	17000	17000	540	90000	-
17.5	5.5	3	17000	1.1	976.1	IE5	**BG100G50-../S5E09XA4**	0.15	0.5	1	3	3.6	12600	15600	17000	17000	17000	525	90000	-
17.5	5.5	2.8	18200	1	1043	IE4	**BG100G50-../S4E11SA6**	0.14	0.47	0.95	2.8	3.4	18200	18200	18200	18200	18200	540	90000	-
17.5	5.5	2.8	18200	1	1043	IE5	**BG100G50-../S5E09XA4**	0.14	0.47	0.95	2.8	3.4	13500	16600	18200	18200	18200	525	90000	-
17.5	5.5	2.4	21000	0.88	1204	IE4	**BG100G50-../S4E11SA6**	0.12	0.41	0.8	2.4	2.9	21000	21000	21000	21000	21000	540	90000	-
17.5	5.5	2.4	21000	0.88	1204	IE5	**BG100G50-../S5E09XA4**	0.12	0.41	0.8	2.4	2.9	15600	19200	21000	21000	21000	525	90000	-

MN = 20 Nm (PN = 6.3 kW)



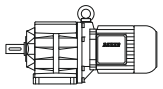
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
20	6.3	1190	50	1.1	2.52	IE5	**BG10-../S5E09XA4**	59	198	395	1190	1420	32.5	40	50	50	44	30	570	790
20	6.3	870	68	0.91	3.42	IE5	**BG10-../S5E09XA4**	43.5	146	290	870	1050	44	54	68	68	59	30	630	880
20	6.3	1190	50	1.7	2.52	IE5	**BG20-../S5E09XA4**	59	198	395	1190	1420	32.5	40	50	50	44	32	1650	-
20	6.3	900	66	1.4	3.33	IE5	**BG20-../S5E09XA4**	45	150	300	900	1080	43	53	66	66	58	32	1830	-
20	6.3	680	87	1.2	4.38	IE5	**BG20-../S5E09XA4**	34	114	225	680	820	56	70	87	87	76	32	1990	-
20	6.3	540	109	1	5.49	IE5	**BG20-../S5E09XA4**	27	91	182	540	650	71	87	109	109	96	32	2100	-
20	6.3	495	121	1	6.06	IE5	**BG20-../S5E09XA4**	24.5	82	165	495	590	78	96	121	121	106	32	2250	-
20	6.3	460	129	0.94	6.48	IE5	**BG20-../S5E09XA4**	23	77	154	460	550	84	103	129	129	113	32	2250	-
20	6.3	445	134	0.97	6.73	IE5	**BG20-../S5E09XA4**	22	74	148	445	530	87	107	134	134	117	32	2350	2100
20	6.3	370	160	0.85	8.02	IE5	**BG20-../S5E09XA4**	18.5	62	124	370	445	104	128	160	160	140	32	2500	-
20	6.3	335	178	0.8	8.91	IE5	**BG20-../S5E09XA4**	16.5	56	112	335	400	115	142	178	178	155	32	2600	-
20	6.3	1120	53	2.4	2.67	IE5	**BG30-../S5E09XA4**	56	187	370	1120	1340	34.5	42.5	53	53	46.5	37	1450	-
20	6.3	880	68	2	3.4	IE5	**BG30-../S5E09XA4**	44	147	290	880	1050	44	54	68	68	59	37	1580	-
20	6.3	710	84	2	4.21	IE5	**BG30-../S5E09XA4**	35.5	118	235	710	850	54	67	84	84	73	37	1630	-
20	6.3	550	108	1.8	5.44	IE5	**BG30-../S5E09XA4**	27.5	91	183	550	660	70	87	108	108	95	37	1670	-
20	6.3	440	135	1.6	6.75	IE5	**BG30-../S5E09XA4**	22	74	148	440	530	87	108	135	135	118	37	1760	-
20	6.3	440	135	1.7	6.76	IE5	**BG30-../S5E09XA4**	22	73	147	440	530	87	108	135	135	118	37	2550	-
20	6.3	400	150	1.5	7.5	IE5	**BG30-../S5E09XA4**	20	66	133	400	480	97	120	150	150	131	37	2750	-
20	6.3	375	158	1.4	7.91	IE5	**BG30-../S5E09XA4**	18.5	63	126	375	455	102	126	158	158	138	37	1760	-
20	6.3	345	172	1.4	8.6	IE5	**BG30-../S5E09XA4**	17	58	116	345	415	111	137	172	172	150	37	2800	-
20	6.3	310	191	1.3	9.55	IE5	**BG30-../S5E09XA4**	15.5	52	104	310	375	124	152	191	191	167	37	3000	-
20	6.3	280	210	1.2	10.65	IE5	**BG30-../S5E09XA4**	14	46.5	93	280	335	138	170	210	210	186	37	2950	-
20	6.3	250	235	1.1	11.82	IE5	**BG30-../S5E09XA4**	12.5	42	84	250	300	153	189	235	235	205	37	3200	-
20	6.3	215	275	1.1	13.77	IE5	**BG30-../S5E09XA4**	10.5	36	72	215	260	179	220	275	275	240	37	3150	-
20	6.3	196	305	0.98	15.27	IE5	**BG30-../S5E09XA4**	9.8	32.5	65	196	235	198	240	305	305	265	37	3450	-

MN = 20 Nm (PN = 6.3 kW)



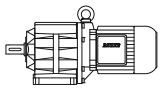
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
20	6.3	175	340	0.88	17.06	IE5	**BG30-../S5E09XA4**	8.7	29	58	175	210	220	270	340	340	295	37	3700	-
20	6.3	750	79	3	3.97	IE5	**BG40-../S5E09XA4**	37.5	125	250	750	900	51	63	79	79	69	51	2400	-
20	6.3	600	98	2.7	4.94	IE5	**BG40-../S5E09XA4**	30	101	200	600	720	64	79	98	98	86	51	2450	-
20	6.3	475	125	2.3	6.29	IE5	**BG40-../S5E09XA4**	23.5	79	158	475	570	81	100	125	125	110	51	2600	-
20	6.3	465	128	2.4	6.4	IE5	**BG40-../S5E09XA4**	23	78	156	465	560	83	102	128	128	112	51	3750	-
20	6.3	420	142	2.3	7.11	IE5	**BG40-../S5E09XA4**	21	70	140	420	500	92	113	142	142	124	51	3950	-
20	6.3	390	152	1.9	7.62	IE5	**BG40-../S5E09XA4**	19.5	65	131	390	470	99	121	152	152	133	51	2650	-
20	6.3	360	166	2	8.31	IE5	**BG40-../S5E09XA4**	18	60	120	360	430	108	132	166	166	145	51	4100	-
20	6.3	330	180	1.6	9	IE5	**BG40-../S5E09XA4**	16.5	55	111	330	400	117	144	180	180	157	51	2650	-
20	6.3	325	184	1.9	9.23	IE5	**BG40-../S5E09XA4**	16	54	108	325	390	119	147	184	184	161	51	4350	-
20	6.3	285	205	1.8	10.35	IE5	**BG40-../S5E09XA4**	14	48	96	285	345	134	165	205	205	181	51	4350	-
20	6.3	260	225	1.7	11.49	IE5	**BG40-../S5E09XA4**	13	43.5	87	260	310	149	183	225	225	200	51	4600	-
20	6.3	230	255	1.6	12.86	IE5	**BG40-../S5E09XA4**	11.5	38.5	77	230	275	167	205	255	255	225	51	4500	-
20	6.3	210	285	1.5	14.28	IE5	**BG40-../S5E09XA4**	10.5	35	70	210	250	185	225	285	285	245	51	4900	-
20	6.3	183	325	1.3	16.39	IE5	**BG40-../S5E09XA4**	9.1	30.5	61	183	215	210	260	325	325	285	51	5300	-
20	6.3	164	360	1.2	18.19	IE5	**BG40-../S5E09XA4**	8.2	27	54	164	197	235	290	360	360	315	51	5600	-
20	6.3	151	395	1.1	19.84	IE5	**BG40-../S5E09XA4**	7.5	25	50	151	181	255	315	395	395	345	51	5800	-
20	6.3	136	440	0.97	22.02	IE5	**BG40-../S5E09XA4**	6.8	22.5	45	136	163	285	350	440	440	385	51	6000	-
20	6.3	128	465	0.91	23.43	IE5	**BG40-../S5E09XA4**	6.4	21	42.5	128	153	300	370	465	465	410	51	6200	-
20	6.3	115	520	0.82	26.01	IE5	**BG40-../S5E09XA4**	5.7	19	38	115	138	335	415	520	520	455	51	6500	-
20	6.3	245	240	2.4	12.06	IE5	**BG50-../S5E09XA4**	12	41	82	245	295	156	192	240	240	210	59	5700	-
20	6.3	220	265	2.2	13.36	IE5	**BG50-../S5E09XA4**	11	37	74	220	265	173	210	265	265	230	59	6100	-
20	6.3	181	330	1.9	16.53	IE5	**BG50-../S5E09XA4**	9	30	60	181	215	210	260	330	330	285	59	6500	-
20	6.3	163	365	1.7	18.33	IE5	**BG50-../S5E09XA4**	8.1	27	54	163	196	235	290	365	365	320	59	7200	-
20	6.3	136	435	1.4	21.96	IE5	**BG50-../S5E09XA4**	6.8	22.5	45.5	136	163	285	350	435	435	380	59	8000	-
20	6.3	123	485	1.3	24.34	IE5	**BG50-../S5E09XA4**	6.1	20.5	41	123	147	315	385	485	485	425	59	8700	-
20	6.3	101	590	1.1	29.62	IE5	**BG50-../S5E09XA4**	5	16.5	33.5	101	121	385	470	590	590	510	59	8000	-
20	6.3	91	650	0.96	32.84	IE5	**BG50-../S5E09XA4**	4.5	15	30	91	109	425	520	650	650	570	59	8700	-
20	6.3	79	750	0.83	37.89	IE5	**BG50-../S5E09XA4**	3.9	13	26	79	95	490	600	750	750	660	59	10000	-
20	6.3	133	445	2.7	22.4	IE5	**BG60-../S5E09XA4**	6.6	22	44.5	133	160	290	355	445	445	390	90	13300	-
20	6.3	120	495	2.4	24.82	IE5	**BG60-../S5E09XA4**	6	20	40	120	145	320	395	495	495	430	90	13800	-
20	6.3	102	580	2	29.31	IE5	**BG60-../S5E09XA4**	5.1	17	34	102	122	380	465	580	580	510	90	14800	-
20	6.3	92	640	1.8	32.48	IE5	**BG60-../S5E09XA4**	4.6	15	30.5	92	110	420	510	640	640	560	90	15400	-
20	6.3	77	770	1.5	38.85	IE5	**BG60-../S5E09XA4**	3.8	12.5	25.5	77	92	500	620	770	770	670	90	16000	-
20	6.3	69	860	1.4	43.05	IE5	**BG60-../S5E09XA4**	3.4	11.5	23	69	83	550	680	860	860	750	90	16000	-
20	6.3	59	1000	1.2	50.31	IE5	**BG60-../S5E09XA4**	2.9	9.9	19.5	59	71	650	800	1000	1000	880	90	16000	-
20	6.3	53	1110	1.1	55.76	IE5	**BG60-../S5E09XA4**	2.6	8.9	17.5	53	64	720	890	1110	1110	970	90	16000	-
20	6.3	49	1210	0.99	60.9	IE5	**BG60-../S5E09XA4**	2.4	8.2	16	49	59	790	970	1210	1210	1060	90	16000	-
20	6.3	44	1340	0.89	67.49	IE5	**BG60-../S5E09XA4**	2.2	7.4	14.5	44	53	870	1070	1340	1340	1180	90	16000	-
20	6.3	43.5	1360	0.88	68.32	IE5	**BG60Z-../S5E09XA4**	2.1	7.3	14.5	43.5	52	880	1090	1360	1360	1190	109	16000	-
20	6.3	76	780	2.9	39.22	IE5	**BG70-../S5E09XA4**	3.8	12.5	25	76	91	500	620	780	780	680	128	19100	-
20	6.3	64	930	2.5	46.54	IE5	**BG70-../S5E09XA4**	3.2	10.5	21	64	77	600	740	930	930	810	128	20000	-
20	6.3	59	1000	2.3	50.4	IE5	**BG70-../S5E09XA4**	2.9	9.9	19.5	59	71	650	800	1000	1000	880	128	20000	-
20	6.3	50	1190	1.9	59.82	IE5	**BG70-../S5E09XA4**	2.5	8.3	16.5	50	60	770	950	1190	1190	1040	128	20000	-
20	6.3	54	1090	1.8	54.64	IE5	**BG70Z-../S5E09XA4**	2.7	9.1	18	54	65	710	870	1090	1090	950	149	20000	-
20	6.3	46	1290	1.8	64.85	IE5	**BG70Z-../S5E09XA4**	2.3	7.7	15	46	55	840	1030	1290	1290	1130	149	20000	-
20	6.3	40.5	1470	1.6	73.82	IE5	**BG70Z-../S5E09XA4**	2	6.7	13.5	40.5	48.5	950	1180	1470	1470	1290	149	20000	-
20	6.3	34	1750	1.3	87.61	IE5	**BG70Z-../S5E09XA4**	1.7	5.7	11	34	41	1130	1400	1750	1750	1530	149	20000	-
20	6.3	31	1910	1.2	95.74	IE5	**BG70Z-../S5E09XA4**	1.5	5.2	10	31	37.5	1240	1530	1910	1910	1670	149	20000	-
20	6.3	26	2250	1	113.6	IE5	**BG70Z-../S5E09XA4**	1.3	4.4	8.8	26	31.5	1470	1810	2250	2250	1980	149	20000	-
20	6.3	24	2450	0.93	124	IE5	**BG70Z-../S5E09XA4**	1.2	4	8	24	29	1610	1980	2450	2450	2150	149	20000	-
20	6.3	40.5	1470	2.8	73.73	IE5	**BG80Z-../S5E09XA4**	2	6.7	13.5	40.5	48.5	950	1170	1470	1470	1290	217	26000	-
20	6.3	35	1690	2.5	84.55	IE5	**BG80Z-../S5E09XA4**	1.7	5.9	11.5	35	42.5	1090	1350	1690	1690	1470	217	26000	-
20	6.3	31.5	1870	2.2	93.89	IE5	**BG80Z-../S5E09XA4**	1.5	5.3	10.5	31.5	38	1220	1500	1870	1870	1640	217	26000	-
20	6.3	26.5	2200	1.9	112.4	IE5	**BG80Z-../S5E09XA4**	1.3	4.4	8.8	26.5	32	1460	1790	2200	2200	1960	217	26000	-
20	6.3	24	2450	1.7	124.8	IE5	**BG80Z-../S5E09XA4**	1.2	4	8	24	28.5	1620	1990	2450	2450	2150	217	26000	-
20	6.3	20.5	2900	1.4	145.4	IE5	**BG80Z-../S5E09XA4**	1	3.4	6.8	20.5	24.5	1890	2300	2900	2900	2500	217	26000	-
20	6.3	18.5	3200	1.3	161.5	IE5	**BG80Z-../S5E09XA4**	0.9	3	6.1	18.5	22	2050	2550	3200	3200	2800	217	26000	-
20	6.3	16	3700	1.1	186.8	IE5	**BG80Z-../S5E09XA4**	0.8	2.6	5.3	16	19	2400	2950	3700	3700	3250	217	26000	-
20	6.3	14	4100	1	207.4	IE5	**BG80Z-../S5E09XA4**	0.7	2.4	4.8	14	17	2650	3300	4100	4100	3600	217	26000	-
20	6.3	13	4500	1	227.2	IE5	**BG80G40-../S5E09XA4**	0.65	2.2	4.4	13	15.5	2950	3600	4500	4500	3950	228	26000	-
20	6.3	11.5	5000	0.91	252.3	IE5	**BG80G40-../S5E09XA4**	0.55	1.9	3.9	11.5	14	3250	4000	5000	5000	4400	228	26000	-
20	6.3	10.5	5600	0.81	282.8	IE5	**BG80G40-../S5E09XA4**	0.5	1.7	3.5	10.5	12.5	3650	4500	5600	5600	4900	228	26000	-
20	6.3	21.5	2750	3	139.2	IE5	**BG90Z-../S5E09XA4**	1	3.5	7.1	21.5	25.5	1800	2200	2750	2750	2400	327	65000	-
20	6.3	18	3250	2.6	163	IE5	**BG90Z-../S5E09XA4**	0.9	3	6.1	18	22	2100	2600	3250	3250	2850	327	65000	-
20	6.3	16.5	3550	2.4	178.5	IE5	**BG90Z-../S5E09XA4**	0.8	2.8	5.6	16.5	20	2300	2850	3550	3550	3100	327	65000	-
20	6.3	14	4150	2	208.3	IE5	**BG90Z-../S5E09XA4**	0.7	2.4	4.8	14	17	2700	3300	4150	4150	3600	327	65000	-
20	6.3	13	4550	1.8	228.1	IE5	**BG90Z-../S5E09XA4**	0.65	2.1	4.3	13	15.5	2950	3600	4550	4550	3950	327	65000	-
20	6.3	13.5	4350	2.1	219.9	IE5	**BG90G50-../S5E09XA4**	0.65	2.2	4.5	13.5	16	2850	3500	4350	4350	3800	338	65000	-
20	6.3	11	5200	1.8	262.5	IE5	**BG90G50-../S5E09XA4**	0.55	1.9	3.8	11	13.5	3400	4200	5200	5200	4550	338	65000	-
20	6.3	10	5900	1.5	298.8	IE5	**BG90G50-../S5E09XA4**	0.5	1.6	3.3	10	12	3850	4750	5900	5900	5200	338	65000	-
20	6.3	8.3	7200	1.3	360.3	IE5	**BG90G50-../S5E09XA4**	0.41	1.3	2.7	8.3	9.9	4650	5700	7200	7200	6300	338	65000	-
20	6.3	6.8	8700	1.1	435.8	IE5	**BG90G50-../S5E09XA4**	0.34	1.1	2.2	6.8	8.2	5600	6900	8700	8700	7600	338	65000	-
20	6.3	5.9	10000	0.91	504.7	IE5	**BG90G50-../S5E09XA4**	0.29	0.95	1.9	5.9	7.1	6500	8000	10000	10000	8800	338	65000	-
20	6.3	8.7	6800	2.7	343.6	IE5	**BG100Z-../S5E09XA4**	0.43	1.4	2.9	8.7	10	4450	5400	6800	6800	6000	526	90000	-

MN = 20 Nm (PN = 6.3 kW)



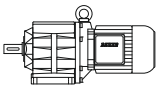
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
20	6.3	7.8	7600	2.4	382.6	IE5	**BG100Z-../S5E09XA4**	0.39	1.3	2.6	7.8	9.4	4950	6100	7600	7600	6600	526	90000	-
20	6.3	6.5	9100	2	456.7	IE5	**BG100Z-../S5E09XA4**	0.32	1	2.1	6.5	7.8	5900	7300	9100	9100	7900	526	90000	-
20	6.3	5.8	10100	1.8	508.5	IE5	**BG100Z-../S5E09XA4**	0.29	0.95	1.9	5.8	7	6600	8100	10100	10100	8800	526	90000	-
20	6.3	5	11800	1.6	591.1	IE5	**BG100Z-../S5E09XA4**	0.25	0.8	1.6	5	6	7600	9400	11800	11800	10300	526	90000	-
20	6.3	4.5	13100	1.4	658.1	IE5	**BG100Z-../S5E09XA4**	0.22	0.75	1.5	4.5	5.4	8500	10500	13100	13100	11500	526	90000	-
20	6.3	3.9	15100	1.2	759	IE5	**BG100Z-../S5E09XA4**	0.19	0.65	1.3	3.9	4.7	9800	12100	15100	15100	13200	526	90000	-
20	6.3	3.5	16900	1.1	845.1	IE5	**BG100Z-../S5E09XA4**	0.17	0.55	1.1	3.5	4.2	10900	13500	16900	16900	14700	526	90000	-
20	6.3	3	19500	0.95	976.1	IE5	**BG100G50-../S5E09XA4**	0.15	0.5	1	3	3.6	12600	15600	19500	19500	17000	525	90000	-
20	6.3	2.8	20500	0.89	1043	IE5	**BG100G50-../S5E09XA4**	0.14	0.47	0.95	2.8	3.4	13500	16600	20500	20500	18200	525	90000	-

MN = 24 Nm (PN = 7.5 kW)



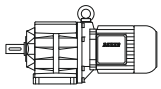
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
24	7.5	1120	64	2	2.67	IE4	**BG30-../S4E11SA6**	56	187	370	1120	1340	50	57	64	64	64	46	1450	-
24	7.5	1120	64	2	2.67	IE5	**BG30-../S5E11MA6**	56	187	370	1120	1340	64	64	64	64	64	46	1450	-
24	7.5	880	81	1.7	3.4	IE4	**BG30-../S4E11SA6**	44	147	290	880	1050	64	73	81	81	81	46	1580	-
24	7.5	880	81	1.7	3.4	IE5	**BG30-../S5E11MA6**	44	147	290	880	1050	81	81	81	81	81	46	1580	-
24	7.5	710	101	1.7	4.21	IE4	**BG30-../S4E11SA6**	35.5	118	235	710	850	79	90	101	101	101	46	1630	-
24	7.5	710	101	1.7	4.21	IE5	**BG30-../S5E11MA6**	35.5	118	235	710	850	101	101	101	101	101	46	1630	-
24	7.5	550	130	1.5	5.44	IE4	**BG30-../S4E11SA6**	27.5	91	183	550	660	103	116	130	130	130	46	1670	-
24	7.5	550	130	1.5	5.44	IE5	**BG30-../S5E11MA6**	27.5	91	183	550	660	130	130	130	130	130	46	1670	-
24	7.5	440	162	1.3	6.75	IE4	**BG30-../S4E11SA6**	22	74	148	440	530	128	145	162	162	162	46	1760	-
24	7.5	440	162	1.4	6.76	IE4	**BG30-../S4E11SA6**	22	73	147	440	530	128	145	162	162	162	46	2550	-
24	7.5	440	162	1.3	6.75	IE5	**BG30-../S5E11MA6**	22	74	148	440	530	162	162	162	162	162	46	1760	-
24	7.5	440	162	1.4	6.76	IE5	**BG30-../S5E11MA6**	22	73	147	440	530	162	162	162	162	162	46	2550	-
24	7.5	400	180	1.3	7.5	IE4	**BG30-../S4E11SA6**	20	66	133	400	480	142	161	180	180	180	46	2750	-
24	7.5	400	180	1.3	7.5	IE5	**BG30-../S5E11MA6**	20	66	133	400	480	180	180	180	180	180	46	2750	-
24	7.5	375	189	1.1	7.91	IE4	**BG30-../S4E11SA6**	18.5	63	126	375	455	150	170	189	189	189	46	1760	-
24	7.5	375	189	1.1	7.91	IE5	**BG30-../S5E11MA6**	18.5	63	126	375	455	189	189	189	189	189	46	1760	-
24	7.5	345	205	1.2	8.6	IE4	**BG30-../S4E11SA6**	17	58	116	345	415	163	184	205	205	205	46	2800	-
24	7.5	345	205	1.2	8.6	IE5	**BG30-../S5E11MA6**	17	58	116	345	415	205	205	205	205	205	46	2800	-
24	7.5	310	225	1.1	9.55	IE4	**BG30-../S4E11SA6**	15.5	52	104	310	375	181	205	225	225	225	46	3000	-
24	7.5	310	225	1.1	9.55	IE5	**BG30-../S5E11MA6**	15.5	52	104	310	375	225	225	225	225	225	46	3000	-
24	7.5	280	255	1	10.65	IE4	**BG30-../S4E11SA6**	14	46.5	93	280	335	200	225	255	255	255	46	2950	-
24	7.5	280	255	1	10.65	IE5	**BG30-../S5E11MA6**	14	46.5	93	280	335	255	255	255	255	255	46	2950	-
24	7.5	250	280	0.95	11.82	IE4	**BG30-../S4E11SA6**	12.5	42	84	250	300	220	250	280	280	280	46	3200	-
24	7.5	250	280	0.95	11.82	IE5	**BG30-../S5E11MA6**	12.5	42	84	250	300	280	280	280	280	280	46	3200	-
24	7.5	215	330	0.88	13.77	IE4	**BG30-../S4E11SA6**	10.5	36	72	215	260	260	295	330	330	330	46	3150	-
24	7.5	215	330	0.88	13.77	IE5	**BG30-../S5E11MA6**	10.5	36	72	215	260	330	330	330	330	330	46	3150	-
24	7.5	196	365	0.82	15.27	IE4	**BG30-../S4E11SA6**	9.8	32.5	65	196	235	290	325	365	365	365	46	3450	-
24	7.5	196	365	0.82	15.27	IE5	**BG30-../S5E11MA6**	9.8	32.5	65	196	235	365	365	365	365	365	46	3450	-
24	7.5	940	76	2.9	3.19	IE4	**BG40-../S4E11SA6**	47	156	310	940	1120	60	68	76	76	76	65	2350	-
24	7.5	940	76	2.9	3.19	IE5	**BG40-../S5E11MA6**	47	156	310	940	1120	76	76	76	76	76	65	2350	-
24	7.5	750	95	2.5	3.97	IE4	**BG40-../S4E11SA6**	37.5	125	250	750	900	75	85	95	95	95	65	2400	-
24	7.5	750	95	2.5	3.97	IE5	**BG40-../S5E11MA6**	37.5	125	250	750	900	95	95	95	95	95	65	2400	-
24	7.5	600	118	2.2	4.94	IE4	**BG40-../S4E11SA6**	30	101	200	600	720	93	106	118	118	118	65	2450	-
24	7.5	600	118	2.2	4.94	IE5	**BG40-../S5E11MA6**	30	101	200	600	720	118	118	118	118	118	65	2450	-
24	7.5	475	150	2	6.29	IE4	**BG40-../S4E11SA6**	23.5	79	158	475	570	119	135	150	150	150	65	2600	-
24	7.5	475	150	2	6.29	IE5	**BG40-../S5E11MA6**	23.5	79	158	475	570	150	150	150	150	150	65	2600	-
24	7.5	465	153	2	6.4	IE4	**BG40-../S4E11SA6**	23	78	156	465	560	121	137	153	153	153	65	3750	-
24	7.5	465	153	2	6.4	IE5	**BG40-../S5E11MA6**	23	78	156	465	560	153	153	153	153	153	65	3750	-
24	7.5	420	170	1.9	7.11	IE4	**BG40-../S4E11SA6**	21	70	140	420	500	135	152	170	170	170	65	3950	-
24	7.5	420	170	1.9	7.11	IE5	**BG40-../S5E11MA6**	21	70	140	420	500	170	170	170	170	170	65	3950	-
24	7.5	390	182	1.6	7.62	IE4	**BG40-../S4E11SA6**	19.5	65	131	390	470	144	163	182	182	182	65	2650	-
24	7.5	390	182	1.6	7.62	IE5	**BG40-../S5E11MA6**	19.5	65	131	390	470	182	182	182	182	182	65	2650	-
24	7.5	360	199	1.7	8.31	IE4	**BG40-../S4E11SA6**	18	60	120	360	430	157	178	199	199	199	65	4100	-
24	7.5	360	199	1.7	8.31	IE5	**BG40-../S5E11MA6**	18	60	120	360	430	199	199	199	199	199	65	4100	-
24	7.5	330	215	1.4	9	IE4	**BG40-../S4E11SA6**	16.5	55	111	330	400	171	193	215	215	215	65	2650	-
24	7.5	330	215	1.4	9	IE5	**BG40-../S5E11MA6**	16.5	55	111	330	400	215	215	215	215	215	65	2650	-
24	7.5	325	220	1.6	9.23	IE4	**BG40-../S4E11SA6**	16	54	108	325	390	175	198	220	220	220	65	4350	-
24	7.5	325	220	1.6	9.23	IE5	**BG40-../S5E11MA6**	16	54	108	325	390	220	220	220	220	220	65	4350	-
24	7.5	285	245	1.5	10.35	IE4	**BG40-../S4E11SA6**	14	48	96	285	345	196	220	245	245	245	65	4350	-
24	7.5	285	245	1.5	10.35	IE5	**BG40-../S5E11MA6**	14	48	96	285	345	245	245	245	245	245	65	4350	-
24	7.5	260	275	1.4	11.49	IE4	**BG40-../S4E11SA6**	13	43.5	87	260	310	215	245	275	275	275	65	4600	-
24	7.5	260	275	1.4	11.49	IE5	**BG40-../S5E11MA6**	13	43.5	87	260	310	275	275	275	275	275	65	4600	-
24	7.5	230	305	1.3	12.86	IE4	**BG40-../S4E11SA6**	11.5	38.5	77	230	275	240	275	305	305	305	65	4500	-
24	7.5	230	305	1.3	12.86	IE5	**BG40-../S5E11MA6**	11.5	38.5	77	230	275	305	305	305	305	305	65	4500	-
24	7.5	210	340	1.2	14.28	IE4	**BG40-../S4E11SA6**	10.5	35	70	210	250	270	305	340	340	340	65	4900	-
24	7.5	210	340	1.2	14.28	IE5	**BG40-../S5E11MA6**	10.5	35	70	210	250	340	340	340	340	340	65	4900	-
24	7.5	183	390	1.1	16.39	IE4	**BG40-../S4E11SA6**	9.1	30.5	61	183	215	310	350	390	390	390	65	5300	-
24	7.5	183	390	1.1	16.39	IE5	**BG40-../S5E11MA6**	9.1	30.5	61	183	215	390	390	390	390	390	65	5300	-
24	7.5	164	435	0.97	18.19	IE4	**BG40-../S4E11SA6**	8.2	27	54	164	197	345	390	435	435	435	65	5600	-
24	7.5	164	435	0.97	18.19	IE5	**BG40-../S5E11MA6**	8.2	27	54	164	197	435	435	435	435	435	65	5600	-
24	7.5	151	475	0.89	19.84	IE4	**BG40-../S4E11SA6**	7.5	25	50	151	181	375	425	475	475	475	65	5800	-
24	7.5	151	475	0.89	19.84	IE5	**BG40-../S5E11MA6**	7.5	25	50	151	181	475	475	475	475	475	65	5800	-

MN = 24 Nm (PN = 7.5 kW)



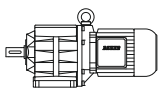
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
24	7.5	136	520	0.8	22.02	IE4	**BG40-../S4E11SA6**	6.8	22.5	45	136	163	415	470	520	520	520	65	6000	-
24	7.5	136	520	0.8	22.02	IE5	**BG40-../S5E11MA6**	6.8	22.5	45	136	163	520	520	520	520	520	65	6000	-
24	7.5	490	145	3	6.07	IE4	**BG50-../S4E11SA6**	24.5	82	164	490	590	115	130	145	145	145	75	4700	-
24	7.5	490	145	3	6.07	IE5	**BG50-../S5E11MA6**	24.5	82	164	490	590	145	145	145	145	145	75	4700	-
24	7.5	445	161	2.8	6.74	IE4	**BG50-../S4E11SA6**	22	74	148	445	530	128	144	161	161	161	75	3750	-
24	7.5	445	161	2.8	6.74	IE5	**BG50-../S5E11MA6**	22	74	148	445	530	161	161	161	161	161	75	3750	-
24	7.5	340	205	2.4	8.7	IE4	**BG50-../S4E11SA6**	17	57	114	340	410	165	187	205	205	205	75	5300	-
24	7.5	340	205	2.4	8.7	IE5	**BG50-../S5E11MA6**	17	57	114	340	410	205	205	205	205	205	75	5300	-
24	7.5	310	230	2.2	9.65	IE4	**BG50-../S4E11SA6**	15.5	51	103	310	370	183	205	230	230	230	75	5600	-
24	7.5	310	230	2.2	9.65	IE5	**BG50-../S5E11MA6**	15.5	51	103	310	370	230	230	230	230	230	75	5600	-
24	7.5	245	285	2	12.06	IE4	**BG50-../S4E11SA6**	12	41	82	245	295	225	255	285	285	285	75	5700	-
24	7.5	245	285	2	12.06	IE5	**BG50-../S5E11MA6**	12	41	82	245	295	285	285	285	285	285	75	5700	-
24	7.5	220	320	1.8	13.36	IE4	**BG50-../S4E11SA6**	11	37	74	220	265	250	285	320	320	320	75	6100	-
24	7.5	220	320	1.8	13.36	IE5	**BG50-../S5E11MA6**	11	37	74	220	265	320	320	320	320	320	75	6100	-
24	7.5	181	395	1.6	16.53	IE4	**BG50-../S4E11SA6**	9	30	60	181	215	310	355	395	395	395	75	6500	-
24	7.5	181	395	1.6	16.53	IE5	**BG50-../S5E11MA6**	9	30	60	181	215	395	395	395	395	395	75	6500	-
24	7.5	163	435	1.4	18.33	IE4	**BG50-../S4E11SA6**	8.1	27	54	163	196	345	390	435	435	435	75	7200	-
24	7.5	163	435	1.4	18.33	IE5	**BG50-../S5E11MA6**	8.1	27	54	163	196	435	435	435	435	435	75	7200	-
24	7.5	136	520	1.2	21.96	IE4	**BG50-../S4E11SA6**	6.8	22.5	45.5	136	163	415	470	520	520	520	75	8000	-
24	7.5	136	520	1.2	21.96	IE5	**BG50-../S5E11MA6**	6.8	22.5	45.5	136	163	520	520	520	520	520	75	8000	-
24	7.5	123	580	1.1	24.34	IE4	**BG50-../S4E11SA6**	6.1	20.5	41	123	147	460	520	580	580	580	75	8700	-
24	7.5	123	580	1.1	24.34	IE5	**BG50-../S5E11MA6**	6.1	20.5	41	123	147	580	580	580	580	580	75	8700	-
24	7.5	101	710	0.89	29.62	IE4	**BG50-../S4E11SA6**	5	16.5	33.5	101	121	560	630	710	710	710	75	8000	-
24	7.5	101	710	0.89	29.62	IE5	**BG50-../S5E11MA6**	5	16.5	33.5	101	121	710	710	710	710	710	75	8000	-
24	7.5	91	780	0.8	32.84	IE4	**BG50-../S4E11SA6**	4.5	15	30	91	109	620	700	780	780	780	75	8700	-
24	7.5	91	780	0.8	32.84	IE5	**BG50-../S5E11MA6**	4.5	15	30	91	109	780	780	780	780	780	75	8700	-
24	7.5	178	400	2.7	16.8	IE4	**BG60-../S4E11SA6**	8.9	29.5	59	178	210	315	360	400	400	400	107	12000	-
24	7.5	178	400	2.7	16.8	IE5	**BG60-../S5E11MA6**	8.9	29.5	59	178	210	400	400	400	400	400	107	12000	-
24	7.5	161	445	2.6	18.62	IE4	**BG60-../S4E11SA6**	8	26.5	53	161	193	350	400	445	445	445	107	12400	-
24	7.5	161	445	2.6	18.62	IE5	**BG60-../S5E11MA6**	8	26.5	53	161	193	445	445	445	445	445	107	12400	-
24	7.5	133	530	2.2	22.4	IE4	**BG60-../S4E11SA6**	6.6	22	44.5	133	160	425	480	530	530	530	107	13300	-
24	7.5	133	530	2.2	22.4	IE5	**BG60-../S5E11MA6**	6.6	22	44.5	133	160	530	530	530	530	530	107	13300	-
24	7.5	120	590	2	24.82	IE4	**BG60-../S4E11SA6**	6	20	40	120	145	470	530	590	590	590	107	13800	-
24	7.5	120	590	2	24.82	IE5	**BG60-../S5E11MA6**	6	20	40	120	145	590	590	590	590	590	107	13800	-
24	7.5	102	700	1.7	29.31	IE4	**BG60-../S4E11SA6**	5.1	17	34	102	122	550	630	700	700	700	107	14800	-
24	7.5	102	700	1.7	29.31	IE5	**BG60-../S5E11MA6**	5.1	17	34	102	122	700	700	700	700	700	107	14800	-
24	7.5	92	770	1.5	32.48	IE4	**BG60-../S4E11SA6**	4.6	15	30.5	92	110	610	690	770	770	770	107	15400	-
24	7.5	92	770	1.5	32.48	IE5	**BG60-../S5E11MA6**	4.6	15	30.5	92	110	770	770	770	770	770	107	15400	-
24	7.5	77	930	1.3	38.85	IE4	**BG60-../S4E11SA6**	3.8	12.5	25.5	77	92	730	830	930	930	930	107	16000	-
24	7.5	77	930	1.3	38.85	IE5	**BG60-../S5E11MA6**	3.8	12.5	25.5	77	92	930	930	930	930	930	107	16000	-
24	7.5	69	1030	1.2	43.05	IE4	**BG60-../S4E11SA6**	3.4	11.5	23	69	83	810	920	1030	1030	1030	107	16000	-
24	7.5	69	1030	1.2	43.05	IE5	**BG60-../S5E11MA6**	3.4	11.5	23	69	83	1030	1030	1030	1030	1030	107	16000	-
24	7.5	59	1200	0.99	50.31	IE4	**BG60-../S4E11SA6**	2.9	9.9	19.5	59	71	950	1080	1200	1200	1200	107	16000	-
24	7.5	59	1200	0.99	50.31	IE5	**BG60-../S5E11MA6**	2.9	9.9	19.5	59	71	1200	1200	1200	1200	1200	107	16000	-
24	7.5	53	1330	0.9	55.76	IE4	**BG60-../S4E11SA6**	2.6	8.9	17.5	53	64	1050	1190	1330	1330	1330	107	16000	-
24	7.5	53	1330	0.9	55.76	IE5	**BG60-../S5E11MA6**	2.6	8.9	17.5	53	64	1330	1330	1330	1330	1330	107	16000	-
24	7.5	49	1460	0.82	60.9	IE4	**BG60-../S4E11SA6**	2.4	8.2	16	49	59	1150	1300	1460	1460	1460	107	16000	-
24	7.5	49	1460	0.82	60.9	IE5	**BG60-../S5E11MA6**	2.4	8.2	16	49	59	1460	1460	1460	1460	1460	107	16000	-
24	7.5	85	840	2.7	35.24	IE4	**BG70-../S4E11SA6**	4.2	14	28	85	102	660	750	840	840	840	138	18300	-
24	7.5	85	840	2.7	35.24	IE5	**BG70-../S5E11MA6**	4.2	14	28	85	102	840	840	840	840	840	138	18300	-
24	7.5	76	940	2.4	39.22	IE4	**BG70-../S4E11SA6**	3.8	12.5	25	76	91	740	840	940	940	940	138	19100	-
24	7.5	76	940	2.4	39.22	IE5	**BG70-../S5E11MA6**	3.8	12.5	25	76	91	940	940	940	940	940	138	19100	-
24	7.5	64	1110	2.1	46.54	IE4	**BG70-../S4E11SA6**	3.2	10.5	21	64	77	880	1000	1110	1110	1110	138	20000	-
24	7.5	64	1110	2.1	46.54	IE5	**BG70-../S5E11MA6**	3.2	10.5	21	64	77	1110	1110	1110	1110	1110	138	20000	-
24	7.5	59	1200	1.9	50.4	IE4	**BG70-../S4E11SA6**	2.9	9.9	19.5	59	71	950	1080	1200	1200	1200	138	20000	-
24	7.5	59	1200	1.9	50.4	IE5	**BG70-../S5E11MA6**	2.9	9.9	19.5	59	71	1200	1200	1200	1200	1200	138	20000	-
24	7.5	50	1430	1.6	59.82	IE4	**BG70-../S4E11SA6**	2.5	8.3	16.5	50	60	1130	1280	1430	1430	1430	138	20000	-
24	7.5	50	1430	1.6	59.82	IE5	**BG70-../S5E11MA6**	2.5	8.3	16.5	50	60	1430	1430	1430	1430	1430	138	20000	-
24	7.5	54	1310	1.5	54.64	IE4	**BG70Z-../S4E11SA6**	2.7	9.1	18	54	65	1030	1170	1310	1310	1310	164	20000	-
24	7.5	54	1310	1.5	54.64	IE5	**BG70Z-../S5E11MA6**	2.7	9.1	18	54	65	1310	1310	1310	1310	1310	164	20000	-
24	7.5	46	1550	1.5	64.85	IE4	**BG70Z-../S4E11SA6**	2.3	7.7	15	46	55	1230	1390	1550	1550	1550	164	20000	-
24	7.5	46	1550	1.5	64.85	IE5	**BG70Z-../S5E11MA6**	2.3	7.7	15	46	55	1550	1550	1550	1550	1550	164	20000	-
24	7.5	40.5	1770	1.3	73.82	IE4	**BG70Z-../S4E11SA6**	2	6.7	13.5	40.5	48.5	1400	1580	1770	1770	1770	164	20000	-
24	7.5	40.5	1770	1.3	73.82	IE5	**BG70Z-../S5E11MA6**	2	6.7	13.5	40.5	48.5	1770	1770	1770	1770	1770	164	20000	-
24	7.5	34	2100	1.1	87.61	IE4	**BG70Z-../S4E11SA6**	1.7	5.7	11	34	41	1660	1880	2100	2100	2100	164	20000	-
24	7.5	34	2100	1.1	87.61	IE5	**BG70Z-../S5E11MA6**	1.7	5.7	11	34	41	2100	2100	2100	2100	2100	164	20000	-
24	7.5	31	2250	1	95.74	IE4	**BG70Z-../S4E11SA6**	1.5	5.2	10	31	37.5	1810	2050	2250	2250	2250	164	20000	-
24	7.5	31	2250	1	95.74	IE5	**BG70Z-../S5E11MA6**	1.5	5.2	10	31	37.5	2250	2250	2250	2250	2250	164	20000	-
24	7.5	26	2700	0.84	113.6	IE4	**BG70Z-../S4E11SA6**	1.3	4.4	8.8	26	31.5	2150	2400	2700	2700	2700	164	20000	-
24	7.5	26	2700	0.84	113.6	IE5	**BG70Z-../S5E11MA6**	1.3	4.4	8.8	26	31.5	2700	2700	2700	2700	2700	164	20000	-
24	7.5	47	1520	2.8	63.56	IE4	**BG80-../S4E11SA6**	2.3	7.8	15.5	47	56	1200	1360	1520	1520	1520	192	26000	-
24	7.5	47	1520	2.8	63.56	IE5	**BG80-../S5E11MA6**	2.3	7.8	15.5	47	56	1520	1520	1520	1520	1520	192	26000	-
24	7.5	45	1590	2.6	66.4	IE4	**BG80Z-../S4E11SA6**	2.2	7.5	15	45	54	1260	1420	1590	1590	1590	234	26000	-
24	7.5	45	1590	2.6	66.4	IE5	**BG80Z-../S5E11MA6**	2.2	7.5	15	45	54	1590	1590	1590	1590	1590	234	26000	-
24	7.5	40.5	1760	2.4	73.73	IE4	**BG80Z-../S4E11SA6**	2	6.7	13.5	40.5	48.5	1400	1580	1760	1760	1760	234	26000	-
24	7.5	40.5	1760	2.4	73.73	IE5	**BG80Z-../S5E11MA6**	2	6.7	13.5	40.5	48.5	1760	1760	1760	1760	1760	234	26000	-
24	7.5	35	2000	2.1	84.55	IE4	**BG80Z-../S4E11SA6**	1.7	5.9	11.5	35	42.5	1600	1810	2000	2000	2000	234	26000	-
24	7.5	35	2000	2.1	84.55	IE5	**BG80Z-../S5E11MA6**	1.7	5.9	11.5	35	42.5	2000	2000	2000	2000	2000	234	26000	-

MN = 24 Nm (PN = 7.5 kW)



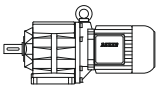
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
24	7.5	31.5	2250	1.9	93.89	IE4	**BG80Z-../S4E11SA6**	1.5	5.3	10.5	31.5	38	1780	2000	2250	2250	2250	234	26000	-
24	7.5	31.5	2250	1.9	93.89	IE5	**BG80Z-../S5E11MA6**	1.5	5.3	10.5	31.5	38	2250	2250	2250	2250	2250	234	26000	-
24	7.5	26.5	2650	1.6	112.4	IE4	**BG80Z-../S4E11SA6**	1.3	4.4	8.8	26.5	32	2100	2400	2650	2650	2650	234	26000	-
24	7.5	26.5	2650	1.6	112.4	IE5	**BG80Z-../S5E11MA6**	1.3	4.4	8.8	26.5	32	2650	2650	2650	2650	2650	234	26000	-
24	7.5	24	2950	1.4	124.8	IE4	**BG80Z-../S4E11SA6**	1.2	4	8	24	28.5	2350	2650	2950	2950	2950	234	26000	-
24	7.5	24	2950	1.4	124.8	IE5	**BG80Z-../S5E11MA6**	1.2	4	8	24	28.5	2950	2950	2950	2950	2950	234	26000	-
24	7.5	20.5	3450	1.2	145.4	IE4	**BG80Z-../S4E11SA6**	1	3.4	6.8	20.5	24.5	2750	3100	3450	3450	3450	234	26000	-
24	7.5	20.5	3450	1.2	145.4	IE5	**BG80Z-../S5E11MA6**	1	3.4	6.8	20.5	24.5	3450	3450	3450	3450	3450	234	26000	-
24	7.5	18.5	3850	1.1	161.5	IE4	**BG80Z-../S4E11SA6**	0.9	3	6.1	18.5	22	3050	3450	3850	3850	3850	234	26000	-
24	7.5	18.5	3850	1.1	161.5	IE5	**BG80Z-../S5E11MA6**	0.9	3	6.1	18.5	22	3850	3850	3850	3850	3850	234	26000	-
24	7.5	16	4450	0.94	186.8	IE4	**BG80Z-../S4E11SA6**	0.8	2.6	5.3	16	19	3500	4000	4450	4450	4450	234	26000	-
24	7.5	16	4450	0.94	186.8	IE5	**BG80Z-../S5E11MA6**	0.8	2.6	5.3	16	19	4450	4450	4450	4450	4450	234	26000	-
24	7.5	14	4950	0.84	207.4	IE4	**BG80Z-../S4E11SA6**	0.7	2.4	4.8	14	17	3900	4450	4950	4950	4950	234	26000	-
24	7.5	14	4950	0.84	207.4	IE5	**BG80Z-../S5E11MA6**	0.7	2.4	4.8	14	17	4950	4950	4950	4950	4950	234	26000	-
24	7.5	13	5400	0.84	227.2	IE4	**BG80G40-../S4E11SA6**	0.65	2.2	4.4	13	15.5	4300	4850	5400	5400	5400	242	26000	-
24	7.5	13	5400	0.84	227.2	IE5	**BG80G40-../S5E11MA6**	0.65	2.2	4.4	13	15.5	5400	5400	5400	5400	5400	242	26000	-
24	7.5	23.5	3050	2.8	127.1	IE4	**BG90Z-../S4E11SA6**	1.1	3.9	7.8	23.5	28	2400	2700	3050	3050	3050	336	65000	-
24	7.5	23.5	3050	2.8	127.1	IE5	**BG90Z-../S5E11MA6**	1.1	3.9	7.8	23.5	28	3050	3050	3050	3050	3050	336	65000	-
24	7.5	21.5	3300	2.5	139.2	IE4	**BG90Z-../S4E11SA6**	1	3.5	7.1	21.5	25.5	2600	2950	3300	3300	3300	336	65000	-
24	7.5	21.5	3300	2.5	139.2	IE5	**BG90Z-../S5E11MA6**	1	3.5	7.1	21.5	25.5	3300	3300	3300	3300	3300	336	65000	-
24	7.5	18	3900	2.1	163	IE4	**BG90Z-../S4E11SA6**	0.9	3	6.1	18	22	3050	3500	3900	3900	3900	336	65000	-
24	7.5	18	3900	2.1	163	IE5	**BG90Z-../S5E11MA6**	0.9	3	6.1	18	22	3900	3900	3900	3900	3900	336	65000	-
24	7.5	16.5	4250	2	178.5	IE4	**BG90Z-../S4E11SA6**	0.8	2.8	5.6	16.5	20	3350	3800	4250	4250	4250	336	65000	-
24	7.5	16.5	4250	2	178.5	IE5	**BG90Z-../S5E11MA6**	0.8	2.8	5.6	16.5	20	4250	4250	4250	4250	4250	336	65000	-
24	7.5	14	4950	1.7	208.3	IE4	**BG90Z-../S4E11SA6**	0.7	2.4	4.8	14	17	3950	4450	4950	4950	4950	336	65000	-
24	7.5	14	4950	1.7	208.3	IE5	**BG90Z-../S5E11MA6**	0.7	2.4	4.8	14	17	4950	4950	4950	4950	4950	336	65000	-
24	7.5	13	5400	1.5	228.1	IE4	**BG90Z-../S4E11SA6**	0.65	2.1	4.3	13	15.5	4300	4900	5400	5400	5400	336	65000	-
24	7.5	13	5400	1.5	228.1	IE5	**BG90Z-../S5E11MA6**	0.65	2.1	4.3	13	15.5	5400	5400	5400	5400	5400	336	65000	-
24	7.5	13.5	5200	1.7	219.9	IE4	**BG90G50-../S4E11SA6**	0.65	2.2	4.5	13.5	16	4150	4700	5200	5200	5200	353	65000	-
24	7.5	13.5	5200	1.7	219.9	IE5	**BG90G50-../S5E11MA6**	0.65	2.2	4.5	13.5	16	5200	5200	5200	5200	5200	353	65000	-
24	7.5	11	6300	1.5	262.5	IE4	**BG90G50-../S4E11SA6**	0.55	1.9	3.8	11	13.5	4950	5600	6300	6300	6300	353	65000	-
24	7.5	11	6300	1.5	262.5	IE5	**BG90G50-../S5E11MA6**	0.55	1.9	3.8	11	13.5	6300	6300	6300	6300	6300	353	65000	-
24	7.5	10	7100	1.3	298.8	IE4	**BG90G50-../S4E11SA6**	0.5	1.6	3.3	10	12	5600	6400	7100	7100	7100	353	65000	-
24	7.5	10	7100	1.3	298.8	IE5	**BG90G50-../S5E11MA6**	0.5	1.6	3.3	10	12	7100	7100	7100	7100	7100	353	65000	-
24	7.5	8.3	8600	1.1	360.3	IE4	**BG90G50-../S4E11SA6**	0.41	1.3	2.7	8.3	9.9	6800	7700	8600	8600	8600	353	65000	-
24	7.5	8.3	8600	1.1	360.3	IE5	**BG90G50-../S5E11MA6**	0.41	1.3	2.7	8.3	9.9	8600	8600	8600	8600	8600	353	65000	-
24	7.5	6.8	10400	0.88	435.8	IE4	**BG90G50-../S4E11SA6**	0.34	1.1	2.2	6.8	8.2	8200	9300	10400	10400	10400	353	65000	-
24	7.5	6.8	10400	0.88	435.8	IE5	**BG90G50-../S5E11MA6**	0.34	1.1	2.2	6.8	8.2	10400	10400	10400	10400	10400	353	65000	-
24	7.5	12.5	5500	3	232.6	IE4	**BG100-../S4E11SA6**	0.6	2.1	4.2	12.5	15	4400	5000	5500	5500	5500	453	90000	-
24	7.5	12.5	5500	3	232.6	IE5	**BG100-../S5E11MA6**	0.6	2.1	4.2	12.5	15	5500	5500	5500	5500	5500	453	90000	-
24	7.5	11.5	6200	2.7	259	IE4	**BG100-../S4E11SA6**	0.55	1.9	3.8	11.5	13.5	4900	5500	6200	6200	6200	453	90000	-
24	7.5	11.5	6200	2.7	259	IE5	**BG100-../S5E11MA6**	0.55	1.9	3.8	11.5	13.5	6200	6200	6200	6200	6200	453	90000	-
24	7.5	11	6400	2.9	269.8	IE4	**BG100Z-../S4E11SA6**	0.55	1.8	3.7	11	13	5100	5800	6400	6400	6400	543	90000	-
24	7.5	11	6400	2.9	269.8	IE5	**BG100Z-../S5E11MA6**	0.55	1.8	3.7	11	13	6400	6400	6400	6400	6400	543	90000	-
24	7.5	9.9	7200	2.6	300.4	IE4	**BG100Z-../S4E11SA6**	0.49	1.6	3.3	9.9	11.5	5700	6400	7200	7200	7200	543	90000	-
24	7.5	9.9	7200	2.6	300.4	IE5	**BG100Z-../S5E11MA6**	0.49	1.6	3.3	9.9	11.5	7200	7200	7200	7200	7200	543	90000	-
24	7.5	8.7	8200	2.2	343.6	IE4	**BG100Z-../S4E11SA6**	0.43	1.4	2.9	8.7	10	6500	7300	8200	8200	8200	543	90000	-
24	7.5	8.7	8200	2.2	343.6	IE5	**BG100Z-../S5E11MA6**	0.43	1.4	2.9	8.7	10	8200	8200	8200	8200	8200	543	90000	-
24	7.5	7.8	9100	2	382.6	IE4	**BG100Z-../S4E11SA6**	0.39	1.3	2.6	7.8	9.4	7200	8200	9100	9100	9100	543	90000	-
24	7.5	7.8	9100	2	382.6	IE5	**BG100Z-../S5E11MA6**	0.39	1.3	2.6	7.8	9.4	9100	9100	9100	9100	9100	543	90000	-
24	7.5	6.5	10900	1.7	456.7	IE4	**BG100Z-../S4E11SA6**	0.32	1	2.1	6.5	7.8	8600	9800	10900	10900	10900	543	90000	-
24	7.5	6.5	10900	1.7	456.7	IE5	**BG100Z-../S5E11MA6**	0.32	1	2.1	6.5	7.8	10900	10900	10900	10900	10900	543	90000	-
24	7.5	5.8	12200	1.5	508.5	IE4	**BG100Z-../S4E11SA6**	0.29	0.95	1.9	5.8	7	9600	10900	12200	12200	12200	543	90000	-
24	7.5	5.8	12200	1.5	508.5	IE5	**BG100Z-../S5E11MA6**	0.29	0.95	1.9	5.8	7	12200	12200	12200	12200	12200	543	90000	-
24	7.5	5	14100	1.3	591.1	IE4	**BG100Z-../S4E11SA6**	0.25	0.8	1.6	5	6	11200	12700	14100	14100	14100	543	90000	-
24	7.5	5	14100	1.3	591.1	IE5	**BG100Z-../S5E11MA6**	0.25	0.8	1.6	5	6	14100	14100	14100	14100	14100	543	90000	-
24	7.5	4.5	15700	1.2	658.1	IE4	**BG100Z-../S4E11SA6**	0.22	0.75	1.5	4.5	5.4	12500	14100	15700	15700	15700	543	90000	-
24	7.5	4.5	15700	1.2	658.1	IE5	**BG100Z-../S5E11MA6**	0.22	0.75	1.5	4.5	5.4	15700	15700	15700	15700	15700	543	90000	-
24	7.5	3.9	18200	1	759	IE4	**BG100Z-../S4E11SA6**	0.19	0.65	1.3	3.9	4.7	14400	16300	18200	18200	18200	543	90000	-
24	7.5	3.9	18200	1	759	IE5	**BG100Z-../S5E11MA6**	0.19	0.65	1.3	3.9	4.7	18200	18200	18200	18200	18200	543	90000	-
24	7.5	3.5	20000	0.91	845.1	IE4	**BG100Z-../S4E11SA6**	0.17	0.55	1.1	3.5	4.2	16000	18100	20000	20000	20000	543	90000	-
24	7.5	3.5	20000	0.91	845.1	IE5	**BG100Z-../S5E11MA6**	0.17	0.55	1.1	3.5	4.2	20000	20000	20000	20000	20000	543	90000	-

MN = 30 Nm (PN = 9.5 kW)



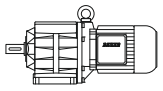
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
30	9.5	1120	80	1.6	2.67	IE5	**BG30-../S5E11LA6**	56	187	370	1120	1340	80	80	80	80	80	58	1450	-
30	9.5	1120	80	1.6	2.67	IE5	**BG30-../S5E11MA6**	56	187	370	1120	1340	70	80	80	80	80	46	1450	-
30	9.5	880	102	1.4	3.4	IE5	**BG30-../S5E11LA6**	44	147	290	880	1050	102	102	102	102	102	58	1580	-
30	9.5	880	102	1.4	3.4	IE5	**BG30-../S5E11MA6**	44	147	290	880	1050	90	102	102	102	102	46	1580	-
30	9.5	710	126	1.4	4.21	IE5	**BG30-../S5E11LA6**	35.5	118	235	710	850	126	126	126	126	126	58	1630	-
30	9.5	710	126	1.4	4.21	IE5	**BG30-../S5E11MA6**	35.5	118	235	710	850	111	126	126	126	126	46	1630	-
30	9.5	550	163	1.2	5.44	IE5	**BG30-../S5E11LA6**	27.5	91	183	550	660	163	163	163	163	163	58	1670	-
30	9.5	550	163	1.2	5.44	IE5	**BG30-../S5E11MA6**	27.5	91	183	550	660	144	163	163	163	163	46	1670	-

MN = 30 Nm (PN = 9.5 kW)



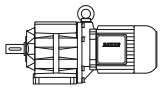
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
30	9.5	440	200	1.1	6.75	IE5	**BG30-../S5E11LA6**	22	74	148	440	530	200	200	200	200	200	58	1760	-
30	9.5	440	200	1.1	6.76	IE5	**BG30-../S5E11LA6**	22	73	147	440	530	200	200	200	200	200	58	2550	-
30	9.5	440	200	1.1	6.75	IE5	**BG30-../S5E11MA6**	22	74	148	440	530	178	200	200	200	200	46	1760	-
30	9.5	440	200	1.1	6.76	IE5	**BG30-../S5E11MA6**	22	73	147	440	530	179	200	200	200	200	46	2550	-
30	9.5	400	225	1	7.5	IE5	**BG30-../S5E11LA6**	20	66	133	400	480	225	225	225	225	225	58	2750	-
30	9.5	400	225	1	7.5	IE5	**BG30-../S5E11MA6**	20	66	133	400	480	198	225	225	225	225	46	2750	-
30	9.5	375	235	0.91	7.91	IE5	**BG30-../S5E11LA6**	18.5	63	126	375	455	235	235	235	235	235	58	1760	-
30	9.5	375	235	0.91	7.91	IE5	**BG30-../S5E11MA6**	18.5	63	126	375	455	205	235	235	235	235	46	1760	-
30	9.5	345	255	0.95	8.6	IE5	**BG30-../S5E11LA6**	17	58	116	345	415	255	255	255	255	255	58	2800	-
30	9.5	345	255	0.95	8.6	IE5	**BG30-../S5E11MA6**	17	58	116	345	415	225	255	255	255	255	46	2800	-
30	9.5	310	285	0.87	9.55	IE5	**BG30-../S5E11LA6**	15.5	52	104	310	375	285	285	285	285	285	58	3000	-
30	9.5	310	285	0.87	9.55	IE5	**BG30-../S5E11MA6**	15.5	52	104	310	375	250	285	285	285	285	46	3000	-
30	9.5	280	315	0.83	10.65	IE5	**BG30-../S5E11LA6**	14	46.5	93	280	335	315	315	315	315	315	58	2950	-
30	9.5	280	315	0.83	10.65	IE5	**BG30-../S5E11MA6**	14	46.5	93	280	335	280	315	315	315	315	46	2950	-
30	9.5	1210	73	2.7	2.46	IE5	**BG40-../S5E11LA6**	60	200	405	1210	1460	73	73	73	73	73	77	2150	-
30	9.5	1210	73	2.7	2.46	IE5	**BG40-../S5E11MA6**	60	200	405	1210	1460	65	73	73	73	73	65	2150	-
30	9.5	940	95	2.3	3.19	IE5	**BG40-../S5E11LA6**	47	156	310	940	1120	95	95	95	95	95	77	2350	-
30	9.5	940	95	2.3	3.19	IE5	**BG40-../S5E11MA6**	47	156	310	940	1120	84	95	95	95	95	65	2350	-
30	9.5	750	119	2	3.97	IE5	**BG40-../S5E11LA6**	37.5	125	250	750	900	119	119	119	119	119	77	2400	-
30	9.5	750	119	2	3.97	IE5	**BG40-../S5E11MA6**	37.5	125	250	750	900	105	119	119	119	119	65	2400	-
30	9.5	600	148	1.8	4.94	IE5	**BG40-../S5E11LA6**	30	101	200	600	720	148	148	148	148	148	77	2450	-
30	9.5	600	148	1.8	4.94	IE5	**BG40-../S5E11MA6**	30	101	200	600	720	130	148	148	148	148	65	2450	-
30	9.5	475	188	1.6	6.29	IE5	**BG40-../S5E11LA6**	23.5	79	158	475	570	188	188	188	188	188	77	2600	-
30	9.5	475	188	1.6	6.29	IE5	**BG40-../S5E11MA6**	23.5	79	158	475	570	166	188	188	188	188	65	2600	-
30	9.5	465	192	1.6	6.4	IE5	**BG40-../S5E11LA6**	23	78	156	465	560	192	192	192	192	192	77	3750	-
30	9.5	465	192	1.6	6.4	IE5	**BG40-../S5E11MA6**	23	78	156	465	560	169	192	192	192	192	65	3750	-
30	9.5	420	210	1.5	7.11	IE5	**BG40-../S5E11LA6**	21	70	140	420	500	210	210	210	210	210	77	3950	-
30	9.5	420	210	1.5	7.11	IE5	**BG40-../S5E11MA6**	21	70	140	420	500	188	210	210	210	210	65	3950	-
30	9.5	390	225	1.3	7.62	IE5	**BG40-../S5E11LA6**	19.5	65	131	390	470	225	225	225	225	225	77	2650	-
30	9.5	390	225	1.3	7.62	IE5	**BG40-../S5E11MA6**	19.5	65	131	390	470	200	225	225	225	225	65	2650	-
30	9.5	360	245	1.4	8.31	IE5	**BG40-../S5E11LA6**	18	60	120	360	430	245	245	245	245	245	77	4100	-
30	9.5	360	245	1.4	8.31	IE5	**BG40-../S5E11MA6**	18	60	120	360	430	220	245	245	245	245	65	4100	-
30	9.5	330	270	1.1	9	IE5	**BG40-../S5E11LA6**	16.5	55	111	330	400	270	270	270	270	270	77	2650	-
30	9.5	330	270	1.1	9	IE5	**BG40-../S5E11MA6**	16.5	55	111	330	400	235	270	270	270	270	65	2650	-
30	9.5	325	275	1.3	9.23	IE5	**BG40-../S5E11LA6**	16	54	108	325	390	275	275	275	275	275	77	4350	-
30	9.5	325	275	1.3	9.23	IE5	**BG40-../S5E11MA6**	16	54	108	325	390	240	275	275	275	275	65	4350	-
30	9.5	285	310	1.2	10.35	IE5	**BG40-../S5E11LA6**	14	48	96	285	345	310	310	310	310	310	77	4350	-
30	9.5	285	310	1.2	10.35	IE5	**BG40-../S5E11MA6**	14	48	96	285	345	270	310	310	310	310	65	4350	-
30	9.5	260	340	1.1	11.49	IE5	**BG40-../S5E11LA6**	13	43.5	87	260	310	340	340	340	340	340	77	4600	-
30	9.5	260	340	1.1	11.49	IE5	**BG40-../S5E11MA6**	13	43.5	87	260	310	300	340	340	340	340	65	4600	-
30	9.5	230	385	1.1	12.86	IE5	**BG40-../S5E11LA6**	11.5	38.5	77	230	275	385	385	385	385	385	77	4500	-
30	9.5	230	385	1.1	12.86	IE5	**BG40-../S5E11MA6**	11.5	38.5	77	230	275	340	385	385	385	385	65	4500	-
30	9.5	210	425	0.98	14.28	IE5	**BG40-../S5E11LA6**	10.5	35	70	210	250	425	425	425	425	425	77	4900	-
30	9.5	210	425	0.98	14.28	IE5	**BG40-../S5E11MA6**	10.5	35	70	210	250	375	425	425	425	425	65	4900	-
30	9.5	183	490	0.86	16.39	IE5	**BG40-../S5E11LA6**	9.1	30.5	61	183	215	490	490	490	490	490	77	5300	-
30	9.5	183	490	0.86	16.39	IE5	**BG40-../S5E11MA6**	9.1	30.5	61	183	215	430	490	490	490	490	65	5300	-
30	9.5	610	147	2.7	4.91	IE5	**BG50-../S5E11LA6**	30.5	101	200	610	730	147	147	147	147	147	86	3500	-
30	9.5	610	147	2.7	4.91	IE5	**BG50-../S5E11MA6**	30.5	101	200	610	730	130	147	147	147	147	75	3500	-
30	9.5	490	182	2.4	6.07	IE5	**BG50-../S5E11LA6**	24.5	82	164	490	590	182	182	182	182	182	86	4700	-
30	9.5	490	182	2.4	6.07	IE5	**BG50-../S5E11MA6**	24.5	82	164	490	590	160	182	182	182	182	75	4700	-
30	9.5	445	200	2.2	6.74	IE5	**BG50-../S5E11LA6**	22	74	148	445	530	200	200	200	200	200	86	3750	-
30	9.5	445	200	2.2	6.74	IE5	**BG50-../S5E11MA6**	22	74	148	445	530	178	200	200	200	200	75	3750	-
30	9.5	340	260	1.9	8.7	IE5	**BG50-../S5E11LA6**	17	57	114	340	410	260	260	260	260	260	86	5300	-
30	9.5	340	260	1.9	8.7	IE5	**BG50-../S5E11MA6**	17	57	114	340	410	230	260	260	260	260	75	5300	-
30	9.5	310	285	1.8	9.65	IE5	**BG50-../S5E11LA6**	15.5	51	103	310	370	285	285	285	285	285	86	5600	-
30	9.5	310	285	1.8	9.65	IE5	**BG50-../S5E11MA6**	15.5	51	103	310	370	255	285	285	285	285	75	5600	-
30	9.5	245	360	1.6	12.06	IE5	**BG50-../S5E11LA6**	12	41	82	245	295	360	360	360	360	360	86	5700	-
30	9.5	245	360	1.6	12.06	IE5	**BG50-../S5E11MA6**	12	41	82	245	295	315	360	360	360	360	75	5700	-
30	9.5	220	400	1.5	13.36	IE5	**BG50-../S5E11LA6**	11	37	74	220	265	400	400	400	400	400	86	6100	-
30	9.5	220	400	1.5	13.36	IE5	**BG50-../S5E11MA6**	11	37	74	220	265	350	400	400	400	400	75	6100	-
30	9.5	181	495	1.3	16.53	IE5	**BG50-../S5E11LA6**	9	30	60	181	215	495	495	495	495	495	86	6500	-
30	9.5	181	495	1.3	16.53	IE5	**BG50-../S5E11MA6**	9	30	60	181	215	435	495	495	495	495	75	6500	-
30	9.5	163	540	1.1	18.33	IE5	**BG50-../S5E11LA6**	8.1	27	54	163	196	540	540	540	540	540	86	7200	-
30	9.5	163	540	1.1	18.33	IE5	**BG50-../S5E11MA6**	8.1	27	54	163	196	485	540	540	540	540	75	7200	-
30	9.5	136	650	0.96	21.96	IE5	**BG50-../S5E11LA6**	6.8	22.5	45.5	136	163	650	650	650	650	650	86	8000	-
30	9.5	136	650	0.96	21.96	IE5	**BG50-../S5E11MA6**	6.8	22.5	45.5	136	163	580	650	650	650	650	75	8000	-
30	9.5	123	730	0.86	24.34	IE5	**BG50-../S5E11LA6**	6.1	20.5	41	123	147	730	730	730	730	730	86	8700	-
30	9.5	123	730	0.86	24.34	IE5	**BG50-../S5E11MA6**	6.1	20.5	41	123	147	640	730	730	730	730	75	8700	-
30	9.5	295	300	3	10.12	IE5	**BG60-../S5E11LA6**	14.5	49	98	295	355	300	300	300	300	300	119	10200	-
30	9.5	295	300	3	10.12	IE5	**BG60-../S5E11MA6**	14.5	49	98	295	355	265	300	300	300	300	107	10200	-
30	9.5	245	360	2.7	12.16	IE5	**BG60-../S5E11LA6**	12	41	82	245	295	360	360	360	360	360	119	10800	-
30	9.5	245	360	2.7	12.16	IE5	**BG60-../S5E11MA6**	12	41	82	245	295	320	360	360	360	360	107	10800	-
30	9.5	220	400	2.5	13.47	IE5	**BG60-../S5E11LA6**	11	37	74	220	265	400	400	400	400	400	119	11200	-
30	9.5	220	400	2.5	13.47	IE5	**BG60-../S5E11MA6**	11	37	74	220	265	355	400	400	400	400	107	11200	-
30	9.5	178	500	2.2	16.8	IE5	**BG60-../S5E11LA6**	8.9	29.5	59	178	210	500	500	500	500	500	119	12000	-
30	9.5	178	500	2.2	16.8	IE5	**BG60-../S5E11MA6**	8.9	29.5	59	178	210	445	500	500	500	500	107	12000	-
30	9.5	161	550	2	18.62	IE5	**BG60-../S5E11LA6**	8	26.5	53	161	193	550	550	550	550	550	119	12400	-
30	9.5	161	550	2	18.62	IE5	**BG60-../S5E11MA6**	8	26.5	53	161	193	490	550	550	550	550	107	12400	-
30	9.5	133	670	1.8	22.4	IE5	**BG60-../S5E11LA6**	6.6	22	44.5	133	160	670	670	670	670	670	119	13300	-

MN = 30 Nm (PN = 9.5 kW)



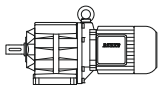
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
30	9.5	133	670	1.8	22.4	IE5	**BG60-../S5E11MA6**	6.6	22	44.5	133	160	590	670	670	670	670	107	13300	-
30	9.5	120	740	1.6	24.82	IE5	**BG60-../S5E11LA6**	6	20	40	120	145	740	740	740	740	740	119	13800	-
30	9.5	120	740	1.6	24.82	IE5	**BG60-../S5E11MA6**	6	20	40	120	145	650	740	740	740	740	107	13800	-
30	9.5	102	870	1.4	29.31	IE5	**BG60-../S5E11LA6**	5.1	17	34	102	122	870	870	870	870	870	119	14800	-
30	9.5	102	870	1.4	29.31	IE5	**BG60-../S5E11MA6**	5.1	17	34	102	122	770	870	870	870	870	107	14800	-
30	9.5	92	970	1.2	32.48	IE5	**BG60-../S5E11LA6**	4.6	15	30.5	92	110	970	970	970	970	970	119	15400	-
30	9.5	92	970	1.2	32.48	IE5	**BG60-../S5E11MA6**	4.6	15	30.5	92	110	860	970	970	970	970	107	15400	-
30	9.5	77	1160	1	38.85	IE5	**BG60-../S5E11LA6**	3.8	12.5	25.5	77	92	1160	1160	1160	1160	1160	119	16000	-
30	9.5	77	1160	1	38.85	IE5	**BG60-../S5E11MA6**	3.8	12.5	25.5	77	92	1020	1160	1160	1160	1160	107	16000	-
30	9.5	69	1290	0.93	43.05	IE5	**BG60-../S5E11LA6**	3.4	11.5	23	69	83	1290	1290	1290	1290	1290	119	16000	-
30	9.5	69	1290	0.93	43.05	IE5	**BG60-../S5E11MA6**	3.4	11.5	23	69	83	1140	1290	1290	1290	1290	107	16000	-
30	9.5	59	1500	0.8	50.31	IE5	**BG60-../S5E11LA6**	2.9	9.9	19.5	59	71	1500	1500	1500	1500	1500	119	16000	-
30	9.5	59	1500	0.8	50.31	IE5	**BG60-../S5E11MA6**	2.9	9.9	19.5	59	71	1330	1500	1500	1500	1500	107	16000	-
30	9.5	110	810	2.8	27.21	IE5	**BG70-../S5E11LA6**	5.5	18	36.5	110	132	810	810	810	810	810	149	16400	-
30	9.5	110	810	2.8	27.21	IE5	**BG70-../S5E11MA6**	5.5	18	36.5	110	132	720	810	810	810	810	138	16400	-
30	9.5	101	890	2.6	29.69	IE5	**BG70-../S5E11LA6**	5	16.5	33.5	101	121	890	890	890	890	890	149	16900	-
30	9.5	101	890	2.6	29.69	IE5	**BG70-../S5E11MA6**	5	16.5	33.5	101	121	780	890	890	890	890	138	16900	-
30	9.5	85	1050	2.2	35.24	IE5	**BG70-../S5E11LA6**	4.2	14	28	85	102	1050	1050	1050	1050	1050	149	18300	-
30	9.5	85	1050	2.2	35.24	IE5	**BG70-../S5E11MA6**	4.2	14	28	85	102	930	1050	1050	1050	1050	138	18300	-
30	9.5	76	1170	2	39.22	IE5	**BG70-../S5E11LA6**	3.8	12.5	25	76	91	1170	1170	1170	1170	1170	149	19100	-
30	9.5	76	1170	2	39.22	IE5	**BG70-../S5E11MA6**	3.8	12.5	25	76	91	1030	1170	1170	1170	1170	138	19100	-
30	9.5	64	1390	1.6	46.54	IE5	**BG70-../S5E11LA6**	3.2	10.5	21	64	77	1390	1390	1390	1390	1390	149	20000	-
30	9.5	64	1390	1.6	46.54	IE5	**BG70-../S5E11MA6**	3.2	10.5	21	64	77	1230	1390	1390	1390	1390	138	20000	-
30	9.5	59	1510	1.5	50.4	IE5	**BG70-../S5E11LA6**	2.9	9.9	19.5	59	71	1510	1510	1510	1510	1510	149	20000	-
30	9.5	59	1510	1.5	50.4	IE5	**BG70-../S5E11MA6**	2.9	9.9	19.5	59	71	1330	1510	1510	1510	1510	138	20000	-
30	9.5	50	1790	1.3	59.82	IE5	**BG70-../S5E11LA6**	2.5	8.3	16.5	50	60	1790	1790	1790	1790	1790	149	20000	-
30	9.5	50	1790	1.3	59.82	IE5	**BG70-../S5E11MA6**	2.5	8.3	16.5	50	60	1580	1790	1790	1790	1790	138	20000	-
30	9.5	54	1630	1.2	54.64	IE5	**BG70Z-../S5E11LA6**	2.7	9.1	18	54	65	1630	1630	1630	1630	1630	176	20000	-
30	9.5	54	1630	1.2	54.64	IE5	**BG70Z-../S5E11MA6**	2.7	9.1	18	54	65	1440	1630	1630	1630	1630	164	20000	-
30	9.5	46	1940	1.2	64.85	IE5	**BG70Z-../S5E11LA6**	2.3	7.7	15	46	55	1940	1940	1940	1940	1940	176	20000	-
30	9.5	46	1940	1.2	64.85	IE5	**BG70Z-../S5E11MA6**	2.3	7.7	15	46	55	1710	1940	1940	1940	1940	164	20000	-
30	9.5	40.5	2200	1	73.82	IE5	**BG70Z-../S5E11LA6**	2	6.7	13.5	40.5	48.5	2200	2200	2200	2200	2200	176	20000	-
30	9.5	40.5	2200	1	73.82	IE5	**BG70Z-../S5E11MA6**	2	6.7	13.5	40.5	48.5	1950	2200	2200	2200	2200	164	20000	-
30	9.5	34	2600	0.88	87.61	IE5	**BG70Z-../S5E11LA6**	1.7	5.7	11	34	41	2600	2600	2600	2600	2600	176	20000	-
30	9.5	34	2600	0.88	87.61	IE5	**BG70Z-../S5E11MA6**	1.7	5.7	11	34	41	2300	2600	2600	2600	2600	164	20000	-
30	9.5	31	2850	0.8	95.74	IE5	**BG70Z-../S5E11LA6**	1.5	5.2	10	31	37.5	2850	2850	2850	2850	2850	176	20000	-
30	9.5	31	2850	0.8	95.74	IE5	**BG70Z-../S5E11MA6**	1.5	5.2	10	31	37.5	2500	2850	2850	2850	2850	164	20000	-
30	9.5	61	1460	2.9	48.8	IE5	**BG80-../S5E11LA6**	3	10	20	61	73	1460	1460	1460	1460	1460	204	23800	-
30	9.5	61	1460	2.9	48.8	IE5	**BG80-../S5E11MA6**	3	10	20	61	73	1290	1460	1460	1460	1460	192	23800	-
30	9.5	52	1710	2.4	57.24	IE5	**BG80-../S5E11LA6**	2.6	8.7	17	52	62	1710	1710	1710	1710	1710	204	25400	-
30	9.5	52	1710	2.4	57.24	IE5	**BG80-../S5E11MA6**	2.6	8.7	17	52	62	1510	1710	1710	1710	1710	192	25400	-
30	9.5	47	1900	2.2	63.56	IE5	**BG80-../S5E11LA6**	2.3	7.8	15.5	47	56	1900	1900	1900	1900	1900	204	26000	-
30	9.5	47	1900	2.2	63.56	IE5	**BG80-../S5E11MA6**	2.3	7.8	15.5	47	56	1680	1900	1900	1900	1900	192	26000	-
30	9.5	45	1990	2.1	66.4	IE5	**BG80Z-../S5E11LA6**	2.2	7.5	15	45	54	1990	1990	1990	1990	1990	246	26000	-
30	9.5	45	1990	2.1	66.4	IE5	**BG80Z-../S5E11MA6**	2.2	7.5	15	45	54	1750	1990	1990	1990	1990	234	26000	-
30	9.5	40.5	2200	1.9	73.73	IE5	**BG80Z-../S5E11LA6**	2	6.7	13.5	40.5	48.5	2200	2200	2200	2200	2200	246	26000	-
30	9.5	40.5	2200	1.9	73.73	IE5	**BG80Z-../S5E11MA6**	2	6.7	13.5	40.5	48.5	1950	2200	2200	2200	2200	234	26000	-
30	9.5	35	2500	1.7	84.55	IE5	**BG80Z-../S5E11LA6**	1.7	5.9	11.5	35	42.5	2500	2500	2500	2500	2500	246	26000	-
30	9.5	35	2500	1.7	84.55	IE5	**BG80Z-../S5E11MA6**	1.7	5.9	11.5	35	42.5	2200	2500	2500	2500	2500	234	26000	-
30	9.5	31.5	2800	1.5	93.89	IE5	**BG80Z-../S5E11LA6**	1.5	5.3	10.5	31.5	38	2800	2800	2800	2800	2800	246	26000	-
30	9.5	31.5	2800	1.5	93.89	IE5	**BG80Z-../S5E11MA6**	1.5	5.3	10.5	31.5	38	2450	2800	2800	2800	2800	234	26000	-
30	9.5	26.5	3350	1.2	112.4	IE5	**BG80Z-../S5E11LA6**	1.3	4.4	8.8	26.5	32	3350	3350	3350	3350	3350	246	26000	-
30	9.5	26.5	3350	1.2	112.4	IE5	**BG80Z-../S5E11MA6**	1.3	4.4	8.8	26.5	32	2950	3350	3350	3350	3350	234	26000	-
30	9.5	24	3700	1.1	124.8	IE5	**BG80Z-../S5E11LA6**	1.2	4	8	24	28.5	3700	3700	3700	3700	3700	246	26000	-
30	9.5	24	3700	1.1	124.8	IE5	**BG80Z-../S5E11MA6**	1.2	4	8	24	28.5	3300	3700	3700	3700	3700	234	26000	-
30	9.5	20.5	4350	0.96	145.4	IE5	**BG80Z-../S5E11LA6**	1	3.4	6.8	20.5	24.5	4350	4350	4350	4350	4350	246	26000	-
30	9.5	20.5	4350	0.96	145.4	IE5	**BG80Z-../S5E11MA6**	1	3.4	6.8	20.5	24.5	3850	4350	4350	4350	4350	234	26000	-
30	9.5	18.5	4800	0.87	161.5	IE5	**BG80Z-../S5E11LA6**	0.9	3	6.1	18.5	22	4800	4800	4800	4800	4800	246	26000	-
30	9.5	18.5	4800	0.87	161.5	IE5	**BG80Z-../S5E11MA6**	0.9	3	6.1	18.5	22	4250	4800	4800	4800	4800	234	26000	-
30	9.5	31	2850	2.9	96.53	IE5	**BG90Z-../S5E11LA6**	1.5	5.1	10	31	37	2850	2850	2850	2850	2850	348	65000	-
30	9.5	31	2850	2.9	96.53	IE5	**BG90Z-../S5E11MA6**	1.5	5.1	10	31	37	2550	2850	2850	2850	2850	336	65000	-
30	9.5	28	3150	2.6	105.7	IE5	**BG90Z-../S5E11LA6**	1.4	4.7	9.4	28	34	3150	3150	3150	3150	3150	348	65000	-
30	9.5	28	3150	2.6	105.7	IE5	**BG90Z-../S5E11MA6**	1.4	4.7	9.4	28	34	2800	3150	3150	3150	3150	336	65000	-
30	9.5	23.5	3800	2.2	127.1	IE5	**BG90Z-../S5E11LA6**	1.1	3.9	7.8	23.5	28	3800	3800	3800	3800	3800	348	65000	-
30	9.5	23.5	3800	2.2	127.1	IE5	**BG90Z-../S5E11MA6**	1.1	3.9	7.8	23.5	28	3350	3800	3800	3800	3800	336	65000	-
30	9.5	21.5	4150	2	139.2	IE5	**BG90Z-../S5E11LA6**	1	3.5	7.1	21.5	25.5	4150	4150	4150	4150	4150	348	65000	-
30	9.5	21.5	4150	2	139.2	IE5	**BG90Z-../S5E11MA6**	1	3.5	7.1	21.5	25.5	3650	4150	4150	4150	4150	336	65000	-
30	9.5	18	4850	1.7	163	IE5	**BG90Z-../S5E11LA6**	0.9	3	6.1	18	22	4850	4850	4850	4850	4850	348	65000	-
30	9.5	18	4850	1.7	163	IE5	**BG90Z-../S5E11MA6**	0.9	3	6.1	18	22	4300	4850	4850	4850	4850	336	65000	-
30	9.5	16.5	5300	1.6	178.5	IE5	**BG90Z-../S5E11LA6**	0.8	2.8	5.6	16.5	20	5300	5300	5300	5300	5300	348	65000	-
30	9.5	16.5	5300	1.6	178.5	IE5	**BG90Z-../S5E11MA6**	0.8	2.8	5.6	16.5	20	4700	5300	5300	5300	5300	336	65000	-
30	9.5	14	6200	1.3	208.3	IE5	**BG90Z-../S5E11LA6**	0.7	2.4	4.8	14	17	6200	6200	6200	6200	6200	348	65000	-
30	9.5	14	6200	1.3	208.3	IE5	**BG90Z-../S5E11MA6**	0.7	2.4	4.8	14	17	5500	6200	6200	6200	6200	336	65000	-
30	9.5	13	6800	1.2	228.1	IE5	**BG90Z-../S5E11LA6**	0.65	2.1	4.3	13	15.5	6800	6800	6800	6800	6800	348	65000	-
30	9.5	13	6800	1.2	228.1	IE5	**BG90Z-../S5E11MA6**	0.65	2.1	4.3	13	15.5	6000	6800	6800	6800	6800	336	65000	-
30	9.5	13.5	6500	1.4	219.9	IE5	**BG90G50-../S5E11LA6**	0.65	2.2	4.5	13.5	16	6500	6500	6500	6500	6500	365	65000	-
30	9.5	13.5	6500	1.4	219.9	IE5	**BG90G50-../S5E11MA6**	0.65	2.2	4.5	13.5	16	5800	6500	6500	6500	6500	353	65000	-
30	9.5	11	7800	1.2	262.5	IE5	**BG90G50-../S5E11LA6**	0.55	1.9	3.8	11	13.5	7800	7800	7800	7800	7800	365	65000	-
30	9.5	11	7800	1.2	262.5	IE5	**BG90G50-../S5E11MA6**	0.55	1.9	3.8	11	13.5	6900	7800	7800	7800	7800	353	65000	-

MN = 30 Nm (PN = 9.5 kW)



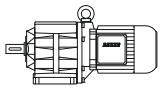
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
30	9.5	10	8900	1	298.8	IE5	**BG90G50-../S5E11LA6**	0.5	1.6	3.3	10	12	8900	8900	8900	8900	8900	365	65000	-
30	9.5	10	8900	1	298.8	IE5	**BG90G50-../S5E11MA6**	0.5	1.6	3.3	10	12	7900	8900	8900	8900	8900	353	65000	-
30	9.5	8.3	10800	0.85	360.3	IE5	**BG90G50-../S5E11LA6**	0.41	1.3	2.7	8.3	9.9	10800	10800	10800	10800	10800	365	65000	-
30	9.5	8.3	10800	0.85	360.3	IE5	**BG90G50-../S5E11MA6**	0.41	1.3	2.7	8.3	9.9	9500	10800	10800	10800	10800	353	65000	-
30	9.5	15	5900	2.8	198.8	IE5	**BG100-../S5E11LA6**	0.75	2.5	5	15	18	5900	5900	5900	5900	5900	465	90000	-
30	9.5	15	5900	2.8	198.8	IE5	**BG100-../S5E11MA6**	0.75	2.5	5	15	18	5200	5900	5900	5900	5900	453	90000	-
30	9.5	12.5	6900	2.4	232.6	IE5	**BG100-../S5E11LA6**	0.6	2.1	4.2	12.5	15	6900	6900	6900	6900	6900	465	90000	-
30	9.5	12.5	6900	2.4	232.6	IE5	**BG100-../S5E11MA6**	0.6	2.1	4.2	12.5	15	6100	6900	6900	6900	6900	453	90000	-
30	9.5	11.5	7700	2.2	259	IE5	**BG100-../S5E11LA6**	0.55	1.9	3.8	11.5	13.5	7700	7700	7700	7700	7700	465	90000	-
30	9.5	11.5	7700	2.2	259	IE5	**BG100-../S5E11MA6**	0.55	1.9	3.8	11.5	13.5	6800	7700	7700	7700	7700	453	90000	-
30	9.5	11	8000	2.3	269.8	IE5	**BG100Z-../S5E11LA6**	0.55	1.8	3.7	11	13	8000	8000	8000	8000	8000	555	90000	-
30	9.5	11	8000	2.3	269.8	IE5	**BG100Z-../S5E11MA6**	0.55	1.8	3.7	11	13	7100	8000	8000	8000	8000	543	90000	-
30	9.5	9.9	9000	2.1	300.4	IE5	**BG100Z-../S5E11LA6**	0.49	1.6	3.3	9.9	11.5	9000	9000	9000	9000	9000	555	90000	-
30	9.5	9.9	9000	2.1	300.4	IE5	**BG100Z-../S5E11MA6**	0.49	1.6	3.3	9.9	11.5	7900	9000	9000	9000	9000	543	90000	-
30	9.5	8.7	10300	1.8	343.6	IE5	**BG100Z-../S5E11LA6**	0.43	1.4	2.9	8.7	10	10300	10300	10300	10300	10300	555	90000	-
30	9.5	8.7	10300	1.8	343.6	IE5	**BG100Z-../S5E11MA6**	0.43	1.4	2.9	8.7	10	9100	10300	10300	10300	10300	543	90000	-
30	9.5	7.8	11400	1.6	382.6	IE5	**BG100Z-../S5E11LA6**	0.39	1.3	2.6	7.8	9.4	11400	11400	11400	11400	11400	555	90000	-
30	9.5	7.8	11400	1.6	382.6	IE5	**BG100Z-../S5E11MA6**	0.39	1.3	2.6	7.8	9.4	10100	11400	11400	11400	11400	543	90000	-
30	9.5	6.5	13700	1.4	456.7	IE5	**BG100Z-../S5E11LA6**	0.32	1	2.1	6.5	7.8	13700	13700	13700	13700	13700	555	90000	-
30	9.5	6.5	13700	1.4	456.7	IE5	**BG100Z-../S5E11MA6**	0.32	1	2.1	6.5	7.8	12100	13700	13700	13700	13700	543	90000	-
30	9.5	5.8	15200	1.2	508.5	IE5	**BG100Z-../S5E11LA6**	0.29	0.95	1.9	5.8	7	15200	15200	15200	15200	15200	555	90000	-
30	9.5	5.8	15200	1.2	508.5	IE5	**BG100Z-../S5E11MA6**	0.29	0.95	1.9	5.8	7	13400	15200	15200	15200	15200	543	90000	-
30	9.5	5	17700	1	591.1	IE5	**BG100Z-../S5E11LA6**	0.25	0.8	1.6	5	6	17700	17700	17700	17700	17700	555	90000	-
30	9.5	5	17700	1	591.1	IE5	**BG100Z-../S5E11MA6**	0.25	0.8	1.6	5	6	15600	17700	17700	17700	17700	543	90000	-
30	9.5	4.5	19700	0.94	658.1	IE5	**BG100Z-../S5E11LA6**	0.22	0.75	1.5	4.5	5.4	19700	19700	19700	19700	19700	555	90000	-
30	9.5	4.5	19700	0.94	658.1	IE5	**BG100Z-../S5E11MA6**	0.22	0.75	1.5	4.5	5.4	17400	19700	19700	19700	19700	543	90000	-
30	9.5	3.9	22500	0.81	759	IE5	**BG100Z-../S5E11LA6**	0.19	0.65	1.3	3.9	4.7	22500	22500	22500	22500	22500	555	90000	-
30	9.5	3.9	22500	0.81	759	IE5	**BG100Z-../S5E11MA6**	0.19	0.65	1.3	3.9	4.7	20000	22500	22500	22500	22500	543	90000	-

MN = 35 Nm (PN = 11 kW)



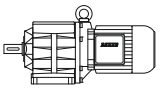
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
35	11	1120	93	1.4	2.67	IE4	**BG30-../S4E11MA6**	56	187	370	1120	1340	70	80	93	93	93	46	1450	-
35	11	1120	93	1.4	2.67	IE5	**BG30-../S5E11LA6**	56	187	370	1120	1340	93	93	93	93	93	58	1450	-
35	11	880	119	1.2	3.4	IE4	**BG30-../S4E11MA6**	44	147	290	880	1050	90	102	119	119	119	46	1580	-
35	11	880	119	1.2	3.4	IE5	**BG30-../S5E11LA6**	44	147	290	880	1050	119	119	119	119	119	58	1580	-
35	11	710	147	1.2	4.21	IE4	**BG30-../S4E11MA6**	35.5	118	235	710	850	111	126	147	147	147	46	1630	-
35	11	710	147	1.2	4.21	IE5	**BG30-../S5E11LA6**	35.5	118	235	710	850	147	147	147	147	147	58	1630	-
35	11	550	190	1.1	5.44	IE4	**BG30-../S4E11MA6**	27.5	91	183	550	660	144	163	190	190	190	46	1670	-
35	11	550	190	1.1	5.44	IE5	**BG30-../S5E11LA6**	27.5	91	183	550	660	190	190	190	190	190	58	1670	-
35	11	440	235	0.91	6.75	IE4	**BG30-../S4E11MA6**	22	74	148	440	530	178	200	235	235	235	46	1760	-
35	11	440	235	0.96	6.76	IE4	**BG30-../S4E11MA6**	22	73	147	440	530	179	200	235	235	235	46	2550	-
35	11	440	235	0.91	6.75	IE5	**BG30-../S5E11LA6**	22	74	148	440	530	235	235	235	235	235	58	1760	-
35	11	440	235	0.96	6.76	IE5	**BG30-../S5E11LA6**	22	73	147	440	530	235	235	235	235	235	58	2550	-
35	11	400	260	0.88	7.5	IE4	**BG30-../S4E11MA6**	20	66	133	400	480	198	225	260	260	260	46	2750	-
35	11	400	260	0.88	7.5	IE5	**BG30-../S5E11LA6**	20	66	133	400	480	260	260	260	260	260	58	2750	-
35	11	345	300	0.81	8.6	IE4	**BG30-../S4E11MA6**	17	58	116	345	415	225	255	300	300	300	46	2800	-
35	11	345	300	0.81	8.6	IE5	**BG30-../S5E11LA6**	17	58	116	345	415	300	300	300	300	300	58	2800	-
35	11	1210	86	2.3	2.46	IE4	**BG40-../S4E11MA6**	60	200	405	1210	1460	65	73	86	86	86	65	2150	-
35	11	1210	86	2.3	2.46	IE5	**BG40-../S5E11LA6**	60	200	405	1210	1460	86	86	86	86	86	77	2150	-
35	11	940	111	2	3.19	IE4	**BG40-../S4E11MA6**	47	156	310	940	1120	84	95	111	111	111	65	2350	-
35	11	940	111	2	3.19	IE5	**BG40-../S5E11LA6**	47	156	310	940	1120	111	111	111	111	111	77	2350	-
35	11	750	138	1.7	3.97	IE4	**BG40-../S4E11MA6**	37.5	125	250	750	900	105	119	138	138	138	65	2400	-
35	11	750	138	1.7	3.97	IE5	**BG40-../S5E11LA6**	37.5	125	250	750	900	138	138	138	138	138	77	2400	-
35	11	600	172	1.5	4.94	IE4	**BG40-../S4E11MA6**	30	101	200	600	720	130	148	172	172	172	65	2450	-
35	11	600	172	1.5	4.94	IE5	**BG40-../S5E11LA6**	30	101	200	600	720	172	172	172	172	172	77	2450	-
35	11	475	220	1.3	6.29	IE4	**BG40-../S4E11MA6**	23.5	79	158	475	570	166	188	220	220	220	65	2600	-
35	11	475	220	1.3	6.29	IE5	**BG40-../S5E11LA6**	23.5	79	158	475	570	220	220	220	220	220	77	2600	-
35	11	465	220	1.4	6.4	IE4	**BG40-../S4E11MA6**	23	78	156	465	560	169	192	220	220	220	65	3750	-
35	11	465	220	1.4	6.4	IE5	**BG40-../S5E11LA6**	23	78	156	465	560	220	220	220	220	220	77	3750	-
35	11	420	245	1.3	7.11	IE4	**BG40-../S4E11MA6**	21	70	140	420	500	188	210	245	245	245	65	3950	-
35	11	420	245	1.3	7.11	IE5	**BG40-../S5E11LA6**	21	70	140	420	500	245	245	245	245	245	77	3950	-
35	11	390	265	1.1	7.62	IE4	**BG40-../S4E11MA6**	19.5	65	131	390	470	200	225	265	265	265	65	2650	-
35	11	390	265	1.1	7.62	IE5	**BG40-../S5E11LA6**	19.5	65	131	390	470	265	265	265	265	265	77	2650	-
35	11	360	290	1.2	8.31	IE4	**BG40-../S4E11MA6**	18	60	120	360	430	220	245	290	290	290	65	4100	-
35	11	360	290	1.2	8.31	IE5	**BG40-../S5E11LA6**	18	60	120	360	430	290	290	290	290	290	77	4100	-
35	11	330	315	0.94	9	IE4	**BG40-../S4E11MA6**	16.5	55	111	330	400	235	270	315	315	315	65	2650	-
35	11	330	315	0.94	9	IE5	**BG40-../S5E11LA6**	16.5	55	111	330	400	315	315	315	315	315	77	2650	-
35	11	325	320	1.1	9.23	IE4	**BG40-../S4E11MA6**	16	54	108	325	390	240	275	320	320	320	65	4350	-
35	11	325	320	1.1	9.23	IE5	**BG40-../S5E11LA6**	16	54	108	325	390	320	320	320	320	320	77	4350	-
35	11	285	360	1	10.35	IE4	**BG40-../S4E11MA6**	14	48	96	285	345	270	310	360	360	360	65	4350	-
35	11	285	360	1	10.35	IE5	**BG40-../S5E11LA6**	14	48	96	285	345	360	360	360	360	360	77	4350	-
35	11	260	400	0.96	11.49	IE4	**BG40-../S4E11MA6**	13	43.5	87	260	310	300	340	400	400	400	65	4600	-
35	11	260	400	0.96	11.49	IE5	**BG40-../S5E11LA6**	13	43.5	87	260	310	400	400	400	400	400	77	4600	-

MN = 35 Nm (PN = 11 kW)



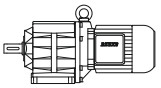
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
35	11	230	450	0.91	12.86	IE4	**BG40-../S4E11MA6**	11.5	38.5	77	230	275	340	385	450	450	450	65	4500	-
35	11	230	450	0.91	12.86	IE5	**BG40-../S5E11LA6**	11.5	38.5	77	230	275	450	450	450	450	450	77	4500	-
35	11	210	495	0.84	14.28	IE4	**BG40-../S4E11MA6**	10.5	35	70	210	250	375	425	495	495	495	65	4900	-
35	11	210	495	0.84	14.28	IE5	**BG40-../S5E11LA6**	10.5	35	70	210	250	495	495	495	495	495	77	4900	-
35	11	840	124	2.8	3.55	IE4	**BG50-../S4E11MA6**	42	140	280	840	1010	94	106	124	124	124	75	3300	-
35	11	840	124	2.8	3.55	IE5	**BG50-../S5E11LA6**	42	140	280	840	1010	124	124	124	124	124	86	3300	-
35	11	610	171	2.3	4.91	IE4	**BG50-../S4E11MA6**	30.5	101	200	610	730	130	147	171	171	171	75	3500	-
35	11	610	171	2.3	4.91	IE5	**BG50-../S5E11LA6**	30.5	101	200	610	730	171	171	171	171	171	86	3500	-
35	11	490	210	2.1	6.07	IE4	**BG50-../S4E11MA6**	24.5	82	164	490	590	160	182	210	210	210	75	4700	-
35	11	490	210	2.1	6.07	IE5	**BG50-../S5E11LA6**	24.5	82	164	490	590	210	210	210	210	210	86	4700	-
35	11	445	235	1.9	6.74	IE4	**BG50-../S4E11MA6**	22	74	148	445	530	178	200	235	235	235	75	3750	-
35	11	445	235	1.9	6.74	IE5	**BG50-../S5E11LA6**	22	74	148	445	530	235	235	235	235	235	86	3750	-
35	11	340	300	1.6	8.7	IE4	**BG50-../S4E11MA6**	17	57	114	340	410	230	260	300	300	300	75	5300	-
35	11	340	300	1.6	8.7	IE5	**BG50-../S5E11LA6**	17	57	114	340	410	300	300	300	300	300	86	5300	-
35	11	310	335	1.5	9.65	IE4	**BG50-../S4E11MA6**	15.5	51	103	310	370	255	285	335	335	335	75	5600	-
35	11	310	335	1.5	9.65	IE5	**BG50-../S5E11LA6**	15.5	51	103	310	370	335	335	335	335	335	86	5600	-
35	11	245	420	1.4	12.06	IE4	**BG50-../S4E11MA6**	12	41	82	245	295	315	360	420	420	420	75	5700	-
35	11	245	420	1.4	12.06	IE5	**BG50-../S5E11LA6**	12	41	82	245	295	420	420	420	420	420	86	5700	-
35	11	220	465	1.3	13.36	IE4	**BG50-../S4E11MA6**	11	37	74	220	265	350	400	465	465	465	75	6100	-
35	11	220	465	1.3	13.36	IE5	**BG50-../S5E11LA6**	11	37	74	220	265	465	465	465	465	465	86	6100	-
35	11	181	570	1.1	16.53	IE4	**BG50-../S4E11MA6**	9	30	60	181	215	435	495	570	570	570	75	6500	-
35	11	181	570	1.1	16.53	IE5	**BG50-../S5E11LA6**	9	30	60	181	215	570	570	570	570	570	86	6500	-
35	11	163	640	0.98	18.33	IE4	**BG50-../S4E11MA6**	8.1	27	54	163	196	485	540	640	640	640	75	7200	-
35	11	163	640	0.98	18.33	IE5	**BG50-../S5E11LA6**	8.1	27	54	163	196	640	640	640	640	640	86	7200	-
35	11	136	760	0.82	21.96	IE4	**BG50-../S4E11MA6**	6.8	22.5	45.5	136	163	580	650	760	760	760	75	8000	-
35	11	136	760	0.82	21.96	IE5	**BG50-../S5E11LA6**	6.8	22.5	45.5	136	163	760	760	760	760	760	86	8000	-
35	11	325	315	2.8	9.13	IE4	**BG60-../S4E11MA6**	16	54	109	325	390	240	270	315	315	315	107	9800	-
35	11	325	315	2.8	9.13	IE5	**BG60-../S5E11LA6**	16	54	109	325	390	315	315	315	315	315	119	9800	-
35	11	295	350	2.6	10.12	IE4	**BG60-../S4E11MA6**	14.5	49	98	295	355	265	300	350	350	350	107	10200	-
35	11	295	350	2.6	10.12	IE5	**BG60-../S5E11LA6**	14.5	49	98	295	355	350	350	350	350	350	119	10200	-
35	11	245	425	2.3	12.16	IE4	**BG60-../S4E11MA6**	12	41	82	245	295	320	360	425	425	425	107	10800	-
35	11	245	425	2.3	12.16	IE5	**BG60-../S5E11LA6**	12	41	82	245	295	425	425	425	425	425	119	10800	-
35	11	220	470	2.2	13.47	IE4	**BG60-../S4E11MA6**	11	37	74	220	265	355	400	470	470	470	107	11200	-
35	11	220	470	2.2	13.47	IE5	**BG60-../S5E11LA6**	11	37	74	220	265	470	470	470	470	470	119	11200	-
35	11	178	580	1.9	16.8	IE4	**BG60-../S4E11MA6**	8.9	29.5	59	178	210	445	500	580	580	580	107	12000	-
35	11	178	580	1.9	16.8	IE5	**BG60-../S5E11LA6**	8.9	29.5	59	178	210	580	580	580	580	580	119	12000	-
35	11	161	650	1.7	18.62	IE4	**BG60-../S4E11MA6**	8	26.5	53	161	193	490	550	650	650	650	107	12400	-
35	11	161	650	1.7	18.62	IE5	**BG60-../S5E11LA6**	8	26.5	53	161	193	650	650	650	650	650	119	12400	-
35	11	133	780	1.5	22.4	IE4	**BG60-../S4E11MA6**	6.6	22	44.5	133	160	590	670	780	780	780	107	13300	-
35	11	133	780	1.5	22.4	IE5	**BG60-../S5E11LA6**	6.6	22	44.5	133	160	780	780	780	780	780	119	13300	-
35	11	120	860	1.4	24.82	IE4	**BG60-../S4E11MA6**	6	20	40	120	145	650	740	860	860	860	107	13800	-
35	11	120	860	1.4	24.82	IE5	**BG60-../S5E11LA6**	6	20	40	120	145	860	860	860	860	860	119	13800	-
35	11	102	1020	1.2	29.31	IE4	**BG60-../S4E11MA6**	5.1	17	34	102	122	770	870	1020	1020	1020	107	14800	-
35	11	102	1020	1.2	29.31	IE5	**BG60-../S5E11LA6**	5.1	17	34	102	122	1020	1020	1020	1020	1020	119	14800	-
35	11	92	1130	1.1	32.48	IE4	**BG60-../S4E11MA6**	4.6	15	30.5	92	110	860	970	1130	1130	1130	107	15400	-
35	11	92	1130	1.1	32.48	IE5	**BG60-../S5E11LA6**	4.6	15	30.5	92	110	1130	1130	1130	1130	1130	119	15400	-
35	11	77	1350	0.88	38.85	IE4	**BG60-../S4E11MA6**	3.8	12.5	25.5	77	92	1020	1160	1350	1350	1350	107	16000	-
35	11	77	1350	0.88	38.85	IE5	**BG60-../S5E11LA6**	3.8	12.5	25.5	77	92	1350	1350	1350	1350	1350	119	16000	-
35	11	69	1500	0.8	43.05	IE4	**BG60-../S4E11MA6**	3.4	11.5	23	69	83	1140	1290	1500	1500	1500	107	16000	-
35	11	69	1500	0.8	43.05	IE5	**BG60-../S5E11LA6**	3.4	11.5	23	69	83	1500	1500	1500	1500	1500	119	16000	-
35	11	130	800	2.9	22.92	IE4	**BG70-../S4E11MA6**	6.5	21.5	43.5	130	157	600	680	800	800	800	138	15100	-
35	11	130	800	2.9	22.92	IE5	**BG70-../S5E11LA6**	6.5	21.5	43.5	130	157	800	800	800	800	800	149	15100	-
35	11	110	950	2.4	27.21	IE4	**BG70-../S4E11MA6**	5.5	18	36.5	110	132	720	810	950	950	950	138	16400	-
35	11	110	950	2.4	27.21	IE5	**BG70-../S5E11LA6**	5.5	18	36.5	110	132	950	950	950	950	950	149	16400	-
35	11	101	1030	2.2	29.69	IE4	**BG70-../S4E11MA6**	5	16.5	33.5	101	121	780	890	1030	1030	1030	138	16900	-
35	11	101	1030	2.2	29.69	IE5	**BG70-../S5E11LA6**	5	16.5	33.5	101	121	1030	1030	1030	1030	1030	149	16900	-
35	11	85	1230	1.9	35.24	IE4	**BG70-../S4E11MA6**	4.2	14	28	85	102	930	1050	1230	1230	1230	138	18300	-
35	11	85	1230	1.9	35.24	IE5	**BG70-../S5E11LA6**	4.2	14	28	85	102	1230	1230	1230	1230	1230	149	18300	-
35	11	76	1370	1.7	39.22	IE4	**BG70-../S4E11MA6**	3.8	12.5	25	76	91	1030	1170	1370	1370	1370	138	19100	-
35	11	76	1370	1.7	39.22	IE5	**BG70-../S5E11LA6**	3.8	12.5	25	76	91	1370	1370	1370	1370	1370	149	19100	-
35	11	64	1620	1.4	46.54	IE4	**BG70-../S4E11MA6**	3.2	10.5	21	64	77	1230	1390	1620	1620	1620	138	20000	-
35	11	64	1620	1.4	46.54	IE5	**BG70-../S5E11LA6**	3.2	10.5	21	64	77	1620	1620	1620	1620	1620	149	20000	-
35	11	59	1760	1.3	50.4	IE4	**BG70-../S4E11MA6**	2.9	9.9	19.5	59	71	1330	1510	1760	1760	1760	138	20000	-
35	11	59	1760	1.3	50.4	IE5	**BG70-../S5E11LA6**	2.9	9.9	19.5	59	71	1760	1760	1760	1760	1760	149	20000	-
35	11	50	2050	1.1	59.82	IE4	**BG70-../S4E11MA6**	2.5	8.3	16.5	50	60	1580	1790	2050	2050	2050	138	20000	-
35	11	50	2050	1.1	59.82	IE5	**BG70-../S5E11LA6**	2.5	8.3	16.5	50	60	2050	2050	2050	2050	2050	149	20000	-
35	11	54	1910	1	54.64	IE4	**BG70Z-../S4E11MA6**	2.7	9.1	18	54	65	1440	1630	1910	1910	1910	164	20000	-
35	11	54	1910	1	54.64	IE5	**BG70Z-../S5E11LA6**	2.7	9.1	18	54	65	1910	1910	1910	1910	1910	176	20000	-
35	11	46	2250	1	64.85	IE4	**BG70Z-../S4E11MA6**	2.3	7.7	15	46	55	1710	1940	2250	2250	2250	164	20000	-
35	11	46	2250	1	64.85	IE5	**BG70Z-../S5E11LA6**	2.3	7.7	15	46	55	2250	2250	2250	2250	2250	176	20000	-
35	11	40.5	2550	0.89	73.82	IE4	**BG70Z-../S4E11MA6**	2	6.7	13.5	40.5	48.5	1950	2200	2550	2550	2550	164	20000	-
35	11	40.5	2550	0.89	73.82	IE5	**BG70Z-../S5E11LA6**	2	6.7	13.5	40.5	48.5	2550	2550	2550	2550	2550	176	20000	-
35	11	68	1530	2.7	43.94	IE4	**BG80-../S4E11MA6**	3.4	11	22.5	68	81	1160	1310	1530	1530	1530	192	22600	-
35	11	68	1530	2.7	43.94	IE5	**BG80-../S5E11LA6**	3.4	11	22.5	68	81	1530	1530	1530	1530	1530	204	22600	-
35	11	61	1700	2.5	48.8	IE4	**BG80-../S4E11MA6**	3	10	20	61	73	1290	1460	1700	1700	1700	192	23800	-
35	11	61	1700	2.5	48.8	IE5	**BG80-../S5E11LA6**	3	10	20	61	73	1700	1700	1700	1700	1700	204	23800	-
35	11	52	2000	2.1	57.24	IE4	**BG80-../S4E11MA6**	2.6	8.7	17	52	62	1510	1710	2000	2000	2000	192	25400	-
35	11	52	2000	2.1	57.24	IE5	**BG80-../S5E11LA6**	2.6	8.7	17	52	62	2000	2000	2000	2000	2000	204	25400	-

MN = 35 Nm (PN = 11 kW)



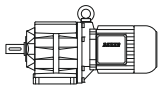
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
35	11	47	2200	1.9	63.56	IE4	**BG80-../S4E11MA6**	2.3	7.8	15.5	47	56	1680	1900	2200	2200	2200	192	26000	-
35	11	47	2200	1.9	63.56	IE5	**BG80-../S5E11LA6**	2.3	7.8	15.5	47	56	2200	2200	2200	2200	2200	204	26000	-
35	11	45	2300	1.8	66.4	IE4	**BG80Z-../S4E11MA6**	2.2	7.5	15	45	54	1750	1990	2300	2300	2300	234	26000	-
35	11	45	2300	1.8	66.4	IE5	**BG80Z-../S5E11LA6**	2.2	7.5	15	45	54	2300	2300	2300	2300	2300	246	26000	-
35	11	40.5	2550	1.6	73.73	IE4	**BG80Z-../S4E11MA6**	2	6.7	13.5	40.5	48.5	1950	2200	2550	2550	2550	234	26000	-
35	11	40.5	2550	1.6	73.73	IE5	**BG80Z-../S5E11LA6**	2	6.7	13.5	40.5	48.5	2550	2550	2550	2550	2550	246	26000	-
35	11	35	2950	1.4	84.55	IE4	**BG80Z-../S4E11MA6**	1.7	5.9	11.5	35	42.5	2200	2500	2950	2950	2950	234	26000	-
35	11	35	2950	1.4	84.55	IE5	**BG80Z-../S5E11LA6**	1.7	5.9	11.5	35	42.5	2950	2950	2950	2950	2950	246	26000	-
35	11	31.5	3250	1.3	93.89	IE4	**BG80Z-../S4E11MA6**	1.5	5.3	10.5	31.5	38	2450	2800	3250	3250	3250	234	26000	-
35	11	31.5	3250	1.3	93.89	IE5	**BG80Z-../S5E11LA6**	1.5	5.3	10.5	31.5	38	3250	3250	3250	3250	3250	246	26000	-
35	11	26.5	3900	1.1	112.4	IE4	**BG80Z-../S4E11MA6**	1.3	4.4	8.8	26.5	32	2950	3350	3900	3900	3900	234	26000	-
35	11	26.5	3900	1.1	112.4	IE5	**BG80Z-../S5E11LA6**	1.3	4.4	8.8	26.5	32	3900	3900	3900	3900	3900	246	26000	-
35	11	24	4350	0.96	124.8	IE4	**BG80Z-../S4E11MA6**	1.2	4	8	24	28.5	3300	3700	4350	4350	4350	234	26000	-
35	11	24	4350	0.96	124.8	IE5	**BG80Z-../S5E11LA6**	1.2	4	8	24	28.5	4350	4350	4350	4350	4350	246	26000	-
35	11	20.5	5000	0.83	145.4	IE4	**BG80Z-../S4E11MA6**	1	3.4	6.8	20.5	24.5	3850	4350	5000	5000	5000	234	26000	-
35	11	20.5	5000	0.83	145.4	IE5	**BG80Z-../S5E11LA6**	1	3.4	6.8	20.5	24.5	5000	5000	5000	5000	5000	246	26000	-
35	11	35.5	2900	2.9	83.91	IE4	**BG90Z-../S4E11MA6**	1.7	5.9	11.5	35.5	42.5	2200	2500	2900	2900	2900	336	65000	-
35	11	35.5	2900	2.9	83.91	IE5	**BG90Z-../S5E11LA6**	1.7	5.9	11.5	35.5	42.5	2900	2900	2900	2900	2900	348	65000	-
35	11	31	3350	2.5	96.53	IE4	**BG90Z-../S4E11MA6**	1.5	5.1	10	31	37	2550	2850	3350	3350	3350	336	65000	-
35	11	31	3350	2.5	96.53	IE5	**BG90Z-../S5E11LA6**	1.5	5.1	10	31	37	3350	3350	3350	3350	3350	348	65000	-
35	11	28	3650	2.3	105.7	IE4	**BG90Z-../S4E11MA6**	1.4	4.7	9.4	28	34	2800	3150	3650	3650	3650	336	65000	-
35	11	28	3650	2.3	105.7	IE5	**BG90Z-../S5E11LA6**	1.4	4.7	9.4	28	34	3650	3650	3650	3650	3650	348	65000	-
35	11	23.5	4400	1.9	127.1	IE4	**BG90Z-../S4E11MA6**	1.1	3.9	7.8	23.5	28	3350	3800	4400	4400	4400	336	65000	-
35	11	23.5	4400	1.9	127.1	IE5	**BG90Z-../S5E11LA6**	1.1	3.9	7.8	23.5	28	4400	4400	4400	4400	4400	348	65000	-
35	11	21.5	4850	1.7	139.2	IE4	**BG90Z-../S4E11MA6**	1	3.5	7.1	21.5	25.5	3650	4150	4850	4850	4850	336	65000	-
35	11	21.5	4850	1.7	139.2	IE5	**BG90Z-../S5E11LA6**	1	3.5	7.1	21.5	25.5	4850	4850	4850	4850	4850	348	65000	-
35	11	18	5700	1.5	163	IE4	**BG90Z-../S4E11MA6**	0.9	3	6.1	18	22	4300	4850	5700	5700	5700	336	65000	-
35	11	18	5700	1.5	163	IE5	**BG90Z-../S5E11LA6**	0.9	3	6.1	18	22	5700	5700	5700	5700	5700	348	65000	-
35	11	16.5	6200	1.3	178.5	IE4	**BG90Z-../S4E11MA6**	0.8	2.8	5.6	16.5	20	4700	5300	6200	6200	6200	336	65000	-
35	11	16.5	6200	1.3	178.5	IE5	**BG90Z-../S5E11LA6**	0.8	2.8	5.6	16.5	20	6200	6200	6200	6200	6200	348	65000	-
35	11	14	7200	1.2	208.3	IE4	**BG90Z-../S4E11MA6**	0.7	2.4	4.8	14	17	5500	6200	7200	7200	7200	336	65000	-
35	11	14	7200	1.2	208.3	IE5	**BG90Z-../S5E11LA6**	0.7	2.4	4.8	14	17	7200	7200	7200	7200	7200	348	65000	-
35	11	13	7900	1.1	228.1	IE4	**BG90Z-../S4E11MA6**	0.65	2.1	4.3	13	15.5	6000	6800	7900	7900	7900	336	65000	-
35	11	13	7900	1.1	228.1	IE5	**BG90Z-../S5E11LA6**	0.65	2.1	4.3	13	15.5	7900	7900	7900	7900	7900	348	65000	-
35	11	13.5	7600	1.2	219.9	IE4	**BG90G50-../S4E11MA6**	0.65	2.2	4.5	13.5	16	5800	6500	7600	7600	7600	353	65000	-
35	11	13.5	7600	1.2	219.9	IE5	**BG90G50-../S5E11LA6**	0.65	2.2	4.5	13.5	16	7600	7600	7600	7600	7600	365	65000	-
35	11	11	9100	1	262.5	IE4	**BG90G50-../S4E11MA6**	0.55	1.9	3.8	11	13.5	6900	7800	9100	9100	9100	353	65000	-
35	11	11	9100	1	262.5	IE5	**BG90G50-../S5E11LA6**	0.55	1.9	3.8	11	13.5	9100	9100	9100	9100	9100	365	65000	-
35	11	10	10400	0.88	298.8	IE4	**BG90G50-../S4E11MA6**	0.5	1.6	3.3	10	12	7900	8900	10400	10400	10400	353	65000	-
35	11	10	10400	0.88	298.8	IE5	**BG90G50-../S5E11LA6**	0.5	1.6	3.3	10	12	10400	10400	10400	10400	10400	365	65000	-
35	11	16.5	6200	2.7	178.6	IE4	**BG100-../S4E11MA6**	0.8	2.7	5.5	16.5	20	4700	5300	6200	6200	6200	453	90000	-
35	11	16.5	6200	2.7	178.6	IE5	**BG100-../S5E11LA6**	0.8	2.7	5.5	16.5	20	6200	6200	6200	6200	6200	465	90000	-
35	11	15	6900	2.4	198.8	IE4	**BG100-../S4E11MA6**	0.75	2.5	5	15	18	5200	5900	6900	6900	6900	453	90000	-
35	11	15	6900	2.4	198.8	IE5	**BG100-../S5E11LA6**	0.75	2.5	5	15	18	6900	6900	6900	6900	6900	465	90000	-
35	11	12.5	8100	2.1	232.6	IE4	**BG100-../S4E11MA6**	0.6	2.1	4.2	12.5	15	6100	6900	8100	8100	8100	453	90000	-
35	11	12.5	8100	2.1	232.6	IE5	**BG100-../S5E11LA6**	0.6	2.1	4.2	12.5	15	8100	8100	8100	8100	8100	465	90000	-
35	11	11.5	9000	1.9	259	IE4	**BG100-../S4E11MA6**	0.55	1.9	3.8	11.5	13.5	6800	7700	9000	9000	9000	453	90000	-
35	11	11.5	9000	1.9	259	IE5	**BG100-../S5E11LA6**	0.55	1.9	3.8	11.5	13.5	9000	9000	9000	9000	9000	465	90000	-
35	11	11	9400	2	269.8	IE4	**BG100Z-../S4E11MA6**	0.55	1.8	3.7	11	13	7100	8000	9400	9400	9400	543	90000	-
35	11	11	9400	2	269.8	IE5	**BG100Z-../S5E11LA6**	0.55	1.8	3.7	11	13	9400	9400	9400	9400	9400	555	90000	-
35	11	9.9	10500	1.8	300.4	IE4	**BG100Z-../S4E11MA6**	0.49	1.6	3.3	9.9	11.5	7900	9000	10500	10500	10500	543	90000	-
35	11	9.9	10500	1.8	300.4	IE5	**BG100Z-../S5E11LA6**	0.49	1.6	3.3	9.9	11.5	10500	10500	10500	10500	10500	555	90000	-
35	11	8.7	12000	1.5	343.6	IE4	**BG100Z-../S4E11MA6**	0.43	1.4	2.9	8.7	10	9100	10300	12000	12000	12000	543	90000	-
35	11	8.7	12000	1.5	343.6	IE5	**BG100Z-../S5E11LA6**	0.43	1.4	2.9	8.7	10	12000	12000	12000	12000	12000	555	90000	-
35	11	7.8	13300	1.4	382.6	IE4	**BG100Z-../S4E11MA6**	0.39	1.3	2.6	7.8	9.4	10100	11400	13300	13300	13300	543	90000	-
35	11	7.8	13300	1.4	382.6	IE5	**BG100Z-../S5E11LA6**	0.39	1.3	2.6	7.8	9.4	13300	13300	13300	13300	13300	555	90000	-
35	11	6.5	15900	1.2	456.7	IE4	**BG100Z-../S4E11MA6**	0.32	1	2.1	6.5	7.8	12100	13700	15900	15900	15900	543	90000	-
35	11	6.5	15900	1.2	456.7	IE5	**BG100Z-../S5E11LA6**	0.32	1	2.1	6.5	7.8	15900	15900	15900	15900	15900	555	90000	-
35	11	5.8	17700	1	508.5	IE4	**BG100Z-../S4E11MA6**	0.29	0.95	1.9	5.8	7	13400	15200	17700	17700	17700	543	90000	-
35	11	5.8	17700	1	508.5	IE5	**BG100Z-../S5E11LA6**	0.29	0.95	1.9	5.8	7	17700	17700	17700	17700	17700	555	90000	-
35	11	5	20500	0.89	591.1	IE4	**BG100Z-../S4E11MA6**	0.25	0.8	1.6	5	6	15600	17700	20500	20500	20500	543	90000	-
35	11	5	20500	0.89	591.1	IE5	**BG100Z-../S5E11LA6**	0.25	0.8	1.6	5	6	20500	20500	20500	20500	20500	555	90000	-
35	11	4.5	23000	0.8	658.1	IE4	**BG100Z-../S4E11MA6**	0.22	0.75	1.5	4.5	5.4	17400	19700	23000	23000	23000	543	90000	-
35	11	4.5	23000	0.8	658.1	IE5	**BG100Z-../S5E11LA6**	0.22	0.75	1.5	4.5	5.4	23000	23000	23000	23000	23000	555	90000	-

MN = 48 Nm (PN = 15 kW)

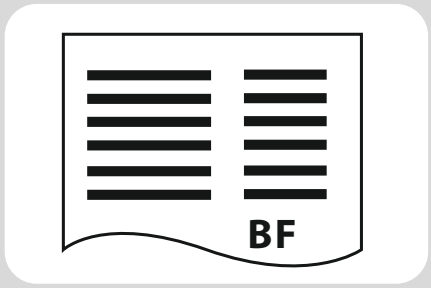


M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
48	15	1120	128	1	2.67	IE5	**BG30-../S5E11LA6**	56	187	370	1120	1340	93	106	128	128	106	58	1450	-
48	15	880	163	0.85	3.4	IE5	**BG30-../S5E11LA6**	44	147	290	880	1050	119	136	163	163	136	58	1580	-
48	15	710	200	0.85	4.21	IE5	**BG30-../S5E11LA6**	35.5	118	235	710	850	147	168	200	200	168	58	1630	-
48	15	1210	118	1.7	2.46	IE5	**BG40-../S5E11LA6**	60	200	405	1210	1460	86	98	118	118	98	77	2150	-
48	15	940	153	1.4	3.19	IE5	**BG40-../S5E11LA6**	47	156	310	940	1120	111	127	153	153	127	77	2350	-

MN = 48 Nm (PN = 15 kW)



M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
48	15	750	190	1.3	3.97	IE5	**BG40-../S5E11LA6**	37.5	125	250	750	900	138	158	190	190	158	77	2400	-
48	15	600	235	1.1	4.94	IE5	**BG40-../S5E11LA6**	30	101	200	600	720	172	197	235	235	197	77	2450	-
48	15	475	300	0.98	6.29	IE5	**BG40-../S5E11LA6**	23.5	79	158	475	570	220	250	300	300	250	77	2600	-
48	15	465	305	1	6.4	IE5	**BG40-../S5E11LA6**	23	78	156	465	560	220	255	305	305	255	77	3750	-
48	15	420	340	0.95	7.11	IE5	**BG40-../S5E11LA6**	21	70	140	420	500	245	280	340	340	280	77	3950	-
48	15	390	365	0.81	7.62	IE5	**BG40-../S5E11LA6**	19.5	65	131	390	470	265	300	365	365	300	77	2650	-
48	15	360	395	0.85	8.31	IE5	**BG40-../S5E11LA6**	18	60	120	360	430	290	330	395	395	330	77	4100	-
48	15	325	440	0.8	9.23	IE5	**BG40-../S5E11LA6**	16	54	108	325	390	320	365	440	440	365	77	4350	-
48	15	1210	118	2.6	2.47	IE5	**BG50-../S5E11LA6**	60	200	400	1210	1450	86	98	118	118	98	86	2900	-
48	15	840	170	2	3.55	IE5	**BG50-../S5E11LA6**	42	140	280	840	1010	124	142	170	170	142	86	3300	-
48	15	610	235	1.7	4.91	IE5	**BG50-../S5E11LA6**	30.5	101	200	610	730	171	196	235	235	196	86	3500	-
48	15	490	290	1.5	6.07	IE5	**BG50-../S5E11LA6**	24.5	82	164	490	590	210	240	290	290	240	86	4700	-
48	15	445	320	1.4	6.74	IE5	**BG50-../S5E11LA6**	22	74	148	445	530	235	265	320	320	265	86	3750	-
48	15	340	415	1.2	8.7	IE5	**BG50-../S5E11LA6**	17	57	114	340	410	300	345	415	415	345	86	5300	-
48	15	310	460	1.1	9.65	IE5	**BG50-../S5E11LA6**	15.5	51	103	310	370	335	385	460	460	385	86	5600	-
48	15	245	570	0.98	12.06	IE5	**BG50-../S5E11LA6**	12	41	82	245	295	420	480	570	570	480	86	5700	-
48	15	220	640	0.92	13.36	IE5	**BG50-../S5E11LA6**	11	37	74	220	265	465	530	640	640	530	86	6100	-
48	15	600	235	2.8	4.98	IE5	**BG60-../S5E11LA6**	30	100	200	600	720	174	199	235	235	199	119	7800	-
48	15	485	295	2.6	6.16	IE5	**BG60-../S5E11LA6**	24	81	162	485	580	215	245	295	295	245	119	8500	-
48	15	435	325	2.4	6.82	IE5	**BG60-../S5E11LA6**	21.5	73	146	435	520	235	270	325	325	270	119	8900	-
48	15	435	330	2.4	6.88	IE5	**BG60-../S5E11LA6**	21.5	72	145	435	520	240	275	330	330	275	119	8600	-
48	15	325	435	2	9.13	IE5	**BG60-../S5E11LA6**	16	54	109	325	390	315	365	435	435	365	119	9800	-
48	15	295	485	1.9	10.12	IE5	**BG60-../S5E11LA6**	14.5	49	98	295	355	350	400	485	485	400	119	10200	-
48	15	245	580	1.7	12.16	IE5	**BG60-../S5E11LA6**	12	41	82	245	295	425	485	580	580	485	119	10800	-
48	15	220	640	1.6	13.47	IE5	**BG60-../S5E11LA6**	11	37	74	220	265	470	530	640	640	530	119	11200	-
48	15	178	800	1.4	16.8	IE5	**BG60-../S5E11LA6**	8.9	29.5	59	178	210	580	670	800	800	670	119	12000	-
48	15	161	890	1.3	18.62	IE5	**BG60-../S5E11LA6**	8	26.5	53	161	193	650	740	890	890	740	119	12400	-
48	15	133	1070	1.1	22.4	IE5	**BG60-../S5E11LA6**	6.6	22	44.5	133	160	780	890	1070	1070	890	119	13300	-
48	15	120	1190	1	24.82	IE5	**BG60-../S5E11LA6**	6	20	40	120	145	860	990	1190	1190	990	119	13800	-
48	15	102	1400	0.85	29.31	IE5	**BG60-../S5E11LA6**	5.1	17	34	102	122	1020	1170	1400	1400	1170	119	14800	-
48	15	169	840	2.7	17.68	IE5	**BG70-../S5E11LA6**	8.4	28	56	169	200	610	700	840	840	700	149	13400	-
48	15	142	1000	2.3	20.98	IE5	**BG70-../S5E11LA6**	7.1	23.5	47.5	142	171	730	830	1000	1000	830	149	14600	-
48	15	130	1100	2.1	22.92	IE5	**BG70-../S5E11LA6**	6.5	21.5	43.5	130	157	800	910	1100	1100	910	149	15100	-
48	15	110	1300	1.8	27.21	IE5	**BG70-../S5E11LA6**	5.5	18	36.5	110	132	950	1080	1300	1300	1080	149	16400	-
48	15	101	1420	1.6	29.69	IE5	**BG70-../S5E11LA6**	5	16.5	33.5	101	121	1030	1180	1420	1420	1180	149	16900	-
48	15	85	1690	1.4	35.24	IE5	**BG70-../S5E11LA6**	4.2	14	28	85	102	1230	1400	1690	1690	1400	149	18300	-
48	15	76	1880	1.2	39.22	IE5	**BG70-../S5E11LA6**	3.8	12.5	25	76	91	1370	1560	1880	1880	1560	149	19100	-
48	15	64	2200	1	46.54	IE5	**BG70-../S5E11LA6**	3.2	10.5	21	64	77	1620	1860	2200	2200	1860	149	20000	-
48	15	59	2400	0.95	50.4	IE5	**BG70-../S5E11LA6**	2.9	9.9	19.5	59	71	1760	2000	2400	2400	2000	149	20000	-
48	15	50	2850	0.8	59.82	IE5	**BG70-../S5E11LA6**	2.5	8.3	16.5	50	60	2050	2350	2850	2850	2350	149	20000	-
48	15	102	1400	3	29.36	IE5	**BG80-../S5E11LA6**	5.1	17	34	102	122	1020	1170	1400	1400	1170	204	18900	-
48	15	87	1640	2.6	34.22	IE5	**BG80-../S5E11LA6**	4.3	14.5	29	87	105	1190	1360	1640	1640	1360	204	20200	-
48	15	78	1820	2.3	38	IE5	**BG80-../S5E11LA6**	3.9	13	26	78	94	1330	1520	1820	1820	1520	204	21300	-
48	15	68	2100	2	43.94	IE5	**BG80-../S5E11LA6**	3.4	11	22.5	68	81	1530	1750	2100	2100	1750	204	22600	-
48	15	61	2300	1.8	48.8	IE5	**BG80-../S5E11LA6**	3	10	20	61	73	1700	1950	2300	2300	1950	204	23800	-
48	15	52	2700	1.5	57.24	IE5	**BG80-../S5E11LA6**	2.6	8.7	17	52	62	2000	2250	2700	2700	2250	204	25400	-
48	15	47	3050	1.4	63.56	IE5	**BG80-../S5E11LA6**	2.3	7.8	15.5	47	56	2200	2500	3050	3050	2500	204	26000	-
48	15	45	3150	1.3	66.4	IE5	**BG80Z-../S5E11LA6**	2.2	7.5	15	45	54	2300	2650	3150	3150	2650	246	26000	-
48	15	40.5	3500	1.2	73.73	IE5	**BG80Z-../S5E11LA6**	2	6.7	13.5	40.5	48.5	2550	2900	3500	3500	2900	246	26000	-
48	15	35	4050	1	84.55	IE5	**BG80Z-../S5E11LA6**	1.7	5.9	11.5	35	42.5	2950	3350	4050	4050	3350	246	26000	-
48	15	31.5	4500	0.93	93.89	IE5	**BG80Z-../S5E11LA6**	1.5	5.3	10.5	31.5	38	3250	3750	4500	4500	3750	246	26000	-
48	15	52	2700	2.5	57.04	IE5	**BG90Z-../S5E11LA6**	2.6	8.7	17.5	52	63	1990	2250	2700	2700	2250	348	65000	-
48	15	48	2950	2.5	62.47	IE5	**BG90Z-../S5E11LA6**	2.4	8	16	48	57	2150	2450	2950	2950	2450	348	65000	-
48	15	39	3650	2.3	76.61	IE5	**BG90Z-../S5E11LA6**	1.9	6.5	13	39	46.5	2650	3050	3650	3650	3050	348	65000	-
48	15	35.5	4000	2.1	83.91	IE5	**BG90Z-../S5E11LA6**	1.7	5.9	11.5	35.5	42.5	2900	3350	4000	4000	3350	348	65000	-
48	15	31	4600	1.8	96.53	IE5	**BG90Z-../S5E11LA6**	1.5	5.1	10	31	37	3350	3850	4600	4600	3850	348	65000	-
48	15	28	5000	1.7	105.7	IE5	**BG90Z-../S5E11LA6**	1.4	4.7	9.4	28	34	3650	4200	5000	5000	4200	348	65000	-
48	15	23.5	6100	1.4	127.1	IE5	**BG90Z-../S5E11LA6**	1.1	3.9	7.8	23.5	28	4400	5000	6100	6100	5000	348	65000	-
48	15	21.5	6600	1.3	139.2	IE5	**BG90Z-../S5E11LA6**	1	3.5	7.1	21.5	25.5	4850	5500	6600	6600	5500	348	65000	-
48	15	18	7800	1.1	163	IE5	**BG90Z-../S5E11LA6**	0.9	3	6.1	18	22	5700	6500	7800	7800	6500	348	65000	-
48	15	16.5	8500	0.98	178.5	IE5	**BG90Z-../S5E11LA6**	0.8	2.8	5.6	16.5	20	6200	7100	8500	8500	7100	348	65000	-
48	15	14	9900	0.84	208.3	IE5	**BG90Z-../S5E11LA6**	0.7	2.4	4.8	14	17	7200	8300	9900	9900	8300	348	65000	-
48	15	13.5	10500	0.87	219.9	IE5	**BG90G50-../S5E11LA6**	0.65	2.2	4.5	13.5	16	7600	8700	10500	10500	8700	365	65000	-
48	15	25	5700	2.9	119.7	IE5	**BG100-../S5E11LA6**	1.2	4.1	8.3	25	30	4150	4750	5700	5700	4750	465	90000	-
48	15	21.5	6600	2.5	139.1	IE5	**BG100-../S5E11LA6**	1	3.5	7.1	21.5	25.5	4850	5500	6600	6600	5500	465	90000	-
48	15	19	7400	2.3	154.8	IE5	**BG100-../S5E11LA6**	0.95	3.2	6.4	19	23	5400	6100	7400	7400	6100	465	90000	-
48	15	16.5	8500	2	178.6	IE5	**BG100-../S5E11LA6**	0.8	2.7	5.5	16.5	20	6200	7100	8500	8500	7100	465	90000	-
48	15	15	9500	1.8	198.8	IE5	**BG100-../S5E11LA6**	0.75	2.5	5	15	18	6900	7900	9500	9500	7900	465	90000	-
48	15	12.5	11100	1.5	232.6	IE5	**BG100-../S5E11LA6**	0.6	2.1	4.2	12.5	15	8100	9300	11100	11100	9300	465	90000	-
48	15	11.5	12400	1.4	259	IE5	**BG100-../S5E11LA6**	0.55	1.9	3.8	11.5	13.5	9000	10300	12400	12400	10300	465	90000	-
48	15	11	12900	1.4	269.8	IE5	**BG100Z-../S5E11LA6**	0.55	1.8	3.7	11	13	9400	10700	12900	12900	10700	555	90000	-
48	15	9.9	14400	1.3	300.4	IE5	**BG100Z-../S5E11LA6**	0.49	1.6	3.3	9.9	11.5	10500	12000	14400	14400	12000	555	90000	-
48	15	8.7	16400	1.1	343.6	IE5	**BG100Z-../S5E11LA6**	0.43	1.4	2.9	8.7	10	12000	13700	16400	16400	13700	555	90000	-
48	15	7.8	18300	1	382.6	IE5	**BG100Z-../S5E11LA6**	0.39	1.3	2.6	7.8	9.4	13300	15300	18300	18300	15300	555	90000	-
48	15	6.5	21500	0.84	456.7	IE5	**BG100Z-../S5E11LA6**	0.32	1	2.1	6.5	7.8	15900	18200	21500	21500	18200	555	90000	-



7

BF-series shaft-mounted geared motors - Selection

Description of shaft-mounted gear units 153
Sizes 153
Bauer service factors (f_B) for shaft-mounted geared motors 153
Continuous operation without switching frequency Z ≤1/h 153
Switching duty 153
Bauer service factor 153
Explanation of shock classification 153
Key to abbreviations 154
Selection tables shaft-mounted geared motors 154
Selection - shaft-mounted geared motors - n_1 = 1500 $^1/_{min}$ 155
Selection - shaft-mounted geared motors - n_1 = 3000 $^1/_{min}$ 180

Sizes

Bauer BF-series shaft-mounted geared motors are normally supplied in ten frame sizes and with torques of 90 to 18,500 Nm. Higher torques are available on request. The gear unit is accommodated in a sturdy cast housing

Bauer service factors (f_B) for shaft-mounted geared motors

Of the numerous factors influencing the total loading of a gear unit, the most important include:

- Mean torque (rated torque)
- Daily operating hours
- Severity of torque peaks (shock classification)
- Frequency of torque peaks (switching duty)

These factors can be represented in a simplified and practical manner by ***service factors***. The tables and explanations below attempt to provide an objective description of the ***shock classification***, rather than a classification of the driven machinery. Experience has shown that, in addition to the torque shocks caused by the driven machinery (M_x/M_N), above all the power transmission components (clutches, chains etc.) plus the mass ratios play a decisive role in this.

See Bauer special imprint SD32 for more information.

Continuous operation without switching frequency Z ≤1/h

Factor f_1 for shock classification and operating time

Shock classification	Operating hours per day t_d	>4 h ≤8 h	>8 h ≤16 h	>16 h ≤24 h
I		0.8	1.0	1.2
II		1.05	1.25	1.45
III		1.45	1.55	1.7

Switching duty

Factor f_2 for shock classification and switching frequency

Switching frequency in single- shift operation t_d ≤8 h/d

Shock classification	1 <Z ≤100	100 <Z ≤1000	1000 <Z
I	0.95	1.1	1.15
II	1.2	1.35	1.4
III	1.55	1.6	1.6

Switching frequency in multiple- shift operation t_d >8 h/d

Shock classification	1 <Z ≤100	100 <Z ≤1000	1000 <Z
I	1.3	1.45	1.5
II	1.5	1.6	1.65
III	1,75	1.8	1.8

Bauer service factor

Bauer Service factor $f_B = f_1$ or $f_B = f_2$

For example: Shock classification II for Z = 100 switching operations per hour and multiple-shift operation yields a service factor $f_B = f_2 = 1.5$

Explanation of shock classification

Shock classification I:
Uniform without shock loads. All the following requirements must be satisfied:

- FI ≤1,3
- M_x/M_N ≤1,0
- Shock-absorbing power transmission components (e.g. highly resilient, zero-play coupling, φ N ≥5°)

Shock classification II:
Moderate shock loads. At least one of the following conditions applies:
- 1.3 <FI ≤4
- 1 <Mx/M_N ≤1.6
- Shock-neutral power transmission components (e.g. gear wheels, zero- play rigid coupling or resilient coupling with φ N <5°)

Shock classification III:
Heavy shock loads. At least one of the following conditions applies:
- FI >4
- 1.6 <Mx/M_N ≤2.0
- Shock-amplifying power transmission components (e.g. coupling with play or chain drive)

Key to abbreviations

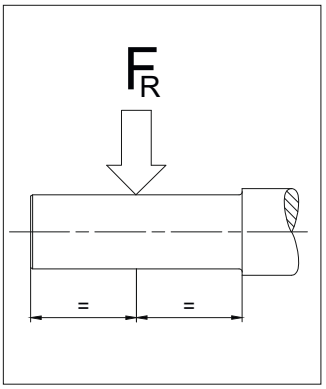
Z	Switching duty number of switching operations per hour
t_d	Daily operating time in hours (h/d)
FI	Factor of inertia FI = (J_{ext} + J_{rot})/J_{rot}
J_{ext}	Mass moment of inertia of the machine to be driven, in relation to the motor's rotor shaft (kgm^2)
J_{rot}	Mass moment of inertia of the motor rotor (kgm2)
Mx	Highest impact torque above the static torque which can occur during normal operation or in emergency situations
M_N	Required static load torque for the application
M_x/M_N	Relative torque - Factor
φ N	Torsional offset of the resilient coupling under rated torque

7

Selection tables shaft-mounted geared motors

Key to abbreviations

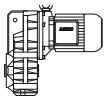
P	Rated output
n_2	Rated speed of the output shaft
i	Gear reduction ratio
M_2	Rated torque at the output shaft
f_B	Bauer service factor
F_{RN}	Maximum permissible radial force with normal bearings
F_{RV}	Maximum permissible radial force with reinforced bearings in each case with standard solid shaft (Code -.1 und -.2)



Use the selection tables to determine the size of geared motor required. The codes clearly define the Type of gear unit and output shaft (see chapter 11 „dimensional drawings shaft-mounted gear motors").

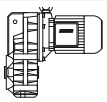
Motor power overload protection
Motor-power ratings, particularly in conjunction with four-stage and multi-stage gear units, are more than ample in some instances. Consequently, and in much the same way as with low-power motors, rated current is not a measure of gear loading and cannot be used to protect the gear unit against overloading. It is advisable to provide gears at risk from excessive load or blockage with a protective mechanism (e. g., sliding clutch, sliding hub, shear pin or an alternative).

MN = 0.76 Nm (PN = 0.12 kW)



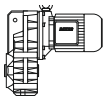
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
0.76	0.12	9.9	114	2.1	151.2	IE4	**BF10Z-../S4E04SA4-1**	0.95	3.3	6.6	9.9	11.5	114	114	114	114	114	21	6400	-
0.76	0.12	9	126	1.9	166.2	IE4	**BF10Z-../S4E04SA4-1**	0.9	3	6	9	10.5	126	126	126	126	126	21	6400	-
0.76	0.12	8.3	136	1.8	180.1	IE4	**BF10Z-../S4E04SA4-1**	0.8	2.7	5.5	8.3	9.9	136	136	136	136	136	21	6400	-
0.76	0.12	7.5	150	1.6	198	IE4	**BF10Z-../S4E04SA4-1**	0.75	2.5	5	7.5	9	150	150	150	150	150	21	6400	-
0.76	0.12	6.9	163	1.5	214.5	IE4	**BF10Z-../S4E04SA4-1**	0.65	2.3	4.6	6.9	8.3	163	163	163	163	163	21	6400	-
0.76	0.12	6.3	179	1.3	235.8	IE4	**BF10Z-../S4E04SA4-1**	0.6	2.1	4.2	6.3	7.6	179	179	179	179	179	21	6400	-
0.76	0.12	5.8	195	1.2	257.4	IE4	**BF10Z-../S4E04SA4-1**	0.55	1.9	3.8	5.8	6.9	195	195	195	195	195	21	6400	-
0.76	0.12	5.2	215	1.1	283.1	IE4	**BF10Z-../S4E04SA4-1**	0.5	1.7	3.5	5.2	6.3	215	215	215	215	215	21	6400	-
0.76	0.12	4.6	245	0.97	324.3	IE4	**BF10Z-../S4E04SA4-1**	0.46	1.5	3	4.6	5.5	245	245	245	245	245	21	6400	-
0.76	0.12	4.2	270	0.89	356.6	IE4	**BF10Z-../S4E04SA4-1**	0.42	1.4	2.8	4.2	5	270	270	270	270	270	21	6400	-
0.76	0.12	3.9	285	0.83	380.2	IE4	**BF10Z-../S4E04SA4-1**	0.39	1.3	2.6	3.9	4.7	285	285	285	285	285	21	6400	-
0.76	0.12	4.6	240	1.1	322.3	IE4	**BF10G06-../S4E04SA4-1**	0.46	1.5	3.1	4.6	5.5	240	240	240	240	240	25	6400	-
0.76	0.12	3.9	285	0.91	377.9	IE4	**BF10G06-../S4E04SA4-1**	0.39	1.3	2.6	3.9	4.7	285	285	285	285	285	25	6400	-
0.76	0.12	3.5	320	0.81	424.5	IE4	**BF10G06-../S4E04SA4-1**	0.35	1.1	2.3	3.5	4.2	320	320	320	320	320	25	6400	-
0.76	0.12	7.6	149	2.8	197.1	IE4	**BF20Z-../S4E04SA4-1**	0.75	2.5	5	7.6	9.1	149	149	149	149	149	28	7900	-
0.76	0.12	6.9	164	2.5	216.9	IE4	**BF20Z-../S4E04SA4-1**	0.65	2.3	4.6	6.9	8.2	164	164	164	164	164	28	7900	-
0.76	0.12	6.3	179	2.3	235.9	IE4	**BF20Z-../S4E04SA4-1**	0.6	2.1	4.2	6.3	7.6	179	179	179	179	179	28	7900	-
0.76	0.12	5.7	197	2.1	259.6	IE4	**BF20Z-../S4E04SA4-1**	0.55	1.9	3.8	5.7	6.9	197	197	197	197	197	28	7900	-
0.76	0.12	5	220	1.9	295.5	IE4	**BF20Z-../S4E04SA4-1**	0.5	1.6	3.3	5	6	220	220	220	220	220	28	7900	-
0.76	0.12	4.6	245	1.7	325.2	IE4	**BF20Z-../S4E04SA4-1**	0.46	1.5	3	4.6	5.5	245	245	245	245	245	28	7900	-
0.76	0.12	4.4	255	1.6	339.1	IE4	**BF20Z-../S4E04SA4-1**	0.44	1.4	2.9	4.4	5.3	255	255	255	255	255	28	7900	-
0.76	0.12	4	280	1.5	373.1	IE4	**BF20Z-../S4E04SA4-1**	0.4	1.3	2.6	4	4.8	280	280	280	280	280	28	7900	-
0.76	0.12	3.5	315	1.3	418.1	IE4	**BF20Z-../S4E04SA4-1**	0.35	1.1	2.3	3.5	4.3	315	315	315	315	315	28	7900	-
0.76	0.12	3.2	345	1.2	460	IE4	**BF20Z-../S4E04SA4-1**	0.32	1	2.1	3.2	3.9	345	345	345	345	345	28	7900	-
0.76	0.12	2.9	390	1.2	513.7	IE4	**BF20G06-../S4E04SA4-1**	0.29	0.95	1.9	2.9	3.5	390	390	390	390	390	31	7900	-
0.76	0.12	2.4	465	0.98	617	IE4	**BF20G06-../S4E04SA4-1**	0.24	0.8	1.6	2.4	2.9	465	465	465	465	465	31	7900	-
0.76	0.12	2	550	0.82	736.1	IE4	**BF20G06-../S4E04SA4-1**	0.2	0.65	1.3	2	2.4	550	550	550	550	550	31	7900	-
0.76	0.12	2.4	470	1.3	622.4	IE4	**BF30G06-../S4E04SA4-1**	0.24	0.8	1.6	2.4	2.8	470	470	470	470	470	41	7400	-
0.76	0.12	2.1	530	1.2	705.1	IE4	**BF30G06-../S4E04SA4-1**	0.21	0.7	1.4	2.1	2.5	530	530	530	530	530	41	7400	-
0.76	0.12	1.8	620	1	817.1	IE4	**BF30G06-../S4E04SA4-1**	0.18	0.6	1.2	1.8	2.2	620	620	620	620	620	41	7400	-
0.76	0.12	1.5	730	0.86	961.1	IE4	**BF30G06-../S4E04SA4-1**	0.15	0.5	1	1.5	1.8	730	730	730	730	730	41	7400	-

MN = 1 Nm (PN = 0.157 kW)



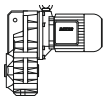
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
1	0.157	9.9	151	1.6	151.2	IE2	**BF10Z-../SHE04SA4-1**	0.95	3.3	6.6	9.9	11.5	114	128	151	151	151	21	6400	-
1	0.157	9	166	1.4	166.2	IE2	**BF10Z-../SHE04SA4-1**	0.9	3	6	9	10.5	126	141	166	166	166	21	6400	-
1	0.157	8.3	180	1.3	180.1	IE2	**BF10Z-../SHE04SA4-1**	0.8	2.7	5.5	8.3	9.9	136	153	180	180	180	21	6400	-
1	0.157	7.5	198	1.2	198	IE2	**BF10Z-../SHE04SA4-1**	0.75	2.5	5	7.5	9	150	168	198	198	198	21	6400	-
1	0.157	6.9	210	1.1	214.5	IE2	**BF10Z-../SHE04SA4-1**	0.65	2.3	4.6	6.9	8.3	163	182	210	210	210	21	6400	-
1	0.157	6.3	235	1	235.8	IE2	**BF10Z-../SHE04SA4-1**	0.6	2.1	4.2	6.3	7.6	179	200	235	235	235	21	6400	-
1	0.157	5.8	255	0.93	257.4	IE2	**BF10Z-../SHE04SA4-1**	0.55	1.9	3.8	5.8	6.9	195	215	255	255	255	21	6400	-
1	0.157	5.2	280	0.85	283.1	IE2	**BF10Z-../SHE04SA4-1**	0.5	1.7	3.5	5.2	6.3	215	240	280	280	280	21	6400	-
1	0.157	4.6	320	0.81	322.3	IE2	**BF10G06-../SHE04SA4-1**	0.46	1.5	3.1	4.6	5.5	240	270	320	320	320	25	6400	-
1	0.157	10.5	141	3	141.2	IE2	**BF20Z-../SHE04SA4-1**	1	3.5	7	10.5	12.5	107	120	141	141	141	28	7900	-
1	0.157	9.6	155	2.7	155.4	IE2	**BF20Z-../SHE04SA4-1**	0.95	3.2	6.4	9.6	11.5	118	132	155	155	155	28	7900	-
1	0.157	9.1	164	2.6	164.3	IE2	**BF20Z-../SHE04SA4-1**	0.9	3	6	9.1	10.5	124	139	164	164	164	28	7900	-
1	0.157	8.2	180	2.3	180.8	IE2	**BF20Z-../SHE04SA4-1**	0.8	2.7	5.5	8.2	9.9	137	153	180	180	180	28	7900	-
1	0.157	7.6	197	2.1	197.1	IE2	**BF20Z-../SHE04SA4-1**	0.75	2.5	5	7.6	9.1	149	167	197	197	197	28	7900	-
1	0.157	6.9	215	1.9	216.9	IE2	**BF20Z-../SHE04SA4-1**	0.65	2.3	4.6	6.9	8.2	164	184	215	215	215	28	7900	-
1	0.157	6.3	235	1.8	235.9	IE2	**BF20Z-../SHE04SA4-1**	0.6	2.1	4.2	6.3	7.6	179	200	235	235	235	28	7900	-
1	0.157	5.7	255	1.6	259.6	IE2	**BF20Z-../SHE04SA4-1**	0.55	1.9	3.8	5.7	6.9	197	220	255	255	255	28	7900	-
1	0.157	5	295	1.4	295.5	IE2	**BF20Z-../SHE04SA4-1**	0.5	1.6	3.3	5	6	220	250	295	295	295	28	7900	-
1	0.157	4.6	325	1.3	325.2	IE2	**BF20Z-../SHE04SA4-1**	0.46	1.5	3	4.6	5.5	245	275	325	325	325	28	7900	-
1	0.157	4.4	335	1.2	339.1	IE2	**BF20Z-../SHE04SA4-1**	0.44	1.4	2.9	4.4	5.3	255	285	335	335	335	28	7900	-
1	0.157	4	370	1.1	373.1	IE2	**BF20Z-../SHE04SA4-1**	0.4	1.3	2.6	4	4.8	280	315	370	370	370	28	7900	-
1	0.157	3.5	415	1	418.1	IE2	**BF20Z-../SHE04SA4-1**	0.35	1.1	2.3	3.5	4.3	315	355	415	415	415	28	7900	-
1	0.157	3.2	460	0.91	460	IE2	**BF20Z-../SHE04SA4-1**	0.32	1	2.1	3.2	3.9	345	390	460	460	460	28	7900	-
1	0.157	2.9	510	0.9	513.7	IE2	**BF20G06-../SHE04SA4-1**	0.29	0.95	1.9	2.9	3.5	390	435	510	510	510	31	7900	-
1	0.157	2.4	620	1	622.4	IE2	**BF30G06-../SHE04SA4-1**	0.24	0.8	1.6	2.4	2.8	470	520	620	620	620	41	7400	-
1	0.157	2.1	700	0.89	705.1	IE2	**BF30G06-../SHE04SA4-1**	0.21	0.7	1.4	2.1	2.5	530	590	700	700	700	41	7400	-

MN = 1.3 Nm (PN = 0.2 kW)



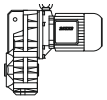
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
1.3	0.2	56	34.5	2.7	26.76	IE5	**BF06-../S5E06MA4**	5.6	18.5	37	56	67	34.5	34.5	34.5	34.5	34.5	12	3000	-
1.3	0.2	47.5	40.5	2.3	31.5	IE5	**BF06-../S5E06MA4**	4.7	15.5	31.5	47.5	57	40.5	40.5	40.5	40.5	40.5	12	3200	-
1.3	0.2	39.5	48.5	1.9	37.69	IE5	**BF06-../S5E06MA4**	3.9	13	26.5	39.5	47.5	48.5	48.5	48.5	48.5	48.5	12	3500	-
1.3	0.2	32.5	59	1.6	46.14	IE5	**BF06-../S5E06MA4**	3.2	10.5	21.5	32.5	39	59	59	59	59	59	12	3800	-
1.3	0.2	25.5	75	1.3	58.33	IE5	**BF06-../S5E06MA4**	2.5	8.5	17	25.5	30.5	75	75	75	75	75	12	4000	-
1.3	0.2	22	86	1.1	66.82	IE5	**BF06-../S5E06MA4**	2.2	7.4	14.5	22	26.5	86	86	86	86	86	12	4000	-
1.3	0.2	17.5	108	0.87	83.61	IE5	**BF06-../S5E06MA4**	1.7	5.9	11.5	17.5	21.5	108	108	108	108	108	12	4000	-
1.3	0.2	24	80	3	61.55	IE5	**BF10-../S5E06MA4**	2.4	8.1	16	24	29	80	80	80	80	80	23	4700	-
1.3	0.2	22	87	2.7	67.69	IE5	**BF10-../S5E06MA4**	2.2	7.3	14.5	22	26.5	87	87	87	87	87	23	4900	-
1.3	0.2	19	100	2.4	77.55	IE5	**BF10-../S5E06MA4**	1.9	6.4	12.5	19	23	100	100	100	100	100	23	5100	-
1.3	0.2	17.5	110	2.2	85.27	IE5	**BF10-../S5E06MA4**	1.7	5.8	11.5	17.5	21	110	110	110	110	110	23	5300	-
1.3	0.2	16	118	2	90.91	IE5	**BF10-../S5E06MA4**	1.6	5.4	10.5	16	19.5	118	118	118	118	118	23	5400	-
1.3	0.2	15	129	1.8	99.97	IE5	**BF10-../S5E06MA4**	1.5	5	10	15	18	129	129	129	129	129	23	5600	-
1.3	0.2	13	145	1.6	112.3	IE5	**BF10-../S5E06MA4**	1.3	4.4	8.9	13	16	145	145	145	145	145	23	5900	-
1.3	0.2	12	160	1.5	123.5	IE5	**BF10-../S5E06MA4**	1.2	4	8	12	14.5	160	160	160	160	160	23	6100	-
1.3	0.2	11.5	167	1.4	128.9	IE5	**BF10-../S5E06MA4**	1.1	3.8	7.7	11.5	13.5	167	167	167	167	167	23	6200	-
1.3	0.2	10.5	184	1.3	141.8	IE5	**BF10-../S5E06MA4**	1	3.5	7	10.5	12.5	184	184	184	184	184	23	6400	-
1.3	0.2	9.9	196	1.2	151.2	IE5	**BF10Z-../S5E06MA4**	0.95	3.3	6.6	9.9	11.5	196	196	196	196	196	24	6400	-
1.3	0.2	9	215	1.1	166.2	IE5	**BF10Z-../S5E06MA4**	0.9	3	6	9	10.5	215	215	215	215	215	24	6400	-
1.3	0.2	8.3	230	1	180.1	IE5	**BF10Z-../S5E06MA4**	0.8	2.7	5.5	8.3	9.9	230	230	230	230	230	24	6400	-
1.3	0.2	7.5	255	0.93	198	IE5	**BF10Z-../S5E06MA4**	0.75	2.5	5	7.5	9	255	255	255	255	255	24	6400	-
1.3	0.2	6.9	275	0.86	214.5	IE5	**BF10Z-../S5E06MA4**	0.65	2.3	4.6	6.9	8.3	275	275	275	275	275	24	6400	-
1.3	0.2	13.5	143	2.9	110.2	IE5	**BF20-../S5E06MA4**	1.3	4.5	9	13.5	16	143	143	143	143	143	30	7300	-
1.3	0.2	12	160	2.6	123.5	IE5	**BF20-../S5E06MA4**	1.2	4	8	12	14.5	160	160	160	160	160	30	7600	-
1.3	0.2	11	176	2.4	135.9	IE5	**BF20-../S5E06MA4**	1.1	3.6	7.3	11	13	176	176	176	176	176	30	7900	-
1.3	0.2	10.5	183	2.3	141.2	IE5	**BF20Z-../S5E06MA4**	1	3.5	7	10.5	12.5	183	183	183	183	183	31	7900	-
1.3	0.2	9.6	200	2.1	155.4	IE5	**BF20Z-../S5E06MA4**	0.95	3.2	6.4	9.6	11.5	200	200	200	200	200	31	7900	-
1.3	0.2	9.1	210	2	164.3	IE5	**BF20Z-../S5E06MA4**	0.9	3	6	9.1	10.5	210	210	210	210	210	31	7900	-
1.3	0.2	8.2	235	1.8	180.8	IE5	**BF20Z-../S5E06MA4**	0.8	2.7	5.5	8.2	9.9	235	235	235	235	235	31	7900	-
1.3	0.2	7.6	255	1.6	197.1	IE5	**BF20Z-../S5E06MA4**	0.75	2.5	5	7.6	9.1	255	255	255	255	255	31	7900	-
1.3	0.2	6.9	280	1.5	216.9	IE5	**BF20Z-../S5E06MA4**	0.65	2.3	4.6	6.9	8.2	280	280	280	280	280	31	7900	-
1.3	0.2	6.3	305	1.4	235.9	IE5	**BF20Z-../S5E06MA4**	0.6	2.1	4.2	6.3	7.6	305	305	305	305	305	31	7900	-
1.3	0.2	5.7	335	1.2	259.6	IE5	**BF20Z-../S5E06MA4**	0.55	1.9	3.8	5.7	6.9	335	335	335	335	335	31	7900	-
1.3	0.2	5	380	1.1	295.5	IE5	**BF20Z-../S5E06MA4**	0.5	1.6	3.3	5	6	380	380	380	380	380	31	7900	-
1.3	0.2	4.6	420	0.99	325.2	IE5	**BF20Z-../S5E06MA4**	0.46	1.5	3	4.6	5.5	420	420	420	420	420	31	7900	-
1.3	0.2	4.4	440	0.95	339.1	IE5	**BF20Z-../S5E06MA4**	0.44	1.4	2.9	4.4	5.3	440	440	440	440	440	31	7900	-
1.3	0.2	4	485	0.87	373.1	IE5	**BF20Z-../S5E06MA4**	0.4	1.3	2.6	4	4.8	485	485	485	485	485	31	7900	-
1.3	0.2	9	215	2.6	165.8	IE5	**BF30Z-../S5E06MA4**	0.9	3	6	9	10.5	215	215	215	215	215	42	7400	-
1.3	0.2	8.4	225	2.5	176.6	IE5	**BF30Z-../S5E06MA4**	0.8	2.8	5.6	8.4	10	225	225	225	225	225	42	7400	-
1.3	0.2	7.7	250	2.3	194.3	IE5	**BF30Z-../S5E06MA4**	0.75	2.5	5.1	7.7	9.2	250	250	250	250	250	42	7400	-
1.3	0.2	6.6	290	2	224.8	IE5	**BF30Z-../S5E06MA4**	0.65	2.2	4.4	6.6	8	290	290	290	290	290	42	7400	-
1.3	0.2	6	320	1.8	247.3	IE5	**BF30Z-../S5E06MA4**	0.6	2	4	6	7.2	320	320	320	320	320	42	7400	-
1.3	0.2	5.6	340	1.7	263.5	IE5	**BF30Z-../S5E06MA4**	0.55	1.8	3.7	5.6	6.8	340	340	340	340	340	42	7400	-
1.3	0.2	5.1	375	1.5	289.8	IE5	**BF30Z-../S5E06MA4**	0.5	1.7	3.4	5.1	6.2	375	375	375	375	375	42	7400	-
1.3	0.2	4.8	400	1.4	310.7	IE5	**BF30Z-../S5E06MA4**	0.48	1.6	3.2	4.8	5.7	400	400	400	400	400	42	7400	-
1.3	0.2	4.3	440	1.3	341.8	IE5	**BF30Z-../S5E06MA4**	0.43	1.4	2.9	4.3	5.2	440	440	440	440	440	42	7400	-
1.3	0.2	3.9	485	1.2	375.1	IE5	**BF30Z-../S5E06MA4**	0.39	1.3	2.6	3.9	4.7	485	485	485	485	485	42	7400	-
1.3	0.2	3.6	530	1.1	412.6	IE5	**BF30Z-../S5E06MA4**	0.36	1.2	2.4	3.6	4.3	530	530	530	530	530	42	7400	-
1.3	0.2	3.2	600	0.95	463.3	IE5	**BF30Z-../S5E06MA4**	0.32	1	2.1	3.2	3.8	600	600	600	600	600	42	7400	-
1.3	0.2	2.9	660	0.86	509.6	IE5	**BF30Z-../S5E06MA4**	0.29	0.95	1.9	2.9	3.5	660	660	660	660	660	42	7400	-
1.3	0.2	2.7	690	0.82	537	IE5	**BF30Z-../S5E06MA4**	0.27	0.9	1.8	2.7	3.3	690	690	690	690	690	42	7400	-
1.3	0.2	5.9	325	2.7	253.2	IE5	**BF40Z-../S5E06MA4**	0.55	1.9	3.9	5.9	7.1	325	325	325	325	325	53	10600	-
1.3	0.2	5.3	360	2.5	278.5	IE5	**BF40Z-../S5E06MA4**	0.5	1.7	3.5	5.3	6.4	360	360	360	360	360	53	10600	-
1.3	0.2	5	380	2.3	295.1	IE5	**BF40Z-../S5E06MA4**	0.5	1.6	3.3	5	6	380	380	380	380	380	53	10600	-
1.3	0.2	4.6	420	2.1	324.7	IE5	**BF40Z-../S5E06MA4**	0.46	1.5	3	4.6	5.5	420	420	420	420	420	53	10600	-
1.3	0.2	4.3	450	2	346.8	IE5	**BF40Z-../S5E06MA4**	0.43	1.4	2.8	4.3	5.1	450	450	450	450	450	53	10600	-
1.3	0.2	3.9	495	1.8	381.5	IE5	**BF40Z-../S5E06MA4**	0.39	1.3	2.6	3.9	4.7	495	495	495	495	495	53	10600	-
1.3	0.2	3.5	540	1.7	417.3	IE5	**BF40Z-../S5E06MA4**	0.35	1.1	2.3	3.5	4.3	540	540	540	540	540	53	10600	-
1.3	0.2	3.2	590	1.5	459.1	IE5	**BF40Z-../S5E06MA4**	0.32	1	2.1	3.2	3.9	590	590	590	590	590	53	10600	-
1.3	0.2	2.9	660	1.3	514.6	IE5	**BF40Z-../S5E06MA4**	0.29	0.95	1.9	2.9	3.4	660	660	660	660	660	53	10600	-
1.3	0.2	2.6	730	1.2	566.1	IE5	**BF40Z-../S5E06MA4**	0.26	0.85	1.7	2.6	3.1	730	730	730	730	730	53	10600	-
1.3	0.2	2.5	770	1.3	597.3	IE5	**BF40G10-../S5E06MA4**	0.25	0.8	1.6	2.5	3	770	770	770	770	770	58	10600	-
1.3	0.2	2	950	1.1	731.6	IE5	**BF40G10-../S5E06MA4**	0.2	0.65	1.3	2	2.4	950	950	950	950	950	58	10600	-
1.3	0.2	1.6	1200	0.83	928.9	IE5	**BF40G10-../S5E06MA4**	0.16	0.5	1	1.6	1.9	1200	1200	1200	1200	1200	58	10600	-
1.3	0.2	4.2	460	2.8	354	IE5	**BF50Z-../S5E06MA4**	0.42	1.4	2.8	4.2	5	460	460	460	460	460	82	13600	-
1.3	0.2	3.8	510	2.5	392.8	IE5	**BF50Z-../S5E06MA4**	0.38	1.2	2.5	3.8	4.5	510	510	510	510	510	82	13600	-
1.3	0.2	3.4	570	2.3	439.3	IE5	**BF50Z-../S5E06MA4**	0.34	1.1	2.2	3.4	4	570	570	570	570	570	82	13600	-
1.3	0.2	3	640	2	496.4	IE5	**BF50Z-../S5E06MA4**	0.3	1	2	3	3.6	640	640	640	640	640	82	13600	-
1.3	0.2	2.7	720	1.8	555.2	IE5	**BF50Z-../S5E06MA4**	0.27	0.9	1.8	2.7	3.2	720	720	720	720	720	82	13600	-
1.3	0.2	2.6	720	1.9	555.9	IE5	**BF50G10-../S5E06MA4**	0.26	0.85	1.7	2.6	3.2	720	720	720	720	720	86	13600	-
1.3	0.2	2.2	880	1.6	680.9	IE5	**BF50G10-../S5E06MA4**	0.22	0.7	1.4	2.2	2.6	880	880	880	880	880	86	13600	-
1.3	0.2	1.7	1120	1.2	864.5	IE5	**BF50G10-../S5E06MA4**	0.17	0.55	1.1	1.7	2	1120	1120	1120	1120	1120	86	13600	-
1.3	0.2	1.4	1330	1	1029	IE5	**BF50G10-../S5E06MA4**	0.14	0.48	0.95	1.4	1.7	1330	1330	1330	1330	1330	86	13600	-
1.3	0.2	1.2	1560	0.9	1203	IE5	**BF50G10-../S5E06MA4**	0.12	0.41	0.8	1.2	1.4	1560	1560	1560	1560	1560	86	13600	-
1.3	0.2	2.1	890	2.8	689	IE5	**BF60G20-../S5E06MA4**	0.21	0.7	1.4	2.1	2.6	890	890	890	890	890	134	15300	43300
1.3	0.2	1.8	1050	2.4	813.2	IE5	**BF60G20-../S5E06MA4**	0.18	0.6	1.2	1.8	2.2	1050	1050	1050	1050	1050	134	15300	43300
1.3	0.2	1.5	1210	2.1	937.6	IE5	**BF60G20-../S5E06MA4**	0.15	0.5	1	1.5	1.9	1210	1210	1210	1210	1210	134	15300	43300

MN = 1.3 Nm (PN = 0.2 kW)



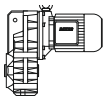
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
1.3	0.2	1.2	1570	1.6	1211	IE5	**BF60G20-../S5E06MA4**	0.12	0.41	0.8	1.2	1.4	1570	1570	1570	1570	1570	134	15300	43300
1.3	0.2	1	1940	1.3	1494	IE5	**BF60G20-../S5E06MA4**	0.1	0.33	0.65	1	1.2	1940	1940	1940	1940	1940	134	15300	43300
1.3	0.2	0.9	2150	1.2	1658	IE5	**BF60G20-../S5E06MA4**	0.09	0.3	0.6	0.9	1	2150	2150	2150	2150	2150	134	15300	43300
1.3	0.2	0.75	2500	0.98	1955	IE5	**BF60G20-../S5E06MA4**	0.075	0.25	0.5	0.75	0.9	2500	2500	2500	2500	2500	134	15300	43300
1.3	0.2	0.65	2800	0.89	2172	IE5	**BF60G20-../S5E06MA4**	0.065	0.23	0.46	0.65	0.8	2800	2800	2800	2800	2800	134	15300	43300
1.3	0.2	0.9	2100	2.7	1621	IE5	**BF70G20-../S5E06MA4**	0.09	0.3	0.6	0.9	1.1	2100	2100	2100	2100	2100	212	16100	47700
1.3	0.2	0.75	2450	2.3	1912	IE5	**BF70G20-../S5E06MA4**	0.075	0.26	0.5	0.75	0.9	2450	2450	2450	2450	2450	212	16100	47700
1.3	0.2	0.6	3150	1.8	2448	IE5	**BF70G20-../S5E06MA4**	0.06	0.2	0.4	0.6	0.7	3150	3150	3150	3150	3150	212	16100	47700
1.3	0.2	0.5	3700	1.5	2849	IE5	**BF70G20-../S5E06MA4**	0.05	0.17	0.35	0.5	0.6	3700	3700	3700	3700	3700	212	16100	47700
1.3	0.2	0.43	4400	1.3	3417	IE5	**BF70G20-../S5E06MA4**	0.043	0.14	0.29	0.43	0.5	4400	4400	4400	4400	4400	212	16100	47700
1.3	0.2	0.36	5300	1.1	4090	IE5	**BF70G20-../S5E06MA4**	0.036	0.12	0.24	0.36	0.44	5300	5300	5300	5300	5300	212	16100	47700
1.3	0.2	0.33	5900	0.97	4542	IE5	**BF70G20-../S5E06MA4**	0.033	0.11	0.22	0.33	0.39	5900	5900	5900	5900	5900	212	16100	47700
1.3	0.2	0.29	6600	0.86	5124	IE5	**BF70G20-../S5E06MA4**	0.029	0.095	0.19	0.29	0.35	6600	6600	6600	6600	6600	212	16100	47700

MN = 1.6 Nm (PN = 0.25 kW)



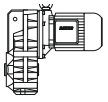
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
1.6	0.25	73	32.5	2.9	20.42	IE4	**BF06-../S4E06MA4**	7.3	24	48.5	73	88	32.5	32.5	32.5	32.5	32.5	12	2700	-
1.6	0.25	56	42.5	2.2	26.76	IE4	**BF06-../S4E06MA4**	5.6	18.5	37	56	67	42.5	42.5	42.5	42.5	42.5	12	3000	-
1.6	0.25	47.5	50	1.9	31.5	IE4	**BF06-../S4E06MA4**	4.7	15.5	31.5	47.5	57	50	50	50	50	50	12	3200	-
1.6	0.25	39.5	60	1.6	37.69	IE4	**BF06-../S4E06MA4**	3.9	13	26.5	39.5	47.5	60	60	60	60	60	12	3500	-
1.6	0.25	32.5	73	1.3	46.14	IE4	**BF06-../S4E06MA4**	3.2	10.5	21.5	32.5	39	73	73	73	73	73	12	3800	-
1.6	0.25	25.5	93	1	58.33	IE4	**BF06-../S4E06MA4**	2.5	8.5	17	25.5	30.5	93	93	93	93	93	12	4000	-
1.6	0.25	22	106	0.89	66.82	IE4	**BF06-../S4E06MA4**	2.2	7.4	14.5	22	26.5	106	106	106	106	106	12	4000	-
1.6	0.25	29	82	2.9	51.28	IE4	**BF10-../S4E06MA4**	2.9	9.7	19.5	29	35	82	82	82	82	82	23	4400	-
1.6	0.25	26.5	90	2.7	56.39	IE4	**BF10-../S4E06MA4**	2.6	8.8	17.5	26.5	31.5	90	90	90	90	90	23	4550	-
1.6	0.25	24	98	2.4	61.55	IE4	**BF10-../S4E06MA4**	2.4	8.1	16	24	29	98	98	98	98	98	23	4700	-
1.6	0.25	22	108	2.2	67.69	IE4	**BF10-../S4E06MA4**	2.2	7.3	14.5	22	26.5	108	108	108	108	108	23	4900	-
1.6	0.25	19	124	1.9	77.55	IE4	**BF10-../S4E06MA4**	1.9	6.4	12.5	19	23	124	124	124	124	124	23	5100	-
1.6	0.25	17.5	136	1.8	85.27	IE4	**BF10-../S4E06MA4**	1.7	5.8	11.5	17.5	21	136	136	136	136	136	23	5300	-
1.6	0.25	16	145	1.6	90.91	IE4	**BF10-../S4E06MA4**	1.6	5.4	10.5	16	19.5	145	145	145	145	145	23	5400	-
1.6	0.25	15	159	1.5	99.97	IE4	**BF10-../S4E06MA4**	1.5	5	10	15	18	159	159	159	159	159	23	5600	-
1.6	0.25	13	179	1.3	112.3	IE4	**BF10-../S4E06MA4**	1.3	4.4	8.9	13	16	179	179	179	179	179	23	5900	-
1.6	0.25	12	197	1.2	123.5	IE4	**BF10-../S4E06MA4**	1.2	4	8	12	14.5	197	197	197	197	197	23	6100	-
1.6	0.25	11.5	205	1.2	128.9	IE4	**BF10-../S4E06MA4**	1.1	3.8	7.7	11.5	13.5	205	205	205	205	205	23	6200	-
1.6	0.25	10.5	225	1.1	141.8	IE4	**BF10-../S4E06MA4**	1	3.5	7	10.5	12.5	225	225	225	225	225	23	6400	-
1.6	0.25	9.9	240	0.99	151.2	IE4	**BF10Z-../S4E06MA4**	0.95	3.3	6.6	9.9	11.5	240	240	240	240	240	24	6400	-
1.6	0.25	9	265	0.9	166.2	IE4	**BF10Z-../S4E06MA4**	0.9	3	6	9	10.5	265	265	265	265	265	24	6400	-
1.6	0.25	8.3	285	0.83	180.1	IE4	**BF10Z-../S4E06MA4**	0.8	2.7	5.5	8.3	9.9	285	285	285	285	285	24	6400	-
1.6	0.25	17	139	3	87.31	IE4	**BF20-../S4E06MA4**	1.7	5.7	11	17	20.5	139	139	139	139	139	30	6600	-
1.6	0.25	15.5	153	2.7	96.08	IE4	**BF20-../S4E06MA4**	1.5	5.2	10	15.5	18.5	153	153	153	153	153	30	6900	-
1.6	0.25	14.5	160	2.6	100.2	IE4	**BF20-../S4E06MA4**	1.4	4.9	9.9	14.5	17.5	160	160	160	160	160	30	7000	-
1.6	0.25	13.5	176	2.4	110.2	IE4	**BF20-../S4E06MA4**	1.3	4.5	9	13.5	16	176	176	176	176	176	30	7300	-
1.6	0.25	12	197	2.1	123.5	IE4	**BF20-../S4E06MA4**	1.2	4	8	12	14.5	197	197	197	197	197	30	7600	-
1.6	0.25	11	215	1.9	135.9	IE4	**BF20-../S4E06MA4**	1.1	3.6	7.3	11	13	215	215	215	215	215	30	7900	-
1.6	0.25	10.5	225	1.9	141.2	IE4	**BF20Z-../S4E06MA4**	1	3.5	7	10.5	12.5	225	225	225	225	225	31	7900	-
1.6	0.25	9.6	245	1.7	155.4	IE4	**BF20Z-../S4E06MA4**	0.95	3.2	6.4	9.6	11.5	245	245	245	245	245	31	7900	-
1.6	0.25	9.1	260	1.6	164.3	IE4	**BF20Z-../S4E06MA4**	0.9	3	6	9.1	10.5	260	260	260	260	260	31	7900	-
1.6	0.25	8.2	285	1.5	180.8	IE4	**BF20Z-../S4E06MA4**	0.8	2.7	5.5	8.2	9.9	285	285	285	285	285	31	7900	-
1.6	0.25	7.6	315	1.3	197.1	IE4	**BF20Z-../S4E06MA4**	0.75	2.5	5	7.6	9.1	315	315	315	315	315	31	7900	-
1.6	0.25	6.9	345	1.2	216.9	IE4	**BF20Z-../S4E06MA4**	0.65	2.3	4.6	6.9	8.2	345	345	345	345	345	31	7900	-
1.6	0.25	6.3	375	1.1	235.9	IE4	**BF20Z-../S4E06MA4**	0.6	2.1	4.2	6.3	7.6	375	375	375	375	375	31	7900	-
1.6	0.25	5.7	415	1	259.6	IE4	**BF20Z-../S4E06MA4**	0.55	1.9	3.8	5.7	6.9	415	415	415	415	415	31	7900	-
1.6	0.25	5	470	0.89	295.5	IE4	**BF20Z-../S4E06MA4**	0.5	1.6	3.3	5	6	470	470	470	470	470	31	7900	-
1.6	0.25	4.6	520	0.81	325.2	IE4	**BF20Z-../S4E06MA4**	0.46	1.5	3	4.6	5.5	520	520	520	520	520	31	7900	-
1.6	0.25	12.5	189	3	118.3	IE4	**BF30-../S4E06MA4**	1.2	4.2	8.4	12.5	15	189	189	189	189	189	40	7000	-
1.6	0.25	12	199	2.9	124.7	IE4	**BF30-../S4E06MA4**	1.2	4	8	12	14	199	199	199	199	199	40	7100	-
1.6	0.25	10.5	215	2.6	137.1	IE4	**BF30-../S4E06MA4**	1	3.6	7.2	10.5	13	215	215	215	215	215	40	7400	-
1.6	0.25	9.9	240	2.4	150.7	IE4	**BF30Z-../S4E06MA4**	0.95	3.3	6.6	9.9	11.5	240	240	240	240	240	42	7400	-
1.6	0.25	9	265	2.1	165.8	IE4	**BF30Z-../S4E06MA4**	0.9	3	6	9	10.5	265	265	265	265	265	42	7400	-
1.6	0.25	8.4	280	2	176.6	IE4	**BF30Z-../S4E06MA4**	0.8	2.8	5.6	8.4	10	280	280	280	280	280	42	7400	-
1.6	0.25	7.7	310	1.8	194.3	IE4	**BF30Z-../S4E06MA4**	0.75	2.5	5.1	7.7	9.2	310	310	310	310	310	42	7400	-
1.6	0.25	6.6	355	1.6	224.8	IE4	**BF30Z-../S4E06MA4**	0.65	2.2	4.4	6.6	8	355	355	355	355	355	42	7400	-
1.6	0.25	6	395	1.4	247.3	IE4	**BF30Z-../S4E06MA4**	0.6	2	4	6	7.2	395	395	395	395	395	42	7400	-
1.6	0.25	5.6	420	1.4	263.5	IE4	**BF30Z-../S4E06MA4**	0.55	1.8	3.7	5.6	6.8	420	420	420	420	420	42	7400	-
1.6	0.25	5.1	460	1.2	289.8	IE4	**BF30Z-../S4E06MA4**	0.5	1.7	3.4	5.1	6.2	460	460	460	460	460	42	7400	-
1.6	0.25	4.8	495	1.1	310.7	IE4	**BF30Z-../S4E06MA4**	0.48	1.6	3.2	4.8	5.7	495	495	495	495	495	42	7400	-
1.6	0.25	4.3	540	1	341.8	IE4	**BF30Z-../S4E06MA4**	0.43	1.4	2.9	4.3	5.2	540	540	540	540	540	42	7400	-
1.6	0.25	3.9	600	0.95	375.1	IE4	**BF30Z-../S4E06MA4**	0.39	1.3	2.6	3.9	4.7	600	600	600	600	600	42	7400	-
1.6	0.25	3.6	660	0.86	412.6	IE4	**BF30Z-../S4E06MA4**	0.36	1.2	2.4	3.6	4.3	660	660	660	660	660	42	7400	-
1.6	0.25	7.9	300	3	188.3	IE4	**BF40Z-../S4E06MA4**	0.75	2.6	5.3	7.9	9.5	300	300	300	300	300	53	10600	-

MN = 1.6 Nm (PN = 0.25 kW)



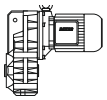
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
1.6	0.25	7.4	320	2.8	202.2	IE4	**BF40Z-../S4E06MA4**	0.7	2.4	4.9	7.4	8.9	320	320	320	320	320	53	10600	-
1.6	0.25	6.7	355	2.5	222.4	IE4	**BF40Z-../S4E06MA4**	0.65	2.2	4.4	6.7	8	355	355	355	355	355	53	10600	-
1.6	0.25	5.9	405	2.2	253.2	IE4	**BF40Z-../S4E06MA4**	0.55	1.9	3.9	5.9	7.1	405	405	405	405	405	53	10600	-
1.6	0.25	5.3	445	2	278.5	IE4	**BF40Z-../S4E06MA4**	0.5	1.7	3.5	5.3	6.4	445	445	445	445	445	53	10600	-
1.6	0.25	5	470	1.9	295.1	IE4	**BF40Z-../S4E06MA4**	0.5	1.6	3.3	5	6	470	470	470	470	470	53	10600	-
1.6	0.25	4.6	510	1.7	324.7	IE4	**BF40Z-../S4E06MA4**	0.46	1.5	3	4.6	5.5	510	510	510	510	510	53	10600	-
1.6	0.25	4.3	550	1.6	346.8	IE4	**BF40Z-../S4E06MA4**	0.43	1.4	2.8	4.3	5.1	550	550	550	550	550	53	10600	-
1.6	0.25	3.9	610	1.5	381.5	IE4	**BF40Z-../S4E06MA4**	0.39	1.3	2.6	3.9	4.7	610	610	610	610	610	53	10600	-
1.6	0.25	3.5	660	1.3	417.3	IE4	**BF40Z-../S4E06MA4**	0.35	1.1	2.3	3.5	4.3	660	660	660	660	660	53	10600	-
1.6	0.25	3.2	730	1.2	459.1	IE4	**BF40Z-../S4E06MA4**	0.32	1	2.1	3.2	3.9	730	730	730	730	730	53	10600	-
1.6	0.25	2.9	820	1.1	514.6	IE4	**BF40Z-../S4E06MA4**	0.29	0.95	1.9	2.9	3.4	820	820	820	820	820	53	10600	-
1.6	0.25	2.6	900	0.99	566.1	IE4	**BF40Z-../S4E06MA4**	0.26	0.85	1.7	2.6	3.1	900	900	900	900	900	53	10600	-
1.6	0.25	2.5	950	1	597.3	IE4	**BF40G10-../S4E06MA4**	0.25	0.8	1.6	2.5	3	950	950	950	950	950	58	10600	-
1.6	0.25	2	1170	0.85	731.6	IE4	**BF40G10-../S4E06MA4**	0.2	0.65	1.3	2	2.4	1170	1170	1170	1170	1170	58	10600	-
1.6	0.25	5.4	440	2.9	276.8	IE4	**BF50Z-../S4E06MA4**	0.5	1.8	3.6	5.4	6.5	440	440	440	440	440	82	13600	-
1.6	0.25	4.7	500	2.6	316.6	IE4	**BF50Z-../S4E06MA4**	0.47	1.5	3.1	4.7	5.6	500	500	500	500	500	82	13600	-
1.6	0.25	4.2	560	2.3	354	IE4	**BF50Z-../S4E06MA4**	0.42	1.4	2.8	4.2	5	560	560	560	560	560	82	13600	-
1.6	0.25	3.8	620	2.1	392.8	IE4	**BF50Z-../S4E06MA4**	0.38	1.2	2.5	3.8	4.5	620	620	620	620	620	82	13600	-
1.6	0.25	3.4	700	1.8	439.3	IE4	**BF50Z-../S4E06MA4**	0.34	1.1	2.2	3.4	4	700	700	700	700	700	82	13600	-
1.6	0.25	3	790	1.6	496.4	IE4	**BF50Z-../S4E06MA4**	0.3	1	2	3	3.6	790	790	790	790	790	82	13600	-
1.6	0.25	2.7	880	1.5	555.2	IE4	**BF50Z-../S4E06MA4**	0.27	0.9	1.8	2.7	3.2	880	880	880	880	880	82	13600	-
1.6	0.25	2.6	880	1.6	555.9	IE4	**BF50G10-../S4E06MA4**	0.26	0.85	1.7	2.6	3.2	880	880	880	880	880	86	13600	-
1.6	0.25	2.2	1080	1.3	680.9	IE4	**BF50G10-../S4E06MA4**	0.22	0.7	1.4	2.2	2.6	1080	1080	1080	1080	1080	86	13600	-
1.6	0.25	1.7	1380	1	864.5	IE4	**BF50G10-../S4E06MA4**	0.17	0.55	1.1	1.7	2	1380	1380	1380	1380	1380	86	13600	-
1.6	0.25	1.4	1640	0.85	1029	IE4	**BF50G10-../S4E06MA4**	0.14	0.48	0.95	1.4	1.7	1640	1640	1640	1640	1640	86	13600	-
1.6	0.25	2.6	910	2.7	569.3	IE4	**BF60G20-../S4E06MA4**	0.26	0.85	1.7	2.6	3.1	910	910	910	910	910	134	15300	43300
1.6	0.25	2.1	1100	2.3	689	IE4	**BF60G20-../S4E06MA4**	0.21	0.7	1.4	2.1	2.6	1100	1100	1100	1100	1100	134	15300	43300
1.6	0.25	1.8	1300	1.9	813.2	IE4	**BF60G20-../S4E06MA4**	0.18	0.6	1.2	1.8	2.2	1300	1300	1300	1300	1300	134	15300	43300
1.6	0.25	1.5	1500	1.7	937.6	IE4	**BF60G20-../S4E06MA4**	0.15	0.5	1	1.5	1.9	1500	1500	1500	1500	1500	134	15300	43300
1.6	0.25	1.2	1930	1.3	1211	IE4	**BF60G20-../S4E06MA4**	0.12	0.41	0.8	1.2	1.4	1930	1930	1930	1930	1930	134	15300	43300
1.6	0.25	1	2350	1	1494	IE4	**BF60G20-../S4E06MA4**	0.1	0.33	0.65	1	1.2	2350	2350	2350	2350	2350	134	15300	43300
1.6	0.25	0.9	2650	0.94	1658	IE4	**BF60G20-../S4E06MA4**	0.09	0.3	0.6	0.9	1	2650	2650	2650	2650	2650	134	15300	43300
1.6	0.25	0.75	3100	0.8	1955	IE4	**BF60G20-../S4E06MA4**	0.075	0.25	0.5	0.75	0.9	3100	3100	3100	3100	3100	134	15300	43300
1.6	0.25	1	2200	2.6	1390	IE4	**BF70G20-../S4E06MA4**	0.1	0.35	0.7	1	1.2	2200	2200	2200	2200	2200	212	16100	47700
1.6	0.25	0.9	2550	2.2	1621	IE4	**BF70G20-../S4E06MA4**	0.09	0.3	0.6	0.9	1.1	2550	2550	2550	2550	2550	212	16100	47700
1.6	0.25	0.75	3050	1.9	1912	IE4	**BF70G20-../S4E06MA4**	0.075	0.26	0.5	0.75	0.9	3050	3050	3050	3050	3050	212	16100	47700
1.6	0.25	0.6	3900	1.5	2448	IE4	**BF70G20-../S4E06MA4**	0.06	0.2	0.4	0.6	0.7	3900	3900	3900	3900	3900	212	16100	47700
1.6	0.25	0.5	4550	1.3	2849	IE4	**BF70G20-../S4E06MA4**	0.05	0.17	0.35	0.5	0.6	4550	4550	4550	4550	4550	212	16100	47700
1.6	0.25	0.43	5400	1	3417	IE4	**BF70G20-../S4E06MA4**	0.043	0.14	0.29	0.43	0.5	5400	5400	5400	5400	5400	212	16100	47700
1.6	0.25	0.36	6500	0.87	4090	IE4	**BF70G20-../S4E06MA4**	0.036	0.12	0.24	0.36	0.44	6500	6500	6500	6500	6500	212	16100	47700

MN = 2.4 Nm (PN = 0.37 kW)



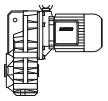
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
2.4	0.37	124	28.5	2.6	12.07	IE4	**BF06-../S4E06LA4**	12	41	82	124	149	28.5	28.5	28.5	28.5	28.5	12	2000	-
2.4	0.37	124	28.5	2.6	12.07	IE1	**BF06-../SSE06MA4**	12	41	82	124	149	21.5	24	26.5	28.5	28.5	12	2000	-
2.4	0.37	105	34	2.5	14.21	IE1	**BF06-../SSE06MA4**	10.5	35	70	105	126	25.5	28	31	34	34	12	2100	-
2.4	0.37	105	34	2.5	14.21	IE4	**BF06-../S4E06LA4**	10.5	35	70	105	126	34	34	34	34	34	12	2100	-
2.4	0.37	88	40.5	2.3	16.99	IE4	**BF06-../S4E06LA4**	8.8	29	58	88	105	40.5	40.5	40.5	40.5	40.5	12	2500	-
2.4	0.37	88	40.5	2.3	16.99	IE1	**BF06-../SSE06MA4**	8.8	29	58	88	105	30.5	33.5	37	40.5	40.5	12	2500	-
2.4	0.37	73	49	1.9	20.42	IE4	**BF06-../S4E06LA4**	7.3	24	48.5	73	88	49	49	49	49	49	12	2700	-
2.4	0.37	73	49	1.9	20.42	IE1	**BF06-../SSE06MA4**	7.3	24	48.5	73	88	36.5	40.5	44.5	49	49	12	2700	-
2.4	0.37	56	64	1.5	26.76	IE4	**BF06-../S4E06LA4**	5.6	18.5	37	56	67	64	64	64	64	64	12	3000	-
2.4	0.37	56	64	1.5	26.76	IE1	**BF06-../SSE06MA4**	5.6	18.5	37	56	67	48	53	58	64	64	12	3000	-
2.4	0.37	47.5	75	1.3	31.5	IE1	**BF06-../SSE06MA4**	4.7	15.5	31.5	47.5	57	56	63	69	75	75	12	3200	-
2.4	0.37	47.5	75	1.3	31.5	IE4	**BF06-../S4E06LA4**	4.7	15.5	31.5	47.5	57	75	75	75	75	75	12	3200	-
2.4	0.37	39.5	90	1.1	37.69	IE1	**BF06-../SSE06MA4**	3.9	13	26.5	39.5	47.5	67	75	82	90	90	12	3500	-
2.4	0.37	39.5	90	1.1	37.69	IE4	**BF06-../S4E06LA4**	3.9	13	26.5	39.5	47.5	90	90	90	90	90	12	3500	-
2.4	0.37	32.5	110	0.86	46.14	IE1	**BF06-../SSE06MA4**	3.2	10.5	21.5	32.5	39	83	92	101	110	110	12	3800	-
2.4	0.37	32.5	110	0.86	46.14	IE4	**BF06-../S4E06LA4**	3.2	10.5	21.5	32.5	39	110	110	110	110	110	12	3800	-
2.4	0.37	41	86	2.8	36.15	IE1	**BF10-../SSE06MA4**	4.1	13.5	27.5	41	49.5	65	72	79	86	86	23	3800	-
2.4	0.37	41	86	2.8	36.15	IE4	**BF10-../S4E06LA4**	4.1	13.5	27.5	41	49.5	86	86	86	86	86	23	3800	-
2.4	0.37	37.5	95	2.5	39.75	IE1	**BF10-../SSE06MA4**	3.7	12.5	25	37.5	45	71	79	87	95	95	23	3950	-
2.4	0.37	37.5	95	2.5	39.75	IE4	**BF10-../S4E06LA4**	3.7	12.5	25	37.5	45	95	95	95	95	95	23	3950	-
2.4	0.37	34.5	103	2.3	43.06	IE4	**BF10-../S4E06LA4**	3.4	11.5	23	34.5	41.5	103	103	103	103	103	23	4100	-
2.4	0.37	34.5	103	2.3	43.06	IE1	**BF10-../SSE06MA4**	3.4	11.5	23	34.5	41.5	77	86	94	103	103	23	4100	-
2.4	0.37	31.5	113	2.1	47.35	IE4	**BF10-../S4E06LA4**	3.1	10.5	21	31.5	38	113	113	113	113	113	23	4250	-
2.4	0.37	31.5	113	2.1	47.35	IE1	**BF10-../SSE06MA4**	3.1	10.5	21	31.5	38	85	94	104	113	113	23	4250	-
2.4	0.37	29	123	2	51.28	IE4	**BF10-../S4E06LA4**	2.9	9.7	19.5	29	35	123	123	123	123	123	23	4400	-
2.4	0.37	29	123	2	51.28	IE1	**BF10-../SSE06MA4**	2.9	9.7	19.5	29	35	92	102	112	123	123	23	4400	-
2.4	0.37	26.5	135	1.8	56.39	IE4	**BF10-../S4E06LA4**	2.6	8.8	17.5	26.5	31.5	135	135	135	135	135	23	4550	-
2.4	0.37	26.5	135	1.8	56.39	IE1	**BF10-../SSE06MA4**	2.6	8.8	17.5	26.5	31.5	101	112	124	135	135	23	4550	-

MN = 2.4 Nm (PN = 0.37 kW)



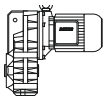
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
2.4	0.37	24	147	1.6	61.55	IE4	**BF10-../S4E06LA4**	2.4	8.1	16	24	29	147	147	147	147	147	23	4700	-
2.4	0.37	24	147	1.6	61.55	IE1	**BF10-../SSE06MA4**	2.4	8.1	16	24	29	110	123	135	147	147	23	4700	-
2.4	0.37	22	162	1.5	67.69	IE4	**BF10-../S4E06LA4**	2.2	7.3	14.5	22	26.5	162	162	162	162	162	23	4900	-
2.4	0.37	22	162	1.5	67.69	IE1	**BF10-../SSE06MA4**	2.2	7.3	14.5	22	26.5	121	135	148	162	162	23	4900	-
2.4	0.37	19	186	1.3	77.55	IE1	**BF10-../SSE06MA4**	1.9	6.4	12.5	19	23	139	155	170	186	186	23	5100	-
2.4	0.37	19	186	1.3	77.55	IE4	**BF10-../S4E06LA4**	1.9	6.4	12.5	19	23	186	186	186	186	186	23	5100	-
2.4	0.37	17.5	200	1.2	85.27	IE1	**BF10-../SSE06MA4**	1.7	5.8	11.5	17.5	21	153	170	187	200	200	23	5300	-
2.4	0.37	17.5	200	1.2	85.27	IE4	**BF10-../S4E06LA4**	1.7	5.8	11.5	17.5	21	200	200	200	200	200	23	5300	-
2.4	0.37	16	215	1.1	90.91	IE4	**BF10-../S4E06LA4**	1.6	5.4	10.5	16	19.5	215	215	215	215	215	23	5400	-
2.4	0.37	16	215	1.1	90.91	IE1	**BF10-../SSE06MA4**	1.6	5.4	10.5	16	19.5	163	181	200	215	215	23	5400	-
2.4	0.37	15	235	1	99.97	IE4	**BF10-../S4E06LA4**	1.5	5	10	15	18	235	235	235	235	235	23	5600	-
2.4	0.37	15	235	1	99.97	IE1	**BF10-../SSE06MA4**	1.5	5	10	15	18	179	199	215	235	235	23	5600	-
2.4	0.37	13	265	0.89	112.3	IE4	**BF10-../S4E06LA4**	1.3	4.4	8.9	13	16	265	265	265	265	265	23	5900	-
2.4	0.37	13	265	0.89	112.3	IE1	**BF10-../SSE06MA4**	1.3	4.4	8.9	13	16	200	220	245	265	265	23	5900	-
2.4	0.37	12	295	0.81	123.5	IE1	**BF10-../SSE06MA4**	1.2	4	8	12	14.5	220	245	270	295	295	23	6100	-
2.4	0.37	12	295	0.81	123.5	IE4	**BF10-../S4E06LA4**	1.2	4	8	12	14.5	295	295	295	295	295	23	6100	-
2.4	0.37	25.5	139	3	58.24	IE4	**BF20-../S4E06LA4**	2.5	8.5	17	25.5	30.5	139	139	139	139	139	30	5600	-
2.4	0.37	25.5	139	3	58.24	IE1	**BF20-../SSE06MA4**	2.5	8.5	17	25.5	30.5	104	116	128	139	139	30	5600	-
2.4	0.37	23	153	2.7	64.08	IE4	**BF20-../S4E06LA4**	2.3	7.8	15.5	23	28	153	153	153	153	153	30	5900	-
2.4	0.37	23	153	2.7	64.08	IE1	**BF20-../SSE06MA4**	2.3	7.8	15.5	23	28	115	128	140	153	153	30	5900	-
2.4	0.37	21.5	167	2.5	69.7	IE1	**BF20-../SSE06MA4**	2.1	7.1	14	21.5	25.5	125	139	153	167	167	30	6100	-
2.4	0.37	21.5	167	2.5	69.7	IE4	**BF20-../S4E06LA4**	2.1	7.1	14	21.5	25.5	167	167	167	167	167	30	6100	-
2.4	0.37	19.5	184	2.3	76.69	IE4	**BF20-../S4E06LA4**	1.9	6.5	13	19.5	23	184	184	184	184	184	30	6300	-
2.4	0.37	19.5	184	2.3	76.69	IE1	**BF20-../SSE06MA4**	1.9	6.5	13	19.5	23	138	153	168	184	184	30	6300	-
2.4	0.37	17	205	2	87.31	IE1	**BF20-../SSE06MA4**	1.7	5.7	11	17	20.5	157	174	192	205	205	30	6600	-
2.4	0.37	17	205	2	87.31	IE4	**BF20-../S4E06LA4**	1.7	5.7	11	17	20.5	205	205	205	205	205	30	6600	-
2.4	0.37	15.5	230	1.8	96.08	IE4	**BF20-../S4E06LA4**	1.5	5.2	10	15.5	18.5	230	230	230	230	230	30	6900	-
2.4	0.37	15.5	230	1.8	96.08	IE1	**BF20-../SSE06MA4**	1.5	5.2	10	15.5	18.5	172	192	210	230	230	30	6900	-
2.4	0.37	14.5	240	1.7	100.2	IE4	**BF20-../S4E06LA4**	1.4	4.9	9.9	14.5	17.5	240	240	240	240	240	30	7000	-
2.4	0.37	14.5	240	1.7	100.2	IE1	**BF20-../SSE06MA4**	1.4	4.9	9.9	14.5	17.5	180	200	220	240	240	30	7000	-
2.4	0.37	13.5	260	1.6	110.2	IE4	**BF20-../S4E06LA4**	1.3	4.5	9	13.5	16	260	260	260	260	260	30	7300	-
2.4	0.37	13.5	260	1.6	110.2	IE1	**BF20-../SSE06MA4**	1.3	4.5	9	13.5	16	198	220	240	260	260	30	7300	-
2.4	0.37	12	295	1.4	123.5	IE4	**BF20-../S4E06LA4**	1.2	4	8	12	14.5	295	295	295	295	295	30	7600	-
2.4	0.37	12	295	1.4	123.5	IE1	**BF20-../SSE06MA4**	1.2	4	8	12	14.5	220	245	270	295	295	30	7600	-
2.4	0.37	11	325	1.3	135.9	IE4	**BF20-../S4E06LA4**	1.1	3.6	7.3	11	13	325	325	325	325	325	30	7900	-
2.4	0.37	11	325	1.3	135.9	IE1	**BF20-../SSE06MA4**	1.1	3.6	7.3	11	13	240	270	295	325	325	30	7900	-
2.4	0.37	10.5	335	1.2	141.2	IE1	**BF20Z-../SSE06MA4**	1	3.5	7	10.5	12.5	250	280	310	335	335	31	7900	-
2.4	0.37	10.5	335	1.2	141.2	IE4	**BF20Z-../S4E06LA4**	1	3.5	7	10.5	12.5	335	335	335	335	335	31	7900	-
2.4	0.37	9.6	370	1.1	155.4	IE4	**BF20Z-../S4E06LA4**	0.95	3.2	6.4	9.6	11.5	370	370	370	370	370	31	7900	-
2.4	0.37	9.6	370	1.1	155.4	IE1	**BF20Z-../SSE06MA4**	0.95	3.2	6.4	9.6	11.5	275	310	340	370	370	31	7900	-
2.4	0.37	9.1	390	1.1	164.3	IE1	**BF20Z-../SSE06MA4**	0.9	3	6	9.1	10.5	295	325	360	390	390	31	7900	-
2.4	0.37	9.1	390	1.1	164.3	IE4	**BF20Z-../S4E06LA4**	0.9	3	6	9.1	10.5	390	390	390	390	390	31	7900	-
2.4	0.37	8.2	430	0.97	180.8	IE4	**BF20Z-../S4E06LA4**	0.8	2.7	5.5	8.2	9.9	430	430	430	430	430	31	7900	-
2.4	0.37	8.2	430	0.97	180.8	IE1	**BF20Z-../SSE06MA4**	0.8	2.7	5.5	8.2	9.9	325	360	395	430	430	31	7900	-
2.4	0.37	7.6	470	0.89	197.1	IE4	**BF20Z-../S4E06LA4**	0.75	2.5	5	7.6	9.1	470	470	470	470	470	31	7900	-
2.4	0.37	7.6	470	0.89	197.1	IE1	**BF20Z-../SSE06MA4**	0.75	2.5	5	7.6	9.1	350	390	430	470	470	31	7900	-
2.4	0.37	6.9	520	0.81	216.9	IE1	**BF20Z-../SSE06MA4**	0.65	2.3	4.6	6.9	8.2	390	430	475	520	520	31	7900	-
2.4	0.37	6.9	520	0.81	216.9	IE4	**BF20Z-../S4E06LA4**	0.65	2.3	4.6	6.9	8.2	520	520	520	520	520	31	7900	-
2.4	0.37	18.5	190	3	79.34	IE1	**BF30-../SSE06MA4**	1.8	6.3	12.5	18.5	22.5	142	158	174	190	190	40	5900	-
2.4	0.37	18.5	190	3	79.34	IE4	**BF30-../S4E06LA4**	1.8	6.3	12.5	18.5	22.5	190	190	190	190	190	40	5900	-
2.4	0.37	17	205	2.7	87.08	IE1	**BF30-../SSE06MA4**	1.7	5.7	11	17	20.5	156	174	191	205	205	40	6200	-
2.4	0.37	17	205	2.7	87.08	IE4	**BF30-../S4E06LA4**	1.7	5.7	11	17	20.5	205	205	205	205	205	40	6200	-
2.4	0.37	15.5	225	2.5	95.79	IE1	**BF30-../SSE06MA4**	1.5	5.2	10	15.5	18.5	172	191	210	225	225	40	6400	-
2.4	0.37	15.5	225	2.5	95.79	IE4	**BF30-../S4E06LA4**	1.5	5.2	10	15.5	18.5	225	225	225	225	225	40	6400	-
2.4	0.37	13.5	255	2.2	107.6	IE4	**BF30-../S4E06LA4**	1.3	4.6	9.2	13.5	16.5	255	255	255	255	255	40	6700	-
2.4	0.37	13.5	255	2.2	107.6	IE1	**BF30-../SSE06MA4**	1.3	4.6	9.2	13.5	16.5	193	215	235	255	255	40	6700	-
2.4	0.37	12.5	280	2	118.3	IE1	**BF30-../SSE06MA4**	1.2	4.2	8.4	12.5	15	210	235	260	280	280	40	7000	-
2.4	0.37	12.5	280	2	118.3	IE4	**BF30-../S4E06LA4**	1.2	4.2	8.4	12.5	15	280	280	280	280	280	40	7000	-
2.4	0.37	12	295	1.9	124.7	IE4	**BF30-../S4E06LA4**	1.2	4	8	12	14	295	295	295	295	295	40	7100	-
2.4	0.37	12	295	1.9	124.7	IE1	**BF30-../SSE06MA4**	1.2	4	8	12	14	220	245	270	295	295	40	7100	-
2.4	0.37	10.5	325	1.7	137.1	IE1	**BF30-../SSE06MA4**	1	3.6	7.2	10.5	13	245	270	300	325	325	40	7400	-
2.4	0.37	10.5	325	1.7	137.1	IE4	**BF30-../S4E06LA4**	1	3.6	7.2	10.5	13	325	325	325	325	325	40	7400	-
2.4	0.37	9.9	360	1.6	150.7	IE4	**BF30Z-../S4E06LA4**	0.95	3.3	6.6	9.9	11.5	360	360	360	360	360	42	7400	-
2.4	0.37	9.9	360	1.6	150.7	IE1	**BF30Z-../SSE06MA4**	0.95	3.3	6.6	9.9	11.5	270	300	330	360	360	42	7400	-
2.4	0.37	9	395	1.4	165.8	IE4	**BF30Z-../S4E06LA4**	0.9	3	6	9	10.5	395	395	395	395	395	42	7400	-
2.4	0.37	9	395	1.4	165.8	IE1	**BF30Z-../SSE06MA4**	0.9	3	6	9	10.5	295	330	360	395	395	42	7400	-
2.4	0.37	8.4	420	1.3	176.6	IE4	**BF30Z-../S4E06LA4**	0.8	2.8	5.6	8.4	10	420	420	420	420	420	42	7400	-
2.4	0.37	8.4	420	1.3	176.6	IE1	**BF30Z-../SSE06MA4**	0.8	2.8	5.6	8.4	10	315	350	385	420	420	42	7400	-
2.4	0.37	7.7	465	1.2	194.3	IE1	**BF30Z-../SSE06MA4**	0.75	2.5	5.1	7.7	9.2	345	385	425	465	465	42	7400	-
2.4	0.37	7.7	465	1.2	194.3	IE4	**BF30Z-../S4E06LA4**	0.75	2.5	5.1	7.7	9.2	465	465	465	465	465	42	7400	-
2.4	0.37	6.6	530	1.1	224.8	IE4	**BF30Z-../S4E06LA4**	0.65	2.2	4.4	6.6	8	530	530	530	530	530	42	7400	-
2.4	0.37	6.6	530	1.1	224.8	IE1	**BF30Z-../SSE06MA4**	0.65	2.2	4.4	6.6	8	400	445	490	530	530	42	7400	-
2.4	0.37	6	590	0.96	247.3	IE4	**BF30Z-../S4E06LA4**	0.6	2	4	6	7.2	590	590	590	590	590	42	7400	-
2.4	0.37	6	590	0.96	247.3	IE1	**BF30Z-../SSE06MA4**	0.6	2	4	6	7.2	445	490	540	590	590	42	7400	-
2.4	0.37	5.6	630	0.9	263.5	IE1	**BF30Z-../SSE06MA4**	0.55	1.8	3.7	5.6	6.8	470	520	570	630	630	42	7400	-
2.4	0.37	5.6	630	0.9	263.5	IE4	**BF30Z-../S4E06LA4**	0.55	1.8	3.7	5.6	6.8	630	630	630	630	630	42	7400	-
2.4	0.37	5.1	690	0.82	289.8	IE1	**BF30Z-../SSE06MA4**	0.5	1.7	3.4	5.1	6.2	520	570	630	690	690	42	7400	-
2.4	0.37	5.1	690	0.82	289.8	IE4	**BF30Z-../S4E06LA4**	0.5	1.7	3.4	5.1	6.2	690	690	690	690	690	42	7400	-
2.4	0.37	10.5	335	2.7	141.4	IE4	**BF40Z-../S4E06LA4**	1	3.5	7	10.5	12.5	335	335	335	335	335	53	10600	-
2.4	0.37	10.5	335	2.7	141.4	IE1	**BF40Z-../SSE06MA4**	1	3.5	7	10.5	12.5	250	280	310	335	335	53	10600	-

MN = 2.4 Nm (PN = 0.37 kW)



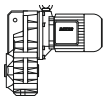
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	**Type**	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
2.4	0.37	9.6	370	2.4	155.6	IE1	**BF40Z-../SSE06MA4**	0.95	3.2	6.4	9.6	11.5	280	310	340	370	370	53	10600	-
2.4	0.37	9.6	370	2.4	155.6	IE4	**BF40Z-../S4E06LA4**	0.95	3.2	6.4	9.6	11.5	370	370	370	370	370	53	10600	-
2.4	0.37	8.7	410	2.2	171.2	IE4	**BF40Z-../S4E06LA4**	0.85	2.9	5.8	8.7	10.5	410	410	410	410	410	53	10600	-
2.4	0.37	8.7	410	2.2	171.2	IE1	**BF40Z-../SSE06MA4**	0.85	2.9	5.8	8.7	10.5	305	340	375	410	410	53	10600	-
2.4	0.37	7.9	450	2	188.3	IE4	**BF40Z-../S4E06LA4**	0.75	2.6	5.3	7.9	9.5	450	450	450	450	450	53	10600	-
2.4	0.37	7.9	450	2	188.3	IE1	**BF40Z-../SSE06MA4**	0.75	2.6	5.3	7.9	9.5	335	375	410	450	450	53	10600	-
2.4	0.37	7.4	485	1.9	202.2	IE4	**BF40Z-../S4E06LA4**	0.7	2.4	4.9	7.4	8.9	485	485	485	485	485	53	10600	-
2.4	0.37	7.4	485	1.9	202.2	IE1	**BF40Z-../SSE06MA4**	0.7	2.4	4.9	7.4	8.9	360	400	440	485	485	53	10600	-
2.4	0.37	6.7	530	1.7	222.4	IE4	**BF40Z-../S4E06LA4**	0.65	2.2	4.4	6.7	8	530	530	530	530	530	53	10600	-
2.4	0.37	6.7	530	1.7	222.4	IE1	**BF40Z-../SSE06MA4**	0.65	2.2	4.4	6.7	8	400	440	485	530	530	53	10600	-
2.4	0.37	5.9	600	1.5	253.2	IE4	**BF40Z-../S4E06LA4**	0.55	1.9	3.9	5.9	7.1	600	600	600	600	600	53	10600	-
2.4	0.37	5.9	600	1.5	253.2	IE1	**BF40Z-../SSE06MA4**	0.55	1.9	3.9	5.9	7.1	455	500	550	600	600	53	10600	-
2.4	0.37	5.3	660	1.3	278.5	IE4	**BF40Z-../S4E06LA4**	0.5	1.7	3.5	5.3	6.4	660	660	660	660	660	53	10600	-
2.4	0.37	5.3	660	1.3	278.5	IE1	**BF40Z-../SSE06MA4**	0.5	1.7	3.5	5.3	6.4	500	550	610	660	660	53	10600	-
2.4	0.37	5	700	1.3	295.1	IE4	**BF40Z-../S4E06LA4**	0.5	1.6	3.3	5	6	700	700	700	700	700	53	10600	-
2.4	0.37	5	700	1.3	295.1	IE1	**BF40Z-../SSE06MA4**	0.5	1.6	3.3	5	6	530	590	640	700	700	53	10600	-
2.4	0.37	4.6	770	1.2	324.7	IE4	**BF40Z-../S4E06LA4**	0.46	1.5	3	4.6	5.5	770	770	770	770	770	53	10600	-
2.4	0.37	4.6	770	1.2	324.7	IE1	**BF40Z-../SSE06MA4**	0.46	1.5	3	4.6	5.5	580	640	710	770	770	53	10600	-
2.4	0.37	4.3	830	1.1	346.8	IE1	**BF40Z-../SSE06MA4**	0.43	1.4	2.8	4.3	5.1	620	690	760	830	830	53	10600	-
2.4	0.37	4.3	830	1.1	346.8	IE4	**BF40Z-../S4E06LA4**	0.43	1.4	2.8	4.3	5.1	830	830	830	830	830	53	10600	-
2.4	0.37	3.9	910	0.98	381.5	IE4	**BF40Z-../S4E06LA4**	0.39	1.3	2.6	3.9	4.7	910	910	910	910	910	53	10600	-
2.4	0.37	3.9	910	0.98	381.5	IE1	**BF40Z-../SSE06MA4**	0.39	1.3	2.6	3.9	4.7	680	760	830	910	910	53	10600	-
2.4	0.37	3.5	1000	0.9	417.3	IE1	**BF40Z-../SSE06MA4**	0.35	1.1	2.3	3.5	4.3	750	830	910	1000	1000	53	10600	-
2.4	0.37	3.5	1000	0.9	417.3	IE4	**BF40Z-../S4E06LA4**	0.35	1.1	2.3	3.5	4.3	1000	1000	1000	1000	1000	53	10600	-
2.4	0.37	3.2	1100	0.82	459.1	IE1	**BF40Z-../SSE06MA4**	0.32	1	2.1	3.2	3.9	820	910	1010	1100	1100	53	10600	-
2.4	0.37	3.2	1100	0.82	459.1	IE4	**BF40Z-../S4E06LA4**	0.32	1	2.1	3.2	3.9	1100	1100	1100	1100	1100	53	10600	-
2.4	0.37	8.1	440	3	183.5	IE4	**BF50Z-../S4E06LA4**	0.8	2.7	5.4	8.1	9.8	440	440	440	440	440	82	13600	-
2.4	0.37	8.1	440	3	183.5	IE1	**BF50Z-../SSE06MA4**	0.8	2.7	5.4	8.1	9.8	330	365	400	440	440	82	13600	-
2.4	0.37	7.3	490	2.6	205.2	IE4	**BF50Z-../S4E06LA4**	0.7	2.4	4.8	7.3	8.7	490	490	490	490	490	82	13600	-
2.4	0.37	7.3	490	2.6	205.2	IE1	**BF50Z-../SSE06MA4**	0.7	2.4	4.8	7.3	8.7	365	410	450	490	490	82	13600	-
2.4	0.37	6	590	2.2	247.5	IE1	**BF50Z-../SSE06MA4**	0.6	2	4	6	7.2	445	495	540	590	590	82	13600	-
2.4	0.37	6	590	2.2	247.5	IE4	**BF50Z-../S4E06LA4**	0.6	2	4	6	7.2	590	590	590	590	590	82	13600	-
2.4	0.37	5.4	660	2	276.8	IE4	**BF50Z-../S4E06LA4**	0.5	1.8	3.6	5.4	6.5	660	660	660	660	660	82	13600	-
2.4	0.37	5.4	660	2	276.8	IE1	**BF50Z-../SSE06MA4**	0.5	1.8	3.6	5.4	6.5	495	550	600	660	660	82	13600	-
2.4	0.37	4.7	750	1.7	316.6	IE4	**BF50Z-../S4E06LA4**	0.47	1.5	3.1	4.7	5.6	750	750	750	750	750	82	13600	-
2.4	0.37	4.7	750	1.7	316.6	IE1	**BF50Z-../SSE06MA4**	0.47	1.5	3.1	4.7	5.6	560	630	690	750	750	82	13600	-
2.4	0.37	4.2	840	1.5	354	IE1	**BF50Z-../SSE06MA4**	0.42	1.4	2.8	4.2	5	630	700	770	840	840	82	13600	-
2.4	0.37	4.2	840	1.5	354	IE4	**BF50Z-../S4E06LA4**	0.42	1.4	2.8	4.2	5	840	840	840	840	840	82	13600	-
2.4	0.37	3.8	940	1.4	392.8	IE1	**BF50Z-../SSE06MA4**	0.38	1.2	2.5	3.8	4.5	700	780	860	940	940	82	13600	-
2.4	0.37	3.8	940	1.4	392.8	IE4	**BF50Z-../S4E06LA4**	0.38	1.2	2.5	3.8	4.5	940	940	940	940	940	82	13600	-
2.4	0.37	3.4	1050	1.2	439.3	IE4	**BF50Z-../S4E06LA4**	0.34	1.1	2.2	3.4	4	1050	1050	1050	1050	1050	82	13600	-
2.4	0.37	3.4	1050	1.2	439.3	IE1	**BF50Z-../SSE06MA4**	0.34	1.1	2.2	3.4	4	790	870	960	1050	1050	82	13600	-
2.4	0.37	3	1190	1.1	496.4	IE1	**BF50Z-../SSE06MA4**	0.3	1	2	3	3.6	890	990	1090	1190	1190	82	13600	-
2.4	0.37	3	1190	1.1	496.4	IE4	**BF50Z-../S4E06LA4**	0.3	1	2	3	3.6	1190	1190	1190	1190	1190	82	13600	-
2.4	0.37	2.7	1330	0.98	555.2	IE4	**BF50Z-../S4E06LA4**	0.27	0.9	1.8	2.7	3.2	1330	1330	1330	1330	1330	82	13600	-
2.4	0.37	2.7	1330	0.98	555.2	IE1	**BF50Z-../SSE06MA4**	0.27	0.9	1.8	2.7	3.2	990	1110	1220	1330	1330	82	13600	-
2.4	0.37	2.6	1330	1	555.9	IE1	**BF50G10-../SSE06MA4**	0.26	0.85	1.7	2.6	3.2	1000	1110	1220	1330	1330	86	13600	-
2.4	0.37	2.6	1330	1	555.9	IE4	**BF50G10-../S4E06LA4**	0.26	0.85	1.7	2.6	3.2	1330	1330	1330	1330	1330	86	13600	-
2.4	0.37	2.2	1630	0.86	680.9	IE4	**BF50G10-../S4E06LA4**	0.22	0.7	1.4	2.2	2.6	1630	1630	1630	1630	1630	86	13600	-
2.4	0.37	2.2	1630	0.86	680.9	IE1	**BF50G10-../SSE06MA4**	0.22	0.7	1.4	2.2	2.6	1220	1360	1490	1630	1630	86	13600	-
2.4	0.37	2.6	1360	1.8	569.3	IE4	**BF60G20-../S4E06LA4**	0.26	0.85	1.7	2.6	3.1	1360	1360	1360	1360	1360	134	15300	43300
2.4	0.37	2.6	1360	1.8	569.3	IE1	**BF60G20-../SSE06MA4**	0.26	0.85	1.7	2.6	3.1	1020	1130	1250	1360	1360	134	15300	43300
2.4	0.37	2.1	1650	1.5	689	IE1	**BF60G20-../SSE06MA4**	0.21	0.7	1.4	2.1	2.6	1240	1370	1510	1650	1650	134	15300	43300
2.4	0.37	2.1	1650	1.5	689	IE4	**BF60G20-../S4E06LA4**	0.21	0.7	1.4	2.1	2.6	1650	1650	1650	1650	1650	134	15300	43300
2.4	0.37	1.8	1950	1.3	813.2	IE1	**BF60G20-../SSE06MA4**	0.18	0.6	1.2	1.8	2.2	1460	1620	1780	1950	1950	134	15300	43300
2.4	0.37	1.8	1950	1.3	813.2	IE4	**BF60G20-../S4E06LA4**	0.18	0.6	1.2	1.8	2.2	1950	1950	1950	1950	1950	134	15300	43300
2.4	0.37	1.5	2250	1.1	937.6	IE1	**BF60G20-../SSE06MA4**	0.15	0.5	1	1.5	1.9	1680	1870	2050	2250	2250	134	15300	43300
2.4	0.37	1.5	2250	1.1	937.6	IE4	**BF60G20-../S4E06LA4**	0.15	0.5	1	1.5	1.9	2250	2250	2250	2250	2250	134	15300	43300
2.4	0.37	1.2	2900	0.86	1211	IE4	**BF60G20-../S4E06LA4**	0.12	0.41	0.8	1.2	1.4	2900	2900	2900	2900	2900	134	15300	43300
2.4	0.37	1.2	2900	0.86	1211	IE1	**BF60G20-../SSE06MA4**	0.12	0.41	0.8	1.2	1.4	2150	2400	2650	2900	2900	134	15300	43300
2.4	0.37	1.7	2050	2.7	872.1	IE4	**BF70G20-../S4E06LA4**	0.17	0.55	1.1	1.7	2	2050	2050	2050	2050	2050	212	16100	47700
2.4	0.37	1.7	2050	2.7	872.1	IE1	**BF70G20-../SSE06MA4**	0.17	0.55	1.1	1.7	2	1560	1740	1910	2050	2050	212	16100	47700
2.4	0.37	1.4	2400	2.3	1017	IE4	**BF70G20-../S4E06LA4**	0.14	0.49	0.95	1.4	1.7	2400	2400	2400	2400	2400	212	16100	47700
2.4	0.37	1.4	2400	2.3	1017	IE1	**BF70G20-../SSE06MA4**	0.14	0.49	0.95	1.4	1.7	1830	2000	2200	2400	2400	212	16100	47700
2.4	0.37	1	3300	1.7	1390	IE4	**BF70G20-../S4E06LA4**	0.1	0.35	0.7	1	1.2	3300	3300	3300	3300	3300	212	16100	47700
2.4	0.37	1	3300	1.7	1390	IE1	**BF70G20-../SSE06MA4**	0.1	0.35	0.7	1	1.2	2500	2750	3050	3300	3300	212	16100	47700
2.4	0.37	0.9	3850	1.5	1621	IE4	**BF70G20-../S4E06LA4**	0.09	0.3	0.6	0.9	1.1	3850	3850	3850	3850	3850	212	16100	47700
2.4	0.37	0.9	3850	1.5	1621	IE1	**BF70G20-../SSE06MA4**	0.09	0.3	0.6	0.9	1.1	2900	3200	3550	3850	3850	212	16100	47700
2.4	0.37	0.75	4550	1.2	1912	IE1	**BF70G20-../SSE06MA4**	0.075	0.26	0.5	0.75	0.9	3400	3800	4200	4550	4550	212	16100	47700
2.4	0.37	0.75	4550	1.2	1912	IE4	**BF70G20-../S4E06LA4**	0.075	0.26	0.5	0.75	0.9	4550	4550	4550	4550	4550	212	16100	47700
2.4	0.37	0.6	5800	0.97	2448	IE1	**BF70G20-../SSE06MA4**	0.06	0.2	0.4	0.6	0.7	4400	4850	5300	5800	5800	212	16100	47700
2.4	0.37	0.6	5800	0.97	2448	IE4	**BF70G20-../S4E06LA4**	0.06	0.2	0.4	0.6	0.7	5800	5800	5800	5800	5800	212	16100	47700
2.4	0.37	0.5	6800	0.83	2849	IE1	**BF70G20-../SSE06MA4**	0.05	0.17	0.35	0.5	0.6	5100	5600	6200	6800	6800	212	16100	47700
2.4	0.37	0.5	6800	0.83	2849	IE4	**BF70G20-../S4E06LA4**	0.05	0.17	0.35	0.5	0.6	6800	6800	6800	6800	6800	212	16100	47700

MN = 2.6 Nm (PN = 0.4 kW)



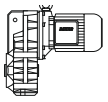
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
2.6	0.4	162	23.5	2.9	9.21	IE4	**BF06-../S4E06LA4**	16	54	108	162	195	23	23.5	23.5	23.5	23.5	12	1900	-
2.6	0.4	124	31	2.4	12.07	IE4	**BF06-../S4E06LA4**	12	41	82	124	149	30	31	31	31	31	12	2000	-
2.6	0.4	105	36.5	2.3	14.21	IE4	**BF06-../S4E06LA4**	10.5	35	70	105	126	35.5	36.5	36.5	36.5	36.5	12	2100	-
2.6	0.4	88	44	2.2	16.99	IE4	**BF06-../S4E06LA4**	8.8	29	58	88	105	42	44	44	44	44	12	2500	-
2.6	0.4	73	53	1.8	20.42	IE4	**BF06-../S4E06LA4**	7.3	24	48.5	73	88	51	53	53	53	53	12	2700	-
2.6	0.4	56	69	1.4	26.76	IE4	**BF06-../S4E06LA4**	5.6	18.5	37	56	67	66	69	69	69	69	12	3000	-
2.6	0.4	47.5	81	1.2	31.5	IE4	**BF06-../S4E06LA4**	4.7	15.5	31.5	47.5	57	78	81	81	81	81	12	3200	-
2.6	0.4	39.5	97	0.97	37.69	IE4	**BF06-../S4E06LA4**	3.9	13	26.5	39.5	47.5	94	97	97	97	97	12	3500	-
2.6	0.4	47.5	81	2.9	31.31	IE4	**BF10-../S4E06LA4**	4.7	15.5	31.5	47.5	57	78	81	81	81	81	23	3600	-
2.6	0.4	41	93	2.6	36.15	IE4	**BF10-../S4E06LA4**	4.1	13.5	27.5	41	49.5	90	93	93	93	93	23	3800	-
2.6	0.4	37.5	103	2.3	39.75	IE4	**BF10-../S4E06LA4**	3.7	12.5	25	37.5	45	99	103	103	103	103	23	3950	-
2.6	0.4	34.5	111	2.1	43.06	IE4	**BF10-../S4E06LA4**	3.4	11.5	23	34.5	41.5	107	111	111	111	111	23	4100	-
2.6	0.4	31.5	123	1.9	47.35	IE4	**BF10-../S4E06LA4**	3.1	10.5	21	31.5	38	118	123	123	123	123	23	4250	-
2.6	0.4	29	133	1.8	51.28	IE4	**BF10-../S4E06LA4**	2.9	9.7	19.5	29	35	128	133	133	133	133	23	4400	-
2.6	0.4	26.5	146	1.6	56.39	IE4	**BF10-../S4E06LA4**	2.6	8.8	17.5	26.5	31.5	140	146	146	146	146	23	4550	-
2.6	0.4	24	160	1.5	61.55	IE4	**BF10-../S4E06LA4**	2.4	8.1	16	24	29	153	160	160	160	160	23	4700	-
2.6	0.4	22	175	1.4	67.69	IE4	**BF10-../S4E06LA4**	2.2	7.3	14.5	22	26.5	169	175	175	175	175	23	4900	-
2.6	0.4	19	200	1.2	77.55	IE4	**BF10-../S4E06LA4**	1.9	6.4	12.5	19	23	193	200	200	200	200	23	5100	-
2.6	0.4	17.5	220	1.1	85.27	IE4	**BF10-../S4E06LA4**	1.7	5.8	11.5	17.5	21	210	220	220	220	220	23	5300	-
2.6	0.4	16	235	1	90.91	IE4	**BF10-../S4E06LA4**	1.6	5.4	10.5	16	19.5	225	235	235	235	235	23	5400	-
2.6	0.4	15	255	0.92	99.97	IE4	**BF10-../S4E06LA4**	1.5	5	10	15	18	245	255	255	255	255	23	5600	-
2.6	0.4	13	290	0.82	112.3	IE4	**BF10-../S4E06LA4**	1.3	4.4	8.9	13	16	280	290	290	290	290	23	5900	-
2.6	0.4	28	138	3	53.43	IE4	**BF20-../S4E06LA4**	2.8	9.3	18.5	28	33.5	133	138	138	138	138	30	5500	-
2.6	0.4	25.5	151	2.8	58.24	IE4	**BF20-../S4E06LA4**	2.5	8.5	17	25.5	30.5	145	151	151	151	151	30	5600	-
2.6	0.4	23	166	2.5	64.08	IE4	**BF20-../S4E06LA4**	2.3	7.8	15.5	23	28	160	166	166	166	166	30	5900	-
2.6	0.4	21.5	181	2.3	69.7	IE4	**BF20-../S4E06LA4**	2.1	7.1	14	21.5	25.5	174	181	181	181	181	30	6100	-
2.6	0.4	19.5	199	2.1	76.69	IE4	**BF20-../S4E06LA4**	1.9	6.5	13	19.5	23	191	199	199	199	199	30	6300	-
2.6	0.4	17	225	1.9	87.31	IE4	**BF20-../S4E06LA4**	1.7	5.7	11	17	20.5	215	225	225	225	225	30	6600	-
2.6	0.4	15.5	245	1.7	96.08	IE4	**BF20-../S4E06LA4**	1.5	5.2	10	15.5	18.5	240	245	245	245	245	30	6900	-
2.6	0.4	14.5	260	1.6	100.2	IE4	**BF20-../S4E06LA4**	1.4	4.9	9.9	14.5	17.5	250	260	260	260	260	30	7000	-
2.6	0.4	13.5	285	1.5	110.2	IE4	**BF20-../S4E06LA4**	1.3	4.5	9	13.5	16	275	285	285	285	285	30	7300	-
2.6	0.4	12	320	1.3	123.5	IE4	**BF20-../S4E06LA4**	1.2	4	8	12	14.5	305	320	320	320	320	30	7600	-
2.6	0.4	11	350	1.2	135.9	IE4	**BF20-../S4E06LA4**	1.1	3.6	7.3	11	13	335	350	350	350	350	30	7900	-
2.6	0.4	10.5	365	1.1	141.2	IE4	**BF20Z-../S4E06LA4**	1	3.5	7	10.5	12.5	350	365	365	365	365	31	7900	-
2.6	0.4	9.6	400	1	155.4	IE4	**BF20Z-../S4E06LA4**	0.95	3.2	6.4	9.6	11.5	385	400	400	400	400	31	7900	-
2.6	0.4	9.1	425	0.98	164.3	IE4	**BF20Z-../S4E06LA4**	0.9	3	6	9.1	10.5	410	425	425	425	425	31	7900	-
2.6	0.4	8.2	470	0.89	180.8	IE4	**BF20Z-../S4E06LA4**	0.8	2.7	5.5	8.2	9.9	450	470	470	470	470	31	7900	-
2.6	0.4	7.6	510	0.82	197.1	IE4	**BF20Z-../S4E06LA4**	0.75	2.5	5	7.6	9.1	490	510	510	510	510	31	7900	-
2.6	0.4	20.5	187	3	72.13	IE4	**BF30-../S4E06LA4**	2	6.9	13.5	20.5	24.5	180	187	187	187	187	40	5700	-
2.6	0.4	18.5	205	2.8	79.34	IE4	**BF30-../S4E06LA4**	1.8	6.3	12.5	18.5	22.5	198	205	205	205	205	40	5900	-
2.6	0.4	17	225	2.5	87.08	IE4	**BF30-../S4E06LA4**	1.7	5.7	11	17	20.5	215	225	225	225	225	40	6200	-
2.6	0.4	15.5	245	2.3	95.79	IE4	**BF30-../S4E06LA4**	1.5	5.2	10	15.5	18.5	235	245	245	245	245	40	6400	-
2.6	0.4	13.5	275	2	107.6	IE4	**BF30-../S4E06LA4**	1.3	4.6	9.2	13.5	16.5	265	275	275	275	275	40	6700	-
2.6	0.4	12.5	305	1.9	118.3	IE4	**BF30-../S4E06LA4**	1.2	4.2	8.4	12.5	15	295	305	305	305	305	40	7000	-
2.6	0.4	12	320	1.8	124.7	IE4	**BF30-../S4E06LA4**	1.2	4	8	12	14	310	320	320	320	320	40	7100	-
2.6	0.4	10.5	355	1.6	137.1	IE4	**BF30-../S4E06LA4**	1	3.6	7.2	10.5	13	340	355	355	355	355	40	7400	-
2.6	0.4	9.9	390	1.5	150.7	IE4	**BF30Z-../S4E06LA4**	0.95	3.3	6.6	9.9	11.5	375	390	390	390	390	42	7400	-
2.6	0.4	9	430	1.3	165.8	IE4	**BF30Z-../S4E06LA4**	0.9	3	6	9	10.5	410	430	430	430	430	42	7400	-
2.6	0.4	8.4	455	1.2	176.6	IE4	**BF30Z-../S4E06LA4**	0.8	2.8	5.6	8.4	10	440	455	455	455	455	42	7400	-
2.6	0.4	7.7	500	1.1	194.3	IE4	**BF30Z-../S4E06LA4**	0.75	2.5	5.1	7.7	9.2	485	500	500	500	500	42	7400	-
2.6	0.4	6.6	580	0.98	224.8	IE4	**BF30Z-../S4E06LA4**	0.65	2.2	4.4	6.6	8	560	580	580	580	580	42	7400	-
2.6	0.4	6	640	0.89	247.3	IE4	**BF30Z-../S4E06LA4**	0.6	2	4	6	7.2	610	640	640	640	640	42	7400	-
2.6	0.4	5.6	680	0.83	263.5	IE4	**BF30Z-../S4E06LA4**	0.55	1.8	3.7	5.6	6.8	650	680	680	680	680	42	7400	-
2.6	0.4	10.5	365	2.4	141.4	IE4	**BF40Z-../S4E06LA4**	1	3.5	7	10.5	12.5	350	365	365	365	365	53	10600	-
2.6	0.4	9.6	400	2.2	155.6	IE4	**BF40Z-../S4E06LA4**	0.95	3.2	6.4	9.6	11.5	385	400	400	400	400	53	10600	-
2.6	0.4	8.7	445	2	171.2	IE4	**BF40Z-../S4E06LA4**	0.85	2.9	5.8	8.7	10.5	425	445	445	445	445	53	10600	-
2.6	0.4	7.9	485	1.8	188.3	IE4	**BF40Z-../S4E06LA4**	0.75	2.6	5.3	7.9	9.5	470	485	485	485	485	53	10600	-
2.6	0.4	7.4	520	1.7	202.2	IE4	**BF40Z-../S4E06LA4**	0.7	2.4	4.9	7.4	8.9	500	520	520	520	520	53	10600	-
2.6	0.4	6.7	570	1.6	222.4	IE4	**BF40Z-../S4E06LA4**	0.65	2.2	4.4	6.7	8	550	570	570	570	570	53	10600	-
2.6	0.4	5.9	650	1.4	253.2	IE4	**BF40Z-../S4E06LA4**	0.55	1.9	3.9	5.9	7.1	630	650	650	650	650	53	10600	-
2.6	0.4	5.3	720	1.2	278.5	IE4	**BF40Z-../S4E06LA4**	0.5	1.7	3.5	5.3	6.4	690	720	720	720	720	53	10600	-
2.6	0.4	5	760	1.2	295.1	IE4	**BF40Z-../S4E06LA4**	0.5	1.6	3.3	5	6	730	760	760	760	760	53	10600	-
2.6	0.4	4.6	840	1.1	324.7	IE4	**BF40Z-../S4E06LA4**	0.46	1.5	3	4.6	5.5	810	840	840	840	840	53	10600	-
2.6	0.4	4.3	900	1	346.8	IE4	**BF40Z-../S4E06LA4**	0.43	1.4	2.8	4.3	5.1	860	900	900	900	900	53	10600	-
2.6	0.4	3.9	990	0.91	381.5	IE4	**BF40Z-../S4E06LA4**	0.39	1.3	2.6	3.9	4.7	950	990	990	990	990	53	10600	-
2.6	0.4	3.5	1080	0.83	417.3	IE4	**BF40Z-../S4E06LA4**	0.35	1.1	2.3	3.5	4.3	1040	1080	1080	1080	1080	53	10600	-
2.6	0.4	8.1	475	2.7	183.5	IE4	**BF50Z-../S4E06LA4**	0.8	2.7	5.4	8.1	9.8	455	475	475	475	475	82	13600	-
2.6	0.4	7.3	530	2.4	205.2	IE4	**BF50Z-../S4E06LA4**	0.7	2.4	4.8	7.3	8.7	510	530	530	530	530	82	13600	-
2.6	0.4	6	640	2	247.5	IE4	**BF50Z-../S4E06LA4**	0.6	2	4	6	7.2	610	640	640	640	640	82	13600	-
2.6	0.4	5.4	710	1.8	276.8	IE4	**BF50Z-../S4E06LA4**	0.5	1.8	3.6	5.4	6.5	690	710	710	710	710	82	13600	-
2.6	0.4	4.7	820	1.6	316.6	IE4	**BF50Z-../S4E06LA4**	0.47	1.5	3.1	4.7	5.6	790	820	820	820	820	82	13600	-
2.6	0.4	4.2	920	1.4	354	IE4	**BF50Z-../S4E06LA4**	0.42	1.4	2.8	4.2	5	880	920	920	920	920	82	13600	-
2.6	0.4	3.8	1020	1.3	392.8	IE4	**BF50Z-../S4E06LA4**	0.38	1.2	2.5	3.8	4.5	980	1020	1020	1020	1020	82	13600	-
2.6	0.4	3.4	1140	1.1	439.3	IE4	**BF50Z-../S4E06LA4**	0.34	1.1	2.2	3.4	4	1090	1140	1140	1140	1140	82	13600	-
2.6	0.4	3	1290	1	496.4	IE4	**BF50Z-../S4E06LA4**	0.3	1	2	3	3.6	1240	1290	1290	1290	1290	82	13600	-
2.6	0.4	2.7	1440	0.9	555.2	IE4	**BF50Z-../S4E06LA4**	0.27	0.9	1.8	2.7	3.2	1380	1440	1440	1440	1440	82	13600	-
2.6	0.4	2.6	1440	0.97	555.9	IE4	**BF50G10-../S4E06LA4**	0.26	0.85	1.7	2.6	3.2	1380	1440	1440	1440	1440	86	13600	-

MN = 2.6 Nm (PN = 0.4 kW)



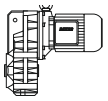
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
2.6	0.4	2.6	1480	1.7	569.3	IE4	**BF60G20-../S4E06LA4**	0.26	0.85	1.7	2.6	3.1	1420	1480	1480	1480	1480	134	15300	43300
2.6	0.4	2.1	1790	1.4	689	IE4	**BF60G20-../S4E06LA4**	0.21	0.7	1.4	2.1	2.6	1720	1790	1790	1790	1790	134	15300	43300
2.6	0.4	1.8	2100	1.2	813.2	IE4	**BF60G20-../S4E06LA4**	0.18	0.6	1.2	1.8	2.2	2000	2100	2100	2100	2100	134	15300	43300
2.6	0.4	1.5	2400	1	937.6	IE4	**BF60G20-../S4E06LA4**	0.15	0.5	1	1.5	1.9	2300	2400	2400	2400	2400	134	15300	43300
2.6	0.4	1.7	2250	2.5	872.1	IE4	**BF70G20-../S4E06LA4**	0.17	0.55	1.1	1.7	2	2150	2250	2250	2250	2250	212	16100	47700
2.6	0.4	1.4	2600	2.2	1017	IE4	**BF70G20-../S4E06LA4**	0.14	0.49	0.95	1.4	1.7	2500	2600	2600	2600	2600	212	16100	47700
2.6	0.4	1	3600	1.6	1390	IE4	**BF70G20-../S4E06LA4**	0.1	0.35	0.7	1	1.2	3450	3600	3600	3600	3600	212	16100	47700
2.6	0.4	0.9	4200	1.4	1621	IE4	**BF70G20-../S4E06LA4**	0.09	0.3	0.6	0.9	1.1	4050	4200	4200	4200	4200	212	16100	47700
2.6	0.4	0.75	4950	1.1	1912	IE4	**BF70G20-../S4E06LA4**	0.075	0.26	0.5	0.75	0.9	4750	4950	4950	4950	4950	212	16100	47700
2.6	0.4	0.6	6300	0.9	2448	IE4	**BF70G20-../S4E06LA4**	0.06	0.2	0.4	0.6	0.7	6100	6300	6300	6300	6300	212	16100	47700

MN = 3.5 Nm (PN = 0.55 kW)



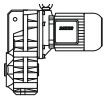
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
3.5	0.55	195	26.5	2.5	7.66	IE1	**BF06-../SSE06LA4**	19.5	65	130	195	230	19.1	22	26.5	26.5	26.5	12	1800	-
3.5	0.55	162	32	2.2	9.21	IE1	**BF06-../SSE06LA4**	16	54	108	162	195	23	26.5	32	32	32	12	1900	-
3.5	0.55	124	42	1.8	12.07	IE1	**BF06-../SSE06LA4**	12	41	82	124	149	30	35	42	42	42	12	2000	-
3.5	0.55	105	49.5	1.7	14.21	IE1	**BF06-../SSE06LA4**	10.5	35	70	105	126	35.5	41	49.5	49.5	49.5	12	2100	-
3.5	0.55	88	59	1.6	16.99	IE1	**BF06-../SSE06LA4**	8.8	29	58	88	105	42	49	59	59	59	12	2500	-
3.5	0.55	73	71	1.3	20.42	IE1	**BF06-../SSE06LA4**	7.3	24	48.5	73	88	51	59	71	71	71	12	2700	-
3.5	0.55	56	93	1	26.76	IE1	**BF06-../SSE06LA4**	5.6	18.5	37	56	67	66	77	93	93	93	12	3000	-
3.5	0.55	47.5	110	0.86	31.5	IE1	**BF06-../SSE06LA4**	4.7	15.5	31.5	47.5	57	78	91	110	110	110	12	3200	-
3.5	0.55	64	81	2.9	23.28	IE1	**BF10-../SSE06LA4**	6.4	21	42.5	64	77	58	67	81	81	81	23	3200	-
3.5	0.55	58	89	2.7	25.6	IE1	**BF10-../SSE06LA4**	5.8	19.5	39	58	70	64	74	89	89	89	23	3350	-
3.5	0.55	52	99	2.4	28.47	IE1	**BF10-../SSE06LA4**	5.2	17.5	35	52	63	71	82	99	99	99	23	3450	-
3.5	0.55	47.5	109	2.2	31.31	IE1	**BF10-../SSE06LA4**	4.7	15.5	31.5	47.5	57	78	90	109	109	109	23	3600	-
3.5	0.55	41	126	1.9	36.15	IE1	**BF10-../SSE06LA4**	4.1	13.5	27.5	41	49.5	90	104	126	126	126	23	3800	-
3.5	0.55	37.5	139	1.7	39.75	IE1	**BF10-../SSE06LA4**	3.7	12.5	25	37.5	45	99	115	139	139	139	23	3950	-
3.5	0.55	34.5	150	1.6	43.06	IE1	**BF10-../SSE06LA4**	3.4	11.5	23	34.5	41.5	107	124	150	150	150	23	4100	-
3.5	0.55	31.5	165	1.4	47.35	IE1	**BF10-../SSE06LA4**	3.1	10.5	21	31.5	38	118	137	165	165	165	23	4250	-
3.5	0.55	29	179	1.3	51.28	IE1	**BF10-../SSE06LA4**	2.9	9.7	19.5	29	35	128	148	179	179	179	23	4400	-
3.5	0.55	26.5	197	1.2	56.39	IE1	**BF10-../SSE06LA4**	2.6	8.8	17.5	26.5	31.5	140	163	197	197	197	23	4550	-
3.5	0.55	24	215	1.1	61.55	IE1	**BF10-../SSE06LA4**	2.4	8.1	16	24	29	153	178	215	215	215	23	4700	-
3.5	0.55	22	235	1	67.69	IE1	**BF10-../SSE06LA4**	2.2	7.3	14.5	22	26.5	169	196	235	235	235	23	4900	-
3.5	0.55	19	270	0.88	77.55	IE1	**BF10-../SSE06LA4**	1.9	6.4	12.5	19	23	193	220	270	270	270	23	5100	-
3.5	0.55	17.5	295	0.8	85.27	IE1	**BF10-../SSE06LA4**	1.7	5.8	11.5	17.5	21	210	245	295	295	295	23	5300	-
3.5	0.55	35.5	146	2.9	41.72	IE1	**BF20-../SSE06LA4**	3.5	11.5	23.5	35.5	43	104	120	146	146	146	30	4950	-
3.5	0.55	32.5	160	2.6	45.9	IE1	**BF20-../SSE06LA4**	3.2	10.5	21.5	32.5	39	114	133	160	160	160	30	5100	-
3.5	0.55	30.5	169	2.5	48.56	IE1	**BF20-../SSE06LA4**	3	10	20.5	30.5	37	121	140	169	169	169	30	5200	-
3.5	0.55	28	187	2.2	53.43	IE1	**BF20-../SSE06LA4**	2.8	9.3	18.5	28	33.5	133	154	187	187	187	30	5500	-
3.5	0.55	25.5	200	2.1	58.24	IE1	**BF20-../SSE06LA4**	2.5	8.5	17	25.5	30.5	145	168	200	200	200	30	5600	-
3.5	0.55	23	220	1.9	64.08	IE1	**BF20-../SSE06LA4**	2.3	7.8	15.5	23	28	160	185	220	220	220	30	5900	-
3.5	0.55	21.5	240	1.7	69.7	IE1	**BF20-../SSE06LA4**	2.1	7.1	14	21.5	25.5	174	200	240	240	240	30	6100	-
3.5	0.55	19.5	265	1.6	76.69	IE1	**BF20-../SSE06LA4**	1.9	6.5	13	19.5	23	191	220	265	265	265	30	6300	-
3.5	0.55	17	305	1.4	87.31	IE1	**BF20-../SSE06LA4**	1.7	5.7	11	17	20.5	215	250	305	305	305	30	6600	-
3.5	0.55	15.5	335	1.2	96.08	IE1	**BF20-../SSE06LA4**	1.5	5.2	10	15.5	18.5	240	275	335	335	335	30	6900	-
3.5	0.55	14.5	350	1.2	100.2	IE1	**BF20-../SSE06LA4**	1.4	4.9	9.9	14.5	17.5	250	290	350	350	350	30	7000	-
3.5	0.55	13.5	385	1.1	110.2	IE1	**BF20-../SSE06LA4**	1.3	4.5	9	13.5	16	275	315	385	385	385	30	7300	-
3.5	0.55	12	430	0.97	123.5	IE1	**BF20-../SSE06LA4**	1.2	4	8	12	14.5	305	355	430	430	430	30	7600	-
3.5	0.55	11	475	0.88	135.9	IE1	**BF20-../SSE06LA4**	1.1	3.6	7.3	11	13	335	390	475	475	475	30	7900	-
3.5	0.55	10.5	490	0.85	141.2	IE1	**BF20Z-../SSE06LA4**	1	3.5	7	10.5	12.5	350	405	490	490	490	31	7900	-
3.5	0.55	26	200	2.8	57.41	IE1	**BF30-../SSE06LA4**	2.6	8.7	17	26	31	143	166	200	200	200	40	5200	-
3.5	0.55	24.5	210	2.7	61.17	IE1	**BF30-../SSE06LA4**	2.4	8.1	16	24.5	29	152	177	210	210	210	40	5300	-
3.5	0.55	22	235	2.4	67.28	IE1	**BF30-../SSE06LA4**	2.2	7.4	14.5	22	26.5	168	195	235	235	235	40	5500	-
3.5	0.55	20.5	250	2.3	72.13	IE1	**BF30-../SSE06LA4**	2	6.9	13.5	20.5	24.5	180	205	250	250	250	40	5700	-
3.5	0.55	18.5	275	2.1	79.34	IE1	**BF30-../SSE06LA4**	1.8	6.3	12.5	18.5	22.5	198	230	275	275	275	40	5900	-
3.5	0.55	17	300	1.9	87.08	IE1	**BF30-../SSE06LA4**	1.7	5.7	11	17	20.5	215	250	300	300	300	40	6200	-
3.5	0.55	15.5	335	1.7	95.79	IE1	**BF30-../SSE06LA4**	1.5	5.2	10	15.5	18.5	235	275	335	335	335	40	6400	-
3.5	0.55	13.5	375	1.5	107.6	IE1	**BF30-../SSE06LA4**	1.3	4.6	9.2	13.5	16.5	265	310	375	375	375	40	6700	-
3.5	0.55	12.5	410	1.4	118.3	IE1	**BF30-../SSE06LA4**	1.2	4.2	8.4	12.5	15	295	340	410	410	410	40	7000	-
3.5	0.55	12	435	1.3	124.7	IE1	**BF30-../SSE06LA4**	1.2	4	8	12	14	310	360	435	435	435	40	7100	-
3.5	0.55	10.5	475	1.2	137.1	IE1	**BF30-../SSE06LA4**	1	3.6	7.2	10.5	13	340	395	475	475	475	40	7400	-
3.5	0.55	9.9	520	1.1	150.7	IE1	**BF30Z-../SSE06LA4**	0.95	3.3	6.6	9.9	11.5	375	435	520	520	520	42	7400	-
3.5	0.55	9	580	0.98	165.8	IE1	**BF30Z-../SSE06LA4**	0.9	3	6	9	10.5	410	480	580	580	580	42	7400	-
3.5	0.55	8.4	610	0.92	176.6	IE1	**BF30Z-../SSE06LA4**	0.8	2.8	5.6	8.4	10	440	510	610	610	610	42	7400	-
3.5	0.55	7.7	680	0.84	194.3	IE1	**BF30Z-../SSE06LA4**	0.75	2.5	5.1	7.7	9.2	485	560	680	680	680	42	7400	-
3.5	0.55	10.5	490	1.8	141.4	IE1	**BF40Z-../SSE06LA4**	1	3.5	7	10.5	12.5	350	410	490	490	490	53	10600	-
3.5	0.55	9.6	540	1.7	155.6	IE1	**BF40Z-../SSE06LA4**	0.95	3.2	6.4	9.6	11.5	385	450	540	540	540	53	10600	-
3.5	0.55	8.7	590	1.5	171.2	IE1	**BF40Z-../SSE06LA4**	0.85	2.9	5.8	8.7	10.5	425	495	590	590	590	53	10600	-
3.5	0.55	7.9	650	1.4	188.3	IE1	**BF40Z-../SSE06LA4**	0.75	2.6	5.3	7.9	9.5	470	540	650	650	650	53	10600	-
3.5	0.55	7.4	700	1.3	202.2	IE1	**BF40Z-../SSE06LA4**	0.7	2.4	4.9	7.4	8.9	500	580	700	700	700	53	10600	-

MN = 3.5 Nm (PN = 0.55 kW)



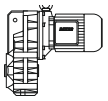
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
3.5	0.55	6.7	770	1.2	222.4	IE1	**BF40Z-../SSE06LA4**	0.65	2.2	4.4	6.7	8	550	640	770	770	770	53	10600	-
3.5	0.55	5.9	880	1	253.2	IE1	**BF40Z-../SSE06LA4**	0.55	1.9	3.9	5.9	7.1	630	730	880	880	880	53	10600	-
3.5	0.55	5.3	970	0.92	278.5	IE1	**BF40Z-../SSE06LA4**	0.5	1.7	3.5	5.3	6.4	690	800	970	970	970	53	10600	-
3.5	0.55	5	1030	0.87	295.1	IE1	**BF40Z-../SSE06LA4**	0.5	1.6	3.3	5	6	730	850	1030	1030	1030	53	10600	-
3.5	0.55	10.5	480	2.7	138.1	IE1	**BF50Z-../SSE06LA4**	1	3.6	7.2	10.5	13	345	400	480	480	480	82	13600	-
3.5	0.55	9.7	540	2.4	154.5	IE1	**BF50Z-../SSE06LA4**	0.95	3.2	6.4	9.7	11.5	385	445	540	540	540	82	13600	-
3.5	0.55	8.1	640	2	183.5	IE1	**BF50Z-../SSE06LA4**	0.8	2.7	5.4	8.1	9.8	455	530	640	640	640	82	13600	-
3.5	0.55	7.3	710	1.8	205.2	IE1	**BF50Z-../SSE06LA4**	0.7	2.4	4.8	7.3	8.7	510	590	710	710	710	82	13600	-
3.5	0.55	6	860	1.5	247.5	IE1	**BF50Z-../SSE06LA4**	0.6	2	4	6	7.2	610	710	860	860	860	82	13600	-
3.5	0.55	5.4	960	1.3	276.8	IE1	**BF50Z-../SSE06LA4**	0.5	1.8	3.6	5.4	6.5	690	800	960	960	960	82	13600	-
3.5	0.55	4.7	1100	1.2	316.6	IE1	**BF50Z-../SSE06LA4**	0.47	1.5	3.1	4.7	5.6	790	910	1100	1100	1100	82	13600	-
3.5	0.55	4.2	1230	1	354	IE1	**BF50Z-../SSE06LA4**	0.42	1.4	2.8	4.2	5	880	1020	1230	1230	1230	82	13600	-
3.5	0.55	3.8	1370	0.95	392.8	IE1	**BF50Z-../SSE06LA4**	0.38	1.2	2.5	3.8	4.5	980	1130	1370	1370	1370	82	13600	-
3.5	0.55	3.4	1530	0.85	439.3	IE1	**BF50Z-../SSE06LA4**	0.34	1.1	2.2	3.4	4	1090	1270	1530	1530	1530	82	13600	-
3.5	0.55	2.6	1990	1.3	569.3	IE1	**BF60G20-../SSE06LA4**	0.26	0.85	1.7	2.6	3.1	1420	1650	1990	1990	1990	134	15300	43300
3.5	0.55	2.1	2400	1	689	IE1	**BF60G20-../SSE06LA4**	0.21	0.7	1.4	2.1	2.6	1720	1990	2400	2400	2400	134	15300	43300
3.5	0.55	1.8	2800	0.88	813.2	IE1	**BF60G20-../SSE06LA4**	0.18	0.6	1.2	1.8	2.2	2000	2350	2800	2800	2800	134	15300	43300
3.5	0.55	2.5	2000	2.8	577.5	IE1	**BF70G20-../SSE06LA4**	0.25	0.85	1.7	2.5	3.1	1440	1670	2000	2000	2000	212	16100	47700
3.5	0.55	2.2	2350	2.4	673.6	IE1	**BF70G20-../SSE06LA4**	0.22	0.7	1.4	2.2	2.6	1680	1950	2350	2350	2350	212	16100	47700
3.5	0.55	1.7	3050	1.9	872.1	IE1	**BF70G20-../SSE06LA4**	0.17	0.55	1.1	1.7	2	2150	2500	3050	3050	3050	212	16100	47700
3.5	0.55	1.4	3550	1.6	1017	IE1	**BF70G20-../SSE06LA4**	0.14	0.49	0.95	1.4	1.7	2500	2900	3550	3550	3550	212	16100	47700
3.5	0.55	1	4850	1.2	1390	IE1	**BF70G20-../SSE06LA4**	0.1	0.35	0.7	1	1.2	3450	4000	4850	4850	4850	212	16100	47700
3.5	0.55	0.9	5600	1	1621	IE1	**BF70G20-../SSE06LA4**	0.09	0.3	0.6	0.9	1.1	4050	4700	5600	5600	5600	212	16100	47700
3.5	0.55	0.75	6600	0.85	1912	IE1	**BF70G20-../SSE06LA4**	0.075	0.26	0.5	0.75	0.9	4750	5500	6600	6600	6600	212	16100	47700

MN = 5 Nm (PN = 0.78 kW)



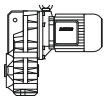
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
5	0.78	260	28.5	2.2	5.72	IE4	**BF06-../S4E08MA4**	26	87	174	260	310	28.5	28.5	28.5	28.5	28.5	16	1600	-
5	0.78	195	38	1.8	7.66	IE4	**BF06-../S4E08MA4**	19.5	65	130	195	230	38	38	38	38	38	16	1800	-
5	0.78	162	46	1.5	9.21	IE4	**BF06-../S4E08MA4**	16	54	108	162	195	46	46	46	46	46	16	1900	-
5	0.78	124	60	1.2	12.07	IE4	**BF06-../S4E08MA4**	12	41	82	124	149	60	60	60	60	60	16	2000	-
5	0.78	105	71	1.2	14.21	IE4	**BF06-../S4E08MA4**	10.5	35	70	105	126	71	71	71	71	71	16	2100	-
5	0.78	88	84	1.1	16.99	IE4	**BF06-../S4E08MA4**	8.8	29	58	88	105	84	84	84	84	84	16	2500	-
5	0.78	73	102	0.93	20.42	IE4	**BF06-../S4E08MA4**	7.3	24	48.5	73	88	102	102	102	102	102	16	2700	-
5	0.78	99	75	2.4	15.04	IE4	**BF10-../S4E08MA4**	9.9	33	66	99	119	75	75	75	75	75	27	2800	-
5	0.78	82	91	2.6	18.23	IE4	**BF10-../S4E08MA4**	8.2	27	54	82	98	91	91	91	91	91	27	2900	-
5	0.78	74	100	2.4	20.05	IE4	**BF10-../S4E08MA4**	7.4	24.5	49.5	74	89	100	100	100	100	100	27	3000	-
5	0.78	64	116	2.1	23.28	IE4	**BF10-../S4E08MA4**	6.4	21	42.5	64	77	116	116	116	116	116	27	3200	-
5	0.78	58	128	1.9	25.6	IE4	**BF10-../S4E08MA4**	5.8	19.5	39	58	70	128	128	128	128	128	27	3350	-
5	0.78	52	142	1.7	28.47	IE4	**BF10-../S4E08MA4**	5.2	17.5	35	52	63	142	142	142	142	142	27	3450	-
5	0.78	47.5	156	1.5	31.31	IE4	**BF10-../S4E08MA4**	4.7	15.5	31.5	47.5	57	156	156	156	156	156	27	3600	-
5	0.78	41	180	1.3	36.15	IE4	**BF10-../S4E08MA4**	4.1	13.5	27.5	41	49.5	180	180	180	180	180	27	3800	-
5	0.78	37.5	198	1.2	39.75	IE4	**BF10-../S4E08MA4**	3.7	12.5	25	37.5	45	198	198	198	198	198	27	3950	-
5	0.78	34.5	215	1.1	43.06	IE4	**BF10-../S4E08MA4**	3.4	11.5	23	34.5	41.5	215	215	215	215	215	27	4100	-
5	0.78	31.5	235	1	47.35	IE4	**BF10-../S4E08MA4**	3.1	10.5	21	31.5	38	235	235	235	235	235	27	4250	-
5	0.78	29	255	0.94	51.28	IE4	**BF10-../S4E08MA4**	2.9	9.7	19.5	29	35	255	255	255	255	255	27	4400	-
5	0.78	26.5	280	0.85	56.39	IE4	**BF10-../S4E08MA4**	2.6	8.8	17.5	26.5	31.5	280	280	280	280	280	27	4550	-
5	0.78	54	138	3	27.62	IE4	**BF20-../S4E08MA4**	5.4	18	36	54	65	138	138	138	138	138	33	4150	-
5	0.78	49	152	2.8	30.4	IE4	**BF20-../S4E08MA4**	4.9	16	32.5	49	59	152	152	152	152	152	33	4400	-
5	0.78	46	162	2.6	32.58	IE4	**BF20-../S4E08MA4**	4.6	15	30.5	46	55	162	162	162	162	162	33	4450	-
5	0.78	41.5	179	2.3	35.85	IE4	**BF20-../S4E08MA4**	4.1	13.5	27.5	41.5	50	179	179	179	179	179	33	4650	-
5	0.78	35.5	205	2	41.72	IE4	**BF20-../S4E08MA4**	3.5	11.5	23.5	35.5	43	205	205	205	205	205	33	4950	-
5	0.78	32.5	225	1.8	45.9	IE4	**BF20-../S4E08MA4**	3.2	10.5	21.5	32.5	39	225	225	225	225	225	33	5100	-
5	0.78	30.5	240	1.7	48.56	IE4	**BF20-../S4E08MA4**	3	10	20.5	30.5	37	240	240	240	240	240	33	5200	-
5	0.78	28	265	1.6	53.43	IE4	**BF20-../S4E08MA4**	2.8	9.3	18.5	28	33.5	265	265	265	265	265	33	5500	-
5	0.78	25.5	290	1.4	58.24	IE4	**BF20-../S4E08MA4**	2.5	8.5	17	25.5	30.5	290	290	290	290	290	33	5600	-
5	0.78	23	320	1.3	64.08	IE4	**BF20-../S4E08MA4**	2.3	7.8	15.5	23	28	320	320	320	320	320	33	5900	-
5	0.78	21.5	345	1.2	69.7	IE4	**BF20-../S4E08MA4**	2.1	7.1	14	21.5	25.5	345	345	345	345	345	33	6100	-
5	0.78	19.5	380	1.1	76.69	IE4	**BF20-../S4E08MA4**	1.9	6.5	13	19.5	23	380	380	380	380	380	33	6300	-
5	0.78	17	435	0.96	87.31	IE4	**BF20-../S4E08MA4**	1.7	5.7	11	17	20.5	435	435	435	435	435	33	6600	-
5	0.78	15.5	480	0.87	96.08	IE4	**BF20-../S4E08MA4**	1.5	5.2	10	15.5	18.5	480	480	480	480	480	33	6900	-
5	0.78	14.5	500	0.84	100.2	IE4	**BF20-../S4E08MA4**	1.4	4.9	9.9	14.5	17.5	500	500	500	500	500	33	7000	-
5	0.78	38.5	192	3	38.49	IE4	**BF30-../S4E08MA4**	3.8	12.5	25.5	38.5	46.5	192	192	192	192	192	43	4400	-
5	0.78	36.5	205	2.8	41.01	IE4	**BF30-../S4E08MA4**	3.6	12	24	36.5	43.5	205	205	205	205	205	43	4500	-
5	0.78	33	225	2.5	45.1	IE4	**BF30-../S4E08MA4**	3.3	11	22	33	39.5	225	225	225	225	225	43	4700	-
5	0.78	28.5	260	2.2	52.2	IE4	**BF30-../S4E08MA4**	2.8	9.5	19	28.5	34	260	260	260	260	260	43	5000	-
5	0.78	26	285	2	57.41	IE4	**BF30-../S4E08MA4**	2.6	8.7	17	26	31	285	285	285	285	285	43	5200	-
5	0.78	24.5	305	1.9	61.17	IE4	**BF30-../S4E08MA4**	2.4	8.1	16	24.5	29	305	305	305	305	305	43	5300	-
5	0.78	22	335	1.7	67.28	IE4	**BF30-../S4E08MA4**	2.2	7.4	14.5	22	26.5	335	335	335	335	335	43	5500	-

MN = 5 Nm (PN = 0.78 kW)



M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
5	0.78	20.5	360	1.6	72.13	IE4	**BF30-../S4E08MA4**	2	6.9	13.5	20.5	24.5	360	360	360	360	360	43	5700	-
5	0.78	18.5	395	1.4	79.34	IE4	**BF30-../S4E08MA4**	1.8	6.3	12.5	18.5	22.5	395	395	395	395	395	43	5900	-
5	0.78	17	435	1.3	87.08	IE4	**BF30-../S4E08MA4**	1.7	5.7	11	17	20.5	435	435	435	435	435	43	6200	-
5	0.78	15.5	475	1.2	95.79	IE4	**BF30-../S4E08MA4**	1.5	5.2	10	15.5	18.5	475	475	475	475	475	43	6400	-
5	0.78	13.5	530	1.1	107.6	IE4	**BF30-../S4E08MA4**	1.3	4.6	9.2	13.5	16.5	530	530	530	530	530	43	6700	-
5	0.78	12.5	590	0.96	118.3	IE4	**BF30-../S4E08MA4**	1.2	4.2	8.4	12.5	15	590	590	590	590	590	43	7000	-
5	0.78	12	620	0.91	124.7	IE4	**BF30-../S4E08MA4**	1.2	4	8	12	14	620	620	620	620	620	43	7100	-
5	0.78	10.5	680	0.83	137.1	IE4	**BF30-../S4E08MA4**	1	3.6	7.2	10.5	13	680	680	680	680	680	43	7400	-
5	0.78	24	305	2.9	61.25	IE4	**BF40-../S4E08MA4**	2.4	8.1	16	24	29	305	305	305	305	305	53	7600	-
5	0.78	22	335	2.7	67.38	IE4	**BF40-../S4E08MA4**	2.2	7.4	14.5	22	26.5	335	335	335	335	335	53	8000	-
5	0.78	21	355	2.5	71.4	IE4	**BF40-../S4E08MA4**	2.1	7	14	21	25	355	355	355	355	355	53	8100	-
5	0.78	19	390	2.3	78.55	IE4	**BF40-../S4E08MA4**	1.9	6.3	12.5	19	22.5	390	390	390	390	390	53	8500	-
5	0.78	17.5	415	2.1	83.91	IE4	**BF40-../S4E08MA4**	1.7	5.9	11.5	17.5	21	415	415	415	415	415	53	8700	-
5	0.78	16	460	1.9	92.31	IE4	**BF40-../S4E08MA4**	1.6	5.4	10.5	16	19	460	460	460	460	460	53	9100	-
5	0.78	14.5	500	1.8	101	IE4	**BF40-../S4E08MA4**	1.4	4.9	9.9	14.5	17.5	500	500	500	500	500	53	9400	-
5	0.78	13.5	550	1.6	111.1	IE4	**BF40-../S4E08MA4**	1.3	4.5	9	13.5	16	550	550	550	550	550	53	9800	-
5	0.78	12	620	1.4	124.5	IE4	**BF40-../S4E08MA4**	1.2	4	8	12	14	620	620	620	620	620	53	10200	-
5	0.78	10.5	680	1.3	137	IE4	**BF40-../S4E08MA4**	1	3.6	7.2	10.5	13	680	680	680	680	680	53	10600	-
5	0.78	10.5	700	1.3	141.4	IE4	**BF40Z-../S4E08MA4**	1	3.5	7	10.5	12.5	700	700	700	700	700	56	10600	-
5	0.78	9.6	770	1.2	155.6	IE4	**BF40Z-../S4E08MA4**	0.95	3.2	6.4	9.6	11.5	770	770	770	770	770	56	10600	-
5	0.78	8.7	850	1.1	171.2	IE4	**BF40Z-../S4E08MA4**	0.85	2.9	5.8	8.7	10.5	850	850	850	850	850	56	10600	-
5	0.78	7.9	940	0.96	188.3	IE4	**BF40Z-../S4E08MA4**	0.75	2.6	5.3	7.9	9.5	940	940	940	940	940	56	10600	-
5	0.78	7.4	1010	0.89	202.2	IE4	**BF40Z-../S4E08MA4**	0.7	2.4	4.9	7.4	8.9	1010	1010	1010	1010	1010	56	10600	-
5	0.78	6.7	1110	0.81	222.4	IE4	**BF40Z-../S4E08MA4**	0.65	2.2	4.4	6.7	8	1110	1110	1110	1110	1110	56	10600	-
5	0.78	16.5	450	2.9	90.24	IE4	**BF50-../S4E08MA4**	1.6	5.5	11	16.5	19.5	450	450	450	450	450	81	11800	-
5	0.78	14.5	500	2.6	100.9	IE4	**BF50-../S4E08MA4**	1.4	4.9	9.9	14.5	17.5	500	500	500	500	500	81	12300	-
5	0.78	13	570	2.3	114	IE4	**BF50-../S4E08MA4**	1.3	4.3	8.7	13	15.5	570	570	570	570	570	81	12900	-
5	0.78	11.5	630	2	127.5	IE4	**BF50-../S4E08MA4**	1.1	3.9	7.8	11.5	14	630	630	630	630	630	81	13600	-
5	0.78	10.5	690	1.9	138.1	IE4	**BF50Z-../S4E08MA4**	1	3.6	7.2	10.5	13	690	690	690	690	690	86	13600	-
5	0.78	9.7	770	1.7	154.5	IE4	**BF50Z-../S4E08MA4**	0.95	3.2	6.4	9.7	11.5	770	770	770	770	770	86	13600	-
5	0.78	8.1	910	1.4	183.5	IE4	**BF50Z-../S4E08MA4**	0.8	2.7	5.4	8.1	9.8	910	910	910	910	910	86	13600	-
5	0.78	7.3	1020	1.3	205.2	IE4	**BF50Z-../S4E08MA4**	0.7	2.4	4.8	7.3	8.7	1020	1020	1020	1020	1020	86	13600	-
5	0.78	6	1230	1.1	247.5	IE4	**BF50Z-../S4E08MA4**	0.6	2	4	6	7.2	1230	1230	1230	1230	1230	86	13600	-
5	0.78	5.4	1380	0.94	276.8	IE4	**BF50Z-../S4E08MA4**	0.5	1.8	3.6	5.4	6.5	1380	1380	1380	1380	1380	86	13600	-
5	0.78	4.7	1580	0.82	316.6	IE4	**BF50Z-../S4E08MA4**	0.47	1.5	3.1	4.7	5.6	1580	1580	1580	1580	1580	86	13600	-
5	0.78	8.8	840	2.7	169.2	IE4	**BF60Z-../S4E08MA4**	0.85	2.9	5.9	8.8	10.5	840	840	840	840	840	130	15300	43300
5	0.78	7.9	930	2.5	187.7	IE4	**BF60Z-../S4E08MA4**	0.75	2.6	5.3	7.9	9.5	930	930	930	930	930	130	15300	43300
5	0.78	6.7	1100	2.1	221.4	IE4	**BF60Z-../S4E08MA4**	0.65	2.2	4.5	6.7	8.1	1100	1100	1100	1100	1100	130	15300	43300
5	0.78	6.1	1220	1.9	245.6	IE4	**BF60Z-../S4E08MA4**	0.6	2	4	6.1	7.3	1220	1220	1220	1220	1220	130	15300	43300
5	0.78	5.1	1460	1.6	293.4	IE4	**BF60Z-../S4E08MA4**	0.5	1.7	3.4	5.1	6.1	1460	1460	1460	1460	1460	130	15300	43300
5	0.78	4.6	1620	1.4	325.6	IE4	**BF60Z-../S4E08MA4**	0.46	1.5	3	4.6	5.5	1620	1620	1620	1620	1620	130	15300	43300
5	0.78	3.9	1900	1.2	380	IE4	**BF60Z-../S4E08MA4**	0.39	1.3	2.6	3.9	4.7	1900	1900	1900	1900	1900	130	15300	43300
5	0.78	3.5	2100	1.1	421.6	IE4	**BF60Z-../S4E08MA4**	0.35	1.1	2.3	3.5	4.2	2100	2100	2100	2100	2100	130	15300	43300
5	0.78	3.2	2250	1	459.9	IE4	**BF60Z-../S4E08MA4**	0.32	1	2.1	3.2	3.9	2250	2250	2250	2250	2250	130	15300	43300
5	0.78	2.9	2550	0.9	510.3	IE4	**BF60Z-../S4E08MA4**	0.29	0.95	1.9	2.9	3.5	2550	2550	2550	2550	2550	130	15300	43300
5	0.78	2.6	2800	0.88	569.3	IE4	**BF60G20-../S4E08MA4**	0.26	0.85	1.7	2.6	3.1	2800	2800	2800	2800	2800	137	15300	43300
5	0.78	4.3	1700	3	341.7	IE4	**BF70Z-../S4E08MA4**	0.43	1.4	2.9	4.3	5.2	1700	1700	1700	1700	1700	218	16100	47700
5	0.78	3.7	1990	2.6	398.7	IE4	**BF70Z-../S4E08MA4**	0.37	1.2	2.5	3.7	4.5	1990	1990	1990	1990	1990	218	16100	47700
5	0.78	3.4	2150	2.4	439.2	IE4	**BF70Z-../S4E08MA4**	0.34	1.1	2.2	3.4	4	2150	2150	2150	2150	2150	218	16100	47700
5	0.78	2.9	2550	2	512.4	IE4	**BF70Z-../S4E08MA4**	0.29	0.95	1.9	2.9	3.5	2550	2550	2550	2550	2550	218	16100	47700
5	0.78	2.8	2600	2.2	524.1	IE4	**BF70G20-../S4E08MA4**	0.28	0.95	1.9	2.8	3.4	2600	2600	2600	2600	2600	216	16100	47700
5	0.78	2.5	2850	2	577.5	IE4	**BF70G20-../S4E08MA4**	0.25	0.85	1.7	2.5	3.1	2850	2850	2850	2850	2850	216	16100	47700
5	0.78	2.2	3350	1.7	673.6	IE4	**BF70G20-../S4E08MA4**	0.22	0.7	1.4	2.2	2.6	3350	3350	3350	3350	3350	216	16100	47700
5	0.78	1.7	4350	1.3	872.1	IE4	**BF70G20-../S4E08MA4**	0.17	0.55	1.1	1.7	2	4350	4350	4350	4350	4350	216	16100	47700
5	0.78	1.4	5000	1.1	1017	IE4	**BF70G20-../S4E08MA4**	0.14	0.49	0.95	1.4	1.7	5000	5000	5000	5000	5000	216	16100	47700
5	0.78	1	6900	0.82	1390	IE4	**BF70G20-../S4E08MA4**	0.1	0.35	0.7	1	1.2	6900	6900	6900	6900	6900	216	16100	47700
5	0.78	1.9	3850	2.7	770.6	IE4	**BF80Z-../S4E08MA4**	0.19	0.6	1.2	1.9	2.3	3850	3850	3850	3850	3850	334	39600	75000
5	0.78	1.7	4350	2.4	874.6	IE4	**BF80Z-../S4E08MA4**	0.17	0.55	1.1	1.7	2	4350	4350	4350	4350	4350	334	39600	75000
5	0.78	1.5	4950	2.1	990.4	IE4	**BF80Z-../S4E08MA4**	0.15	0.5	1	1.5	1.8	4950	4950	4950	4950	4950	334	39600	75000
5	0.78	1.3	5600	1.9	1124	IE4	**BF80Z-../S4E08MA4**	0.13	0.44	0.85	1.3	1.6	5600	5600	5600	5600	5600	334	39600	75000
5	0.78	1.1	6600	1.6	1329	IE4	**BF80G40-../S4E08MA4**	0.11	0.37	0.75	1.1	1.3	6600	6600	6600	6600	6600	340	39600	75000
5	0.78	1	7400	1.4	1491	IE4	**BF80G40-../S4E08MA4**	0.1	0.33	0.65	1	1.2	7400	7400	7400	7400	7400	340	39600	75000
5	0.78	0.85	8400	1.2	1693	IE4	**BF80G40-../S4E08MA4**	0.085	0.29	0.55	0.85	1	8400	8400	8400	8400	8400	340	39600	75000
5	0.78	0.7	10200	1	2051	IE4	**BF80G40-../S4E08MA4**	0.07	0.24	0.48	0.7	0.85	10200	10200	10200	10200	10200	340	39600	75000
5	0.78	0.6	12100	0.87	2422	IE4	**BF80G40-../S4E08MA4**	0.06	0.2	0.41	0.6	0.7	12100	12100	12100	12100	12100	340	39600	75000
5	0.78	1	7200	2.6	1444	IE4	**BF90G50-../S4E08MA4**	0.1	0.34	0.65	1	1.2	7200	7200	7200	7200	7200	610	42800	120000
5	0.78	0.85	8300	2.2	1678	IE4	**BF90G50-../S4E08MA4**	0.085	0.29	0.55	0.85	1	8300	8300	8300	8300	8300	610	42800	120000
5	0.78	0.8	9300	2	1867	IE4	**BF90G50-../S4E08MA4**	0.08	0.26	0.5	0.8	0.95	9300	9300	9300	9300	9300	610	42800	120000
5	0.78	0.65	10700	1.7	2154	IE4	**BF90G50-../S4E08MA4**	0.065	0.23	0.46	0.65	0.8	10700	10700	10700	10700	10700	610	42800	120000
5	0.78	0.55	13200	1.4	2656	IE4	**BF90G50-../S4E08MA4**	0.055	0.18	0.37	0.55	0.65	13200	13200	13200	13200	13200	610	42800	120000
5	0.78	0.5	14700	1.3	2952	IE4	**BF90G50-../S4E08MA4**	0.05	0.16	0.33	0.5	0.6	14700	14700	14700	14700	14700	610	42800	120000
5	0.78	0.45	16400	1.1	3286	IE4	**BF90G50-../S4E08MA4**	0.045	0.15	0.3	0.45	0.5	16400	16400	16400	16400	16400	610	42800	120000
5	0.78	0.41	18200	1	3644	IE4	**BF90G50-../S4E08MA4**	0.041	0.13	0.27	0.41	0.49	18200	18200	18200	18200	18200	610	42800	120000
5	0.78	0.34	21500	0.85	4366	IE4	**BF90G50-../S4E08MA4**	0.034	0.11	0.22	0.34	0.41	21500	21500	21500	21500	21500	610	42800	120000

MN = 7 Nm (PN = 1.1 kW)

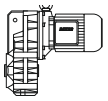


M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
7	1.1	260	40	1.5	5.72	IE3	**BF06-../SPE08LA4**	26	87	174	260	310	37	40	40	40	40	17	1600	-
7	1.1	195	53	1.3	7.66	IE3	**BF06-../SPE08LA4**	19.5	65	130	195	230	49.5	53	53	53	53	17	1800	-
7	1.1	162	64	1.1	9.21	IE3	**BF06-../SPE08LA4**	16	54	108	162	195	59	64	64	64	64	17	1900	-
7	1.1	124	84	0.89	12.07	IE3	**BF06-../SPE08LA4**	12	41	82	124	149	78	84	84	84	84	17	2000	-
7	1.1	105	99	0.85	14.21	IE3	**BF06-../SPE08LA4**	10.5	35	70	105	126	92	99	99	99	99	17	2100	-
7	1.1	88	118	0.8	16.99	IE3	**BF06-../SPE08LA4**	8.8	29	58	88	105	110	118	118	118	118	17	2500	-
7	1.1	197	53	2.9	7.58	IE3	**BF10-../SPE08LA4**	19.5	65	131	197	235	49	53	53	53	53	28	2200	-
7	1.1	154	67	2.6	9.69	IE3	**BF10-../SPE08LA4**	15	51	103	154	185	62	67	67	67	67	28	2350	-
7	1.1	126	82	2.2	11.84	IE3	**BF10-../SPE08LA4**	12.5	42	84	126	152	76	82	82	82	82	28	2500	-
7	1.1	99	105	1.7	15.04	IE3	**BF10-../SPE08LA4**	9.9	33	66	99	119	97	105	105	105	105	28	2800	-
7	1.1	82	127	1.9	18.23	IE3	**BF10-../SPE08LA4**	8.2	27	54	82	98	118	127	127	127	127	28	2900	-
7	1.1	74	140	1.7	20.05	IE3	**BF10-../SPE08LA4**	7.4	24.5	49.5	74	89	130	140	140	140	140	28	3000	-
7	1.1	64	162	1.5	23.28	IE3	**BF10-../SPE08LA4**	6.4	21	42.5	64	77	151	162	162	162	162	28	3200	-
7	1.1	58	179	1.3	25.6	IE3	**BF10-../SPE08LA4**	5.8	19.5	39	58	70	166	179	179	179	179	28	3350	-
7	1.1	52	199	1.2	28.47	IE3	**BF10-../SPE08LA4**	5.2	17.5	35	52	63	185	199	199	199	199	28	3450	-
7	1.1	47.5	215	1.1	31.31	IE3	**BF10-../SPE08LA4**	4.7	15.5	31.5	47.5	57	200	215	215	215	215	28	3600	-
7	1.1	41	250	0.95	36.15	IE3	**BF10-../SPE08LA4**	4.1	13.5	27.5	41	49.5	230	250	250	250	250	28	3800	-
7	1.1	37.5	275	0.86	39.75	IE3	**BF10-../SPE08LA4**	3.7	12.5	25	37.5	45	255	275	275	275	275	28	3950	-
7	1.1	34.5	300	0.8	43.06	IE3	**BF10-../SPE08LA4**	3.4	11.5	23	34.5	41.5	275	300	300	300	300	28	4100	-
7	1.1	96	108	2.8	15.54	IE3	**BF20-../SPE08LA4**	9.6	32	64	96	115	101	108	108	108	108	35	3450	-
7	1.1	81	129	2.9	18.45	IE3	**BF20-../SPE08LA4**	8.1	27	54	81	97	119	129	129	129	129	35	3600	-
7	1.1	68	154	2.6	22.04	IE3	**BF20-../SPE08LA4**	6.8	22.5	45	68	81	143	154	154	154	154	35	3800	-
7	1.1	61	169	2.4	24.25	IE3	**BF20-../SPE08LA4**	6.1	20.5	41	61	74	157	169	169	169	169	35	3950	-
7	1.1	54	193	2.2	27.62	IE3	**BF20-../SPE08LA4**	5.4	18	36	54	65	179	193	193	193	193	35	4150	-
7	1.1	49	210	2	30.4	IE3	**BF20-../SPE08LA4**	4.9	16	32.5	49	59	197	210	210	210	210	35	4400	-
7	1.1	46	225	1.8	32.58	IE3	**BF20-../SPE08LA4**	4.6	15	30.5	46	55	210	225	225	225	225	35	4450	-
7	1.1	41.5	250	1.7	35.85	IE3	**BF20-../SPE08LA4**	4.1	13.5	27.5	41.5	50	230	250	250	250	250	35	4650	-
7	1.1	35.5	290	1.4	41.72	IE3	**BF20-../SPE08LA4**	3.5	11.5	23.5	35.5	43	270	290	290	290	290	35	4950	-
7	1.1	32.5	320	1.3	45.9	IE3	**BF20-../SPE08LA4**	3.2	10.5	21.5	32.5	39	295	320	320	320	320	35	5100	-
7	1.1	30.5	335	1.2	48.56	IE3	**BF20-../SPE08LA4**	3	10	20.5	30.5	37	315	335	335	335	335	35	5200	-
7	1.1	28	370	1.1	53.43	IE3	**BF20-../SPE08LA4**	2.8	9.3	18.5	28	33.5	345	370	370	370	370	35	5500	-
7	1.1	25.5	405	1	58.24	IE3	**BF20-../SPE08LA4**	2.5	8.5	17	25.5	30.5	375	405	405	405	405	35	5600	-
7	1.1	23	445	0.94	64.08	IE3	**BF20-../SPE08LA4**	2.3	7.8	15.5	23	28	415	445	445	445	445	35	5900	-
7	1.1	21.5	485	0.86	69.7	IE3	**BF20-../SPE08LA4**	2.1	7.1	14	21.5	25.5	450	485	485	485	485	35	6100	-
7	1.1	53	197	2.9	28.23	IE3	**BF30-../SPE08LA4**	5.3	17.5	35	53	63	183	197	197	197	197	45	3800	-
7	1.1	48	215	2.6	31.05	IE3	**BF30-../SPE08LA4**	4.8	16	32	48	57	200	215	215	215	215	45	4000	-
7	1.1	42.5	245	2.3	35	IE3	**BF30-../SPE08LA4**	4.2	14	28.5	42.5	51	225	245	245	245	245	45	4200	-
7	1.1	38.5	265	2.1	38.49	IE3	**BF30-../SPE08LA4**	3.8	12.5	25.5	38.5	46.5	250	265	265	265	265	45	4400	-
7	1.1	36.5	285	2	41.01	IE3	**BF30-../SPE08LA4**	3.6	12	24	36.5	43.5	265	285	285	285	285	45	4500	-
7	1.1	33	315	1.8	45.1	IE3	**BF30-../SPE08LA4**	3.3	11	22	33	39.5	290	315	315	315	315	45	4700	-
7	1.1	28.5	365	1.6	52.2	IE3	**BF30-../SPE08LA4**	2.8	9.5	19	28.5	34	335	365	365	365	365	45	5000	-
7	1.1	26	400	1.4	57.41	IE3	**BF30-../SPE08LA4**	2.6	8.7	17	26	31	370	400	400	400	400	45	5200	-
7	1.1	24.5	425	1.3	61.17	IE3	**BF30-../SPE08LA4**	2.4	8.1	16	24.5	29	395	425	425	425	425	45	5300	-
7	1.1	22	470	1.2	67.28	IE3	**BF30-../SPE08LA4**	2.2	7.4	14.5	22	26.5	435	470	470	470	470	45	5500	-
7	1.1	20.5	500	1.1	72.13	IE3	**BF30-../SPE08LA4**	2	6.9	13.5	20.5	24.5	465	500	500	500	500	45	5700	-
7	1.1	18.5	550	1	79.34	IE3	**BF30-../SPE08LA4**	1.8	6.3	12.5	18.5	22.5	510	550	550	550	550	45	5900	-
7	1.1	17	600	0.94	87.08	IE3	**BF30-../SPE08LA4**	1.7	5.7	11	17	20.5	560	600	600	600	600	45	6200	-
7	1.1	15.5	670	0.85	95.79	IE3	**BF30-../SPE08LA4**	1.5	5.2	10	15.5	18.5	620	670	670	670	670	45	6400	-
7	1.1	32.5	315	2.8	45.56	IE3	**BF40-../SPE08LA4**	3.2	10.5	21.5	32.5	39.5	295	315	315	315	315	54	6800	-
7	1.1	30.5	340	2.6	48.92	IE3	**BF40-../SPE08LA4**	3	10	20	30.5	36.5	315	340	340	340	340	54	7000	-
7	1.1	27.5	375	2.4	53.82	IE3	**BF40-../SPE08LA4**	2.7	9.2	18.5	27.5	33	345	375	375	375	375	54	7200	-
7	1.1	24	425	2.1	61.25	IE3	**BF40-../SPE08LA4**	2.4	8.1	16	24	29	395	425	425	425	425	54	7600	-
7	1.1	22	470	1.9	67.38	IE3	**BF40-../SPE08LA4**	2.2	7.4	14.5	22	26.5	435	470	470	470	470	54	8000	-
7	1.1	21	495	1.8	71.4	IE3	**BF40-../SPE08LA4**	2.1	7	14	21	25	460	495	495	495	495	54	8100	-
7	1.1	19	540	1.6	78.55	IE3	**BF40-../SPE08LA4**	1.9	6.3	12.5	19	22.5	510	540	540	540	540	54	8500	-
7	1.1	17.5	580	1.5	83.91	IE3	**BF40-../SPE08LA4**	1.7	5.9	11.5	17.5	21	540	580	580	580	580	54	8700	-
7	1.1	16	640	1.4	92.31	IE3	**BF40-../SPE08LA4**	1.6	5.4	10.5	16	19	600	640	640	640	640	54	9100	-
7	1.1	14.5	700	1.3	101	IE3	**BF40-../SPE08LA4**	1.4	4.9	9.9	14.5	17.5	650	700	700	700	700	54	9400	-
7	1.1	13.5	770	1.2	111.1	IE3	**BF40-../SPE08LA4**	1.3	4.5	9	13.5	16	720	770	770	770	770	54	9800	-
7	1.1	12	870	1	124.5	IE3	**BF40-../SPE08LA4**	1.2	4	8	12	14	800	870	870	870	870	54	10200	-
7	1.1	10.5	950	0.94	137	IE3	**BF40-../SPE08LA4**	1	3.6	7.2	10.5	13	890	950	950	950	950	54	10600	-
7	1.1	10.5	980	0.91	141.4	IE3	**BF40Z-../SPE08LA4**	1	3.5	7	10.5	12.5	910	980	980	980	980	58	10600	-
7	1.1	9.6	1080	0.83	155.6	IE3	**BF40Z-../SPE08LA4**	0.95	3.2	6.4	9.6	11.5	1010	1080	1080	1080	1080	58	10600	-
7	1.1	23.5	445	2.9	63.59	IE3	**BF50-../SPE08LA4**	2.3	7.8	15.5	23.5	28	410	445	445	445	445	83	9800	-
7	1.1	20.5	500	2.6	72.72	IE3	**BF50-../SPE08LA4**	2	6.8	13.5	20.5	24.5	470	500	500	500	500	83	10700	-
7	1.1	18	560	2.3	81.33	IE3	**BF50-../SPE08LA4**	1.8	6.1	12	18	22	520	560	560	560	560	83	11300	-
7	1.1	16.5	630	2.1	90.24	IE3	**BF50-../SPE08LA4**	1.6	5.5	11	16.5	19.5	580	630	630	630	630	83	11800	-
7	1.1	14.5	700	1.8	100.9	IE3	**BF50-../SPE08LA4**	1.4	4.9	9.9	14.5	17.5	650	700	700	700	700	83	12300	-
7	1.1	13	790	1.6	114	IE3	**BF50-../SPE08LA4**	1.3	4.3	8.7	13	15.5	740	790	790	790	790	83	12900	-
7	1.1	11.5	890	1.5	127.5	IE3	**BF50-../SPE08LA4**	1.1	3.9	7.8	11.5	14	820	890	890	890	890	83	13600	-
7	1.1	10.5	960	1.3	138.1	IE3	**BF50Z-../SPE08LA4**	1	3.6	7.2	10.5	13	890	960	960	960	960	88	13600	-
7	1.1	9.7	1080	1.2	154.5	IE3	**BF50Z-../SPE08LA4**	0.95	3.2	6.4	9.7	11.5	1000	1080	1080	1080	1080	88	13600	-
7	1.1	8.1	1280	1	183.5	IE3	**BF50Z-../SPE08LA4**	0.8	2.7	5.4	8.1	9.8	1190	1280	1280	1280	1280	88	13600	-
7	1.1	7.3	1430	0.91	205.2	IE3	**BF50Z-../SPE08LA4**	0.7	2.4	4.8	7.3	8.7	1330	1430	1430	1430	1430	88	13600	-
7	1.1	10.5	980	2.3	140.8	IE3	**BF60Z-../SPE08LA4**	1	3.5	7.1	10.5	12.5	910	980	980	980	980	131	15300	43300
7	1.1	8.8	1180	1.9	169.2	IE3	**BF60Z-../SPE08LA4**	0.85	2.9	5.9	8.8	10.5	1090	1180	1180	1180	1180	131	15300	43300

BF-series shaft-mounted geared motors

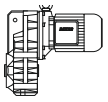
Selection - shaft-mounted geared motors - n_1 = 1500 $^1/_{min}$

MN = 7 Nm (PN = 1.1 kW)



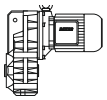
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
7	1.1	7.9	1310	1.8	187.7	IE3	**BF60Z-../SPE08LA4**	0.75	2.6	5.3	7.9	9.5	1220	1310	1310	1310	1310	131	15300	43300
7	1.1	6.7	1540	1.5	221.4	IE3	**BF60Z-../SPE08LA4**	0.65	2.2	4.5	6.7	8.1	1430	1540	1540	1540	1540	131	15300	43300
7	1.1	6.1	1710	1.3	245.6	IE3	**BF60Z-../SPE08LA4**	0.6	2	4	6.1	7.3	1590	1710	1710	1710	1710	131	15300	43300
7	1.1	5.1	2050	1.1	293.4	IE3	**BF60Z-../SPE08LA4**	0.5	1.7	3.4	5.1	6.1	1900	2050	2050	2050	2050	131	15300	43300
7	1.1	4.6	2250	1	325.6	IE3	**BF60Z-../SPE08LA4**	0.46	1.5	3	4.6	5.5	2100	2250	2250	2250	2250	131	15300	43300
7	1.1	3.9	2650	0.86	380	IE3	**BF60Z-../SPE08LA4**	0.39	1.3	2.6	3.9	4.7	2450	2650	2650	2650	2650	131	15300	43300
7	1.1	5.7	1810	2.9	258.7	IE3	**BF70Z-../SPE08LA4**	0.55	1.9	3.8	5.7	6.9	1680	1810	1810	1810	1810	220	16100	47700
7	1.1	4.9	2100	2.5	301.8	IE3	**BF70Z-../SPE08LA4**	0.49	1.6	3.3	4.9	5.9	1960	2100	2100	2100	2100	220	16100	47700
7	1.1	4.3	2350	2.2	341.7	IE3	**BF70Z-../SPE08LA4**	0.43	1.4	2.9	4.3	5.2	2200	2350	2350	2350	2350	220	16100	47700
7	1.1	3.7	2750	1.9	398.7	IE3	**BF70Z-../SPE08LA4**	0.37	1.2	2.5	3.7	4.5	2550	2750	2750	2750	2750	220	16100	47700
7	1.1	3.4	3050	1.7	439.2	IE3	**BF70Z-../SPE08LA4**	0.34	1.1	2.2	3.4	4	2850	3050	3050	3050	3050	220	16100	47700
7	1.1	2.9	3550	1.4	512.4	IE3	**BF70Z-../SPE08LA4**	0.29	0.95	1.9	2.9	3.5	3300	3550	3550	3550	3550	220	16100	47700
7	1.1	2.8	3650	1.6	524.1	IE3	**BF70G20-../SPE08LA4**	0.28	0.95	1.9	2.8	3.4	3400	3650	3650	3650	3650	217	16100	47700
7	1.1	2.5	4000	1.4	577.5	IE3	**BF70G20-../SPE08LA4**	0.25	0.85	1.7	2.5	3.1	3750	4000	4000	4000	4000	217	16100	47700
7	1.1	2.2	4700	1.2	673.6	IE3	**BF70G20-../SPE08LA4**	0.22	0.7	1.4	2.2	2.6	4350	4700	4700	4700	4700	217	16100	47700
7	1.1	1.7	6100	0.93	872.1	IE3	**BF70G20-../SPE08LA4**	0.17	0.55	1.1	1.7	2	5600	6100	6100	6100	6100	217	16100	47700
7	1.1	1.4	7100	0.8	1017	IE3	**BF70G20-../SPE08LA4**	0.14	0.49	0.95	1.4	1.7	6600	7100	7100	7100	7100	217	16100	47700
7	1.1	2.9	3550	2.9	511.2	IE3	**BF80Z-../SPE08LA4**	0.29	0.95	1.9	2.9	3.5	3300	3550	3550	3550	3550	336	39600	75000
7	1.1	2.5	4050	2.6	583.4	IE3	**BF80Z-../SPE08LA4**	0.25	0.85	1.7	2.5	3	3750	4050	4050	4050	4050	336	39600	75000
7	1.1	2.2	4600	2.3	662.1	IE3	**BF80Z-../SPE08LA4**	0.22	0.75	1.5	2.2	2.7	4300	4600	4600	4600	4600	336	39600	75000
7	1.1	1.9	5300	1.9	770.6	IE3	**BF80Z-../SPE08LA4**	0.19	0.6	1.2	1.9	2.3	5000	5300	5300	5300	5300	336	39600	75000
7	1.1	1.7	6100	1.7	874.6	IE3	**BF80Z-../SPE08LA4**	0.17	0.55	1.1	1.7	2	5600	6100	6100	6100	6100	336	39600	75000
7	1.1	1.5	6900	1.5	990.4	IE3	**BF80Z-../SPE08LA4**	0.15	0.5	1	1.5	1.8	6400	6900	6900	6900	6900	336	39600	75000
7	1.1	1.3	7800	1.3	1124	IE3	**BF80Z-../SPE08LA4**	0.13	0.44	0.85	1.3	1.6	7300	7800	7800	7800	7800	336	39600	75000
7	1.1	1.1	9300	1.1	1329	IE3	**BF80G40-../SPE08LA4**	0.11	0.37	0.75	1.1	1.3	8600	9300	9300	9300	9300	341	39600	75000
7	1.1	1	10400	1	1491	IE3	**BF80G40-../SPE08LA4**	0.1	0.33	0.65	1	1.2	9600	10400	10400	10400	10400	341	39600	75000
7	1.1	0.85	11800	0.89	1693	IE3	**BF80G40-../SPE08LA4**	0.085	0.29	0.55	0.85	1	11000	11800	11800	11800	11800	341	39600	75000
7	1.1	1.5	6800	2.7	976.1	IE3	**BF90G50-../SPE08LA4**	0.15	0.5	1	1.5	1.8	6300	6800	6800	6800	6800	612	42800	120000
7	1.1	1.4	7300	2.5	1043	IE3	**BF90G50-../SPE08LA4**	0.14	0.47	0.95	1.4	1.7	6700	7300	7300	7300	7300	612	42800	120000
7	1.1	1.2	8400	2.2	1204	IE3	**BF90G50-../SPE08LA4**	0.12	0.41	0.8	1.2	1.4	7800	8400	8400	8400	8400	612	42800	120000
7	1.1	1	10100	1.8	1444	IE3	**BF90G50-../SPE08LA4**	0.1	0.34	0.65	1	1.2	9300	10100	10100	10100	10100	612	42800	120000
7	1.1	0.85	11700	1.6	1678	IE3	**BF90G50-../SPE08LA4**	0.085	0.29	0.55	0.85	1	10900	11700	11700	11700	11700	612	42800	120000
7	1.1	0.8	13000	1.4	1867	IE3	**BF90G50-../SPE08LA4**	0.08	0.26	0.5	0.8	0.95	12100	13000	13000	13000	13000	612	42800	120000
7	1.1	0.65	15000	1.2	2154	IE3	**BF90G50-../SPE08LA4**	0.065	0.23	0.46	0.65	0.8	14000	15000	15000	15000	15000	612	42800	120000
7	1.1	0.55	18500	1	2656	IE3	**BF90G50-../SPE08LA4**	0.055	0.18	0.37	0.55	0.65	17200	18500	18500	18500	18500	612	42800	120000
7	1.1	0.5	20500	0.9	2952	IE3	**BF90G50-../SPE08LA4**	0.05	0.16	0.33	0.5	0.6	19100	20500	20500	20500	20500	612	42800	120000
7	1.1	0.45	23000	0.8	3286	IE3	**BF90G50-../SPE08LA4**	0.045	0.15	0.3	0.45	0.5	21000	23000	23000	23000	23000	612	42800	120000

MN = 10 Nm (PN = 1.55 kW)



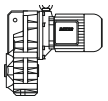
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
10	1.55	260	57	1.1	5.72	IE1	**BF06-../SSE08LA4**	26	87	174	260	310	37	45.5	57	57	57	17	1600	-
10	1.55	195	76	0.89	7.66	IE1	**BF06-../SSE08LA4**	19.5	65	130	195	230	49.5	61	76	76	76	17	1800	-
10	1.55	265	56	2.5	5.6	IE4	**BF10-../S4E09SA4**	26.5	89	178	265	320	47.5	56	56	56	56	32	1950	-
10	1.55	265	56	2.5	5.6	IE1	**BF10-../SSE08LA4**	26.5	89	178	265	320	36	44.5	56	56	56	28	1950	-
10	1.55	197	75	2	7.58	IE4	**BF10-../S4E09SA4**	19.5	65	131	197	235	64	75	75	75	75	32	2200	-
10	1.55	197	75	2	7.58	IE1	**BF10-../SSE08LA4**	19.5	65	131	197	235	49	60	75	75	75	28	2200	-
10	1.55	154	96	1.8	9.69	IE4	**BF10-../S4E09SA4**	15	51	103	154	185	82	96	96	96	96	32	2350	-
10	1.55	154	96	1.8	9.69	IE1	**BF10-../SSE08LA4**	15	51	103	154	185	62	77	96	96	96	28	2350	-
10	1.55	126	118	1.5	11.84	IE4	**BF10-../S4E09SA4**	12.5	42	84	126	152	100	118	118	118	118	32	2500	-
10	1.55	126	118	1.5	11.84	IE1	**BF10-../SSE08LA4**	12.5	42	84	126	152	76	94	118	118	118	28	2500	-
10	1.55	99	150	1.2	15.04	IE1	**BF10-../SSE08LA4**	9.9	33	66	99	119	97	120	150	150	150	28	2800	-
10	1.55	99	150	1.2	15.04	IE4	**BF10-../S4E09SA4**	9.9	33	66	99	119	127	150	150	150	150	32	2800	-
10	1.55	82	182	1.3	18.23	IE4	**BF10-../S4E09SA4**	8.2	27	54	82	98	154	182	182	182	182	32	2900	-
10	1.55	82	182	1.3	18.23	IE1	**BF10-../SSE08LA4**	8.2	27	54	82	98	118	145	182	182	182	28	2900	-
10	1.55	74	200	1.2	20.05	IE4	**BF10-../S4E09SA4**	7.4	24.5	49.5	74	89	170	200	200	200	200	32	3000	-
10	1.55	74	200	1.2	20.05	IE1	**BF10-../SSE08LA4**	7.4	24.5	49.5	74	89	130	160	200	200	200	28	3000	-
10	1.55	64	230	1	23.28	IE4	**BF10-../S4E09SA4**	6.4	21	42.5	64	77	197	230	230	230	230	32	3200	-
10	1.55	64	230	1	23.28	IE1	**BF10-../SSE08LA4**	6.4	21	42.5	64	77	151	186	230	230	230	28	3200	-
10	1.55	58	255	0.94	25.6	IE4	**BF10-../S4E09SA4**	5.8	19.5	39	58	70	215	255	255	255	255	32	3350	-
10	1.55	58	255	0.94	25.6	IE1	**BF10-../SSE08LA4**	5.8	19.5	39	58	70	166	200	255	255	255	28	3350	-
10	1.55	52	280	0.84	28.47	IE4	**BF10-../S4E09SA4**	5.2	17.5	35	52	63	240	280	280	280	280	32	3450	-
10	1.55	52	280	0.84	28.47	IE1	**BF10-../SSE08LA4**	5.2	17.5	35	52	63	185	225	280	280	280	28	3450	-
10	1.55	187	80	2.8	8	IE1	**BF20-../SSE08LA4**	18.5	62	125	187	225	52	64	80	80	80	35	2850	-
10	1.55	187	80	2.8	8	IE4	**BF20-../S4E09SA4**	18.5	62	125	187	225	68	80	80	80	80	38	2850	-
10	1.55	142	105	2.4	10.51	IE4	**BF20-../S4E09SA4**	14	47.5	95	142	171	89	105	105	105	105	38	3100	-
10	1.55	142	105	2.4	10.51	IE1	**BF20-../SSE08LA4**	14	47.5	95	142	171	68	84	105	105	105	35	3100	-
10	1.55	113	131	2.2	13.18	IE1	**BF20-../SSE08LA4**	11	37.5	75	113	136	85	105	131	131	131	35	3300	-
10	1.55	113	131	2.2	13.18	IE4	**BF20-../S4E09SA4**	11	37.5	75	113	136	112	131	131	131	131	38	3300	-
10	1.55	96	155	2	15.54	IE4	**BF20-../S4E09SA4**	9.6	32	64	96	115	132	155	155	155	155	38	3450	-
10	1.55	96	155	2	15.54	IE1	**BF20-../SSE08LA4**	9.6	32	64	96	115	101	124	155	155	155	35	3450	-

MN = 10 Nm (PN = 1.55 kW)



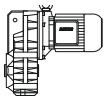
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
10	1.55	89	167	2.1	16.77	IE4	**BF20-../S4E09SA4**	8.9	29.5	59	89	107	142	167	167	167	167	38	3500	-
10	1.55	89	167	2.1	16.77	IE1	**BF20-../SSE08LA4**	8.9	29.5	59	89	107	109	134	167	167	167	35	3500	-
10	1.55	81	184	2	18.45	IE1	**BF20-../SSE08LA4**	8.1	27	54	81	97	119	147	184	184	184	35	3600	-
10	1.55	81	184	2	18.45	IE4	**BF20-../S4E09SA4**	8.1	27	54	81	97	156	184	184	184	184	38	3600	-
10	1.55	68	220	1.8	22.04	IE1	**BF20-../SSE08LA4**	6.8	22.5	45	68	81	143	176	220	220	220	35	3800	-
10	1.55	68	220	1.8	22.04	IE4	**BF20-../S4E09SA4**	6.8	22.5	45	68	81	187	220	220	220	220	38	3800	-
10	1.55	61	240	1.6	24.25	IE1	**BF20-../SSE08LA4**	6.1	20.5	41	61	74	157	194	240	240	240	35	3950	-
10	1.55	61	240	1.6	24.25	IE4	**BF20-../S4E09SA4**	6.1	20.5	41	61	74	205	240	240	240	240	38	3950	-
10	1.55	54	275	1.5	27.62	IE1	**BF20-../SSE08LA4**	5.4	18	36	54	65	179	220	275	275	275	35	4150	-
10	1.55	54	275	1.5	27.62	IE4	**BF20-../S4E09SA4**	5.4	18	36	54	65	230	275	275	275	275	38	4150	-
10	1.55	49	300	1.4	30.4	IE1	**BF20-../SSE08LA4**	4.9	16	32.5	49	59	197	240	300	300	300	35	4400	-
10	1.55	49	300	1.4	30.4	IE4	**BF20-../S4E09SA4**	4.9	16	32.5	49	59	255	300	300	300	300	38	4400	-
10	1.55	46	325	1.3	32.58	IE4	**BF20-../S4E09SA4**	4.6	15	30.5	46	55	275	325	325	325	325	38	4450	-
10	1.55	46	325	1.3	32.58	IE1	**BF20-../SSE08LA4**	4.6	15	30.5	46	55	210	260	325	325	325	35	4450	-
10	1.55	41.5	355	1.2	35.85	IE1	**BF20-../SSE08LA4**	4.1	13.5	27.5	41.5	50	230	285	355	355	355	35	4650	-
10	1.55	41.5	355	1.2	35.85	IE4	**BF20-../S4E09SA4**	4.1	13.5	27.5	41.5	50	300	355	355	355	355	38	4650	-
10	1.55	35.5	415	1	41.72	IE4	**BF20-../S4E09SA4**	3.5	11.5	23.5	35.5	43	350	415	415	415	415	38	4950	-
10	1.55	35.5	415	1	41.72	IE1	**BF20-../SSE08LA4**	3.5	11.5	23.5	35.5	43	270	330	415	415	415	35	4950	-
10	1.55	32.5	455	0.92	45.9	IE1	**BF20-../SSE08LA4**	3.2	10.5	21.5	32.5	39	295	365	455	455	455	35	5100	-
10	1.55	32.5	455	0.92	45.9	IE4	**BF20-../S4E09SA4**	3.2	10.5	21.5	32.5	39	390	455	455	455	455	38	5100	-
10	1.55	30.5	485	0.86	48.56	IE1	**BF20-../SSE08LA4**	3	10	20.5	30.5	37	315	385	485	485	485	35	5200	-
10	1.55	30.5	485	0.86	48.56	IE4	**BF20-../S4E09SA4**	3	10	20.5	30.5	37	410	485	485	485	485	38	5200	-
10	1.55	116	129	2.8	12.91	IE1	**BF30-../SSE08LA4**	11.5	38.5	77	116	139	83	103	129	129	129	45	3050	-
10	1.55	116	129	2.8	12.91	IE4	**BF30-../S4E09SA4**	11.5	38.5	77	116	139	109	129	129	129	129	49	3050	-
10	1.55	93	160	2.5	16	IE1	**BF30-../SSE08LA4**	9.3	31	62	93	112	104	128	160	160	160	45	3250	-
10	1.55	93	160	2.5	16	IE4	**BF30-../S4E09SA4**	9.3	31	62	93	112	136	160	160	160	160	49	3250	-
10	1.55	84	176	2.7	17.65	IE1	**BF30-../SSE08LA4**	8.4	28	56	84	101	114	141	176	176	176	45	3300	-
10	1.55	84	176	2.7	17.65	IE4	**BF30-../S4E09SA4**	8.4	28	56	84	101	150	176	176	176	176	49	3300	-
10	1.55	77	194	2.6	19.41	IE1	**BF30-../SSE08LA4**	7.7	25.5	51	77	92	126	155	194	194	194	45	3400	-
10	1.55	77	194	2.6	19.41	IE4	**BF30-../S4E09SA4**	7.7	25.5	51	77	92	164	194	194	194	194	49	3400	-
10	1.55	68	215	2.4	21.85	IE4	**BF30-../S4E09SA4**	6.8	22.5	45.5	68	82	185	215	215	215	215	49	3500	-
10	1.55	68	215	2.4	21.85	IE1	**BF30-../SSE08LA4**	6.8	22.5	45.5	68	82	142	174	215	215	215	45	3500	-
10	1.55	62	240	2.3	24.03	IE4	**BF30-../S4E09SA4**	6.2	20.5	41.5	62	74	200	240	240	240	240	49	3600	-
10	1.55	62	240	2.3	24.03	IE1	**BF30-../SSE08LA4**	6.2	20.5	41.5	62	74	156	192	240	240	240	45	3600	-
10	1.55	53	280	2	28.23	IE4	**BF30-../S4E09SA4**	5.3	17.5	35	53	63	235	280	280	280	280	49	3800	-
10	1.55	53	280	2	28.23	IE1	**BF30-../SSE08LA4**	5.3	17.5	35	53	63	183	225	280	280	280	45	3800	-
10	1.55	48	310	1.8	31.05	IE4	**BF30-../S4E09SA4**	4.8	16	32	48	57	260	310	310	310	310	49	4000	-
10	1.55	48	310	1.8	31.05	IE1	**BF30-../SSE08LA4**	4.8	16	32	48	57	200	245	310	310	310	45	4000	-
10	1.55	42.5	350	1.6	35	IE4	**BF30-../S4E09SA4**	4.2	14	28.5	42.5	51	295	350	350	350	350	49	4200	-
10	1.55	42.5	350	1.6	35	IE1	**BF30-../SSE08LA4**	4.2	14	28.5	42.5	51	225	280	350	350	350	45	4200	-
10	1.55	38.5	380	1.5	38.49	IE4	**BF30-../S4E09SA4**	3.8	12.5	25.5	38.5	46.5	325	380	380	380	380	49	4400	-
10	1.55	38.5	380	1.5	38.49	IE1	**BF30-../SSE08LA4**	3.8	12.5	25.5	38.5	46.5	250	305	380	380	380	45	4400	-
10	1.55	36.5	410	1.4	41.01	IE4	**BF30-../S4E09SA4**	3.6	12	24	36.5	43.5	345	410	410	410	410	49	4500	-
10	1.55	36.5	410	1.4	41.01	IE1	**BF30-../SSE08LA4**	3.6	12	24	36.5	43.5	265	325	410	410	410	45	4500	-
10	1.55	33	450	1.3	45.1	IE4	**BF30-../S4E09SA4**	3.3	11	22	33	39.5	380	450	450	450	450	49	4700	-
10	1.55	33	450	1.3	45.1	IE1	**BF30-../SSE08LA4**	3.3	11	22	33	39.5	290	360	450	450	450	45	4700	-
10	1.55	28.5	520	1.1	52.2	IE1	**BF30-../SSE08LA4**	2.8	9.5	19	28.5	34	335	415	520	520	520	45	5000	-
10	1.55	28.5	520	1.1	52.2	IE4	**BF30-../S4E09SA4**	2.8	9.5	19	28.5	34	440	520	520	520	520	49	5000	-
10	1.55	26	570	0.99	57.41	IE4	**BF30-../S4E09SA4**	2.6	8.7	17	26	31	485	570	570	570	570	49	5200	-
10	1.55	26	570	0.99	57.41	IE1	**BF30-../SSE08LA4**	2.6	8.7	17	26	31	370	455	570	570	570	45	5200	-
10	1.55	24.5	610	0.93	61.17	IE4	**BF30-../S4E09SA4**	2.4	8.1	16	24.5	29	510	610	610	610	610	49	5300	-
10	1.55	24.5	610	0.93	61.17	IE1	**BF30-../SSE08LA4**	2.4	8.1	16	24.5	29	395	485	610	610	610	45	5300	-
10	1.55	22	670	0.85	67.28	IE1	**BF30-../SSE08LA4**	2.2	7.4	14.5	22	26.5	435	530	670	670	670	45	5500	-
10	1.55	22	670	0.85	67.28	IE4	**BF30-../S4E09SA4**	2.2	7.4	14.5	22	26.5	570	670	670	670	670	49	5500	-
10	1.55	55	265	2.9	26.86	IE1	**BF40-../SSE08LA4**	5.5	18.5	37	55	67	174	210	265	265	265	54	5600	-
10	1.55	55	265	2.9	26.86	IE4	**BF40-../S4E09SA4**	5.5	18.5	37	55	67	225	265	265	265	265	58	5600	-
10	1.55	50	295	2.7	29.55	IE4	**BF40-../S4E09SA4**	5	16.5	33.5	50	60	250	295	295	295	295	58	5800	-
10	1.55	50	295	2.7	29.55	IE1	**BF40-../SSE08LA4**	5	16.5	33.5	50	60	192	235	295	295	295	54	5800	-
10	1.55	43.5	340	2.5	34.21	IE4	**BF40-../S4E09SA4**	4.3	14.5	29	43.5	52	290	340	340	340	340	58	6000	-
10	1.55	43.5	340	2.5	34.21	IE1	**BF40-../SSE08LA4**	4.3	14.5	29	43.5	52	220	270	340	340	340	54	6000	-
10	1.55	39.5	375	2.4	37.64	IE1	**BF40-../SSE08LA4**	3.9	13	26.5	39.5	47.5	240	300	375	375	375	54	6200	-
10	1.55	39.5	375	2.4	37.64	IE4	**BF40-../S4E09SA4**	3.9	13	26.5	39.5	47.5	315	375	375	375	375	58	6200	-
10	1.55	36	410	2.2	41.42	IE4	**BF40-../S4E09SA4**	3.6	12	24	36	43	350	410	410	410	410	58	6500	-
10	1.55	36	410	2.2	41.42	IE1	**BF40-../SSE08LA4**	3.6	12	24	36	43	265	330	410	410	410	54	6500	-
10	1.55	32.5	455	2	45.56	IE1	**BF40-../SSE08LA4**	3.2	10.5	21.5	32.5	39.5	295	360	455	455	455	54	6800	-
10	1.55	32.5	455	2	45.56	IE4	**BF40-../S4E09SA4**	3.2	10.5	21.5	32.5	39.5	385	455	455	455	455	58	6800	-
10	1.55	30.5	485	1.8	48.92	IE1	**BF40-../SSE08LA4**	3	10	20	30.5	36.5	315	390	485	485	485	54	7000	-
10	1.55	30.5	485	1.8	48.92	IE4	**BF40-../S4E09SA4**	3	10	20	30.5	36.5	415	485	485	485	485	58	7000	-
10	1.55	27.5	530	1.7	53.82	IE4	**BF40-../S4E09SA4**	2.7	9.2	18.5	27.5	33	455	530	530	530	530	58	7200	-
10	1.55	27.5	530	1.7	53.82	IE1	**BF40-../SSE08LA4**	2.7	9.2	18.5	27.5	33	345	430	530	530	530	54	7200	-
10	1.55	24	610	1.5	61.25	IE4	**BF40-../S4E09SA4**	2.4	8.1	16	24	29	520	610	610	610	610	58	7600	-
10	1.55	24	610	1.5	61.25	IE1	**BF40-../SSE08LA4**	2.4	8.1	16	24	29	395	490	610	610	610	54	7600	-
10	1.55	22	670	1.3	67.38	IE4	**BF40-../S4E09SA4**	2.2	7.4	14.5	22	26.5	570	670	670	670	670	58	8000	-
10	1.55	22	670	1.3	67.38	IE1	**BF40-../SSE08LA4**	2.2	7.4	14.5	22	26.5	435	530	670	670	670	54	8000	-
10	1.55	21	710	1.3	71.4	IE4	**BF40-../S4E09SA4**	2.1	7	14	21	25	600	710	710	710	710	58	8100	-
10	1.55	21	710	1.3	71.4	IE1	**BF40-../SSE08LA4**	2.1	7	14	21	25	460	570	710	710	710	54	8100	-
10	1.55	19	780	1.1	78.55	IE4	**BF40-../S4E09SA4**	1.9	6.3	12.5	19	22.5	660	780	780	780	780	58	8500	-
10	1.55	19	780	1.1	78.55	IE1	**BF40-../SSE08LA4**	1.9	6.3	12.5	19	22.5	510	620	780	780	780	54	8500	-
10	1.55	17.5	830	1.1	83.91	IE1	**BF40-../SSE08LA4**	1.7	5.9	11.5	17.5	21	540	670	830	830	830	54	8700	-
10	1.55	17.5	830	1.1	83.91	IE4	**BF40-../S4E09SA4**	1.7	5.9	11.5	17.5	21	710	830	830	830	830	58	8700	-
10	1.55	16	920	0.97	92.31	IE4	**BF40-../S4E09SA4**	1.6	5.4	10.5	16	19	780	920	920	920	920	58	9100	-

MN = 10 Nm (PN = 1.55 kW)



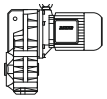
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
10	1.55	16	920	0.97	92.31	IE1	**BF40-../SSE08LA4**	1.6	5.4	10.5	16	19	600	730	920	920	920	54	9100	-
10	1.55	14.5	1010	0.89	101	IE4	**BF40-../S4E09SA4**	1.4	4.9	9.9	14.5	17.5	850	1010	1010	1010	1010	58	9400	-
10	1.55	14.5	1010	0.89	101	IE1	**BF40-../SSE08LA4**	1.4	4.9	9.9	14.5	17.5	650	800	1010	1010	1010	54	9400	-
10	1.55	13.5	1110	0.81	111.1	IE1	**BF40-../SSE08LA4**	1.3	4.5	9	13.5	16	720	880	1110	1110	1110	54	9800	-
10	1.55	13.5	1110	0.81	111.1	IE4	**BF40-../S4E09SA4**	1.3	4.5	9	13.5	16	940	1110	1110	1110	1110	58	9800	-
10	1.55	31.5	470	2.8	47.14	IE4	**BF50-../S4E09SA4**	3.1	10.5	21	31.5	38	400	470	470	470	470	86	8900	-
10	1.55	31.5	470	2.8	47.14	IE1	**BF50-../SSE08LA4**	3.1	10.5	21	31.5	38	305	375	470	470	470	83	8900	-
10	1.55	26	560	2.3	56.86	IE4	**BF50-../S4E09SA4**	2.6	8.7	17.5	26	31.5	480	560	560	560	560	86	9300	-
10	1.55	26	560	2.3	56.86	IE1	**BF50-../SSE08LA4**	2.6	8.7	17.5	26	31.5	365	450	560	560	560	83	9300	-
10	1.55	23.5	630	2	63.59	IE1	**BF50-../SSE08LA4**	2.3	7.8	15.5	23.5	28	410	500	630	630	630	83	9800	-
10	1.55	23.5	630	2	63.59	IE4	**BF50-../S4E09SA4**	2.3	7.8	15.5	23.5	28	540	630	630	630	630	86	9800	-
10	1.55	20.5	720	1.8	72.72	IE4	**BF50-../S4E09SA4**	2	6.8	13.5	20.5	24.5	610	720	720	720	720	86	10700	-
10	1.55	20.5	720	1.8	72.72	IE1	**BF50-../SSE08LA4**	2	6.8	13.5	20.5	24.5	470	580	720	720	720	83	10700	-
10	1.55	18	810	1.6	81.33	IE4	**BF50-../S4E09SA4**	1.8	6.1	12	18	22	690	810	810	810	810	86	11300	-
10	1.55	18	810	1.6	81.33	IE1	**BF50-../SSE08LA4**	1.8	6.1	12	18	22	520	650	810	810	810	83	11300	-
10	1.55	16.5	900	1.4	90.24	IE1	**BF50-../SSE08LA4**	1.6	5.5	11	16.5	19.5	580	720	900	900	900	83	11800	-
10	1.55	16.5	900	1.4	90.24	IE4	**BF50-../S4E09SA4**	1.6	5.5	11	16.5	19.5	760	900	900	900	900	86	11800	-
10	1.55	14.5	1000	1.3	100.9	IE1	**BF50-../SSE08LA4**	1.4	4.9	9.9	14.5	17.5	650	800	1000	1000	1000	83	12300	-
10	1.55	14.5	1000	1.3	100.9	IE4	**BF50-../S4E09SA4**	1.4	4.9	9.9	14.5	17.5	850	1000	1000	1000	1000	86	12300	-
10	1.55	13	1140	1.1	114	IE1	**BF50-../SSE08LA4**	1.3	4.3	8.7	13	15.5	740	910	1140	1140	1140	83	12900	-
10	1.55	13	1140	1.1	114	IE4	**BF50-../S4E09SA4**	1.3	4.3	8.7	13	15.5	960	1140	1140	1140	1140	86	12900	-
10	1.55	11.5	1270	1	127.5	IE4	**BF50-../S4E09SA4**	1.1	3.9	7.8	11.5	14	1080	1270	1270	1270	1270	86	13600	-
10	1.55	11.5	1270	1	127.5	IE1	**BF50-../SSE08LA4**	1.1	3.9	7.8	11.5	14	820	1020	1270	1270	1270	83	13600	-
10	1.55	10.5	1380	0.94	138.1	IE1	**BF50Z-../SSE08LA4**	1	3.6	7.2	10.5	13	890	1100	1380	1380	1380	88	13600	-
10	1.55	10.5	1380	0.94	138.1	IE4	**BF50Z-../S4E09SA4**	1	3.6	7.2	10.5	13	1170	1380	1380	1380	1380	91	13600	-
10	1.55	9.7	1540	0.84	154.5	IE4	**BF50Z-../S4E09SA4**	0.95	3.2	6.4	9.7	11.5	1310	1540	1540	1540	1540	91	13600	-
10	1.55	9.7	1540	0.84	154.5	IE1	**BF50Z-../SSE08LA4**	0.95	3.2	6.4	9.7	11.5	1000	1230	1540	1540	1540	88	13600	-
10	1.55	18.5	800	2.9	80.05	IE4	**BF60-../S4E09SA4**	1.8	6.2	12	18.5	22	680	800	800	800	800	116	12600	35600
10	1.55	16	930	2.5	93.44	IE4	**BF60-../S4E09SA4**	1.6	5.3	10.5	16	19	790	930	930	930	930	116	13500	38200
10	1.55	14	1030	2.2	103.7	IE4	**BF60-../S4E09SA4**	1.4	4.8	9.6	14	17	880	1030	1030	1030	1030	116	14100	39900
10	1.55	13	1130	2	113.1	IE4	**BF60-../S4E09SA4**	1.3	4.4	8.8	13	15.5	960	1130	1130	1130	1130	116	14600	41300
10	1.55	11.5	1250	1.8	125.5	IE4	**BF60-../S4E09SA4**	1.1	3.9	7.9	11.5	14	1060	1250	1250	1250	1250	116	15300	43300
10	1.55	10.5	1400	1.6	140.8	IE1	**BF60Z-../SSE08LA4**	1	3.5	7.1	10.5	12.5	910	1120	1400	1400	1400	131	15300	43300
10	1.55	10.5	1400	1.6	140.8	IE4	**BF60Z-../S4E09SA4**	1	3.5	7.1	10.5	12.5	1190	1400	1400	1400	1400	135	15300	43300
10	1.55	8.8	1690	1.4	169.2	IE4	**BF60Z-../S4E09SA4**	0.85	2.9	5.9	8.8	10.5	1430	1690	1690	1690	1690	135	15300	43300
10	1.55	8.8	1690	1.4	169.2	IE1	**BF60Z-../SSE08LA4**	0.85	2.9	5.9	8.8	10.5	1090	1350	1690	1690	1690	131	15300	43300
10	1.55	7.9	1870	1.2	187.7	IE1	**BF60Z-../SSE08LA4**	0.75	2.6	5.3	7.9	9.5	1220	1500	1870	1870	1870	131	15300	43300
10	1.55	7.9	1870	1.2	187.7	IE4	**BF60Z-../S4E09SA4**	0.75	2.6	5.3	7.9	9.5	1590	1870	1870	1870	1870	135	15300	43300
10	1.55	6.7	2200	1	221.4	IE1	**BF60Z-../SSE08LA4**	0.65	2.2	4.5	6.7	8.1	1430	1770	2200	2200	2200	131	15300	43300
10	1.55	6.7	2200	1	221.4	IE4	**BF60Z-../S4E09SA4**	0.65	2.2	4.5	6.7	8.1	1880	2200	2200	2200	2200	135	15300	43300
10	1.55	6.1	2450	0.94	245.6	IE1	**BF60Z-../SSE08LA4**	0.6	2	4	6.1	7.3	1590	1960	2450	2450	2450	131	15300	43300
10	1.55	6.1	2450	0.94	245.6	IE4	**BF60Z-../S4E09SA4**	0.6	2	4	6.1	7.3	2050	2450	2450	2450	2450	135	15300	43300
10	1.55	8.3	1790	2.9	179.7	IE4	**BF70Z-../S4E09SA4**	0.8	2.7	5.5	8.3	10	1520	1790	1790	1790	1790	223	16100	47700
10	1.55	8.3	1790	2.9	179.7	IE1	**BF70Z-../SSE08LA4**	0.8	2.7	5.5	8.3	10	1160	1430	1790	1790	1790	220	16100	47700
10	1.55	7.5	1990	2.6	199.7	IE4	**BF70Z-../S4E09SA4**	0.75	2.5	5	7.5	9	1690	1990	1990	1990	1990	223	16100	47700
10	1.55	7.5	1990	2.6	199.7	IE1	**BF70Z-../SSE08LA4**	0.75	2.5	5	7.5	9	1290	1590	1990	1990	1990	220	16100	47700
10	1.55	6.4	2300	2.2	233	IE4	**BF70Z-../S4E09SA4**	0.6	2.1	4.2	6.4	7.7	1980	2300	2300	2300	2300	223	16100	47700
10	1.55	6.4	2300	2.2	233	IE1	**BF70Z-../SSE08LA4**	0.6	2.1	4.2	6.4	7.7	1510	1860	2300	2300	2300	220	16100	47700
10	1.55	5.7	2550	2	258.7	IE1	**BF70Z-../SSE08LA4**	0.55	1.9	3.8	5.7	6.9	1680	2050	2550	2550	2550	220	16100	47700
10	1.55	5.7	2550	2	258.7	IE4	**BF70Z-../S4E09SA4**	0.55	1.9	3.8	5.7	6.9	2150	2550	2550	2550	2550	223	16100	47700
10	1.55	4.9	3000	1.7	301.8	IE1	**BF70Z-../SSE08LA4**	0.49	1.6	3.3	4.9	5.9	1960	2400	3000	3000	3000	220	16100	47700
10	1.55	4.9	3000	1.7	301.8	IE4	**BF70Z-../S4E09SA4**	0.49	1.6	3.3	4.9	5.9	2550	3000	3000	3000	3000	223	16100	47700
10	1.55	4.3	3400	1.5	341.7	IE4	**BF70Z-../S4E09SA4**	0.43	1.4	2.9	4.3	5.2	2900	3400	3400	3400	3400	223	16100	47700
10	1.55	4.3	3400	1.5	341.7	IE1	**BF70Z-../SSE08LA4**	0.43	1.4	2.9	4.3	5.2	2200	2700	3400	3400	3400	220	16100	47700
10	1.55	3.7	3950	1.3	398.7	IE1	**BF70Z-../SSE08LA4**	0.37	1.2	2.5	3.7	4.5	2550	3150	3950	3950	3950	220	16100	47700
10	1.55	3.7	3950	1.3	398.7	IE4	**BF70Z-../S4E09SA4**	0.37	1.2	2.5	3.7	4.5	3350	3950	3950	3950	3950	223	16100	47700
10	1.55	3.4	4350	1.2	439.2	IE1	**BF70Z-../SSE08LA4**	0.34	1.1	2.2	3.4	4	2850	3500	4350	4350	4350	220	16100	47700
10	1.55	3.4	4350	1.2	439.2	IE4	**BF70Z-../S4E09SA4**	0.34	1.1	2.2	3.4	4	3700	4350	4350	4350	4350	223	16100	47700
10	1.55	2.9	5100	1	512.4	IE4	**BF70Z-../S4E09SA4**	0.29	0.95	1.9	2.9	3.5	4350	5100	5100	5100	5100	223	16100	47700
10	1.55	2.9	5100	1	512.4	IE1	**BF70Z-../SSE08LA4**	0.29	0.95	1.9	2.9	3.5	3300	4050	5100	5100	5100	220	16100	47700
10	1.55	2.8	5200	1.1	524.1	IE1	**BF70G20-../SSE08LA4**	0.28	0.95	1.9	2.8	3.4	3400	4150	5200	5200	5200	217	16100	47700
10	1.55	2.8	5200	1.1	524.1	IE4	**BF70G20-../S4E09SA4**	0.28	0.95	1.9	2.8	3.4	4450	5200	5200	5200	5200	221	16100	47700
10	1.55	2.5	5700	0.99	577.5	IE4	**BF70G20-../S4E09SA4**	0.25	0.85	1.7	2.5	3.1	4900	5700	5700	5700	5700	221	16100	47700
10	1.55	2.5	5700	0.99	577.5	IE1	**BF70G20-../SSE08LA4**	0.25	0.85	1.7	2.5	3.1	3750	4600	5700	5700	5700	217	16100	47700
10	1.55	2.2	6700	0.85	673.6	IE1	**BF70G20-../SSE08LA4**	0.22	0.7	1.4	2.2	2.6	4350	5300	6700	6700	6700	217	16100	47700
10	1.55	2.2	6700	0.85	673.6	IE4	**BF70G20-../S4E09SA4**	0.22	0.7	1.4	2.2	2.6	5700	6700	6700	6700	6700	221	16100	47700
10	1.55	4.3	3450	3	347.3	IE1	**BF80Z-../SSE08LA4**	0.43	1.4	2.8	4.3	5.1	2250	2750	3450	3450	3450	336	39600	75000
10	1.55	4.3	3450	3	347.3	IE4	**BF80Z-../S4E09SA4**	0.43	1.4	2.8	4.3	5.1	2950	3450	3450	3450	3450	340	39600	75000
10	1.55	3.8	3900	2.7	394.2	IE1	**BF80Z-../SSE08LA4**	0.38	1.2	2.5	3.8	4.5	2550	3150	3900	3900	3900	336	39600	75000
10	1.55	3.8	3900	2.7	394.2	IE4	**BF80Z-../S4E09SA4**	0.38	1.2	2.5	3.8	4.5	3350	3900	3900	3900	3900	340	39600	75000
10	1.55	3.3	4500	2.3	450.4	IE4	**BF80Z-../S4E09SA4**	0.33	1.1	2.2	3.3	3.9	3800	4500	4500	4500	4500	340	39600	75000
10	1.55	3.3	4500	2.3	450.4	IE1	**BF80Z-../SSE08LA4**	0.33	1.1	2.2	3.3	3.9	2900	3600	4500	4500	4500	336	39600	75000
10	1.55	2.9	5100	2.1	511.2	IE4	**BF80Z-../S4E09SA4**	0.29	0.95	1.9	2.9	3.5	4300	5100	5100	5100	5100	340	39600	75000
10	1.55	2.9	5100	2.1	511.2	IE1	**BF80Z-../SSE08LA4**	0.29	0.95	1.9	2.9	3.5	3300	4050	5100	5100	5100	336	39600	75000
10	1.55	2.5	5800	1.8	583.4	IE1	**BF80Z-../SSE08LA4**	0.25	0.85	1.7	2.5	3	3750	4650	5800	5800	5800	336	39600	75000
10	1.55	2.5	5800	1.8	583.4	IE4	**BF80Z-../S4E09SA4**	0.25	0.85	1.7	2.5	3	4950	5800	5800	5800	5800	340	39600	75000
10	1.55	2.2	6600	1.6	662.1	IE4	**BF80Z-../S4E09SA4**	0.22	0.75	1.5	2.2	2.7	5600	6600	6600	6600	6600	340	39600	75000
10	1.55	2.2	6600	1.6	662.1	IE1	**BF80Z-../SSE08LA4**	0.22	0.75	1.5	2.2	2.7	4300	5200	6600	6600	6600	336	39600	75000
10	1.55	1.9	7700	1.4	770.6	IE1	**BF80Z-../SSE08LA4**	0.19	0.6	1.2	1.9	2.3	5000	6100	7700	7700	7700	336	39600	75000

MN = 10 Nm (PN = 1.55 kW)



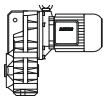
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
10	1.55	1.9	7700	1.4	770.6	IE4	**BF80Z-../S4E09SA4**	0.19	0.6	1.2	1.9	2.3	6500	7700	7700	7700	7700	340	39600	75000
10	1.55	1.7	8700	1.2	874.6	IE4	**BF80Z-../S4E09SA4**	0.17	0.55	1.1	1.7	2	7400	8700	8700	8700	8700	340	39600	75000
10	1.55	1.7	8700	1.2	874.6	IE1	**BF80Z-../SSE08LA4**	0.17	0.55	1.1	1.7	2	5600	6900	8700	8700	8700	336	39600	75000
10	1.55	1.5	9900	1.1	990.4	IE1	**BF80Z-../SSE08LA4**	0.15	0.5	1	1.5	1.8	6400	7900	9900	9900	9900	336	39600	75000
10	1.55	1.5	9900	1.1	990.4	IE4	**BF80Z-../S4E09SA4**	0.15	0.5	1	1.5	1.8	8400	9900	9900	9900	9900	340	39600	75000
10	1.55	1.3	11200	0.93	1124	IE4	**BF80Z-../S4E09SA4**	0.13	0.44	0.85	1.3	1.6	9500	11200	11200	11200	11200	340	39600	75000
10	1.55	1.3	11200	0.93	1124	IE1	**BF80Z-../SSE08LA4**	0.13	0.44	0.85	1.3	1.6	7300	8900	11200	11200	11200	336	39600	75000
10	1.55	2.2	6500	2.8	658.1	IE4	**BF90Z-../S4E09SA4**	0.22	0.75	1.5	2.2	2.7	5500	6500	6500	6500	6500	604	42800	120000
10	1.55	1.9	7500	2.4	759	IE4	**BF90Z-../S4E09SA4**	0.19	0.65	1.3	1.9	2.3	6400	7500	7500	7500	7500	604	42800	120000
10	1.55	1.7	8400	2.2	845.1	IE4	**BF90Z-../S4E09SA4**	0.17	0.55	1.1	1.7	2.1	7100	8400	8400	8400	8400	604	42800	120000
10	1.55	1.5	9700	1.9	976.1	IE1	**BF90G50-../SSE08LA4**	0.15	0.5	1	1.5	1.8	6300	7800	9700	9700	9700	612	42800	120000
10	1.55	1.5	9700	1.9	976.1	IE4	**BF90G50-../S4E09SA4**	0.15	0.5	1	1.5	1.8	8200	9700	9700	9700	9700	616	42800	120000
10	1.55	1.4	10400	1.8	1043	IE4	**BF90G50-../S4E09SA4**	0.14	0.47	0.95	1.4	1.7	8800	10400	10400	10400	10400	616	42800	120000
10	1.55	1.4	10400	1.8	1043	IE1	**BF90G50-../SSE08LA4**	0.14	0.47	0.95	1.4	1.7	6700	8300	10400	10400	10400	612	42800	120000
10	1.55	1.2	12000	1.5	1204	IE1	**BF90G50-../SSE08LA4**	0.12	0.41	0.8	1.2	1.4	7800	9600	12000	12000	12000	612	42800	120000
10	1.55	1.2	12000	1.5	1204	IE4	**BF90G50-../S4E09SA4**	0.12	0.41	0.8	1.2	1.4	10200	12000	12000	12000	12000	616	42800	120000
10	1.55	1	14400	1.3	1444	IE1	**BF90G50-../SSE08LA4**	0.1	0.34	0.65	1	1.2	9300	11500	14400	14400	14400	612	42800	120000
10	1.55	1	14400	1.3	1444	IE4	**BF90G50-../S4E09SA4**	0.1	0.34	0.65	1	1.2	12200	14400	14400	14400	14400	616	42800	120000
10	1.55	0.85	16700	1.1	1678	IE4	**BF90G50-../S4E09SA4**	0.085	0.29	0.55	0.85	1	14200	16700	16700	16700	16700	616	42800	120000
10	1.55	0.85	16700	1.1	1678	IE1	**BF90G50-../SSE08LA4**	0.085	0.29	0.55	0.85	1	10900	13400	16700	16700	16700	612	42800	120000
10	1.55	0.8	18600	0.99	1867	IE1	**BF90G50-../SSE08LA4**	0.08	0.26	0.5	0.8	0.95	12100	14900	18600	18600	18600	612	42800	120000
10	1.55	0.8	18600	0.99	1867	IE4	**BF90G50-../S4E09SA4**	0.08	0.26	0.5	0.8	0.95	15800	18600	18600	18600	18600	616	42800	120000
10	1.55	0.65	21500	0.86	2154	IE4	**BF90G50-../S4E09SA4**	0.065	0.23	0.46	0.65	0.8	18300	21500	21500	21500	21500	616	42800	120000
10	1.55	0.65	21500	0.86	2154	IE1	**BF90G50-../SSE08LA4**	0.065	0.23	0.46	0.65	0.8	14000	17200	21500	21500	21500	612	42800	120000

MN = 14 Nm (PN = 2.2 kW)



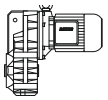
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
14	2.2	265	78	1.8	5.6	IE5	**BF10-../S5E09XA4**	26.5	89	178	265	320	72	78	78	78	78	40	1950	-
14	2.2	265	78	1.8	5.6	IE2	**BF10-../SHE09SA4**	26.5	89	178	265	320	47.5	56	78	78	78	32	1950	-
14	2.2	197	106	1.4	7.58	IE5	**BF10-../S5E09XA4**	19.5	65	131	197	235	98	106	106	106	106	40	2200	-
14	2.2	197	106	1.4	7.58	IE2	**BF10-../SHE09SA4**	19.5	65	131	197	235	64	75	106	106	106	32	2200	-
14	2.2	154	135	1.3	9.69	IE5	**BF10-../S5E09XA4**	15	51	103	154	185	125	135	135	135	135	40	2350	-
14	2.2	154	135	1.3	9.69	IE2	**BF10-../SHE09SA4**	15	51	103	154	185	82	96	135	135	135	32	2350	-
14	2.2	126	165	1.1	11.84	IE5	**BF10-../S5E09XA4**	12.5	42	84	126	152	153	165	165	165	165	40	2500	-
14	2.2	126	165	1.1	11.84	IE2	**BF10-../SHE09SA4**	12.5	42	84	126	152	100	118	165	165	165	32	2500	-
14	2.2	99	210	0.87	15.04	IE5	**BF10-../S5E09XA4**	9.9	33	66	99	119	195	210	210	210	210	40	2800	-
14	2.2	99	210	0.87	15.04	IE2	**BF10-../SHE09SA4**	9.9	33	66	99	119	127	150	210	210	210	32	2800	-
14	2.2	82	255	0.94	18.23	IE5	**BF10-../S5E09XA4**	8.2	27	54	82	98	235	255	255	255	255	40	2900	-
14	2.2	82	255	0.94	18.23	IE2	**BF10-../SHE09SA4**	8.2	27	54	82	98	154	182	255	255	255	32	2900	-
14	2.2	74	280	0.86	20.05	IE2	**BF10-../SHE09SA4**	7.4	24.5	49.5	74	89	170	200	280	280	280	32	3000	-
14	2.2	74	280	0.86	20.05	IE5	**BF10-../S5E09XA4**	7.4	24.5	49.5	74	89	260	280	280	280	280	40	3000	-
14	2.2	245	84	2.4	6.04	IE2	**BF20-../SHE09SA4**	24.5	82	165	245	295	51	60	84	84	84	38	2550	-
14	2.2	245	84	2.4	6.04	IE5	**BF20-../S5E09XA4**	24.5	82	165	245	295	78	84	84	84	84	46	2550	-
14	2.2	187	112	2	8	IE2	**BF20-../SHE09SA4**	18.5	62	125	187	225	68	80	112	112	112	38	2850	-
14	2.2	187	112	2	8	IE5	**BF20-../S5E09XA4**	18.5	62	125	187	225	104	112	112	112	112	46	2850	-
14	2.2	142	147	1.7	10.51	IE2	**BF20-../SHE09SA4**	14	47.5	95	142	171	89	105	147	147	147	38	3100	-
14	2.2	142	147	1.7	10.51	IE5	**BF20-../S5E09XA4**	14	47.5	95	142	171	136	147	147	147	147	46	3100	-
14	2.2	113	184	1.5	13.18	IE5	**BF20-../S5E09XA4**	11	37.5	75	113	136	171	184	184	184	184	46	3300	-
14	2.2	113	184	1.5	13.18	IE2	**BF20-../SHE09SA4**	11	37.5	75	113	136	112	131	184	184	184	38	3300	-
14	2.2	96	215	1.4	15.54	IE2	**BF20-../SHE09SA4**	9.6	32	64	96	115	132	155	215	215	215	38	3450	-
14	2.2	96	215	1.4	15.54	IE5	**BF20-../S5E09XA4**	9.6	32	64	96	115	200	215	215	215	215	46	3450	-
14	2.2	89	230	1.5	16.77	IE5	**BF20-../S5E09XA4**	8.9	29.5	59	89	107	215	230	230	230	230	46	3500	-
14	2.2	89	230	1.5	16.77	IE2	**BF20-../SHE09SA4**	8.9	29.5	59	89	107	142	167	230	230	230	38	3500	-
14	2.2	81	255	1.4	18.45	IE5	**BF20-../S5E09XA4**	8.1	27	54	81	97	235	255	255	255	255	46	3600	-
14	2.2	81	255	1.4	18.45	IE2	**BF20-../SHE09SA4**	8.1	27	54	81	97	156	184	255	255	255	38	3600	-
14	2.2	68	305	1.3	22.04	IE5	**BF20-../S5E09XA4**	6.8	22.5	45	68	81	285	305	305	305	305	46	3800	-
14	2.2	68	305	1.3	22.04	IE2	**BF20-../SHE09SA4**	6.8	22.5	45	68	81	187	220	305	305	305	38	3800	-
14	2.2	61	335	1.2	24.25	IE2	**BF20-../SHE09SA4**	6.1	20.5	41	61	74	205	240	335	335	335	38	3950	-
14	2.2	61	335	1.2	24.25	IE5	**BF20-../S5E09XA4**	6.1	20.5	41	61	74	315	335	335	335	335	46	3950	-
14	2.2	54	385	1.1	27.62	IE5	**BF20-../S5E09XA4**	5.4	18	36	54	65	355	385	385	385	385	46	4150	-
14	2.2	54	385	1.1	27.62	IE2	**BF20-../SHE09SA4**	5.4	18	36	54	65	230	275	385	385	385	38	4150	-
14	2.2	49	425	0.99	30.4	IE5	**BF20-../S5E09XA4**	4.9	16	32.5	49	59	395	425	425	425	425	46	4400	-
14	2.2	49	425	0.99	30.4	IE2	**BF20-../SHE09SA4**	4.9	16	32.5	49	59	255	300	425	425	425	38	4400	-
14	2.2	46	455	0.92	32.58	IE5	**BF20-../S5E09XA4**	4.6	15	30.5	46	55	420	455	455	455	455	46	4450	-
14	2.2	46	455	0.92	32.58	IE2	**BF20-../SHE09SA4**	4.6	15	30.5	46	55	275	325	455	455	455	38	4450	-
14	2.2	41.5	500	0.84	35.85	IE5	**BF20-../S5E09XA4**	4.1	13.5	27.5	41.5	50	465	500	500	500	500	46	4650	-
14	2.2	41.5	500	0.84	35.85	IE2	**BF20-../SHE09SA4**	4.1	13.5	27.5	41.5	50	300	355	500	500	500	38	4650	-
14	2.2	235	88	3	6.34	IE2	**BF30-../SHE09SA4**	23.5	78	157	235	280	53	63	88	88	88	49	2400	-
14	2.2	235	88	3	6.34	IE5	**BF30-../S5E09XA4**	23.5	78	157	235	280	82	88	88	88	88	57	2400	-
14	2.2	185	112	2.5	8.07	IE2	**BF30-../SHE09SA4**	18.5	61	123	185	220	68	80	112	112	112	49	2650	-
14	2.2	185	112	2.5	8.07	IE5	**BF30-../S5E09XA4**	18.5	61	123	185	220	104	112	112	112	112	57	2650	-
14	2.2	150	139	2.3	9.99	IE5	**BF30-../S5E09XA4**	15	50	100	150	180	129	139	139	139	139	57	2850	-
14	2.2	150	139	2.3	9.99	IE2	**BF30-../SHE09SA4**	15	50	100	150	180	84	99	139	139	139	49	2850	-

MN = 14 Nm (PN = 2.2 kW)



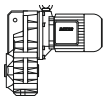
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
14	2.2	116	180	2	12.91	IE2	**BF30-../SHE09SA4**	11.5	38.5	77	116	139	109	129	180	180	180	49	3050	-
14	2.2	116	180	2	12.91	IE5	**BF30-../S5E09XA4**	11.5	38.5	77	116	139	167	180	180	180	180	57	3050	-
14	2.2	93	220	1.8	16	IE5	**BF30-../S5E09XA4**	9.3	31	62	93	112	205	220	220	220	220	57	3250	-
14	2.2	93	220	1.8	16	IE2	**BF30-../SHE09SA4**	9.3	31	62	93	112	136	160	220	220	220	49	3250	-
14	2.2	84	245	1.9	17.65	IE5	**BF30-../S5E09XA4**	8.4	28	56	84	101	225	245	245	245	245	57	3300	-
14	2.2	84	245	1.9	17.65	IE2	**BF30-../SHE09SA4**	8.4	28	56	84	101	150	176	245	245	245	49	3300	-
14	2.2	77	270	1.8	19.41	IE5	**BF30-../S5E09XA4**	7.7	25.5	51	77	92	250	270	270	270	270	57	3400	-
14	2.2	77	270	1.8	19.41	IE2	**BF30-../SHE09SA4**	7.7	25.5	51	77	92	164	194	270	270	270	49	3400	-
14	2.2	68	305	1.7	21.85	IE5	**BF30-../S5E09XA4**	6.8	22.5	45.5	68	82	280	305	305	305	305	57	3500	-
14	2.2	68	305	1.7	21.85	IE2	**BF30-../SHE09SA4**	6.8	22.5	45.5	68	82	185	215	305	305	305	49	3500	-
14	2.2	62	335	1.6	24.03	IE5	**BF30-../S5E09XA4**	6.2	20.5	41.5	62	74	310	335	335	335	335	57	3600	-
14	2.2	62	335	1.6	24.03	IE2	**BF30-../SHE09SA4**	6.2	20.5	41.5	62	74	200	240	335	335	335	49	3600	-
14	2.2	53	395	1.4	28.23	IE2	**BF30-../SHE09SA4**	5.3	17.5	35	53	63	235	280	395	395	395	49	3800	-
14	2.2	53	395	1.4	28.23	IE5	**BF30-../S5E09XA4**	5.3	17.5	35	53	63	365	395	395	395	395	57	3800	-
14	2.2	48	430	1.3	31.05	IE2	**BF30-../SHE09SA4**	4.8	16	32	48	57	260	310	430	430	430	49	4000	-
14	2.2	48	430	1.3	31.05	IE5	**BF30-../S5E09XA4**	4.8	16	32	48	57	400	430	430	430	430	57	4000	-
14	2.2	42.5	490	1.2	35	IE2	**BF30-../SHE09SA4**	4.2	14	28.5	42.5	51	295	350	490	490	490	49	4200	-
14	2.2	42.5	490	1.2	35	IE5	**BF30-../S5E09XA4**	4.2	14	28.5	42.5	51	455	490	490	490	490	57	4200	-
14	2.2	38.5	530	1.1	38.49	IE5	**BF30-../S5E09XA4**	3.8	12.5	25.5	38.5	46.5	500	530	530	530	530	57	4400	-
14	2.2	38.5	530	1.1	38.49	IE2	**BF30-../SHE09SA4**	3.8	12.5	25.5	38.5	46.5	325	380	530	530	530	49	4400	-
14	2.2	36.5	570	0.99	41.01	IE2	**BF30-../SHE09SA4**	3.6	12	24	36.5	43.5	345	410	570	570	570	49	4500	-
14	2.2	36.5	570	0.99	41.01	IE5	**BF30-../S5E09XA4**	3.6	12	24	36.5	43.5	530	570	570	570	570	57	4500	-
14	2.2	33	630	0.9	45.1	IE2	**BF30-../SHE09SA4**	3.3	11	22	33	39.5	380	450	630	630	630	49	4700	-
14	2.2	33	630	0.9	45.1	IE5	**BF30-../S5E09XA4**	3.3	11	22	33	39.5	580	630	630	630	630	57	4700	-
14	2.2	127	165	2.8	11.79	IE5	**BF40-../S5E09XA4**	12.5	42	84	127	152	153	165	165	165	165	66	4450	-
14	2.2	127	165	2.8	11.79	IE2	**BF40-../SHE09SA4**	12.5	42	84	127	152	100	117	165	165	165	58	4450	-
14	2.2	99	210	2.5	15.02	IE5	**BF40-../S5E09XA4**	9.9	33	66	99	119	195	210	210	210	210	66	4800	-
14	2.2	99	210	2.5	15.02	IE2	**BF40-../SHE09SA4**	9.9	33	66	99	119	127	150	210	210	210	58	4800	-
14	2.2	86	240	2.6	17.35	IE2	**BF40-../SHE09SA4**	8.6	28.5	57	86	103	147	173	240	240	240	58	4950	-
14	2.2	86	240	2.6	17.35	IE5	**BF40-../S5E09XA4**	8.6	28.5	57	86	103	225	240	240	240	240	66	4950	-
14	2.2	78	265	2.5	19.09	IE2	**BF40-../SHE09SA4**	7.8	26	52	78	94	162	190	265	265	265	58	5100	-
14	2.2	78	265	2.5	19.09	IE5	**BF40-../S5E09XA4**	7.8	26	52	78	94	245	265	265	265	265	66	5100	-
14	2.2	69	300	2.3	21.6	IE2	**BF40-../SHE09SA4**	6.9	23	46	69	83	183	215	300	300	300	58	5200	-
14	2.2	69	300	2.3	21.6	IE5	**BF40-../S5E09XA4**	6.9	23	46	69	83	280	300	300	300	300	66	5200	-
14	2.2	63	330	2.2	23.77	IE2	**BF40-../SHE09SA4**	6.3	21	42	63	75	200	235	330	330	330	58	5400	-
14	2.2	63	330	2.2	23.77	IE5	**BF40-../S5E09XA4**	6.3	21	42	63	75	305	330	330	330	330	66	5400	-
14	2.2	55	375	2	26.86	IE5	**BF40-../S5E09XA4**	5.5	18.5	37	55	67	345	375	375	375	375	66	5600	-
14	2.2	55	375	2	26.86	IE2	**BF40-../SHE09SA4**	5.5	18.5	37	55	67	225	265	375	375	375	58	5600	-
14	2.2	50	410	1.9	29.55	IE2	**BF40-../SHE09SA4**	5	16.5	33.5	50	60	250	295	410	410	410	58	5800	-
14	2.2	50	410	1.9	29.55	IE5	**BF40-../S5E09XA4**	5	16.5	33.5	50	60	380	410	410	410	410	66	5800	-
14	2.2	43.5	475	1.8	34.21	IE5	**BF40-../S5E09XA4**	4.3	14.5	29	43.5	52	440	475	475	475	475	66	6000	-
14	2.2	43.5	475	1.8	34.21	IE2	**BF40-../SHE09SA4**	4.3	14.5	29	43.5	52	290	340	475	475	475	58	6000	-
14	2.2	39.5	520	1.7	37.64	IE5	**BF40-../S5E09XA4**	3.9	13	26.5	39.5	47.5	485	520	520	520	520	66	6200	-
14	2.2	39.5	520	1.7	37.64	IE2	**BF40-../SHE09SA4**	3.9	13	26.5	39.5	47.5	315	375	520	520	520	58	6200	-
14	2.2	36	570	1.6	41.42	IE5	**BF40-../S5E09XA4**	3.6	12	24	36	43	530	570	570	570	570	66	6500	-
14	2.2	36	570	1.6	41.42	IE2	**BF40-../SHE09SA4**	3.6	12	24	36	43	350	410	570	570	570	58	6500	-
14	2.2	32.5	630	1.4	45.56	IE5	**BF40-../S5E09XA4**	3.2	10.5	21.5	32.5	39.5	590	630	630	630	630	66	6800	-
14	2.2	32.5	630	1.4	45.56	IE2	**BF40-../SHE09SA4**	3.2	10.5	21.5	32.5	39.5	385	455	630	630	630	58	6800	-
14	2.2	30.5	680	1.3	48.92	IE2	**BF40-../SHE09SA4**	3	10	20	30.5	36.5	415	485	680	680	680	58	7000	-
14	2.2	30.5	680	1.3	48.92	IE5	**BF40-../S5E09XA4**	3	10	20	30.5	36.5	630	680	680	680	680	66	7000	-
14	2.2	27.5	750	1.2	53.82	IE5	**BF40-../S5E09XA4**	2.7	9.2	18.5	27.5	33	690	750	750	750	750	66	7200	-
14	2.2	27.5	750	1.2	53.82	IE2	**BF40-../SHE09SA4**	2.7	9.2	18.5	27.5	33	455	530	750	750	750	58	7200	-
14	2.2	24	850	1	61.25	IE5	**BF40-../S5E09XA4**	2.4	8.1	16	24	29	790	850	850	850	850	66	7600	-
14	2.2	24	850	1	61.25	IE2	**BF40-../SHE09SA4**	2.4	8.1	16	24	29	520	610	850	850	850	58	7600	-
14	2.2	22	940	0.95	67.38	IE5	**BF40-../S5E09XA4**	2.2	7.4	14.5	22	26.5	870	940	940	940	940	66	8000	-
14	2.2	22	940	0.95	67.38	IE2	**BF40-../SHE09SA4**	2.2	7.4	14.5	22	26.5	570	670	940	940	940	58	8000	-
14	2.2	21	990	0.9	71.4	IE5	**BF40-../S5E09XA4**	2.1	7	14	21	25	920	990	990	990	990	66	8100	-
14	2.2	21	990	0.9	71.4	IE2	**BF40-../SHE09SA4**	2.1	7	14	21	25	600	710	990	990	990	58	8100	-
14	2.2	19	1090	0.82	78.55	IE5	**BF40-../S5E09XA4**	1.9	6.3	12.5	19	22.5	1020	1090	1090	1090	1090	66	8500	-
14	2.2	19	1090	0.82	78.55	IE2	**BF40-../SHE09SA4**	1.9	6.3	12.5	19	22.5	660	780	1090	1090	1090	58	8500	-
14	2.2	47	440	2.8	31.73	IE2	**BF50-../SHE09SA4**	4.7	15.5	31.5	47	56	265	315	440	440	440	86	7500	-
14	2.2	47	440	2.8	31.73	IE5	**BF50-../S5E09XA4**	4.7	15.5	31.5	47	56	410	440	440	440	440	94	7500	-
14	2.2	42	495	2.6	35.49	IE2	**BF50-../SHE09SA4**	4.2	14	28	42	50	300	350	495	495	495	86	7800	-
14	2.2	42	495	2.6	35.49	IE5	**BF50-../S5E09XA4**	4.2	14	28	42	50	460	495	495	495	495	94	7800	-
14	2.2	35.5	590	2.2	42.15	IE2	**BF50-../SHE09SA4**	3.5	11.5	23.5	35.5	42.5	355	420	590	590	590	86	8500	-
14	2.2	35.5	590	2.2	42.15	IE5	**BF50-../S5E09XA4**	3.5	11.5	23.5	35.5	42.5	540	590	590	590	590	94	8500	-
14	2.2	31.5	650	2	47.14	IE5	**BF50-../S5E09XA4**	3.1	10.5	21	31.5	38	610	650	650	650	650	94	8900	-
14	2.2	31.5	650	2	47.14	IE2	**BF50-../SHE09SA4**	3.1	10.5	21	31.5	38	400	470	650	650	650	86	8900	-
14	2.2	26	790	1.6	56.86	IE5	**BF50-../S5E09XA4**	2.6	8.7	17.5	26	31.5	730	790	790	790	790	94	9300	-
14	2.2	26	790	1.6	56.86	IE2	**BF50-../SHE09SA4**	2.6	8.7	17.5	26	31.5	480	560	790	790	790	86	9300	-
14	2.2	23.5	890	1.5	63.59	IE5	**BF50-../S5E09XA4**	2.3	7.8	15.5	23.5	28	820	890	890	890	890	94	9800	-
14	2.2	23.5	890	1.5	63.59	IE2	**BF50-../SHE09SA4**	2.3	7.8	15.5	23.5	28	540	630	890	890	890	86	9800	-
14	2.2	20.5	1010	1.3	72.72	IE5	**BF50-../S5E09XA4**	2	6.8	13.5	20.5	24.5	940	1010	1010	1010	1010	94	10700	-
14	2.2	20.5	1010	1.3	72.72	IE2	**BF50-../SHE09SA4**	2	6.8	13.5	20.5	24.5	610	720	1010	1010	1010	86	10700	-
14	2.2	18	1130	1.1	81.33	IE2	**BF50-../SHE09SA4**	1.8	6.1	12	18	22	690	810	1130	1130	1130	86	11300	-
14	2.2	18	1130	1.1	81.33	IE5	**BF50-../S5E09XA4**	1.8	6.1	12	18	22	1050	1130	1130	1130	1130	94	11300	-
14	2.2	16.5	1260	1	90.24	IE2	**BF50-../SHE09SA4**	1.6	5.5	11	16.5	19.5	760	900	1260	1260	1260	86	11800	-
14	2.2	16.5	1260	1	90.24	IE5	**BF50-../S5E09XA4**	1.6	5.5	11	16.5	19.5	1170	1260	1260	1260	1260	94	11800	-
14	2.2	14.5	1410	0.92	100.9	IE5	**BF50-../S5E09XA4**	1.4	4.9	9.9	14.5	17.5	1310	1410	1410	1410	1410	94	12300	-
14	2.2	14.5	1410	0.92	100.9	IE2	**BF50-../SHE09SA4**	1.4	4.9	9.9	14.5	17.5	850	1000	1410	1410	1410	86	12300	-
14	2.2	13	1590	0.81	114	IE2	**BF50-../SHE09SA4**	1.3	4.3	8.7	13	15.5	960	1140	1590	1590	1590	86	12900	-

MN = 14 Nm (PN = 2.2 kW)



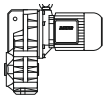
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
14	2.2	13	1590	0.81	114	IE5	**BF50-../S5E09XA4**	1.3	4.3	8.7	13	15.5	1480	1590	1590	1590	1590	94	12900	-
14	2.2	27.5	760	3	54.44	IE5	**BF60-../S5E09XA4**	2.7	9.1	18	27.5	33	700	760	760	760	760	124	10500	29700
14	2.2	27.5	760	3	54.44	IE2	**BF60-../SHE09SA4**	2.7	9.1	18	27.5	33	460	540	760	760	760	116	10500	29700
14	2.2	24.5	840	2.7	60.4	IE5	**BF60-../S5E09XA4**	2.4	8.2	16.5	24.5	29.5	780	840	840	840	840	124	11100	31400
14	2.2	24.5	840	2.7	60.4	IE2	**BF60-../SHE09SA4**	2.4	8.2	16.5	24.5	29.5	510	600	840	840	840	116	11100	31400
14	2.2	20.5	1010	2.3	72.15	IE2	**BF60-../SHE09SA4**	2	6.9	13.5	20.5	24.5	610	720	1010	1010	1010	116	12000	34000
14	2.2	20.5	1010	2.3	72.15	IE5	**BF60-../S5E09XA4**	2	6.9	13.5	20.5	24.5	930	1010	1010	1010	1010	124	12000	34000
14	2.2	18.5	1120	2.1	80.05	IE2	**BF60-../SHE09SA4**	1.8	6.2	12	18.5	22	680	800	1120	1120	1120	116	12600	35600
14	2.2	18.5	1120	2.1	80.05	IE5	**BF60-../S5E09XA4**	1.8	6.2	12	18.5	22	1040	1120	1120	1120	1120	124	12600	35600
14	2.2	16	1300	1.8	93.44	IE5	**BF60-../S5E09XA4**	1.6	5.3	10.5	16	19	1210	1300	1300	1300	1300	124	13500	38200
14	2.2	16	1300	1.8	93.44	IE2	**BF60-../SHE09SA4**	1.6	5.3	10.5	16	19	790	930	1300	1300	1300	116	13500	38200
14	2.2	14	1450	1.6	103.7	IE5	**BF60-../S5E09XA4**	1.4	4.8	9.6	14	17	1340	1450	1450	1450	1450	124	14100	39900
14	2.2	14	1450	1.6	103.7	IE2	**BF60-../SHE09SA4**	1.4	4.8	9.6	14	17	880	1030	1450	1450	1450	116	14100	39900
14	2.2	13	1580	1.5	113.1	IE5	**BF60-../S5E09XA4**	1.3	4.4	8.8	13	15.5	1470	1580	1580	1580	1580	124	14600	41300
14	2.2	13	1580	1.5	113.1	IE2	**BF60-../SHE09SA4**	1.3	4.4	8.8	13	15.5	960	1130	1580	1580	1580	116	14600	41300
14	2.2	11.5	1750	1.3	125.5	IE2	**BF60-../SHE09SA4**	1.1	3.9	7.9	11.5	14	1060	1250	1750	1750	1750	116	15300	43300
14	2.2	11.5	1750	1.3	125.5	IE5	**BF60-../S5E09XA4**	1.1	3.9	7.9	11.5	14	1630	1750	1750	1750	1750	124	15300	43300
14	2.2	10.5	1970	1.2	140.8	IE5	**BF60Z-../S5E09XA4**	1	3.5	7.1	10.5	12.5	1830	1970	1970	1970	1970	143	15300	43300
14	2.2	10.5	1970	1.2	140.8	IE2	**BF60Z-../SHE09SA4**	1	3.5	7.1	10.5	12.5	1190	1400	1970	1970	1970	135	15300	43300
14	2.2	8.8	2350	0.97	169.2	IE2	**BF60Z-../SHE09SA4**	0.85	2.9	5.9	8.8	10.5	1430	1690	2350	2350	2350	135	15300	43300
14	2.2	8.8	2350	0.97	169.2	IE5	**BF60Z-../S5E09XA4**	0.85	2.9	5.9	8.8	10.5	2150	2350	2350	2350	2350	143	15300	43300
14	2.2	7.9	2600	0.88	187.7	IE2	**BF60Z-../SHE09SA4**	0.75	2.6	5.3	7.9	9.5	1590	1870	2600	2600	2600	135	15300	43300
14	2.2	7.9	2600	0.88	187.7	IE5	**BF60Z-../S5E09XA4**	0.75	2.6	5.3	7.9	9.5	2400	2600	2600	2600	2600	143	15300	43300
14	2.2	12	1710	3	122.7	IE2	**BF70-../SHE09SA4**	1.2	4	8.1	12	14.5	1040	1220	1710	1710	1710	202	16100	47700
14	2.2	12	1710	3	122.7	IE5	**BF70-../S5E09XA4**	1.2	4	8.1	12	14.5	1590	1710	1710	1710	1710	210	16100	47700
14	2.2	11	1860	2.8	133	IE5	**BF70Z-../S5E09XA4**	1.1	3.7	7.5	11	13.5	1720	1860	1860	1860	1860	231	16100	47700
14	2.2	11	1860	2.8	133	IE2	**BF70Z-../SHE09SA4**	1.1	3.7	7.5	11	13.5	1130	1330	1860	1860	1860	223	16100	47700
14	2.2	9.7	2150	2.4	154	IE5	**BF70Z-../S5E09XA4**	0.95	3.2	6.4	9.7	11.5	2000	2150	2150	2150	2150	231	16100	47700
14	2.2	9.7	2150	2.4	154	IE2	**BF70Z-../SHE09SA4**	0.95	3.2	6.4	9.7	11.5	1300	1540	2150	2150	2150	223	16100	47700
14	2.2	8.3	2500	2.1	179.7	IE5	**BF70Z-../S5E09XA4**	0.8	2.7	5.5	8.3	10	2300	2500	2500	2500	2500	231	16100	47700
14	2.2	8.3	2500	2.1	179.7	IE2	**BF70Z-../SHE09SA4**	0.8	2.7	5.5	8.3	10	1520	1790	2500	2500	2500	223	16100	47700
14	2.2	7.5	2750	1.9	199.7	IE2	**BF70Z-../SHE09SA4**	0.75	2.5	5	7.5	9	1690	1990	2750	2750	2750	223	16100	47700
14	2.2	7.5	2750	1.9	199.7	IE5	**BF70Z-../S5E09XA4**	0.75	2.5	5	7.5	9	2550	2750	2750	2750	2750	231	16100	47700
14	2.2	6.4	3250	1.6	233	IE5	**BF70Z-../S5E09XA4**	0.6	2.1	4.2	6.4	7.7	3000	3250	3250	3250	3250	231	16100	47700
14	2.2	6.4	3250	1.6	233	IE2	**BF70Z-../SHE09SA4**	0.6	2.1	4.2	6.4	7.7	1980	2300	3250	3250	3250	223	16100	47700
14	2.2	5.7	3600	1.4	258.7	IE5	**BF70Z-../S5E09XA4**	0.55	1.9	3.8	5.7	6.9	3350	3600	3600	3600	3600	231	16100	47700
14	2.2	5.7	3600	1.4	258.7	IE2	**BF70Z-../SHE09SA4**	0.55	1.9	3.8	5.7	6.9	2150	2550	3600	3600	3600	223	16100	47700
14	2.2	4.9	4200	1.2	301.8	IE5	**BF70Z-../S5E09XA4**	0.49	1.6	3.3	4.9	5.9	3900	4200	4200	4200	4200	231	16100	47700
14	2.2	4.9	4200	1.2	301.8	IE2	**BF70Z-../SHE09SA4**	0.49	1.6	3.3	4.9	5.9	2550	3000	4200	4200	4200	223	16100	47700
14	2.2	4.3	4750	1.1	341.7	IE5	**BF70Z-../S5E09XA4**	0.43	1.4	2.9	4.3	5.2	4400	4750	4750	4750	4750	231	16100	47700
14	2.2	4.3	4750	1.1	341.7	IE2	**BF70Z-../SHE09SA4**	0.43	1.4	2.9	4.3	5.2	2900	3400	4750	4750	4750	223	16100	47700
14	2.2	3.7	5500	0.93	398.7	IE5	**BF70Z-../S5E09XA4**	0.37	1.2	2.5	3.7	4.5	5100	5500	5500	5500	5500	231	16100	47700
14	2.2	3.7	5500	0.93	398.7	IE2	**BF70Z-../SHE09SA4**	0.37	1.2	2.5	3.7	4.5	3350	3950	5500	5500	5500	223	16100	47700
14	2.2	3.4	6100	0.85	439.2	IE5	**BF70Z-../S5E09XA4**	0.34	1.1	2.2	3.4	4	5700	6100	6100	6100	6100	231	16100	47700
14	2.2	3.4	6100	0.85	439.2	IE2	**BF70Z-../SHE09SA4**	0.34	1.1	2.2	3.4	4	3700	4350	6100	6100	6100	223	16100	47700
14	2.2	6.3	3300	2.9	237.1	IE5	**BF80-../S5E09XA4**	0.6	2.1	4.2	6.3	7.5	3050	3300	3300	3300	3300	307	36900	75000
14	2.2	6.3	3300	2.9	237.1	IE2	**BF80-../SHE09SA4**	0.6	2.1	4.2	6.3	7.5	2000	2350	3300	3300	3300	299	36900	75000
14	2.2	5.5	3750	2.5	269.1	IE5	**BF80-../S5E09XA4**	0.55	1.8	3.7	5.5	6.6	3450	3750	3750	3750	3750	307	39600	75000
14	2.2	5.5	3750	2.5	269.1	IE2	**BF80-../SHE09SA4**	0.55	1.8	3.7	5.5	6.6	2250	2650	3750	3750	3750	299	39600	75000
14	2.2	5.1	4050	2.6	291.7	IE2	**BF80Z-../SHE09SA4**	0.5	1.7	3.4	5.1	6.1	2450	2900	4050	4050	4050	340	39600	75000
14	2.2	5.1	4050	2.6	291.7	IE5	**BF80Z-../S5E09XA4**	0.5	1.7	3.4	5.1	6.1	3750	4050	4050	4050	4050	348	39600	75000
14	2.2	4.3	4850	2.2	347.3	IE2	**BF80Z-../SHE09SA4**	0.43	1.4	2.8	4.3	5.1	2950	3450	4850	4850	4850	340	39600	75000
14	2.2	4.3	4850	2.2	347.3	IE5	**BF80Z-../S5E09XA4**	0.43	1.4	2.8	4.3	5.1	4500	4850	4850	4850	4850	348	39600	75000
14	2.2	3.8	5500	1.9	394.2	IE5	**BF80Z-../S5E09XA4**	0.38	1.2	2.5	3.8	4.5	5100	5500	5500	5500	5500	348	39600	75000
14	2.2	3.8	5500	1.9	394.2	IE2	**BF80Z-../SHE09SA4**	0.38	1.2	2.5	3.8	4.5	3350	3900	5500	5500	5500	340	39600	75000
14	2.2	3.3	6300	1.7	450.4	IE2	**BF80Z-../SHE09SA4**	0.33	1.1	2.2	3.3	3.9	3800	4500	6300	6300	6300	340	39600	75000
14	2.2	3.3	6300	1.7	450.4	IE5	**BF80Z-../S5E09XA4**	0.33	1.1	2.2	3.3	3.9	5800	6300	6300	6300	6300	348	39600	75000
14	2.2	2.9	7100	1.5	511.2	IE5	**BF80Z-../S5E09XA4**	0.29	0.95	1.9	2.9	3.5	6600	7100	7100	7100	7100	348	39600	75000
14	2.2	2.9	7100	1.5	511.2	IE2	**BF80Z-../SHE09SA4**	0.29	0.95	1.9	2.9	3.5	4300	5100	7100	7100	7100	340	39600	75000
14	2.2	2.5	8100	1.3	583.4	IE5	**BF80Z-../S5E09XA4**	0.25	0.85	1.7	2.5	3	7500	8100	8100	8100	8100	348	39600	75000
14	2.2	2.5	8100	1.3	583.4	IE2	**BF80Z-../SHE09SA4**	0.25	0.85	1.7	2.5	3	4950	5800	8100	8100	8100	340	39600	75000
14	2.2	2.2	9200	1.1	662.1	IE5	**BF80Z-../S5E09XA4**	0.22	0.75	1.5	2.2	2.7	8600	9200	9200	9200	9200	348	39600	75000
14	2.2	2.2	9200	1.1	662.1	IE2	**BF80Z-../SHE09SA4**	0.22	0.75	1.5	2.2	2.7	5600	6600	9200	9200	9200	340	39600	75000
14	2.2	1.9	10700	0.97	770.6	IE5	**BF80Z-../S5E09XA4**	0.19	0.6	1.2	1.9	2.3	10000	10700	10700	10700	10700	348	39600	75000
14	2.2	1.9	10700	0.97	770.6	IE2	**BF80Z-../SHE09SA4**	0.19	0.6	1.2	1.9	2.3	6500	7700	10700	10700	10700	340	39600	75000
14	2.2	1.7	12200	0.86	874.6	IE5	**BF80Z-../S5E09XA4**	0.17	0.55	1.1	1.7	2	11300	12200	12200	12200	12200	348	39600	75000
14	2.2	1.7	12200	0.86	874.6	IE2	**BF80Z-../SHE09SA4**	0.17	0.55	1.1	1.7	2	7400	8700	12200	12200	12200	340	39600	75000
14	2.2	3.2	6300	2.9	456.7	IE2	**BF90Z-../SHE09SA4**	0.32	1	2.1	3.2	3.9	3850	4550	6300	6300	6300	604	42800	120000
14	2.2	3.2	6300	2.9	456.7	IE5	**BF90Z-../S5E09XA4**	0.32	1	2.1	3.2	3.9	5900	6300	6300	6300	6300	612	42800	120000
14	2.2	2.9	7100	2.6	508.5	IE5	**BF90Z-../S5E09XA4**	0.29	0.95	1.9	2.9	3.5	6600	7100	7100	7100	7100	612	42800	120000
14	2.2	2.9	7100	2.6	508.5	IE2	**BF90Z-../SHE09SA4**	0.29	0.95	1.9	2.9	3.5	4300	5000	7100	7100	7100	604	42800	120000
14	2.2	2.5	8200	2.2	591.1	IE5	**BF90Z-../S5E09XA4**	0.25	0.8	1.6	2.5	3	7600	8200	8200	8200	8200	612	42800	120000
14	2.2	2.5	8200	2.2	591.1	IE2	**BF90Z-../SHE09SA4**	0.25	0.8	1.6	2.5	3	5000	5900	8200	8200	8200	604	42800	120000
14	2.2	2.2	9200	2	658.1	IE5	**BF90Z-../S5E09XA4**	0.22	0.75	1.5	2.2	2.7	8500	9200	9200	9200	9200	612	42800	120000
14	2.2	2.2	9200	2	658.1	IE2	**BF90Z-../SHE09SA4**	0.22	0.75	1.5	2.2	2.7	5500	6500	9200	9200	9200	604	42800	120000
14	2.2	1.9	10600	1.7	759	IE5	**BF90Z-../S5E09XA4**	0.19	0.65	1.3	1.9	2.3	9800	10600	10600	10600	10600	612	42800	120000
14	2.2	1.9	10600	1.7	759	IE2	**BF90Z-../SHE09SA4**	0.19	0.65	1.3	1.9	2.3	6400	7500	10600	10600	10600	604	42800	120000
14	2.2	1.7	11800	1.6	845.1	IE5	**BF90Z-../S5E09XA4**	0.17	0.55	1.1	1.7	2.1	10900	11800	11800	11800	11800	612	42800	120000
14	2.2	1.7	11800	1.6	845.1	IE2	**BF90Z-../SHE09SA4**	0.17	0.55	1.1	1.7	2.1	7100	8400	11800	11800	11800	604	42800	120000

MN = 14 Nm (PN = 2.2 kW)



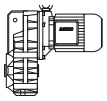
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
14	2.2	1.5	13600	1.4	976.1	IE2	**BF90G50-../SHE09SA4**	0.15	0.5	1	1.5	1.8	8200	9700	13600	13600	13600	616	42800	120000
14	2.2	1.5	13600	1.4	976.1	IE5	**BF90G50-../S5E09XA4**	0.15	0.5	1	1.5	1.8	12600	13600	13600	13600	13600	624	42800	120000
14	2.2	1.4	14600	1.3	1043	IE5	**BF90G50-../S5E09XA4**	0.14	0.47	0.95	1.4	1.7	13500	14600	14600	14600	14600	624	42800	120000
14	2.2	1.4	14600	1.3	1043	IE2	**BF90G50-../SHE09SA4**	0.14	0.47	0.95	1.4	1.7	8800	10400	14600	14600	14600	616	42800	120000
14	2.2	1.2	16800	1.1	1204	IE2	**BF90G50-../SHE09SA4**	0.12	0.41	0.8	1.2	1.4	10200	12000	16800	16800	16800	616	42800	120000
14	2.2	1.2	16800	1.1	1204	IE5	**BF90G50-../S5E09XA4**	0.12	0.41	0.8	1.2	1.4	15600	16800	16800	16800	16800	624	42800	120000
14	2.2	1	20000	0.92	1444	IE2	**BF90G50-../SHE09SA4**	0.1	0.34	0.65	1	1.2	12200	14400	20000	20000	20000	616	42800	120000
14	2.2	1	20000	0.92	1444	IE5	**BF90G50-../S5E09XA4**	0.1	0.34	0.65	1	1.2	18700	20000	20000	20000	20000	624	42800	120000

MN = 19 Nm (PN = 3 kW)



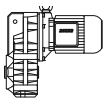
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
19	3	235	120	2.2	6.34	IE4	**BF30-../S4E11SA6**	23.5	78	157	235	280	120	120	120	120	120	66	2400	-
19	3	185	153	1.9	8.07	IE4	**BF30-../S4E11SA6**	18.5	61	123	185	220	153	153	153	153	153	66	2650	-
19	3	150	189	1.7	9.99	IE4	**BF30-../S4E11SA6**	15	50	100	150	180	189	189	189	189	189	66	2850	-
19	3	116	245	1.5	12.91	IE4	**BF30-../S4E11SA6**	11.5	38.5	77	116	139	245	245	245	245	245	66	3050	-
19	3	93	300	1.3	16	IE4	**BF30-../S4E11SA6**	9.3	31	62	93	112	300	300	300	300	300	66	3250	-
19	3	84	335	1.4	17.65	IE4	**BF30-../S4E11SA6**	8.4	28	56	84	101	335	335	335	335	335	66	3300	-
19	3	77	365	1.4	19.41	IE4	**BF30-../S4E11SA6**	7.7	25.5	51	77	92	365	365	365	365	365	66	3400	-
19	3	68	415	1.3	21.85	IE4	**BF30-../S4E11SA6**	6.8	22.5	45.5	68	82	415	415	415	415	415	66	3500	-
19	3	62	455	1.2	24.03	IE4	**BF30-../S4E11SA6**	6.2	20.5	41.5	62	74	455	455	455	455	455	66	3600	-
19	3	53	530	1.1	28.23	IE4	**BF30-../S4E11SA6**	5.3	17.5	35	53	63	530	530	530	530	530	66	3800	-
19	3	48	580	0.97	31.05	IE4	**BF30-../S4E11SA6**	4.8	16	32	48	57	580	580	580	580	580	66	4000	-
19	3	42.5	660	0.86	35	IE4	**BF30-../S4E11SA6**	4.2	14	28.5	42.5	51	660	660	660	660	660	66	4200	-
19	3	255	111	3	5.87	IE4	**BF40-../S4E11SA6**	25.5	85	170	255	305	111	111	111	111	111	80	3550	-
19	3	196	144	2.5	7.62	IE4	**BF40-../S4E11SA6**	19.5	65	131	196	235	144	144	144	144	144	80	3900	-
19	3	158	180	2.3	9.48	IE4	**BF40-../S4E11SA6**	15.5	52	105	158	189	180	180	180	180	180	80	4150	-
19	3	127	220	2.1	11.79	IE4	**BF40-../S4E11SA6**	12.5	42	84	127	152	220	220	220	220	220	80	4450	-
19	3	99	285	1.8	15.02	IE4	**BF40-../S4E11SA6**	9.9	33	66	99	119	285	285	285	285	285	80	4800	-
19	3	86	325	1.9	17.35	IE4	**BF40-../S4E11SA6**	8.6	28.5	57	86	103	325	325	325	325	325	80	4950	-
19	3	78	360	1.8	19.09	IE4	**BF40-../S4E11SA6**	7.8	26	52	78	94	360	360	360	360	360	80	5100	-
19	3	69	410	1.7	21.6	IE4	**BF40-../S4E11SA6**	6.9	23	46	69	83	410	410	410	410	410	80	5200	-
19	3	63	450	1.6	23.77	IE4	**BF40-../S4E11SA6**	6.3	21	42	63	75	450	450	450	450	450	80	5400	-
19	3	55	510	1.5	26.86	IE4	**BF40-../S4E11SA6**	5.5	18.5	37	55	67	510	510	510	510	510	80	5600	-
19	3	50	560	1.4	29.55	IE4	**BF40-../S4E11SA6**	5	16.5	33.5	50	60	560	560	560	560	560	80	5800	-
19	3	43.5	640	1.3	34.21	IE4	**BF40-../S4E11SA6**	4.3	14.5	29	43.5	52	640	640	640	640	640	80	6000	-
19	3	39.5	710	1.2	37.64	IE4	**BF40-../S4E11SA6**	3.9	13	26.5	39.5	47.5	710	710	710	710	710	80	6200	-
19	3	36	780	1.1	41.42	IE4	**BF40-../S4E11SA6**	3.6	12	24	36	43	780	780	780	780	780	80	6500	-
19	3	32.5	860	1	45.56	IE4	**BF40-../S4E11SA6**	3.2	10.5	21.5	32.5	39.5	860	860	860	860	860	80	6800	-
19	3	30.5	920	0.97	48.92	IE4	**BF40-../S4E11SA6**	3	10	20	30.5	36.5	920	920	920	920	920	80	7000	-
19	3	27.5	1020	0.88	53.82	IE4	**BF40-../S4E11SA6**	2.7	9.2	18.5	27.5	33	1020	1020	1020	1020	1020	80	7200	-
19	3	102	275	2.8	14.65	IE4	**BF50-../S4E11SA6**	10	34	68	102	122	275	275	275	275	275	110	6100	-
19	3	89	315	3	16.7	IE4	**BF50-../S4E11SA6**	8.9	29.5	59	89	107	315	315	315	315	315	110	6200	-
19	3	80	350	2.8	18.68	IE4	**BF50-../S4E11SA6**	8	26.5	53	80	96	350	350	350	350	350	110	6400	-
19	3	64	435	2.5	23.14	IE4	**BF50-../S4E11SA6**	6.4	21.5	43	64	77	435	435	435	435	435	110	6800	-
19	3	57	490	2.4	25.88	IE4	**BF50-../S4E11SA6**	5.7	19	38.5	57	69	490	490	490	490	490	110	7100	-
19	3	47	600	2.1	31.73	IE4	**BF50-../S4E11SA6**	4.7	15.5	31.5	47	56	600	600	600	600	600	110	7500	-
19	3	42	670	1.9	35.49	IE4	**BF50-../S4E11SA6**	4.2	14	28	42	50	670	670	670	670	670	110	7800	-
19	3	35.5	800	1.6	42.15	IE4	**BF50-../S4E11SA6**	3.5	11.5	23.5	35.5	42.5	800	800	800	800	800	110	8500	-
19	3	31.5	890	1.5	47.14	IE4	**BF50-../S4E11SA6**	3.1	10.5	21	31.5	38	890	890	890	890	890	110	8900	-
19	3	26	1080	1.2	56.86	IE4	**BF50-../S4E11SA6**	2.6	8.7	17.5	26	31.5	1080	1080	1080	1080	1080	110	9300	-
19	3	23.5	1200	1.1	63.59	IE4	**BF50-../S4E11SA6**	2.3	7.8	15.5	23.5	28	1200	1200	1200	1200	1200	110	9800	-
19	3	20.5	1380	0.94	72.72	IE4	**BF50-../S4E11SA6**	2	6.8	13.5	20.5	24.5	1380	1380	1380	1380	1380	110	10700	-
19	3	18	1540	0.84	81.33	IE4	**BF50-../S4E11SA6**	1.8	6.1	12	18	22	1540	1540	1540	1540	1540	110	11300	-
19	3	43	650	3	34.62	IE4	**BF60-../S4E11SA6**	4.3	14	28.5	43	51	650	650	650	650	650	141	9100	25700
19	3	36	790	2.7	41.6	IE4	**BF60-../S4E11SA6**	3.6	12	24	36	43	790	790	790	790	790	141	9600	27100
19	3	32	870	2.5	46.16	IE4	**BF60-../S4E11SA6**	3.2	10.5	21.5	32	38.5	870	870	870	870	870	141	9900	28000
19	3	27.5	1030	2.2	54.44	IE4	**BF60-../S4E11SA6**	2.7	9.1	18	27.5	33	1030	1030	1030	1030	1030	141	10500	29700
19	3	24.5	1140	2	60.4	IE4	**BF60-../S4E11SA6**	2.4	8.2	16.5	24.5	29.5	1140	1140	1140	1140	1140	141	11100	31400
19	3	20.5	1370	1.7	72.15	IE4	**BF60-../S4E11SA6**	2	6.9	13.5	20.5	24.5	1370	1370	1370	1370	1370	141	12000	34000
19	3	18.5	1520	1.5	80.05	IE4	**BF60-../S4E11SA6**	1.8	6.2	12	18.5	22	1520	1520	1520	1520	1520	141	12600	35600
19	3	16	1770	1.3	93.44	IE4	**BF60-../S4E11SA6**	1.6	5.3	10.5	16	19	1770	1770	1770	1770	1770	141	13500	38200
19	3	14	1970	1.2	103.7	IE4	**BF60-../S4E11SA6**	1.4	4.8	9.6	14	17	1970	1970	1970	1970	1970	141	14100	39900
19	3	13	2100	1.1	113.1	IE4	**BF60-../S4E11SA6**	1.3	4.4	8.8	13	15.5	2100	2100	2100	2100	2100	141	14600	41300
19	3	11.5	2350	0.96	125.5	IE4	**BF60-../S4E11SA6**	1.1	3.9	7.9	11.5	14	2350	2350	2350	2350	2350	141	15300	43300
19	3	10.5	2650	0.86	140.8	IE4	**BF60Z-../S4E11SA6**	1	3.5	7.1	10.5	12.5	2650	2650	2650	2650	2650	157	15300	43300
19	3	15.5	1810	2.9	95.46	IE4	**BF70-../S4E11SA6**	1.5	5.2	10	15.5	18.5	1810	1810	1810	1810	1810	220	14000	43700
19	3	14	1990	2.6	105.2	IE4	**BF70-../S4E11SA6**	1.4	4.7	9.5	14	17	1990	1990	1990	1990	1990	220	14700	45100
19	3	12	2300	2.2	122.7	IE4	**BF70-../S4E11SA6**	1.2	4	8.1	12	14.5	2300	2300	2300	2300	2300	220	16100	47700
19	3	11	2500	2.1	133	IE4	**BF70Z-../S4E11SA6**	1.1	3.7	7.5	11	13.5	2500	2500	2500	2500	2500	247	16100	47700
19	3	9.7	2900	1.8	154	IE4	**BF70Z-../S4E11SA6**	0.95	3.2	6.4	9.7	11.5	2900	2900	2900	2900	2900	247	16100	47700
19	3	8.3	3400	1.5	179.7	IE4	**BF70Z-../S4E11SA6**	0.8	2.7	5.5	8.3	10	3400	3400	3400	3400	3400	247	16100	47700

MN = 19 Nm (PN = 3 kW)



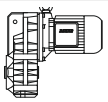
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
19	3	7.5	3750	1.4	199.7	IE4	**BF70Z-../S4E11SA6**	0.75	2.5	5	7.5	9	3750	3750	3750	3750	3750	247	16100	47700
19	3	6.4	4400	1.2	233	IE4	**BF70Z-../S4E11SA6**	0.6	2.1	4.2	6.4	7.7	4400	4400	4400	4400	4400	247	16100	47700
19	3	5.7	4900	1.1	258.7	IE4	**BF70Z-../S4E11SA6**	0.55	1.9	3.8	5.7	6.9	4900	4900	4900	4900	4900	247	16100	47700
19	3	4.9	5700	0.91	301.8	IE4	**BF70Z-../S4E11SA6**	0.49	1.6	3.3	4.9	5.9	5700	5700	5700	5700	5700	247	16100	47700
19	3	4.3	6400	0.8	341.7	IE4	**BF70Z-../S4E11SA6**	0.43	1.4	2.9	4.3	5.2	6400	6400	6400	6400	6400	247	16100	47700
19	3	8.1	3500	2.7	184.5	IE4	**BF80-../S4E11SA6**	0.8	2.7	5.4	8.1	9.7	3500	3500	3500	3500	3500	316	31800	75000
19	3	7.1	3950	2.4	209.4	IE4	**BF80-../S4E11SA6**	0.7	2.3	4.7	7.1	8.5	3950	3950	3950	3950	3950	316	34300	75000
19	3	6.3	4500	2.1	237.1	IE4	**BF80-../S4E11SA6**	0.6	2.1	4.2	6.3	7.5	4500	4500	4500	4500	4500	316	36900	75000
19	3	5.5	5100	1.9	269.1	IE4	**BF80-../S4E11SA6**	0.55	1.8	3.7	5.5	6.6	5100	5100	5100	5100	5100	316	39600	75000
19	3	5.1	5500	1.9	291.7	IE4	**BF80Z-../S4E11SA6**	0.5	1.7	3.4	5.1	6.1	5500	5500	5500	5500	5500	363	39600	75000
19	3	4.3	6500	1.6	347.3	IE4	**BF80Z-../S4E11SA6**	0.43	1.4	2.8	4.3	5.1	6500	6500	6500	6500	6500	363	39600	75000
19	3	3.8	7400	1.4	394.2	IE4	**BF80Z-../S4E11SA6**	0.38	1.2	2.5	3.8	4.5	7400	7400	7400	7400	7400	363	39600	75000
19	3	3.3	8500	1.2	450.4	IE4	**BF80Z-../S4E11SA6**	0.33	1.1	2.2	3.3	3.9	8500	8500	8500	8500	8500	363	39600	75000
19	3	2.9	9700	1.1	511.2	IE4	**BF80Z-../S4E11SA6**	0.29	0.95	1.9	2.9	3.5	9700	9700	9700	9700	9700	363	39600	75000
19	3	2.5	11000	0.95	583.4	IE4	**BF80Z-../S4E11SA6**	0.25	0.85	1.7	2.5	3	11000	11000	11000	11000	11000	363	39600	75000
19	3	2.2	12500	0.83	662.1	IE4	**BF80Z-../S4E11SA6**	0.22	0.75	1.5	2.2	2.7	12500	12500	12500	12500	12500	363	39600	75000
19	3	4.3	6500	2.8	343.6	IE4	**BF90Z-../S4E11SA6**	0.43	1.4	2.9	4.3	5.2	6500	6500	6500	6500	6500	629	42800	120000
19	3	3.9	7200	2.5	382.6	IE4	**BF90Z-../S4E11SA6**	0.39	1.3	2.6	3.9	4.7	7200	7200	7200	7200	7200	629	42800	120000
19	3	3.2	8600	2.1	456.7	IE4	**BF90Z-../S4E11SA6**	0.32	1	2.1	3.2	3.9	8600	8600	8600	8600	8600	629	42800	120000
19	3	2.9	9600	1.9	508.5	IE4	**BF90Z-../S4E11SA6**	0.29	0.95	1.9	2.9	3.5	9600	9600	9600	9600	9600	629	42800	120000
19	3	2.5	11200	1.6	591.1	IE4	**BF90Z-../S4E11SA6**	0.25	0.8	1.6	2.5	3	11200	11200	11200	11200	11200	629	42800	120000
19	3	2.2	12500	1.5	658.1	IE4	**BF90Z-../S4E11SA6**	0.22	0.75	1.5	2.2	2.7	12500	12500	12500	12500	12500	629	42800	120000
19	3	1.9	14400	1.3	759	IE4	**BF90Z-../S4E11SA6**	0.19	0.65	1.3	1.9	2.3	14400	14400	14400	14400	14400	629	42800	120000
19	3	1.7	16000	1.2	845.1	IE4	**BF90Z-../S4E11SA6**	0.17	0.55	1.1	1.7	2.1	16000	16000	16000	16000	16000	629	42800	120000
19	3	1.5	18500	1	976.1	IE4	**BF90G50-../S4E11SA6**	0.15	0.5	1	1.5	1.8	18500	18500	18500	18500	18500	639	42800	120000
19	3	1.4	19800	0.93	1043	IE4	**BF90G50-../S4E11SA6**	0.14	0.47	0.95	1.4	1.7	19800	19800	19800	19800	19800	639	42800	120000
19	3	1.2	22500	0.81	1204	IE4	**BF90G50-../S4E11SA6**	0.12	0.41	0.8	1.2	1.4	22500	22500	22500	22500	22500	639	42800	120000

MN = 20 Nm (PN = 3.1 kW)



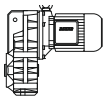
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
20	3.1	265	112	1.2	5.6	IE3	**BF10-../SPE09XA4**	26.5	89	178	265	320	72	89	112	112	112	40	1950	-
20	3.1	197	151	1	7.58	IE3	**BF10-../SPE09XA4**	19.5	65	131	197	235	98	121	151	151	151	40	2200	-
20	3.1	154	193	0.91	9.69	IE3	**BF10-../SPE09XA4**	15	51	103	154	185	125	155	193	193	193	40	2350	-
20	3.1	245	120	1.7	6.04	IE3	**BF20-../SPE09XA4**	24.5	82	165	245	295	78	96	120	120	120	46	2550	-
20	3.1	187	160	1.4	8	IE3	**BF20-../SPE09XA4**	18.5	62	125	187	225	104	128	160	160	160	46	2850	-
20	3.1	142	210	1.2	10.51	IE3	**BF20-../SPE09XA4**	14	47.5	95	142	171	136	168	210	210	210	46	3100	-
20	3.1	113	260	1.1	13.18	IE3	**BF20-../SPE09XA4**	11	37.5	75	113	136	171	210	260	260	260	46	3300	-
20	3.1	96	310	0.98	15.54	IE3	**BF20-../SPE09XA4**	9.6	32	64	96	115	200	245	310	310	310	46	3450	-
20	3.1	89	335	1.1	16.77	IE3	**BF20-../SPE09XA4**	8.9	29.5	59	89	107	215	265	335	335	335	46	3500	-
20	3.1	81	365	1	18.45	IE3	**BF20-../SPE09XA4**	8.1	27	54	81	97	235	295	365	365	365	46	3600	-
20	3.1	68	440	0.9	22.04	IE3	**BF20-../SPE09XA4**	6.8	22.5	45	68	81	285	350	440	440	440	46	3800	-
20	3.1	61	485	0.82	24.25	IE3	**BF20-../SPE09XA4**	6.1	20.5	41	61	74	315	385	485	485	485	46	3950	-
20	3.1	235	126	2.1	6.34	IE3	**BF30-../SPE09XA4**	23.5	78	157	235	280	82	101	126	126	126	57	2400	-
20	3.1	185	161	1.8	8.07	IE3	**BF30-../SPE09XA4**	18.5	61	123	185	220	104	129	161	161	161	57	2650	-
20	3.1	150	199	1.6	9.99	IE3	**BF30-../SPE09XA4**	15	50	100	150	180	129	159	199	199	199	57	2850	-
20	3.1	116	255	1.4	12.91	IE3	**BF30-../SPE09XA4**	11.5	38.5	77	116	139	167	205	255	255	255	57	3050	-
20	3.1	93	320	1.3	16	IE3	**BF30-../SPE09XA4**	9.3	31	62	93	112	205	255	320	320	320	57	3250	-
20	3.1	84	350	1.3	17.65	IE3	**BF30-../SPE09XA4**	8.4	28	56	84	101	225	280	350	350	350	57	3300	-
20	3.1	77	385	1.3	19.41	IE3	**BF30-../SPE09XA4**	7.7	25.5	51	77	92	250	310	385	385	385	57	3400	-
20	3.1	68	435	1.2	21.85	IE3	**BF30-../SPE09XA4**	6.8	22.5	45.5	68	82	280	345	435	435	435	57	3500	-
20	3.1	62	480	1.1	24.03	IE3	**BF30-../SPE09XA4**	6.2	20.5	41.5	62	74	310	380	480	480	480	57	3600	-
20	3.1	53	560	1	28.23	IE3	**BF30-../SPE09XA4**	5.3	17.5	35	53	63	365	450	560	560	560	57	3800	-
20	3.1	48	620	0.92	31.05	IE3	**BF30-../SPE09XA4**	4.8	16	32	48	57	400	495	620	620	620	57	4000	-
20	3.1	42.5	700	0.81	35	IE3	**BF30-../SPE09XA4**	4.2	14	28.5	42.5	51	455	560	700	700	700	57	4200	-
20	3.1	255	117	2.9	5.87	IE3	**BF40-../SPE09XA4**	25.5	85	170	255	305	76	93	117	117	117	66	3550	-
20	3.1	196	152	2.4	7.62	IE3	**BF40-../SPE09XA4**	19.5	65	131	196	235	99	121	152	152	152	66	3900	-
20	3.1	158	189	2.2	9.48	IE3	**BF40-../SPE09XA4**	15.5	52	105	158	189	123	151	189	189	189	66	4150	-
20	3.1	127	235	2	11.79	IE3	**BF40-../SPE09XA4**	12.5	42	84	127	152	153	188	235	235	235	66	4450	-
20	3.1	99	300	1.7	15.02	IE3	**BF40-../SPE09XA4**	9.9	33	66	99	119	195	240	300	300	300	66	4800	-
20	3.1	86	345	1.8	17.35	IE3	**BF40-../SPE09XA4**	8.6	28.5	57	86	103	225	275	345	345	345	66	4950	-
20	3.1	78	380	1.7	19.09	IE3	**BF40-../SPE09XA4**	7.8	26	52	78	94	245	305	380	380	380	66	5100	-
20	3.1	69	430	1.6	21.6	IE3	**BF40-../SPE09XA4**	6.9	23	46	69	83	280	345	430	430	430	66	5200	-
20	3.1	63	475	1.5	23.77	IE3	**BF40-../SPE09XA4**	6.3	21	42	63	75	305	380	475	475	475	66	5400	-
20	3.1	55	530	1.4	26.86	IE3	**BF40-../SPE09XA4**	5.5	18.5	37	55	67	345	425	530	530	530	66	5600	-
20	3.1	50	590	1.4	29.55	IE3	**BF40-../SPE09XA4**	5	16.5	33.5	50	60	380	470	590	590	590	66	5800	-
20	3.1	43.5	680	1.2	34.21	IE3	**BF40-../SPE09XA4**	4.3	14.5	29	43.5	52	440	540	680	680	680	66	6000	-
20	3.1	39.5	750	1.2	37.64	IE3	**BF40-../SPE09XA4**	3.9	13	26.5	39.5	47.5	485	600	750	750	750	66	6200	-
20	3.1	36	820	1.1	41.42	IE3	**BF40-../SPE09XA4**	3.6	12	24	36	43	530	660	820	820	820	66	6500	-
20	3.1	32.5	910	0.99	45.56	IE3	**BF40-../SPE09XA4**	3.2	10.5	21.5	32.5	39.5	590	720	910	910	910	66	6800	-
20	3.1	30.5	970	0.92	48.92	IE3	**BF40-../SPE09XA4**	3	10	20	30.5	36.5	630	780	970	970	970	66	7000	-

MN = 20 Nm (PN = 3.1 kW)



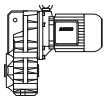
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
20	3.1	27.5	1070	0.84	53.82	IE3	**BF40-../SPE09XA4**	2.7	9.2	18.5	27.5	33	690	860	1070	1070	1070	66	7200	-
20	3.1	102	290	2.7	14.65	IE3	**BF50-../SPE09XA4**	10	34	68	102	122	190	230	290	290	290	94	6100	-
20	3.1	64	460	2.4	23.14	IE3	**BF50-../SPE09XA4**	6.4	21.5	43	64	77	300	370	460	460	460	94	6800	-
20	3.1	57	510	2.2	25.88	IE3	**BF50-../SPE09XA4**	5.7	19	38.5	57	69	335	410	510	510	510	94	7100	-
20	3.1	47	630	2	31.73	IE3	**BF50-../SPE09XA4**	4.7	15.5	31.5	47	56	410	500	630	630	630	94	7500	-
20	3.1	42	700	1.8	35.49	IE3	**BF50-../SPE09XA4**	4.2	14	28	42	50	460	560	700	700	700	94	7800	-
20	3.1	35.5	840	1.5	42.15	IE3	**BF50-../SPE09XA4**	3.5	11.5	23.5	35.5	42.5	540	670	840	840	840	94	8500	-
20	3.1	31.5	940	1.4	47.14	IE3	**BF50-../SPE09XA4**	3.1	10.5	21	31.5	38	610	750	940	940	940	94	8900	-
20	3.1	26	1130	1.1	56.86	IE3	**BF50-../SPE09XA4**	2.6	8.7	17.5	26	31.5	730	900	1130	1130	1130	94	9300	-
20	3.1	23.5	1270	1	63.59	IE3	**BF50-../SPE09XA4**	2.3	7.8	15.5	23.5	28	820	1010	1270	1270	1270	94	9800	-
20	3.1	20.5	1450	0.89	72.72	IE3	**BF50-../SPE09XA4**	2	6.8	13.5	20.5	24.5	940	1160	1450	1450	1450	94	10700	-
20	3.1	18	1620	0.8	81.33	IE3	**BF50-../SPE09XA4**	1.8	6.1	12	18	22	1050	1300	1620	1620	1620	94	11300	-
20	3.1	48	620	3	31.2	IE3	**BF60-../SPE09XA4**	4.8	16	32	48	57	405	495	620	620	620	124	8800	24900
20	3.1	43	690	2.9	34.62	IE3	**BF60-../SPE09XA4**	4.3	14	28.5	43	51	450	550	690	690	690	124	9100	25700
20	3.1	36	830	2.5	41.6	IE3	**BF60-../SPE09XA4**	3.6	12	24	36	43	540	660	830	830	830	124	9600	27100
20	3.1	32	920	2.4	46.16	IE3	**BF60-../SPE09XA4**	3.2	10.5	21.5	32	38.5	600	730	920	920	920	124	9900	28000
20	3.1	27.5	1080	2.1	54.44	IE3	**BF60-../SPE09XA4**	2.7	9.1	18	27.5	33	700	870	1080	1080	1080	124	10500	29700
20	3.1	24.5	1200	1.9	60.4	IE3	**BF60-../SPE09XA4**	2.4	8.2	16.5	24.5	29.5	780	960	1200	1200	1200	124	11100	31400
20	3.1	20.5	1440	1.6	72.15	IE3	**BF60-../SPE09XA4**	2	6.9	13.5	20.5	24.5	930	1150	1440	1440	1440	124	12000	34000
20	3.1	18.5	1600	1.4	80.05	IE3	**BF60-../SPE09XA4**	1.8	6.2	12	18.5	22	1040	1280	1600	1600	1600	124	12600	35600
20	3.1	16	1860	1.2	93.44	IE3	**BF60-../SPE09XA4**	1.6	5.3	10.5	16	19	1210	1490	1860	1860	1860	124	13500	38200
20	3.1	14	2050	1.1	103.7	IE3	**BF60-../SPE09XA4**	1.4	4.8	9.6	14	17	1340	1650	2050	2050	2050	124	14100	39900
20	3.1	13	2250	1	113.1	IE3	**BF60-../SPE09XA4**	1.3	4.4	8.8	13	15.5	1470	1800	2250	2250	2250	124	14600	41300
20	3.1	11.5	2500	0.92	125.5	IE3	**BF60-../SPE09XA4**	1.1	3.9	7.9	11.5	14	1630	2000	2500	2500	2500	124	15300	43300
20	3.1	10.5	2800	0.82	140.8	IE3	**BF60Z-../SPE09XA4**	1	3.5	7.1	10.5	12.5	1830	2250	2800	2800	2800	143	15300	43300
20	3.1	15.5	1900	2.7	95.46	IE3	**BF70-../SPE09XA4**	1.5	5.2	10	15.5	18.5	1240	1520	1900	1900	1900	210	14000	43700
20	3.1	14	2100	2.5	105.2	IE3	**BF70-../SPE09XA4**	1.4	4.7	9.5	14	17	1360	1680	2100	2100	2100	210	14700	45100
20	3.1	12	2450	2.1	122.7	IE3	**BF70-../SPE09XA4**	1.2	4	8.1	12	14.5	1590	1960	2450	2450	2450	210	16100	47700
20	3.1	11	2650	2	133	IE3	**BF70Z-../SPE09XA4**	1.1	3.7	7.5	11	13.5	1720	2100	2650	2650	2650	231	16100	47700
20	3.1	9.7	3050	1.7	154	IE3	**BF70Z-../SPE09XA4**	0.95	3.2	6.4	9.7	11.5	2000	2450	3050	3050	3050	231	16100	47700
20	3.1	8.3	3550	1.4	179.7	IE3	**BF70Z-../SPE09XA4**	0.8	2.7	5.5	8.3	10	2300	2850	3550	3550	3550	231	16100	47700
20	3.1	7.5	3950	1.3	199.7	IE3	**BF70Z-../SPE09XA4**	0.75	2.5	5	7.5	9	2550	3150	3950	3950	3950	231	16100	47700
20	3.1	6.4	4650	1.1	233	IE3	**BF70Z-../SPE09XA4**	0.6	2.1	4.2	6.4	7.7	3000	3700	4650	4650	4650	231	16100	47700
20	3.1	5.7	5100	1	258.7	IE3	**BF70Z-../SPE09XA4**	0.55	1.9	3.8	5.7	6.9	3350	4100	5100	5100	5100	231	16100	47700
20	3.1	4.9	6000	0.86	301.8	IE3	**BF70Z-../SPE09XA4**	0.49	1.6	3.3	4.9	5.9	3900	4800	6000	6000	6000	231	16100	47700
20	3.1	9.4	3150	3	158.5	IE3	**BF80-../SPE09XA4**	0.9	3.1	6.3	9.4	11	2050	2500	3150	3150	3150	307	29000	75000
20	3.1	8.1	3650	2.6	184.5	IE3	**BF80-../SPE09XA4**	0.8	2.7	5.4	8.1	9.7	2350	2950	3650	3650	3650	307	31800	75000
20	3.1	7.1	4150	2.3	209.4	IE3	**BF80-../SPE09XA4**	0.7	2.3	4.7	7.1	8.5	2700	3350	4150	4150	4150	307	34300	75000
20	3.1	6.3	4700	2	237.1	IE3	**BF80-../SPE09XA4**	0.6	2.1	4.2	6.3	7.5	3050	3750	4700	4700	4700	307	36900	75000
20	3.1	5.5	5300	1.8	269.1	IE3	**BF80-../SPE09XA4**	0.55	1.8	3.7	5.5	6.6	3450	4300	5300	5300	5300	307	39600	75000
20	3.1	5.1	5800	1.8	291.7	IE3	**BF80Z-../SPE09XA4**	0.5	1.7	3.4	5.1	6.1	3750	4650	5800	5800	5800	348	39600	75000
20	3.1	4.3	6900	1.5	347.3	IE3	**BF80Z-../SPE09XA4**	0.43	1.4	2.8	4.3	5.1	4500	5500	6900	6900	6900	348	39600	75000
20	3.1	3.8	7800	1.3	394.2	IE3	**BF80Z-../SPE09XA4**	0.38	1.2	2.5	3.8	4.5	5100	6300	7800	7800	7800	348	39600	75000
20	3.1	3.3	9000	1.2	450.4	IE3	**BF80Z-../SPE09XA4**	0.33	1.1	2.2	3.3	3.9	5800	7200	9000	9000	9000	348	39600	75000
20	3.1	2.9	10200	1	511.2	IE3	**BF80Z-../SPE09XA4**	0.29	0.95	1.9	2.9	3.5	6600	8100	10200	10200	10200	348	39600	75000
20	3.1	2.5	11600	0.9	583.4	IE3	**BF80Z-../SPE09XA4**	0.25	0.85	1.7	2.5	3	7500	9300	11600	11600	11600	348	39600	75000
20	3.1	4.3	6800	2.7	343.6	IE3	**BF90Z-../SPE09XA4**	0.43	1.4	2.9	4.3	5.2	4450	5400	6800	6800	6800	612	42800	120000
20	3.1	3.9	7600	2.4	382.6	IE3	**BF90Z-../SPE09XA4**	0.39	1.3	2.6	3.9	4.7	4950	6100	7600	7600	7600	612	42800	120000
20	3.1	3.2	9100	2	456.7	IE3	**BF90Z-../SPE09XA4**	0.32	1	2.1	3.2	3.9	5900	7300	9100	9100	9100	612	42800	120000
20	3.1	2.9	10100	1.8	508.5	IE3	**BF90Z-../SPE09XA4**	0.29	0.95	1.9	2.9	3.5	6600	8100	10100	10100	10100	612	42800	120000
20	3.1	2.5	11800	1.6	591.1	IE3	**BF90Z-../SPE09XA4**	0.25	0.8	1.6	2.5	3	7600	9400	11800	11800	11800	612	42800	120000
20	3.1	2.2	13100	1.4	658.1	IE3	**BF90Z-../SPE09XA4**	0.22	0.75	1.5	2.2	2.7	8500	10500	13100	13100	13100	612	42800	120000
20	3.1	1.9	15100	1.2	759	IE3	**BF90Z-../SPE09XA4**	0.19	0.65	1.3	1.9	2.3	9800	12100	15100	15100	15100	612	42800	120000
20	3.1	1.7	16900	1.1	845.1	IE3	**BF90Z-../SPE09XA4**	0.17	0.55	1.1	1.7	2.1	10900	13500	16900	16900	16900	612	42800	120000
20	3.1	1.5	19500	0.95	976.1	IE3	**BF90G50-../SPE09XA4**	0.15	0.5	1	1.5	1.8	12600	15600	19500	19500	19500	624	42800	120000
20	3.1	1.4	20500	0.89	1043	IE3	**BF90G50-../SPE09XA4**	0.14	0.47	0.95	1.4	1.7	13500	16600	20500	20500	20500	624	42800	120000

MN = 25.5 Nm (PN = 4 kW)



M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
25.5	4	235	161	1.6	6.34	IE3	**BF30-../SPE11SA6**	23.5	78	157	235	280	120	139	161	161	161	66	2400	-
25.5	4	185	205	1.4	8.07	IE3	**BF30-../SPE11SA6**	18.5	61	123	185	220	153	177	205	205	205	66	2650	-
25.5	4	150	250	1.3	9.99	IE3	**BF30-../SPE11SA6**	15	50	100	150	180	189	215	250	250	250	66	2850	-
25.5	4	116	325	1.1	12.91	IE3	**BF30-../SPE11SA6**	11.5	38.5	77	116	139	245	280	325	325	325	66	3050	-
25.5	4	93	405	0.99	16	IE3	**BF30-../SPE11SA6**	9.3	31	62	93	112	300	350	405	405	405	66	3250	-
25.5	4	84	450	1.1	17.65	IE3	**BF30-../SPE11SA6**	8.4	28	56	84	101	335	385	450	450	450	66	3300	-
25.5	4	77	490	1	19.41	IE3	**BF30-../SPE11SA6**	7.7	25.5	51	77	92	365	425	490	490	490	66	3400	-
25.5	4	68	550	0.93	21.85	IE3	**BF30-../SPE11SA6**	6.8	22.5	45.5	68	82	415	480	550	550	550	66	3500	-
25.5	4	62	610	0.9	24.03	IE3	**BF30-../SPE11SA6**	6.2	20.5	41.5	62	74	455	520	610	610	610	66	3600	-
25.5	4	255	149	2.2	5.87	IE3	**BF40-../SPE11SA6**	25.5	85	170	255	305	111	129	149	149	149	80	3550	-

MN = 25.5 Nm (PN = 4 kW)

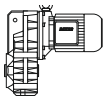


M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
25.5	4	196	194	1.9	7.62	IE3	**BF40-../SPE11SA6**	19.5	65	131	196	235	144	167	194	194	194	80	3900	-
25.5	4	158	240	1.7	9.48	IE3	**BF40-../SPE11SA6**	15.5	52	105	158	189	180	205	240	240	240	80	4150	-
25.5	4	127	300	1.5	11.79	IE3	**BF40-../SPE11SA6**	12.5	42	84	127	152	220	255	300	300	300	80	4450	-
25.5	4	99	380	1.4	15.02	IE3	**BF40-../SPE11SA6**	9.9	33	66	99	119	285	330	380	380	380	80	4800	-
25.5	4	86	440	1.4	17.35	IE3	**BF40-../SPE11SA6**	8.6	28.5	57	86	103	325	380	440	440	440	80	4950	-
25.5	4	78	485	1.4	19.09	IE3	**BF40-../SPE11SA6**	7.8	26	52	78	94	360	415	485	485	485	80	5100	-
25.5	4	69	550	1.3	21.6	IE3	**BF40-../SPE11SA6**	6.9	23	46	69	83	410	475	550	550	550	80	5200	-
25.5	4	63	600	1.2	23.77	IE3	**BF40-../SPE11SA6**	6.3	21	42	63	75	450	520	600	600	600	80	5400	-
25.5	4	55	680	1.1	26.86	IE3	**BF40-../SPE11SA6**	5.5	18.5	37	55	67	510	590	680	680	680	80	5600	-
25.5	4	50	750	1.1	29.55	IE3	**BF40-../SPE11SA6**	5	16.5	33.5	50	60	560	650	750	750	750	80	5800	-
25.5	4	43.5	870	0.97	34.21	IE3	**BF40-../SPE11SA6**	4.3	14.5	29	43.5	52	640	750	870	870	870	80	6000	-
25.5	4	39.5	950	0.93	37.64	IE3	**BF40-../SPE11SA6**	3.9	13	26.5	39.5	47.5	710	820	950	950	950	80	6200	-
25.5	4	36	1050	0.85	41.42	IE3	**BF40-../SPE11SA6**	3.6	12	24	36	43	780	910	1050	1050	1050	80	6500	-
25.5	4	194	196	2.8	7.71	IE3	**BF50-../SPE11SA6**	19	64	129	194	230	146	169	196	196	196	110	5100	-
25.5	4	140	270	2.5	10.68	IE3	**BF50-../SPE11SA6**	14	46.5	93	140	168	200	230	270	270	270	110	5600	-
25.5	4	102	370	2.1	14.65	IE3	**BF50-../SPE11SA6**	10	34	68	102	122	275	320	370	370	370	110	6100	-
25.5	4	89	425	2.2	16.7	IE3	**BF50-../SPE11SA6**	8.9	29.5	59	89	107	315	365	425	425	425	110	6200	-
25.5	4	80	475	2.1	18.68	IE3	**BF50-../SPE11SA6**	8	26.5	53	80	96	350	410	475	475	475	110	6400	-
25.5	4	64	590	1.9	23.14	IE3	**BF50-../SPE11SA6**	6.4	21.5	43	64	77	435	500	590	590	590	110	6800	-
25.5	4	57	650	1.8	25.88	IE3	**BF50-../SPE11SA6**	5.7	19	38.5	57	69	490	560	650	650	650	110	7100	-
25.5	4	47	800	1.6	31.73	IE3	**BF50-../SPE11SA6**	4.7	15.5	31.5	47	56	600	690	800	800	800	110	7500	-
25.5	4	42	900	1.4	35.49	IE3	**BF50-../SPE11SA6**	4.2	14	28	42	50	670	780	900	900	900	110	7800	-
25.5	4	35.5	1070	1.2	42.15	IE3	**BF50-../SPE11SA6**	3.5	11.5	23.5	35.5	42.5	800	920	1070	1070	1070	110	8500	-
25.5	4	31.5	1200	1.1	47.14	IE3	**BF50-../SPE11SA6**	3.1	10.5	21	31.5	38	890	1030	1200	1200	1200	110	8900	-
25.5	4	26	1440	0.9	56.86	IE3	**BF50-../SPE11SA6**	2.6	8.7	17.5	26	31.5	1080	1250	1440	1440	1440	110	9300	-
25.5	4	23.5	1620	0.8	63.59	IE3	**BF50-../SPE11SA6**	2.3	7.8	15.5	23.5	28	1200	1390	1620	1620	1620	110	9800	-
25.5	4	66	570	2.9	22.58	IE3	**BF60-../SPE11SA6**	6.6	22	44	66	79	425	495	570	570	570	141	8000	22600
25.5	4	59	630	2.7	25.05	IE3	**BF60-../SPE11SA6**	5.9	19.5	39.5	59	71	475	550	630	630	630	141	8200	23200
25.5	4	48	790	2.4	31.2	IE3	**BF60-../SPE11SA6**	4.8	16	32	48	57	590	680	790	790	790	141	8800	24900
25.5	4	43	880	2.2	34.62	IE3	**BF60-../SPE11SA6**	4.3	14	28.5	43	51	650	760	880	880	880	141	9100	25700
25.5	4	36	1060	2	41.6	IE3	**BF60-../SPE11SA6**	3.6	12	24	36	43	790	910	1060	1060	1060	141	9600	27100
25.5	4	32	1170	1.9	46.16	IE3	**BF60-../SPE11SA6**	3.2	10.5	21.5	32	38.5	870	1010	1170	1170	1170	141	9900	28000
25.5	4	27.5	1380	1.7	54.44	IE3	**BF60-../SPE11SA6**	2.7	9.1	18	27.5	33	1030	1190	1380	1380	1380	141	10500	29700
25.5	4	24.5	1540	1.5	60.4	IE3	**BF60-../SPE11SA6**	2.4	8.2	16.5	24.5	29.5	1140	1320	1540	1540	1540	141	11100	31400
25.5	4	20.5	1830	1.3	72.15	IE3	**BF60-../SPE11SA6**	2	6.9	13.5	20.5	24.5	1370	1580	1830	1830	1830	141	12000	34000
25.5	4	18.5	2000	1.1	80.05	IE3	**BF60-../SPE11SA6**	1.8	6.2	12	18.5	22	1520	1760	2000	2000	2000	141	12600	35600
25.5	4	16	2350	0.97	93.44	IE3	**BF60-../SPE11SA6**	1.6	5.3	10.5	16	19	1770	2050	2350	2350	2350	141	13500	38200
25.5	4	14	2600	0.87	103.7	IE3	**BF60-../SPE11SA6**	1.4	4.8	9.6	14	17	1970	2250	2600	2600	2600	141	14100	39900
25.5	4	13	2850	0.8	113.1	IE3	**BF60-../SPE11SA6**	1.3	4.4	8.8	13	15.5	2100	2450	2850	2850	2850	141	14600	41300
25.5	4	20.5	1840	2.8	72.26	IE3	**BF70-../SPE11SA6**	2	6.9	13.5	20.5	24.5	1370	1580	1840	1840	1840	220	12000	39600
25.5	4	18	2050	2.5	81.82	IE3	**BF70-../SPE11SA6**	1.8	6.1	12	18	21.5	1550	1800	2050	2050	2050	220	12800	41300
25.5	4	15.5	2400	2.1	95.46	IE3	**BF70-../SPE11SA6**	1.5	5.2	10	15.5	18.5	1810	2100	2400	2400	2400	220	14000	43700
25.5	4	14	2650	1.9	105.2	IE3	**BF70-../SPE11SA6**	1.4	4.7	9.5	14	17	1990	2300	2650	2650	2650	220	14700	45100
25.5	4	12	3100	1.7	122.7	IE3	**BF70-../SPE11SA6**	1.2	4	8.1	12	14.5	2300	2650	3100	3100	3100	220	16100	47700
25.5	4	11	3350	1.5	133	IE3	**BF70Z-../SPE11SA6**	1.1	3.7	7.5	11	13.5	2500	2900	3350	3350	3350	247	16100	47700
25.5	4	9.7	3900	1.3	154	IE3	**BF70Z-../SPE11SA6**	0.95	3.2	6.4	9.7	11.5	2900	3350	3900	3900	3900	247	16100	47700
25.5	4	8.3	4550	1.1	179.7	IE3	**BF70Z-../SPE11SA6**	0.8	2.7	5.5	8.3	10	3400	3950	4550	4550	4550	247	16100	47700
25.5	4	7.5	5000	1	199.7	IE3	**BF70Z-../SPE11SA6**	0.75	2.5	5	7.5	9	3750	4350	5000	5000	5000	247	16100	47700
25.5	4	6.4	5900	0.88	233	IE3	**BF70Z-../SPE11SA6**	0.6	2.1	4.2	6.4	7.7	4400	5100	5900	5900	5900	247	16100	47700
25.5	4	12	3100	3	122.4	IE3	**BF80-../SPE11SA6**	1.2	4	8.1	12	14.5	2300	2650	3100	3100	3100	316	24500	75000
25.5	4	10.5	3550	2.7	139.7	IE3	**BF80-../SPE11SA6**	1	3.5	7.1	10.5	12.5	2650	3050	3550	3550	3550	316	26700	75000
25.5	4	9.4	4000	2.4	158.5	IE3	**BF80-../SPE11SA6**	0.9	3.1	6.3	9.4	11	3000	3450	4000	4000	4000	316	29000	75000
25.5	4	8.1	4700	2	184.5	IE3	**BF80-../SPE11SA6**	0.8	2.7	5.4	8.1	9.7	3500	4050	4700	4700	4700	316	31800	75000
25.5	4	7.1	5300	1.8	209.4	IE3	**BF80-../SPE11SA6**	0.7	2.3	4.7	7.1	8.5	3950	4600	5300	5300	5300	316	34300	75000
25.5	4	6.3	6000	1.6	237.1	IE3	**BF80-../SPE11SA6**	0.6	2.1	4.2	6.3	7.5	4500	5200	6000	6000	6000	316	36900	75000
25.5	4	5.5	6800	1.4	269.1	IE3	**BF80-../SPE11SA6**	0.55	1.8	3.7	5.5	6.6	5100	5900	6800	6800	6800	316	39600	75000
25.5	4	5.1	7400	1.4	291.7	IE3	**BF80Z-../SPE11SA6**	0.5	1.7	3.4	5.1	6.1	5500	6400	7400	7400	7400	363	39600	75000
25.5	4	4.3	8800	1.2	347.3	IE3	**BF80Z-../SPE11SA6**	0.43	1.4	2.8	4.3	5.1	6500	7600	8800	8800	8800	363	39600	75000
25.5	4	3.8	10000	1	394.2	IE3	**BF80Z-../SPE11SA6**	0.38	1.2	2.5	3.8	4.5	7400	8600	10000	10000	10000	363	39600	75000
25.5	4	3.3	11400	0.91	450.4	IE3	**BF80Z-../SPE11SA6**	0.33	1.1	2.2	3.3	3.9	8500	9900	11400	11400	11400	363	39600	75000
25.5	4	2.9	13000	0.81	511.2	IE3	**BF80Z-../SPE11SA6**	0.29	0.95	1.9	2.9	3.5	9700	11200	13000	13000	13000	363	39600	75000
25.5	4	6.4	5900	2.8	232.6	IE3	**BF90-../SPE11SA6**	0.6	2.1	4.2	6.4	7.7	4400	5100	5900	5900	5900	569	39900	118300
25.5	4	5.7	6600	2.5	259	IE3	**BF90-../SPE11SA6**	0.55	1.9	3.8	5.7	6.9	4900	5600	6600	6600	6600	569	42800	120000
25.5	4	5.5	6800	2.7	269.8	IE3	**BF90Z-../SPE11SA6**	0.55	1.8	3.7	5.5	6.6	5100	5900	6800	6800	6800	629	42800	120000
25.5	4	4.9	7600	2.4	300.4	IE3	**BF90Z-../SPE11SA6**	0.49	1.6	3.3	4.9	5.9	5700	6600	7600	7600	7600	629	42800	120000
25.5	4	4.3	8700	2.1	343.6	IE3	**BF90Z-../SPE11SA6**	0.43	1.4	2.9	4.3	5.2	6500	7500	8700	8700	8700	629	42800	120000
25.5	4	3.9	9700	1.9	382.6	IE3	**BF90Z-../SPE11SA6**	0.39	1.3	2.6	3.9	4.7	7200	8400	9700	9700	9700	629	42800	120000
25.5	4	3.2	11600	1.6	456.7	IE3	**BF90Z-../SPE11SA6**	0.32	1	2.1	3.2	3.9	8600	10000	11600	11600	11600	629	42800	120000
25.5	4	2.9	12900	1.4	508.5	IE3	**BF90Z-../SPE11SA6**	0.29	0.95	1.9	2.9	3.5	9600	11100	12900	12900	12900	629	42800	120000
25.5	4	2.5	15000	1.2	591.1	IE3	**BF90Z-../SPE11SA6**	0.25	0.8	1.6	2.5	3	11200	13000	15000	15000	15000	629	42800	120000
25.5	4	2.2	16700	1.1	658.1	IE3	**BF90Z-../SPE11SA6**	0.22	0.75	1.5	2.2	2.7	12500	14400	16700	16700	16700	629	42800	120000
25.5	4	1.9	19300	0.96	759	IE3	**BF90Z-../SPE11SA6**	0.19	0.65	1.3	1.9	2.3	14400	16600	19300	19300	19300	629	42800	120000
25.5	4	1.7	21500	0.86	845.1	IE3	**BF90Z-../SPE11SA6**	0.17	0.55	1.1	1.7	2.1	16000	18500	21500	21500	21500	629	42800	120000

BF-series shaft-mounted geared motors

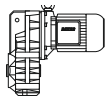
Selection - shaft-mounted geared motors - n_1 = 1500 $^1/_{min}$

MN = 26.5 Nm (PN = 4 kW)



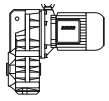
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
26.5	4	235	168	1.6	6.34	IE5	**BF30-../S5E11MA6**	23.5	78	157	235	280	168	168	168	168	168	66	2400	-
26.5	4	185	210	1.3	8.07	IE5	**BF30-../S5E11MA6**	18.5	61	123	185	220	210	210	210	210	210	66	2650	-
26.5	4	150	260	1.2	9.99	IE5	**BF30-../S5E11MA6**	15	50	100	150	180	260	260	260	260	260	66	2850	-
26.5	4	116	340	1.1	12.91	IE5	**BF30-../S5E11MA6**	11.5	38.5	77	116	139	340	340	340	340	340	66	3050	-
26.5	4	93	420	0.96	16	IE5	**BF30-../S5E11MA6**	9.3	31	62	93	112	420	420	420	420	420	66	3250	-
26.5	4	84	465	1	17.65	IE5	**BF30-../S5E11MA6**	8.4	28	56	84	101	465	465	465	465	465	66	3300	-
26.5	4	77	510	0.97	19.41	IE5	**BF30-../S5E11MA6**	7.7	25.5	51	77	92	510	510	510	510	510	66	3400	-
26.5	4	68	570	0.9	21.85	IE5	**BF30-../S5E11MA6**	6.8	22.5	45.5	68	82	570	570	570	570	570	66	3500	-
26.5	4	62	630	0.86	24.03	IE5	**BF30-../S5E11MA6**	6.2	20.5	41.5	62	74	630	630	630	630	630	66	3600	-
26.5	4	255	155	2.2	5.87	IE5	**BF40-../S5E11MA6**	25.5	85	170	255	305	155	155	155	155	155	80	3550	-
26.5	4	196	200	1.8	7.62	IE5	**BF40-../S5E11MA6**	19.5	65	131	196	235	200	200	200	200	200	80	3900	-
26.5	4	158	250	1.7	9.48	IE5	**BF40-../S5E11MA6**	15.5	52	105	158	189	250	250	250	250	250	80	4150	-
26.5	4	127	310	1.5	11.79	IE5	**BF40-../S5E11MA6**	12.5	42	84	127	152	310	310	310	310	310	80	4450	-
26.5	4	99	395	1.3	15.02	IE5	**BF40-../S5E11MA6**	9.9	33	66	99	119	395	395	395	395	395	80	4800	-
26.5	4	86	455	1.4	17.35	IE5	**BF40-../S5E11MA6**	8.6	28.5	57	86	103	455	455	455	455	455	80	4950	-
26.5	4	78	500	1.3	19.09	IE5	**BF40-../S5E11MA6**	7.8	26	52	78	94	500	500	500	500	500	80	5100	-
26.5	4	69	570	1.2	21.6	IE5	**BF40-../S5E11MA6**	6.9	23	46	69	83	570	570	570	570	570	80	5200	-
26.5	4	63	620	1.2	23.77	IE5	**BF40-../S5E11MA6**	6.3	21	42	63	75	620	620	620	620	620	80	5400	-
26.5	4	55	710	1.1	26.86	IE5	**BF40-../S5E11MA6**	5.5	18.5	37	55	67	710	710	710	710	710	80	5600	-
26.5	4	50	780	1	29.55	IE5	**BF40-../S5E11MA6**	5	16.5	33.5	50	60	780	780	780	780	780	80	5800	-
26.5	4	43.5	900	0.94	34.21	IE5	**BF40-../S5E11MA6**	4.3	14.5	29	43.5	52	900	900	900	900	900	80	6000	-
26.5	4	39.5	990	0.89	37.64	IE5	**BF40-../S5E11MA6**	3.9	13	26.5	39.5	47.5	990	990	990	990	990	80	6200	-
26.5	4	36	1090	0.82	41.42	IE5	**BF40-../S5E11MA6**	3.6	12	24	36	43	1090	1090	1090	1090	1090	80	6500	-
26.5	4	194	200	2.7	7.71	IE5	**BF50-../S5E11MA6**	19	64	129	194	230	200	200	200	200	200	110	5100	-
26.5	4	140	280	2.4	10.68	IE5	**BF50-../S5E11MA6**	14	46.5	93	140	168	280	280	280	280	280	110	5600	-
26.5	4	102	385	2	14.65	IE5	**BF50-../S5E11MA6**	10	34	68	102	122	385	385	385	385	385	110	6100	-
26.5	4	89	440	2.1	16.7	IE5	**BF50-../S5E11MA6**	8.9	29.5	59	89	107	440	440	440	440	440	110	6200	-
26.5	4	80	495	2	18.68	IE5	**BF50-../S5E11MA6**	8	26.5	53	80	96	495	495	495	495	495	110	6400	-
26.5	4	64	610	1.8	23.14	IE5	**BF50-../S5E11MA6**	6.4	21.5	43	64	77	610	610	610	610	610	110	6800	-
26.5	4	57	680	1.7	25.88	IE5	**BF50-../S5E11MA6**	5.7	19	38.5	57	69	680	680	680	680	680	110	7100	-
26.5	4	47	840	1.5	31.73	IE5	**BF50-../S5E11MA6**	4.7	15.5	31.5	47	56	840	840	840	840	840	110	7500	-
26.5	4	42	940	1.4	35.49	IE5	**BF50-../S5E11MA6**	4.2	14	28	42	50	940	940	940	940	940	110	7800	-
26.5	4	35.5	1110	1.2	42.15	IE5	**BF50-../S5E11MA6**	3.5	11.5	23.5	35.5	42.5	1110	1110	1110	1110	1110	110	8500	-
26.5	4	31.5	1240	1	47.14	IE5	**BF50-../S5E11MA6**	3.1	10.5	21	31.5	38	1240	1240	1240	1240	1240	110	8900	-
26.5	4	26	1500	0.86	56.86	IE5	**BF50-../S5E11MA6**	2.6	8.7	17.5	26	31.5	1500	1500	1500	1500	1500	110	9300	-
26.5	4	79	495	3	18.81	IE5	**BF60-../S5E11MA6**	7.9	26.5	53	79	95	495	495	495	495	495	141	7600	21500
26.5	4	66	590	2.8	22.58	IE5	**BF60-../S5E11MA6**	6.6	22	44	66	79	590	590	590	590	590	141	8000	22600
26.5	4	59	660	2.6	25.05	IE5	**BF60-../S5E11MA6**	5.9	19.5	39.5	59	71	660	660	660	660	660	141	8200	23200
26.5	4	48	820	2.3	31.2	IE5	**BF60-../S5E11MA6**	4.8	16	32	48	57	820	820	820	820	820	141	8800	24900
26.5	4	43	910	2.2	34.62	IE5	**BF60-../S5E11MA6**	4.3	14	28.5	43	51	910	910	910	910	910	141	9100	25700
26.5	4	36	1100	1.9	41.6	IE5	**BF60-../S5E11MA6**	3.6	12	24	36	43	1100	1100	1100	1100	1100	141	9600	27100
26.5	4	32	1220	1.8	46.16	IE5	**BF60-../S5E11MA6**	3.2	10.5	21.5	32	38.5	1220	1220	1220	1220	1220	141	9900	28000
26.5	4	27.5	1440	1.6	54.44	IE5	**BF60-../S5E11MA6**	2.7	9.1	18	27.5	33	1440	1440	1440	1440	1440	141	10500	29700
26.5	4	24.5	1600	1.4	60.4	IE5	**BF60-../S5E11MA6**	2.4	8.2	16.5	24.5	29.5	1600	1600	1600	1600	1600	141	11100	31400
26.5	4	20.5	1910	1.2	72.15	IE5	**BF60-../S5E11MA6**	2	6.9	13.5	20.5	24.5	1910	1910	1910	1910	1910	141	12000	34000
26.5	4	18.5	2100	1.1	80.05	IE5	**BF60-../S5E11MA6**	1.8	6.2	12	18.5	22	2100	2100	2100	2100	2100	141	12600	35600
26.5	4	16	2450	0.93	93.44	IE5	**BF60-../S5E11MA6**	1.6	5.3	10.5	16	19	2450	2450	2450	2450	2450	141	13500	38200
26.5	4	14	2700	0.84	103.7	IE5	**BF60-../S5E11MA6**	1.4	4.8	9.6	14	17	2700	2700	2700	2700	2700	141	14100	39900
26.5	4	20.5	1910	2.7	72.26	IE5	**BF70-../S5E11MA6**	2	6.9	13.5	20.5	24.5	1910	1910	1910	1910	1910	220	12000	39600
26.5	4	18	2150	2.4	81.82	IE5	**BF70-../S5E11MA6**	1.8	6.1	12	18	21.5	2150	2150	2150	2150	2150	220	12800	41300
26.5	4	15.5	2500	2.1	95.46	IE5	**BF70-../S5E11MA6**	1.5	5.2	10	15.5	18.5	2500	2500	2500	2500	2500	220	14000	43700
26.5	4	14	2750	1.9	105.2	IE5	**BF70-../S5E11MA6**	1.4	4.7	9.5	14	17	2750	2750	2750	2750	2750	220	14700	45100
26.5	4	12	3250	1.6	122.7	IE5	**BF70-../S5E11MA6**	1.2	4	8.1	12	14.5	3250	3250	3250	3250	3250	220	16100	47700
26.5	4	11	3500	1.5	133	IE5	**BF70Z-../S5E11MA6**	1.1	3.7	7.5	11	13.5	3500	3500	3500	3500	3500	247	16100	47700
26.5	4	9.7	4050	1.3	154	IE5	**BF70Z-../S5E11MA6**	0.95	3.2	6.4	9.7	11.5	4050	4050	4050	4050	4050	247	16100	47700
26.5	4	8.3	4750	1.1	179.7	IE5	**BF70Z-../S5E11MA6**	0.8	2.7	5.5	8.3	10	4750	4750	4750	4750	4750	247	16100	47700
26.5	4	7.5	5200	0.98	199.7	IE5	**BF70Z-../S5E11MA6**	0.75	2.5	5	7.5	9	5200	5200	5200	5200	5200	247	16100	47700
26.5	4	6.4	6100	0.84	233	IE5	**BF70Z-../S5E11MA6**	0.6	2.1	4.2	6.4	7.7	6100	6100	6100	6100	6100	247	16100	47700
26.5	4	12	3200	2.9	122.4	IE5	**BF80-../S5E11MA6**	1.2	4	8.1	12	14.5	3200	3200	3200	3200	3200	316	24500	75000
26.5	4	10.5	3700	2.6	139.7	IE5	**BF80-../S5E11MA6**	1	3.5	7.1	10.5	12.5	3700	3700	3700	3700	3700	316	26700	75000
26.5	4	9.4	4200	2.3	158.5	IE5	**BF80-../S5E11MA6**	0.9	3.1	6.3	9.4	11	4200	4200	4200	4200	4200	316	29000	75000
26.5	4	8.1	4850	1.9	184.5	IE5	**BF80-../S5E11MA6**	0.8	2.7	5.4	8.1	9.7	4850	4850	4850	4850	4850	316	31800	75000
26.5	4	7.1	5500	1.7	209.4	IE5	**BF80-../S5E11MA6**	0.7	2.3	4.7	7.1	8.5	5500	5500	5500	5500	5500	316	34300	75000
26.5	4	6.3	6200	1.5	237.1	IE5	**BF80-../S5E11MA6**	0.6	2.1	4.2	6.3	7.5	6200	6200	6200	6200	6200	316	36900	75000
26.5	4	5.5	7100	1.3	269.1	IE5	**BF80-../S5E11MA6**	0.55	1.8	3.7	5.5	6.6	7100	7100	7100	7100	7100	316	39600	75000
26.5	4	5.1	7700	1.4	291.7	IE5	**BF80Z-../S5E11MA6**	0.5	1.7	3.4	5.1	6.1	7700	7700	7700	7700	7700	363	39600	75000
26.5	4	4.3	9200	1.1	347.3	IE5	**BF80Z-../S5E11MA6**	0.43	1.4	2.8	4.3	5.1	9200	9200	9200	9200	9200	363	39600	75000
26.5	4	3.8	10400	1	394.2	IE5	**BF80Z-../S5E11MA6**	0.38	1.2	2.5	3.8	4.5	10400	10400	10400	10400	10400	363	39600	75000
26.5	4	3.3	11900	0.88	450.4	IE5	**BF80Z-../S5E11MA6**	0.33	1.1	2.2	3.3	3.9	11900	11900	11900	11900	11900	363	39600	75000
26.5	4	6.4	6100	2.7	232.6	IE5	**BF90-../S5E11MA6**	0.6	2.1	4.2	6.4	7.7	6100	6100	6100	6100	6100	569	39900	118300
26.5	4	5.7	6800	2.4	259	IE5	**BF90-../S5E11MA6**	0.55	1.9	3.8	5.7	6.9	6800	6800	6800	6800	6800	569	42800	120000
26.5	4	5.5	7100	2.6	269.8	IE5	**BF90Z-../S5E11MA6**	0.55	1.8	3.7	5.5	6.6	7100	7100	7100	7100	7100	629	42800	120000
26.5	4	4.9	7900	2.3	300.4	IE5	**BF90Z-../S5E11MA6**	0.49	1.6	3.3	4.9	5.9	7900	7900	7900	7900	7900	629	42800	120000
26.5	4	4.3	9100	2	343.6	IE5	**BF90Z-../S5E11MA6**	0.43	1.4	2.9	4.3	5.2	9100	9100	9100	9100	9100	629	42800	120000
26.5	4	3.9	10100	1.8	382.6	IE5	**BF90Z-../S5E11MA6**	0.39	1.3	2.6	3.9	4.7	10100	10100	10100	10100	10100	629	42800	120000
26.5	4	3.2	12100	1.5	456.7	IE5	**BF90Z-../S5E11MA6**	0.32	1	2.1	3.2	3.9	12100	12100	12100	12100	12100	629	42800	120000
26.5	4	2.9	13400	1.4	508.5	IE5	**BF90Z-../S5E11MA6**	0.29	0.95	1.9	2.9	3.5	13400	13400	13400	13400	13400	629	42800	120000

MN = 26.5 Nm (PN = 4 kW)



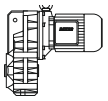
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
26.5	4	2.5	15600	1.2	591.1	IE5	**BF90Z-../S5E11MA6**	0.25	0.8	1.6	2.5	3	15600	15600	15600	15600	15600	629	42800	120000
26.5	4	2.2	17400	1.1	658.1	IE5	**BF90Z-../S5E11MA6**	0.22	0.75	1.5	2.2	2.7	17400	17400	17400	17400	17400	629	42800	120000
26.5	4	1.9	20000	0.92	759	IE5	**BF90Z-../S5E11MA6**	0.19	0.65	1.3	1.9	2.3	20000	20000	20000	20000	20000	629	42800	120000
26.5	4	1.7	22000	0.83	845.1	IE5	**BF90Z-../S5E11MA6**	0.17	0.55	1.1	1.7	2.1	22000	22000	22000	22000	22000	629	42800	120000

MN = 35 Nm (PN = 5.5 kW)



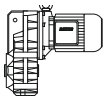
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
35	5.5	235	220	1.2	6.34	IE5	**BF30-../S5E11LA6**	23.5	78	157	235	280	220	220	220	220	220	78	2400	-
35	5.5	235	220	1.2	6.34	IE4	**BF30-../S4E11MA6**	23.5	78	157	235	280	168	190	220	220	220	66	2400	-
35	5.5	185	280	1	8.07	IE5	**BF30-../S5E11LA6**	18.5	61	123	185	220	280	280	280	280	280	78	2650	-
35	5.5	185	280	1	8.07	IE4	**BF30-../S4E11MA6**	18.5	61	123	185	220	210	240	280	280	280	66	2650	-
35	5.5	150	345	0.92	9.99	IE4	**BF30-../S4E11MA6**	15	50	100	150	180	260	295	345	345	345	66	2850	-
35	5.5	150	345	0.92	9.99	IE5	**BF30-../S5E11LA6**	15	50	100	150	180	345	345	345	345	345	78	2850	-
35	5.5	116	450	0.81	12.91	IE5	**BF30-../S5E11LA6**	11.5	38.5	77	116	139	450	450	450	450	450	78	3050	-
35	5.5	116	450	0.81	12.91	IE4	**BF30-../S4E11MA6**	11.5	38.5	77	116	139	340	385	450	450	450	66	3050	-
35	5.5	255	205	1.6	5.87	IE5	**BF40-../S5E11LA6**	25.5	85	170	255	305	205	205	205	205	205	92	3550	-
35	5.5	255	205	1.6	5.87	IE4	**BF40-../S4E11MA6**	25.5	85	170	255	305	155	176	205	205	205	80	3550	-
35	5.5	196	265	1.4	7.62	IE4	**BF40-../S4E11MA6**	19.5	65	131	196	235	200	225	265	265	265	80	3900	-
35	5.5	196	265	1.4	7.62	IE5	**BF40-../S5E11LA6**	19.5	65	131	196	235	265	265	265	265	265	92	3900	-
35	5.5	158	330	1.3	9.48	IE4	**BF40-../S4E11MA6**	15.5	52	105	158	189	250	280	330	330	330	80	4150	-
35	5.5	158	330	1.3	9.48	IE5	**BF40-../S5E11LA6**	15.5	52	105	158	189	330	330	330	330	330	92	4150	-
35	5.5	127	410	1.1	11.79	IE4	**BF40-../S4E11MA6**	12.5	42	84	127	152	310	350	410	410	410	80	4450	-
35	5.5	127	410	1.1	11.79	IE5	**BF40-../S5E11LA6**	12.5	42	84	127	152	410	410	410	410	410	92	4450	-
35	5.5	99	520	0.99	15.02	IE5	**BF40-../S5E11LA6**	9.9	33	66	99	119	520	520	520	520	520	92	4800	-
35	5.5	99	520	0.99	15.02	IE4	**BF40-../S4E11MA6**	9.9	33	66	99	119	395	450	520	520	520	80	4800	-
35	5.5	86	600	1	17.35	IE4	**BF40-../S4E11MA6**	8.6	28.5	57	86	103	455	520	600	600	600	80	4950	-
35	5.5	86	600	1	17.35	IE5	**BF40-../S5E11LA6**	8.6	28.5	57	86	103	600	600	600	600	600	92	4950	-
35	5.5	78	660	0.99	19.09	IE5	**BF40-../S5E11LA6**	7.8	26	52	78	94	660	660	660	660	660	92	5100	-
35	5.5	78	660	0.99	19.09	IE4	**BF40-../S4E11MA6**	7.8	26	52	78	94	500	570	660	660	660	80	5100	-
35	5.5	69	750	0.93	21.6	IE4	**BF40-../S4E11MA6**	6.9	23	46	69	83	570	640	750	750	750	80	5200	-
35	5.5	69	750	0.93	21.6	IE5	**BF40-../S5E11LA6**	6.9	23	46	69	83	750	750	750	750	750	92	5200	-
35	5.5	63	830	0.88	23.77	IE4	**BF40-../S4E11MA6**	6.3	21	42	63	75	620	710	830	830	830	80	5400	-
35	5.5	63	830	0.88	23.77	IE5	**BF40-../S5E11LA6**	6.3	21	42	63	75	830	830	830	830	830	92	5400	-
35	5.5	55	940	0.82	26.86	IE4	**BF40-../S4E11MA6**	5.5	18.5	37	55	67	710	800	940	940	940	80	5600	-
35	5.5	55	940	0.82	26.86	IE5	**BF40-../S5E11LA6**	5.5	18.5	37	55	67	940	940	940	940	940	92	5600	-
35	5.5	275	188	2.6	5.38	IE4	**BF50-../S4E11MA6**	27.5	92	185	275	330	142	161	188	188	188	110	4500	-
35	5.5	275	188	2.6	5.38	IE5	**BF50-../S5E11LA6**	27.5	92	185	275	330	188	188	188	188	188	122	4500	-
35	5.5	194	265	2.1	7.71	IE4	**BF50-../S4E11MA6**	19	64	129	194	230	200	230	265	265	265	110	5100	-
35	5.5	194	265	2.1	7.71	IE5	**BF50-../S5E11LA6**	19	64	129	194	230	265	265	265	265	265	122	5100	-
35	5.5	140	370	1.8	10.68	IE4	**BF50-../S4E11MA6**	14	46.5	93	140	168	280	320	370	370	370	110	5600	-
35	5.5	140	370	1.8	10.68	IE5	**BF50-../S5E11LA6**	14	46.5	93	140	168	370	370	370	370	370	122	5600	-
35	5.5	102	510	1.5	14.65	IE4	**BF50-../S4E11MA6**	10	34	68	102	122	385	435	510	510	510	110	6100	-
35	5.5	102	510	1.5	14.65	IE5	**BF50-../S5E11LA6**	10	34	68	102	122	510	510	510	510	510	122	6100	-
35	5.5	89	580	1.6	16.7	IE5	**BF50-../S5E11LA6**	8.9	29.5	59	89	107	580	580	580	580	580	122	6200	-
35	5.5	89	580	1.6	16.7	IE4	**BF50-../S4E11MA6**	8.9	29.5	59	89	107	440	500	580	580	580	110	6200	-
35	5.5	80	650	1.5	18.68	IE4	**BF50-../S4E11MA6**	8	26.5	53	80	96	495	560	650	650	650	110	6400	-
35	5.5	80	650	1.5	18.68	IE5	**BF50-../S5E11LA6**	8	26.5	53	80	96	650	650	650	650	650	122	6400	-
35	5.5	64	800	1.4	23.14	IE4	**BF50-../S4E11MA6**	6.4	21.5	43	64	77	610	690	800	800	800	110	6800	-
35	5.5	64	800	1.4	23.14	IE5	**BF50-../S5E11LA6**	6.4	21.5	43	64	77	800	800	800	800	800	122	6800	-
35	5.5	57	900	1.3	25.88	IE4	**BF50-../S4E11MA6**	5.7	19	38.5	57	69	680	770	900	900	900	110	7100	-
35	5.5	57	900	1.3	25.88	IE5	**BF50-../S5E11LA6**	5.7	19	38.5	57	69	900	900	900	900	900	122	7100	-
35	5.5	47	1110	1.1	31.73	IE5	**BF50-../S5E11LA6**	4.7	15.5	31.5	47	56	1110	1110	1110	1110	1110	122	7500	-
35	5.5	47	1110	1.1	31.73	IE4	**BF50-../S4E11MA6**	4.7	15.5	31.5	47	56	840	950	1110	1110	1110	110	7500	-
35	5.5	42	1240	1	35.49	IE4	**BF50-../S4E11MA6**	4.2	14	28	42	50	940	1060	1240	1240	1240	110	7800	-
35	5.5	42	1240	1	35.49	IE5	**BF50-../S5E11LA6**	4.2	14	28	42	50	1240	1240	1240	1240	1240	122	7800	-
35	5.5	35.5	1470	0.88	42.15	IE4	**BF50-../S4E11MA6**	3.5	11.5	23.5	35.5	42.5	1110	1260	1470	1470	1470	110	8500	-
35	5.5	35.5	1470	0.88	42.15	IE5	**BF50-../S5E11LA6**	3.5	11.5	23.5	35.5	42.5	1470	1470	1470	1470	1470	122	8500	-
35	5.5	145	360	2.8	10.31	IE4	**BF60-../S4E11MA6**	14.5	48	96	145	174	270	305	360	360	360	141	6500	18400
35	5.5	145	360	2.8	10.31	IE5	**BF60-../S5E11LA6**	14.5	48	96	145	174	360	360	360	360	360	153	6500	18400
35	5.5	105	495	2.4	14.24	IE5	**BF60-../S5E11LA6**	10.5	35	70	105	126	495	495	495	495	495	153	7100	20000
35	5.5	105	495	2.4	14.24	IE4	**BF60-../S4E11MA6**	10.5	35	70	105	126	375	425	495	495	495	141	7100	20000
35	5.5	88	590	2.4	16.96	IE5	**BF60-../S5E11LA6**	8.8	29	58	88	106	590	590	590	590	590	153	7300	20600
35	5.5	88	590	2.4	16.96	IE4	**BF60-../S4E11MA6**	8.8	29	58	88	106	445	500	590	590	590	141	7300	20600
35	5.5	79	650	2.3	18.81	IE5	**BF60-../S5E11LA6**	7.9	26.5	53	79	95	650	650	650	650	650	153	7600	21500
35	5.5	79	650	2.3	18.81	IE4	**BF60-../S4E11MA6**	7.9	26.5	53	79	95	495	560	650	650	650	141	7600	21500
35	5.5	66	790	2.1	22.58	IE4	**BF60-../S4E11MA6**	6.6	22	44	66	79	590	670	790	790	790	141	8000	22600
35	5.5	66	790	2.1	22.58	IE5	**BF60-../S5E11LA6**	6.6	22	44	66	79	790	790	790	790	790	153	8000	22600
35	5.5	59	870	2	25.05	IE4	**BF60-../S4E11MA6**	5.9	19.5	39.5	59	71	660	750	870	870	870	141	8200	23200
35	5.5	59	870	2	25.05	IE5	**BF60-../S5E11LA6**	5.9	19.5	39.5	59	71	870	870	870	870	870	153	8200	23200
35	5.5	48	1090	1.7	31.2	IE4	**BF60-../S4E11MA6**	4.8	16	32	48	57	820	930	1090	1090	1090	141	8800	24900
35	5.5	48	1090	1.7	31.2	IE5	**BF60-../S5E11LA6**	4.8	16	32	48	57	1090	1090	1090	1090	1090	153	8800	24900
35	5.5	43	1210	1.6	34.62	IE4	**BF60-../S4E11MA6**	4.3	14	28.5	43	51	910	1030	1210	1210	1210	141	9100	25700

MN = 35 Nm (PN = 5.5 kW)



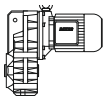
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
35	5.5	43	1210	1.6	34.62	IE5	**BF60-../S5E11LA6**	4.3	14	28.5	43	51	1210	1210	1210	1210	1210	153	9100	25700
35	5.5	36	1450	1.4	41.6	IE5	**BF60-../S5E11LA6**	3.6	12	24	36	43	1450	1450	1450	1450	1450	153	9600	27100
35	5.5	36	1450	1.4	41.6	IE4	**BF60-../S4E11MA6**	3.6	12	24	36	43	1100	1240	1450	1450	1450	141	9600	27100
35	5.5	32	1610	1.4	46.16	IE4	**BF60-../S4E11MA6**	3.2	10.5	21.5	32	38.5	1220	1380	1610	1610	1610	141	9900	28000
35	5.5	32	1610	1.4	46.16	IE5	**BF60-../S5E11LA6**	3.2	10.5	21.5	32	38.5	1610	1610	1610	1610	1610	153	9900	28000
35	5.5	27.5	1900	1.2	54.44	IE4	**BF60-../S4E11MA6**	2.7	9.1	18	27.5	33	1440	1630	1900	1900	1900	141	10500	29700
35	5.5	27.5	1900	1.2	54.44	IE5	**BF60-../S5E11LA6**	2.7	9.1	18	27.5	33	1900	1900	1900	1900	1900	153	10500	29700
35	5.5	24.5	2100	1.1	60.4	IE5	**BF60-../S5E11LA6**	2.4	8.2	16.5	24.5	29.5	2100	2100	2100	2100	2100	153	11100	31400
35	5.5	24.5	2100	1.1	60.4	IE4	**BF60-../S4E11MA6**	2.4	8.2	16.5	24.5	29.5	1600	1810	2100	2100	2100	141	11100	31400
35	5.5	20.5	2500	0.91	72.15	IE4	**BF60-../S4E11MA6**	2	6.9	13.5	20.5	24.5	1910	2150	2500	2500	2500	141	12000	34000
35	5.5	20.5	2500	0.91	72.15	IE5	**BF60-../S5E11LA6**	2	6.9	13.5	20.5	24.5	2500	2500	2500	2500	2500	153	12000	34000
35	5.5	18.5	2800	0.82	80.05	IE4	**BF60-../S4E11MA6**	1.8	6.2	12	18.5	22	2100	2400	2800	2800	2800	141	12600	35600
35	5.5	18.5	2800	0.82	80.05	IE5	**BF60-../S5E11LA6**	1.8	6.2	12	18.5	22	2800	2800	2800	2800	2800	153	12600	35600
35	5.5	26.5	1950	2.7	55.79	IE5	**BF70-../S5E11LA6**	2.6	8.9	17.5	26.5	32	1950	1950	1950	1950	1950	232	10200	36000
35	5.5	26.5	1950	2.7	55.79	IE4	**BF70-../S4E11MA6**	2.6	8.9	17.5	26.5	32	1470	1670	1950	1950	1950	220	10200	36000
35	5.5	24	2150	2.4	61.94	IE5	**BF70-../S5E11LA6**	2.4	8	16	24	29	2150	2150	2150	2150	2150	232	10800	37400
35	5.5	24	2150	2.4	61.94	IE4	**BF70-../S4E11MA6**	2.4	8	16	24	29	1640	1850	2150	2150	2150	220	10800	37400
35	5.5	20.5	2500	2.1	72.26	IE5	**BF70-../S5E11LA6**	2	6.9	13.5	20.5	24.5	2500	2500	2500	2500	2500	232	12000	39600
35	5.5	20.5	2500	2.1	72.26	IE4	**BF70-../S4E11MA6**	2	6.9	13.5	20.5	24.5	1910	2150	2500	2500	2500	220	12000	39600
35	5.5	18	2850	1.8	81.82	IE5	**BF70-../S5E11LA6**	1.8	6.1	12	18	21.5	2850	2850	2850	2850	2850	232	12800	41300
35	5.5	18	2850	1.8	81.82	IE4	**BF70-../S4E11MA6**	1.8	6.1	12	18	21.5	2150	2450	2850	2850	2850	220	12800	41300
35	5.5	15.5	3300	1.6	95.46	IE4	**BF70-../S4E11MA6**	1.5	5.2	10	15.5	18.5	2500	2850	3300	3300	3300	220	14000	43700
35	5.5	15.5	3300	1.6	95.46	IE5	**BF70-../S5E11LA6**	1.5	5.2	10	15.5	18.5	3300	3300	3300	3300	3300	232	14000	43700
35	5.5	14	3650	1.4	105.2	IE4	**BF70-../S4E11MA6**	1.4	4.7	9.5	14	17	2750	3150	3650	3650	3650	220	14700	45100
35	5.5	14	3650	1.4	105.2	IE5	**BF70-../S5E11LA6**	1.4	4.7	9.5	14	17	3650	3650	3650	3650	3650	232	14700	45100
35	5.5	12	4250	1.2	122.7	IE5	**BF70-../S5E11LA6**	1.2	4	8.1	12	14.5	4250	4250	4250	4250	4250	232	16100	47700
35	5.5	12	4250	1.2	122.7	IE4	**BF70-../S4E11MA6**	1.2	4	8.1	12	14.5	3250	3650	4250	4250	4250	220	16100	47700
35	5.5	11	4650	1.1	133	IE4	**BF70Z-../S4E11MA6**	1.1	3.7	7.5	11	13.5	3500	3950	4650	4650	4650	247	16100	47700
35	5.5	11	4650	1.1	133	IE5	**BF70Z-../S5E11LA6**	1.1	3.7	7.5	11	13.5	4650	4650	4650	4650	4650	258	16100	47700
35	5.5	9.7	5300	0.96	154	IE4	**BF70Z-../S4E11MA6**	0.95	3.2	6.4	9.7	11.5	4050	4600	5300	5300	5300	247	16100	47700
35	5.5	9.7	5300	0.96	154	IE5	**BF70Z-../S5E11LA6**	0.95	3.2	6.4	9.7	11.5	5300	5300	5300	5300	5300	258	16100	47700
35	5.5	8.3	6200	0.83	179.7	IE4	**BF70Z-../S4E11MA6**	0.8	2.7	5.5	8.3	10	4750	5300	6200	6200	6200	247	16100	47700
35	5.5	8.3	6200	0.83	179.7	IE5	**BF70Z-../S5E11LA6**	0.8	2.7	5.5	8.3	10	6200	6200	6200	6200	6200	258	16100	47700
35	5.5	15.5	3300	2.9	94.38	IE5	**BF80-../S5E11LA6**	1.5	5.2	10.5	15.5	19	3300	3300	3300	3300	3300	328	20300	68500
35	5.5	15.5	3300	2.9	94.38	IE4	**BF80-../S4E11MA6**	1.5	5.2	10.5	15.5	19	2500	2800	3300	3300	3300	316	20300	68500
35	5.5	13.5	3750	2.5	107.9	IE4	**BF80-../S4E11MA6**	1.3	4.6	9.2	13.5	16.5	2850	3200	3750	3750	3750	316	22400	72300
35	5.5	13.5	3750	2.5	107.9	IE5	**BF80-../S5E11LA6**	1.3	4.6	9.2	13.5	16.5	3750	3750	3750	3750	3750	328	22400	72300
35	5.5	12	4250	2.2	122.4	IE4	**BF80-../S4E11MA6**	1.2	4	8.1	12	14.5	3200	3650	4250	4250	4250	316	24500	75000
35	5.5	12	4250	2.2	122.4	IE5	**BF80-../S5E11LA6**	1.2	4	8.1	12	14.5	4250	4250	4250	4250	4250	328	24500	75000
35	5.5	10.5	4850	1.9	139.7	IE4	**BF80-../S4E11MA6**	1	3.5	7.1	10.5	12.5	3700	4150	4850	4850	4850	316	26700	75000
35	5.5	10.5	4850	1.9	139.7	IE5	**BF80-../S5E11LA6**	1	3.5	7.1	10.5	12.5	4850	4850	4850	4850	4850	328	26700	75000
35	5.5	9.4	5500	1.7	158.5	IE4	**BF80-../S4E11MA6**	0.9	3.1	6.3	9.4	11	4200	4750	5500	5500	5500	316	29000	75000
35	5.5	9.4	5500	1.7	158.5	IE5	**BF80-../S5E11LA6**	0.9	3.1	6.3	9.4	11	5500	5500	5500	5500	5500	328	29000	75000
35	5.5	8.1	6400	1.5	184.5	IE4	**BF80-../S4E11MA6**	0.8	2.7	5.4	8.1	9.7	4850	5500	6400	6400	6400	316	31800	75000
35	5.5	8.1	6400	1.5	184.5	IE5	**BF80-../S5E11LA6**	0.8	2.7	5.4	8.1	9.7	6400	6400	6400	6400	6400	328	31800	75000
35	5.5	7.1	7300	1.3	209.4	IE4	**BF80-../S4E11MA6**	0.7	2.3	4.7	7.1	8.5	5500	6200	7300	7300	7300	316	34300	75000
35	5.5	7.1	7300	1.3	209.4	IE5	**BF80-../S5E11LA6**	0.7	2.3	4.7	7.1	8.5	7300	7300	7300	7300	7300	328	34300	75000
35	5.5	6.3	8200	1.1	237.1	IE5	**BF80-../S5E11LA6**	0.6	2.1	4.2	6.3	7.5	8200	8200	8200	8200	8200	328	36900	75000
35	5.5	6.3	8200	1.1	237.1	IE4	**BF80-../S4E11MA6**	0.6	2.1	4.2	6.3	7.5	6200	7100	8200	8200	8200	316	36900	75000
35	5.5	5.5	9400	1	269.1	IE4	**BF80-../S4E11MA6**	0.55	1.8	3.7	5.5	6.6	7100	8000	9400	9400	9400	316	39600	75000
35	5.5	5.5	9400	1	269.1	IE5	**BF80-../S5E11LA6**	0.55	1.8	3.7	5.5	6.6	9400	9400	9400	9400	9400	328	39600	75000
35	5.5	5.1	10200	1	291.7	IE5	**BF80Z-../S5E11LA6**	0.5	1.7	3.4	5.1	6.1	10200	10200	10200	10200	10200	375	39600	75000
35	5.5	5.1	10200	1	291.7	IE4	**BF80Z-../S4E11MA6**	0.5	1.7	3.4	5.1	6.1	7700	8700	10200	10200	10200	363	39600	75000
35	5.5	4.3	12100	0.86	347.3	IE4	**BF80Z-../S4E11MA6**	0.43	1.4	2.8	4.3	5.1	9200	10400	12100	12100	12100	363	39600	75000
35	5.5	4.3	12100	0.86	347.3	IE5	**BF80Z-../S5E11LA6**	0.43	1.4	2.8	4.3	5.1	12100	12100	12100	12100	12100	375	39600	75000
35	5.5	8.3	6200	2.7	178.6	IE4	**BF90-../S4E11MA6**	0.8	2.7	5.5	8.3	10	4700	5300	6200	6200	6200	569	33400	106700
35	5.5	8.3	6200	2.7	178.6	IE5	**BF90-../S5E11LA6**	0.8	2.7	5.5	8.3	10	6200	6200	6200	6200	6200	581	33400	106700
35	5.5	7.5	6900	2.4	198.8	IE5	**BF90-../S5E11LA6**	0.75	2.5	5	7.5	9	6900	6900	6900	6900	6900	581	36000	111300
35	5.5	7.5	6900	2.4	198.8	IE4	**BF90-../S4E11MA6**	0.75	2.5	5	7.5	9	5200	5900	6900	6900	6900	569	36000	111300
35	5.5	6.4	8100	2.1	232.6	IE4	**BF90-../S4E11MA6**	0.6	2.1	4.2	6.4	7.7	6100	6900	8100	8100	8100	569	39900	118300
35	5.5	6.4	8100	2.1	232.6	IE5	**BF90-../S5E11LA6**	0.6	2.1	4.2	6.4	7.7	8100	8100	8100	8100	8100	581	39900	118300
35	5.5	5.7	9000	1.9	259	IE5	**BF90-../S5E11LA6**	0.55	1.9	3.8	5.7	6.9	9000	9000	9000	9000	9000	581	42800	120000
35	5.5	5.7	9000	1.9	259	IE4	**BF90-../S4E11MA6**	0.55	1.9	3.8	5.7	6.9	6800	7700	9000	9000	9000	569	42800	120000
35	5.5	5.5	9400	2	269.8	IE4	**BF90Z-../S4E11MA6**	0.55	1.8	3.7	5.5	6.6	7100	8000	9400	9400	9400	629	42800	120000
35	5.5	5.5	9400	2	269.8	IE5	**BF90Z-../S5E11LA6**	0.55	1.8	3.7	5.5	6.6	9400	9400	9400	9400	9400	641	42800	120000
35	5.5	4.9	10500	1.8	300.4	IE5	**BF90Z-../S5E11LA6**	0.49	1.6	3.3	4.9	5.9	10500	10500	10500	10500	10500	641	42800	120000
35	5.5	4.9	10500	1.8	300.4	IE4	**BF90Z-../S4E11MA6**	0.49	1.6	3.3	4.9	5.9	7900	9000	10500	10500	10500	629	42800	120000
35	5.5	4.3	12000	1.5	343.6	IE5	**BF90Z-../S5E11LA6**	0.43	1.4	2.9	4.3	5.2	12000	12000	12000	12000	12000	641	42800	120000
35	5.5	4.3	12000	1.5	343.6	IE4	**BF90Z-../S4E11MA6**	0.43	1.4	2.9	4.3	5.2	9100	10300	12000	12000	12000	629	42800	120000
35	5.5	3.9	13300	1.4	382.6	IE5	**BF90Z-../S5E11LA6**	0.39	1.3	2.6	3.9	4.7	13300	13300	13300	13300	13300	641	42800	120000
35	5.5	3.9	13300	1.4	382.6	IE4	**BF90Z-../S4E11MA6**	0.39	1.3	2.6	3.9	4.7	10100	11400	13300	13300	13300	629	42800	120000
35	5.5	3.2	15900	1.2	456.7	IE5	**BF90Z-../S5E11LA6**	0.32	1	2.1	3.2	3.9	15900	15900	15900	15900	15900	641	42800	120000
35	5.5	3.2	15900	1.2	456.7	IE4	**BF90Z-../S4E11MA6**	0.32	1	2.1	3.2	3.9	12100	13700	15900	15900	15900	629	42800	120000
35	5.5	2.9	17700	1	508.5	IE5	**BF90Z-../S5E11LA6**	0.29	0.95	1.9	2.9	3.5	17700	17700	17700	17700	17700	641	42800	120000
35	5.5	2.9	17700	1	508.5	IE4	**BF90Z-../S4E11MA6**	0.29	0.95	1.9	2.9	3.5	13400	15200	17700	17700	17700	629	42800	120000
35	5.5	2.5	20500	0.89	591.1	IE5	**BF90Z-../S5E11LA6**	0.25	0.8	1.6	2.5	3	20500	20500	20500	20500	20500	641	42800	120000
35	5.5	2.5	20500	0.89	591.1	IE4	**BF90Z-../S4E11MA6**	0.25	0.8	1.6	2.5	3	15600	17700	20500	20500	20500	629	42800	120000
35	5.5	2.2	23000	0.8	658.1	IE4	**BF90Z-../S4E11MA6**	0.22	0.75	1.5	2.2	2.7	17400	19700	23000	23000	23000	629	42800	120000
35	5.5	2.2	23000	0.8	658.1	IE5	**BF90Z-../S5E11LA6**	0.22	0.75	1.5	2.2	2.7	23000	23000	23000	23000	23000	641	42800	120000

MN = 48 Nm (PN = 7.5 kW)



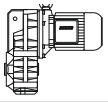
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
48	7.5	235	300	0.86	6.34	IE3	**BF30-../SPE11LA6**	23.5	78	157	235	280	220	250	300	300	300	78	2400	-
48	7.5	255	280	1.2	5.87	IE3	**BF40-../SPE11LA6**	25.5	85	170	255	305	205	230	280	280	280	92	3550	-
48	7.5	196	365	1	7.62	IE3	**BF40-../SPE11LA6**	19.5	65	131	196	235	265	300	365	365	365	92	3900	-
48	7.5	158	455	0.91	9.48	IE3	**BF40-../SPE11LA6**	15.5	52	105	158	189	330	375	455	455	455	92	4150	-
48	7.5	127	560	0.82	11.79	IE3	**BF40-../SPE11LA6**	12.5	42	84	127	152	410	470	560	560	560	92	4450	-
48	7.5	275	255	1.9	5.38	IE3	**BF50-../SPE11LA6**	27.5	92	185	275	330	188	215	255	255	255	122	4500	-
48	7.5	194	370	1.5	7.71	IE3	**BF50-../SPE11LA6**	19	64	129	194	230	265	305	370	370	370	122	5100	-
48	7.5	140	510	1.3	10.68	IE3	**BF50-../SPE11LA6**	14	46.5	93	140	168	370	425	510	510	510	122	5600	-
48	7.5	102	700	1.1	14.65	IE3	**BF50-../SPE11LA6**	10	34	68	102	122	510	580	700	700	700	122	6100	-
48	7.5	89	800	1.2	16.7	IE3	**BF50-../SPE11LA6**	8.9	29.5	59	89	107	580	660	800	800	800	122	6200	-
48	7.5	80	890	1.1	18.68	IE3	**BF50-../SPE11LA6**	8	26.5	53	80	96	650	740	890	890	890	122	6400	-
48	7.5	64	1110	0.99	23.14	IE3	**BF50-../SPE11LA6**	6.4	21.5	43	64	77	800	920	1110	1110	1110	122	6800	-
48	7.5	57	1240	0.93	25.88	IE3	**BF50-../SPE11LA6**	5.7	19	38.5	57	69	900	1030	1240	1240	1240	122	7100	-
48	7.5	47	1520	0.83	31.73	IE3	**BF50-../SPE11LA6**	4.7	15.5	31.5	47	56	1110	1260	1520	1520	1520	122	7500	-
48	7.5	285	250	3	5.22	IE3	**BF60-../SPE11LA6**	28.5	95	191	285	340	182	205	250	250	250	153	5200	14800
48	7.5	193	370	2.3	7.74	IE3	**BF60-../SPE11LA6**	19	64	129	193	230	270	305	370	370	370	153	6000	16900
48	7.5	145	490	2	10.31	IE3	**BF60-../SPE11LA6**	14.5	48	96	145	174	360	410	490	490	490	153	6500	18400
48	7.5	105	680	1.7	14.24	IE3	**BF60-../SPE11LA6**	10.5	35	70	105	126	495	560	680	680	680	153	7100	20000
48	7.5	88	810	1.8	16.96	IE3	**BF60-../SPE11LA6**	8.8	29	58	88	106	590	670	810	810	810	153	7300	20600
48	7.5	79	900	1.7	18.81	IE3	**BF60-../SPE11LA6**	7.9	26.5	53	79	95	650	750	900	900	900	153	7600	21500
48	7.5	66	1080	1.5	22.58	IE3	**BF60-../SPE11LA6**	6.6	22	44	66	79	790	900	1080	1080	1080	153	8000	22600
48	7.5	59	1200	1.4	25.05	IE3	**BF60-../SPE11LA6**	5.9	19.5	39.5	59	71	870	1000	1200	1200	1200	153	8200	23200
48	7.5	48	1490	1.3	31.2	IE3	**BF60-../SPE11LA6**	4.8	16	32	48	57	1090	1240	1490	1490	1490	153	8800	24900
48	7.5	43	1660	1.2	34.62	IE3	**BF60-../SPE11LA6**	4.3	14	28.5	43	51	1210	1380	1660	1660	1660	153	9100	25700
48	7.5	36	1990	1.1	41.6	IE3	**BF60-../SPE11LA6**	3.6	12	24	36	43	1450	1660	1990	1990	1990	153	9600	27100
48	7.5	32	2200	0.99	46.16	IE3	**BF60-../SPE11LA6**	3.2	10.5	21.5	32	38.5	1610	1840	2200	2200	2200	153	9900	28000
48	7.5	27.5	2600	0.88	54.44	IE3	**BF60-../SPE11LA6**	2.7	9.1	18	27.5	33	1900	2150	2600	2600	2600	153	10500	29700
48	7.5	40.5	1770	2.9	36.88	IE3	**BF70-../SPE11LA6**	4	13.5	27	40.5	48.5	1290	1470	1770	1770	1770	232	7900	31100
48	7.5	34.5	2050	2.5	43.02	IE3	**BF70-../SPE11LA6**	3.4	11.5	23	34.5	41.5	1500	1720	2050	2050	2050	232	8700	32800
48	7.5	31	2250	2.3	47.82	IE3	**BF70-../SPE11LA6**	3.1	10	20.5	31	37.5	1670	1910	2250	2250	2250	232	9100	34000
48	7.5	26.5	2650	1.9	55.79	IE3	**BF70-../SPE11LA6**	2.6	8.9	17.5	26.5	32	1950	2200	2650	2650	2650	232	10200	36000
48	7.5	24	2950	1.7	61.94	IE3	**BF70-../SPE11LA6**	2.4	8	16	24	29	2150	2450	2950	2950	2950	232	10800	37400
48	7.5	20.5	3450	1.5	72.26	IE3	**BF70-../SPE11LA6**	2	6.9	13.5	20.5	24.5	2500	2850	3450	3450	3450	232	12000	39600
48	7.5	18	3900	1.3	81.82	IE3	**BF70-../SPE11LA6**	1.8	6.1	12	18	21.5	2850	3250	3900	3900	3900	232	12800	41300
48	7.5	15.5	4550	1.1	95.46	IE3	**BF70-../SPE11LA6**	1.5	5.2	10	15.5	18.5	3300	3800	4550	4550	4550	232	14000	43700
48	7.5	14	5000	1	105.2	IE3	**BF70-../SPE11LA6**	1.4	4.7	9.5	14	17	3650	4200	5000	5000	5000	232	14700	45100
48	7.5	12	5800	0.88	122.7	IE3	**BF70-../SPE11LA6**	1.2	4	8.1	12	14.5	4250	4900	5800	5800	5800	232	16100	47700
48	7.5	11	6300	0.81	133	IE3	**BF70Z-../SPE11LA6**	1.1	3.7	7.5	11	13.5	4650	5300	6300	6300	6300	258	16100	47700
48	7.5	21	3350	2.8	69.86	IE3	**BF80-../SPE11LA6**	2.1	7.1	14	21	25.5	2400	2750	3350	3350	3350	328	15900	60600
48	7.5	18	3950	2.4	83.16	IE3	**BF80-../SPE11LA6**	1.8	6	12	18	21.5	2900	3300	3950	3950	3950	328	18400	65100
48	7.5	15.5	4500	2.1	94.38	IE3	**BF80-../SPE11LA6**	1.5	5.2	10.5	15.5	19	3300	3750	4500	4500	4500	328	20300	68500
48	7.5	13.5	5100	1.8	107.9	IE3	**BF80-../SPE11LA6**	1.3	4.6	9.2	13.5	16.5	3750	4300	5100	5100	5100	328	22400	72300
48	7.5	12	5800	1.6	122.4	IE3	**BF80-../SPE11LA6**	1.2	4	8.1	12	14.5	4250	4850	5800	5800	5800	328	24500	75000
48	7.5	10.5	6700	1.4	139.7	IE3	**BF80-../SPE11LA6**	1	3.5	7.1	10.5	12.5	4850	5500	6700	6700	6700	328	26700	75000
48	7.5	9.4	7600	1.2	158.5	IE3	**BF80-../SPE11LA6**	0.9	3.1	6.3	9.4	11	5500	6300	7600	7600	7600	328	29000	75000
48	7.5	8.1	8800	1.1	184.5	IE3	**BF80-../SPE11LA6**	0.8	2.7	5.4	8.1	9.7	6400	7300	8800	8800	8800	328	31800	75000
48	7.5	7.1	10000	0.95	209.4	IE3	**BF80-../SPE11LA6**	0.7	2.3	4.7	7.1	8.5	7300	8300	10000	10000	10000	328	34300	75000
48	7.5	6.3	11300	0.83	237.1	IE3	**BF80-../SPE11LA6**	0.6	2.1	4.2	6.3	7.5	8200	9400	11300	11300	11300	328	36900	75000
48	7.5	12.5	5700	2.9	119.7	IE3	**BF90-../SPE11LA6**	1.2	4.1	8.3	12.5	15	4150	4750	5700	5700	5700	581	24500	90800
48	7.5	10.5	6600	2.5	139.1	IE3	**BF90-../SPE11LA6**	1	3.5	7.1	10.5	12.5	4850	5500	6600	6600	6600	581	27700	96300
48	7.5	9.6	7400	2.3	154.8	IE3	**BF90-../SPE11LA6**	0.95	3.2	6.4	9.6	11.5	5400	6100	7400	7400	7400	581	30100	100800
48	7.5	8.3	8500	2	178.6	IE3	**BF90-../SPE11LA6**	0.8	2.7	5.5	8.3	10	6200	7100	8500	8500	8500	581	33400	106700
48	7.5	7.5	9500	1.8	198.8	IE3	**BF90-../SPE11LA6**	0.75	2.5	5	7.5	9	6900	7900	9500	9500	9500	581	36000	111300
48	7.5	6.4	11100	1.5	232.6	IE3	**BF90-../SPE11LA6**	0.6	2.1	4.2	6.4	7.7	8100	9300	11100	11100	11100	581	39900	118300
48	7.5	5.7	12400	1.4	259	IE3	**BF90-../SPE11LA6**	0.55	1.9	3.8	5.7	6.9	9000	10300	12400	12400	12400	581	42800	120000
48	7.5	5.5	12900	1.4	269.8	IE3	**BF90Z-../SPE11LA6**	0.55	1.8	3.7	5.5	6.6	9400	10700	12900	12900	12900	641	42800	120000
48	7.5	4.9	14400	1.3	300.4	IE3	**BF90Z-../SPE11LA6**	0.49	1.6	3.3	4.9	5.9	10500	12000	14400	14400	14400	641	42800	120000
48	7.5	4.3	16400	1.1	343.6	IE3	**BF90Z-../SPE11LA6**	0.43	1.4	2.9	4.3	5.2	12000	13700	16400	16400	16400	641	42800	120000
48	7.5	3.9	18300	1	382.6	IE3	**BF90Z-../SPE11LA6**	0.39	1.3	2.6	3.9	4.7	13300	15300	18300	18300	18300	641	42800	120000
48	7.5	3.2	21500	0.84	456.7	IE3	**BF90Z-../SPE11LA6**	0.32	1	2.1	3.2	3.9	15900	18200	21500	21500	21500	641	42800	120000

MN = 0.65 Nm (PN = 0.2 kW)



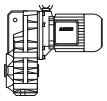
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
0.65	0.2	19.5	98	2.4	151.2	IE5	**BF10Z-../S5E04SA4-1**	0.95	3.3	6.6	19.5	23.5	98	98	98	98	98	21	6400	-
0.65	0.2	18	108	2.2	166.2	IE5	**BF10Z-../S5E04SA4-1**	0.9	3	6	18	21.5	108	108	108	108	108	21	6400	-
0.65	0.2	16.5	117	2.1	180.1	IE5	**BF10Z-../S5E04SA4-1**	0.8	2.7	5.5	16.5	19.5	117	117	117	117	117	21	6400	-
0.65	0.2	15	128	1.9	198	IE5	**BF10Z-../S5E04SA4-1**	0.75	2.5	5	15	18	128	128	128	128	128	21	6400	-
0.65	0.2	13.5	139	1.7	214.5	IE5	**BF10Z-../S5E04SA4-1**	0.65	2.3	4.6	13.5	16.5	139	139	139	139	139	21	6400	-
0.65	0.2	12.5	153	1.6	235.8	IE5	**BF10Z-../S5E04SA4-1**	0.6	2.1	4.2	12.5	15	153	153	153	153	153	21	6400	-
0.65	0.2	11.5	167	1.4	257.4	IE5	**BF10Z-../S5E04SA4-1**	0.55	1.9	3.8	11.5	13.5	167	167	167	167	167	21	6400	-
0.65	0.2	10.5	184	1.3	283.1	IE5	**BF10Z-../S5E04SA4-1**	0.5	1.7	3.5	10.5	12.5	184	184	184	184	184	21	6400	-
0.65	0.2	9.2	210	1.1	324.3	IE5	**BF10Z-../S5E04SA4-1**	0.46	1.5	3	9.2	11	210	210	210	210	210	21	6400	-
0.65	0.2	8.4	230	1	356.6	IE5	**BF10Z-../S5E04SA4-1**	0.42	1.4	2.8	8.4	10	230	230	230	230	230	21	6400	-
0.65	0.2	7.8	245	0.97	380.2	IE5	**BF10Z-../S5E04SA4-1**	0.39	1.3	2.6	7.8	9.4	245	245	245	245	245	21	6400	-
0.65	0.2	7.1	270	0.88	418	IE5	**BF10Z-../S5E04SA4-1**	0.35	1.1	2.3	7.1	8.6	270	270	270	270	270	21	6400	-
0.65	0.2	9.3	205	1.2	322.3	IE5	**BF10G06-../S5E04SA4-1**	0.46	1.5	3.1	9.3	11	205	205	205	205	205	25	6400	-
0.65	0.2	7.9	245	1.1	377.9	IE5	**BF10G06-../S5E04SA4-1**	0.39	1.3	2.6	7.9	9.5	245	245	245	245	245	25	6400	-
0.65	0.2	7	275	0.94	424.5	IE5	**BF10G06-../S5E04SA4-1**	0.35	1.1	2.3	7	8.4	275	275	275	275	275	25	6400	-
0.65	0.2	13.5	140	3	216.9	IE5	**BF20Z-../S5E04SA4-1**	0.65	2.3	4.6	13.5	16.5	140	140	140	140	140	28	7900	-
0.65	0.2	12.5	153	2.7	235.9	IE5	**BF20Z-../S5E04SA4-1**	0.6	2.1	4.2	12.5	15	153	153	153	153	153	28	7900	-
0.65	0.2	11.5	168	2.5	259.6	IE5	**BF20Z-../S5E04SA4-1**	0.55	1.9	3.8	11.5	13.5	168	168	168	168	168	28	7900	-
0.65	0.2	10	192	2.2	295.5	IE5	**BF20Z-../S5E04SA4-1**	0.5	1.6	3.3	10	12	192	192	192	192	192	28	7900	-
0.65	0.2	9.2	210	2	325.2	IE5	**BF20Z-../S5E04SA4-1**	0.46	1.5	3	9.2	11	210	210	210	210	210	28	7900	-
0.65	0.2	8.8	220	1.9	339.1	IE5	**BF20Z-../S5E04SA4-1**	0.44	1.4	2.9	8.8	10.5	220	220	220	220	220	28	7900	-
0.65	0.2	8	240	1.7	373.1	IE5	**BF20Z-../S5E04SA4-1**	0.4	1.3	2.6	8	9.6	240	240	240	240	240	28	7900	-
0.65	0.2	7.1	270	1.5	418.1	IE5	**BF20Z-../S5E04SA4-1**	0.35	1.1	2.3	7.1	8.6	270	270	270	270	270	28	7900	-
0.65	0.2	6.5	295	1.4	460	IE5	**BF20Z-../S5E04SA4-1**	0.32	1	2.1	6.5	7.8	295	295	295	295	295	28	7900	-
0.65	0.2	5.8	330	1.4	513.7	IE5	**BF20G06-../S5E04SA4-1**	0.29	0.95	1.9	5.8	7	330	330	330	330	330	31	7900	-
0.65	0.2	4.8	400	1.1	617	IE5	**BF20G06-../S5E04SA4-1**	0.24	0.8	1.6	4.8	5.8	400	400	400	400	400	31	7900	-
0.65	0.2	4	475	0.96	736.1	IE5	**BF20G06-../S5E04SA4-1**	0.2	0.65	1.3	4	4.8	475	475	475	475	475	31	7900	-
0.65	0.2	3.7	520	0.87	810	IE5	**BF20G06-../S5E04SA4-1**	0.18	0.6	1.2	3.7	4.4	520	520	520	520	520	31	7900	-
0.65	0.2	4.8	400	1.6	622.4	IE5	**BF30G06-../S5E04SA4-1**	0.24	0.8	1.6	4.8	5.7	400	400	400	400	400	41	7400	-
0.65	0.2	4.2	455	1.4	705.1	IE5	**BF30G06-../S5E04SA4-1**	0.21	0.7	1.4	4.2	5.1	455	455	455	455	455	41	7400	-
0.65	0.2	3.6	530	1.2	817.1	IE5	**BF30G06-../S5E04SA4-1**	0.18	0.6	1.2	3.6	4.4	530	530	530	530	530	41	7400	-
0.65	0.2	3.1	620	1	961.1	IE5	**BF30G06-../S5E04SA4-1**	0.15	0.5	1	3.1	3.7	620	620	620	620	620	41	7400	-
0.65	0.2	2.6	740	0.84	1150	IE5	**BF30G06-../S5E04SA4-1**	0.13	0.43	0.85	2.6	3.1	740	740	740	740	740	41	7400	-

MN = 0.8 Nm (PN = 0.25 kW)



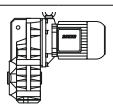
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
0.8	0.25	19.5	120	2	151.2	IE5	**BF10Z-../S5E04SA4-1**	0.95	3.3	6.6	19.5	23.5	114	120	120	120	120	21	6400	-
0.8	0.25	18	132	1.8	166.2	IE5	**BF10Z-../S5E04SA4-1**	0.9	3	6	18	21.5	126	132	132	132	132	21	6400	-
0.8	0.25	16.5	144	1.7	180.1	IE5	**BF10Z-../S5E04SA4-1**	0.8	2.7	5.5	16.5	19.5	136	144	144	144	144	21	6400	-
0.8	0.25	15	158	1.5	198	IE5	**BF10Z-../S5E04SA4-1**	0.75	2.5	5	15	18	150	158	158	158	158	21	6400	-
0.8	0.25	13.5	171	1.4	214.5	IE5	**BF10Z-../S5E04SA4-1**	0.65	2.3	4.6	13.5	16.5	163	171	171	171	171	21	6400	-
0.8	0.25	12.5	188	1.3	235.8	IE5	**BF10Z-../S5E04SA4-1**	0.6	2.1	4.2	12.5	15	179	188	188	188	188	21	6400	-
0.8	0.25	11.5	205	1.2	257.4	IE5	**BF10Z-../S5E04SA4-1**	0.55	1.9	3.8	11.5	13.5	195	205	205	205	205	21	6400	-
0.8	0.25	10.5	225	1.1	283.1	IE5	**BF10Z-../S5E04SA4-1**	0.5	1.7	3.5	10.5	12.5	215	225	225	225	225	21	6400	-
0.8	0.25	9.2	255	0.93	324.3	IE5	**BF10Z-../S5E04SA4-1**	0.46	1.5	3	9.2	11	245	255	255	255	255	21	6400	-
0.8	0.25	8.4	285	0.84	356.6	IE5	**BF10Z-../S5E04SA4-1**	0.42	1.4	2.8	8.4	10	270	285	285	285	285	21	6400	-
0.8	0.25	9.3	255	1	322.3	IE5	**BF10G06-../S5E04SA4-1**	0.46	1.5	3.1	9.3	11	240	255	255	255	255	25	6400	-
0.8	0.25	7.9	300	0.86	377.9	IE5	**BF10G06-../S5E04SA4-1**	0.39	1.3	2.6	7.9	9.5	285	300	300	300	300	25	6400	-
0.8	0.25	16.5	144	2.9	180.8	IE5	**BF20Z-../S5E04SA4-1**	0.8	2.7	5.5	16.5	19.5	137	144	144	144	144	28	7900	-
0.8	0.25	15	157	2.7	197.1	IE5	**BF20Z-../S5E04SA4-1**	0.75	2.5	5	15	18	149	157	157	157	157	28	7900	-
0.8	0.25	13.5	173	2.4	216.9	IE5	**BF20Z-../S5E04SA4-1**	0.65	2.3	4.6	13.5	16.5	164	173	173	173	173	28	7900	-
0.8	0.25	12.5	188	2.2	235.9	IE5	**BF20Z-../S5E04SA4-1**	0.6	2.1	4.2	12.5	15	179	188	188	188	188	28	7900	-
0.8	0.25	11.5	205	2	259.6	IE5	**BF20Z-../S5E04SA4-1**	0.55	1.9	3.8	11.5	13.5	197	205	205	205	205	28	7900	-
0.8	0.25	10	235	1.8	295.5	IE5	**BF20Z-../S5E04SA4-1**	0.5	1.6	3.3	10	12	220	235	235	235	235	28	7900	-
0.8	0.25	9.2	260	1.6	325.2	IE5	**BF20Z-../S5E04SA4-1**	0.46	1.5	3	9.2	11	245	260	260	260	260	28	7900	-
0.8	0.25	8.8	270	1.5	339.1	IE5	**BF20Z-../S5E04SA4-1**	0.44	1.4	2.9	8.8	10.5	255	270	270	270	270	28	7900	-
0.8	0.25	8	295	1.4	373.1	IE5	**BF20Z-../S5E04SA4-1**	0.4	1.3	2.6	8	9.6	280	295	295	295	295	28	7900	-
0.8	0.25	7.1	330	1.3	418.1	IE5	**BF20Z-../S5E04SA4-1**	0.35	1.1	2.3	7.1	8.6	315	330	330	330	330	28	7900	-
0.8	0.25	6.5	365	1.1	460	IE5	**BF20Z-../S5E04SA4-1**	0.32	1	2.1	6.5	7.8	345	365	365	365	365	28	7900	-
0.8	0.25	5.8	410	1.1	513.7	IE5	**BF20G06-../S5E04SA4-1**	0.29	0.95	1.9	5.8	7	390	410	410	410	410	31	7900	-
0.8	0.25	4.8	490	0.93	617	IE5	**BF20G06-../S5E04SA4-1**	0.24	0.8	1.6	4.8	5.8	465	490	490	490	490	31	7900	-
0.8	0.25	4.8	495	1.3	622.4	IE5	**BF30G06-../S5E04SA4-1**	0.24	0.8	1.6	4.8	5.7	470	495	495	495	495	41	7400	-
0.8	0.25	4.2	560	1.1	705.1	IE5	**BF30G06-../S5E04SA4-1**	0.21	0.7	1.4	4.2	5.1	530	560	560	560	560	41	7400	-
0.8	0.25	3.6	650	0.96	817.1	IE5	**BF30G06-../S5E04SA4-1**	0.18	0.6	1.2	3.6	4.4	620	650	650	650	650	41	7400	-
0.8	0.25	3.1	760	0.82	961.1	IE5	**BF30G06-../S5E04SA4-1**	0.15	0.5	1	3.1	3.7	730	760	760	760	760	41	7400	-

MN = 1 Nm (PN = 0.315 kW)



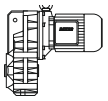
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
1	0.315	19.5	151	1.6	151.2	IE4	**BF10Z-../S4E04SA4-1**	0.95	3.3	6.6	19.5	23.5	114	128	151	151	151	21	6400	-
1	0.315	18	166	1.4	166.2	IE4	**BF10Z-../S4E04SA4-1**	0.9	3	6	18	21.5	126	141	166	166	166	21	6400	-
1	0.315	16.5	180	1.3	180.1	IE4	**BF10Z-../S4E04SA4-1**	0.8	2.7	5.5	16.5	19.5	136	153	180	180	180	21	6400	-
1	0.315	15	198	1.2	198	IE4	**BF10Z-../S4E04SA4-1**	0.75	2.5	5	15	18	150	168	198	198	198	21	6400	-
1	0.315	13.5	210	1.1	214.5	IE4	**BF10Z-../S4E04SA4-1**	0.65	2.3	4.6	13.5	16.5	163	182	210	210	210	21	6400	-
1	0.315	12.5	235	1	235.8	IE4	**BF10Z-../S4E04SA4-1**	0.6	2.1	4.2	12.5	15	179	200	235	235	235	21	6400	-
1	0.315	11.5	255	0.93	257.4	IE4	**BF10Z-../S4E04SA4-1**	0.55	1.9	3.8	11.5	13.5	195	215	255	255	255	21	6400	-
1	0.315	10.5	280	0.85	283.1	IE4	**BF10Z-../S4E04SA4-1**	0.5	1.7	3.5	10.5	12.5	215	240	280	280	280	21	6400	-
1	0.315	9.3	320	0.81	322.3	IE4	**BF10G06-../S4E04SA4-1**	0.46	1.5	3.1	9.3	11	240	270	320	320	320	25	6400	-
1	0.315	21	141	3	141.2	IE4	**BF20Z-../S4E04SA4-1**	1	3.5	7	21	25	107	120	141	141	141	28	7900	-
1	0.315	19	155	2.7	155.4	IE4	**BF20Z-../S4E04SA4-1**	0.95	3.2	6.4	19	23	118	132	155	155	155	28	7900	-
1	0.315	18	164	2.6	164.3	IE4	**BF20Z-../S4E04SA4-1**	0.9	3	6	18	21.5	124	139	164	164	164	28	7900	-
1	0.315	16.5	180	2.3	180.8	IE4	**BF20Z-../S4E04SA4-1**	0.8	2.7	5.5	16.5	19.5	137	153	180	180	180	28	7900	-
1	0.315	15	197	2.1	197.1	IE4	**BF20Z-../S4E04SA4-1**	0.75	2.5	5	15	18	149	167	197	197	197	28	7900	-
1	0.315	13.5	215	1.9	216.9	IE4	**BF20Z-../S4E04SA4-1**	0.65	2.3	4.6	13.5	16.5	164	184	215	215	215	28	7900	-
1	0.315	12.5	235	1.8	235.9	IE4	**BF20Z-../S4E04SA4-1**	0.6	2.1	4.2	12.5	15	179	200	235	235	235	28	7900	-
1	0.315	11.5	255	1.6	259.6	IE4	**BF20Z-../S4E04SA4-1**	0.55	1.9	3.8	11.5	13.5	197	220	255	255	255	28	7900	-
1	0.315	10	295	1.4	295.5	IE4	**BF20Z-../S4E04SA4-1**	0.5	1.6	3.3	10	12	220	250	295	295	295	28	7900	-
1	0.315	9.2	325	1.3	325.2	IE4	**BF20Z-../S4E04SA4-1**	0.46	1.5	3	9.2	11	245	275	325	325	325	28	7900	-
1	0.315	8.8	335	1.2	339.1	IE4	**BF20Z-../S4E04SA4-1**	0.44	1.4	2.9	8.8	10.5	255	285	335	335	335	28	7900	-
1	0.315	8	370	1.1	373.1	IE4	**BF20Z-../S4E04SA4-1**	0.4	1.3	2.6	8	9.6	280	315	370	370	370	28	7900	-
1	0.315	7.1	415	1	418.1	IE4	**BF20Z-../S4E04SA4-1**	0.35	1.1	2.3	7.1	8.6	315	355	415	415	415	28	7900	-
1	0.315	6.5	460	0.91	460	IE4	**BF20Z-../S4E04SA4-1**	0.32	1	2.1	6.5	7.8	345	390	460	460	460	28	7900	-
1	0.315	5.8	510	0.9	513.7	IE4	**BF20G06-../S4E04SA4-1**	0.29	0.95	1.9	5.8	7	390	435	510	510	510	31	7900	-
1	0.315	4.8	620	1	622.4	IE4	**BF30G06-../S4E04SA4-1**	0.24	0.8	1.6	4.8	5.7	470	520	620	620	620	41	7400	-
1	0.315	4.2	700	0.89	705.1	IE4	**BF30G06-../S4E04SA4-1**	0.21	0.7	1.4	4.2	5.1	530	590	700	700	700	41	7400	-

MN = 1.3 Nm (PN = 0.4 kW)



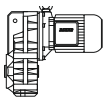
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
1.3	0.4	112	34.5	2.7	26.76	IE5	**BF06-../S5E06MA4**	5.6	18.5	37	112	134	34.5	34.5	34.5	34.5	34.5	12	3000	-
1.3	0.4	95	40.5	2.3	31.5	IE5	**BF06-../S5E06MA4**	4.7	15.5	31.5	95	114	40.5	40.5	40.5	40.5	40.5	12	3200	-
1.3	0.4	79	48.5	1.9	37.69	IE5	**BF06-../S5E06MA4**	3.9	13	26.5	79	95	48.5	48.5	48.5	48.5	48.5	12	3500	-
1.3	0.4	65	59	1.6	46.14	IE5	**BF06-../S5E06MA4**	3.2	10.5	21.5	65	78	59	59	59	59	59	12	3800	-
1.3	0.4	51	75	1.3	58.33	IE5	**BF06-../S5E06MA4**	2.5	8.5	17	51	61	75	75	75	75	75	12	4000	-
1.3	0.4	44.5	86	1.1	66.82	IE5	**BF06-../S5E06MA4**	2.2	7.4	14.5	44.5	53	86	86	86	86	86	12	4000	-
1.3	0.4	35.5	108	0.87	83.61	IE5	**BF06-../S5E06MA4**	1.7	5.9	11.5	35.5	43	108	108	108	108	108	12	4000	-
1.3	0.4	48.5	80	3	61.55	IE5	**BF10-../S5E06MA4**	2.4	8.1	16	48.5	58	80	80	80	80	80	23	4700	-
1.3	0.4	44	87	2.7	67.69	IE5	**BF10-../S5E06MA4**	2.2	7.3	14.5	44	53	87	87	87	87	87	23	4900	-
1.3	0.4	38.5	100	2.4	77.55	IE5	**BF10-../S5E06MA4**	1.9	6.4	12.5	38.5	46	100	100	100	100	100	23	5100	-
1.3	0.4	35	110	2.2	85.27	IE5	**BF10-../S5E06MA4**	1.7	5.8	11.5	35	42	110	110	110	110	110	23	5300	-
1.3	0.4	32.5	118	2	90.91	IE5	**BF10-../S5E06MA4**	1.6	5.4	10.5	32.5	39.5	118	118	118	118	118	23	5400	-
1.3	0.4	30	129	1.8	99.97	IE5	**BF10-../S5E06MA4**	1.5	5	10	30	36	129	129	129	129	129	23	5600	-
1.3	0.4	26.5	145	1.6	112.3	IE5	**BF10-../S5E06MA4**	1.3	4.4	8.9	26.5	32	145	145	145	145	145	23	5900	-
1.3	0.4	24	160	1.5	123.5	IE5	**BF10-../S5E06MA4**	1.2	4	8	24	29	160	160	160	160	160	23	6100	-
1.3	0.4	23	167	1.4	128.9	IE5	**BF10-../S5E06MA4**	1.1	3.8	7.7	23	27.5	167	167	167	167	167	23	6200	-
1.3	0.4	21	184	1.3	141.8	IE5	**BF10-../S5E06MA4**	1	3.5	7	21	25	184	184	184	184	184	23	6400	-
1.3	0.4	19.5	196	1.2	151.2	IE5	**BF10Z-../S5E06MA4**	0.95	3.3	6.6	19.5	23.5	196	196	196	196	196	24	6400	-
1.3	0.4	18	215	1.1	166.2	IE5	**BF10Z-../S5E06MA4**	0.9	3	6	18	21.5	215	215	215	215	215	24	6400	-
1.3	0.4	16.5	230	1	180.1	IE5	**BF10Z-../S5E06MA4**	0.8	2.7	5.5	16.5	19.5	230	230	230	230	230	24	6400	-
1.3	0.4	15	255	0.93	198	IE5	**BF10Z-../S5E06MA4**	0.75	2.5	5	15	18	255	255	255	255	255	24	6400	-
1.3	0.4	13.5	275	0.86	214.5	IE5	**BF10Z-../S5E06MA4**	0.65	2.3	4.6	13.5	16.5	275	275	275	275	275	24	6400	-
1.3	0.4	27	143	2.9	110.2	IE5	**BF20-../S5E06MA4**	1.3	4.5	9	27	32.5	143	143	143	143	143	30	7300	-
1.3	0.4	24	160	2.6	123.5	IE5	**BF20-../S5E06MA4**	1.2	4	8	24	29	160	160	160	160	160	30	7600	-
1.3	0.4	22	176	2.4	135.9	IE5	**BF20-../S5E06MA4**	1.1	3.6	7.3	22	26	176	176	176	176	176	30	7900	-
1.3	0.4	21	183	2.3	141.2	IE5	**BF20Z-../S5E06MA4**	1	3.5	7	21	25	183	183	183	183	183	31	7900	-
1.3	0.4	19	200	2.1	155.4	IE5	**BF20Z-../S5E06MA4**	0.95	3.2	6.4	19	23	200	200	200	200	200	31	7900	-
1.3	0.4	18	210	2	164.3	IE5	**BF20Z-../S5E06MA4**	0.9	3	6	18	21.5	210	210	210	210	210	31	7900	-
1.3	0.4	16.5	235	1.8	180.8	IE5	**BF20Z-../S5E06MA4**	0.8	2.7	5.5	16.5	19.5	235	235	235	235	235	31	7900	-
1.3	0.4	15	255	1.6	197.1	IE5	**BF20Z-../S5E06MA4**	0.75	2.5	5	15	18	255	255	255	255	255	31	7900	-
1.3	0.4	13.5	280	1.5	216.9	IE5	**BF20Z-../S5E06MA4**	0.65	2.3	4.6	13.5	16.5	280	280	280	280	280	31	7900	-
1.3	0.4	12.5	305	1.4	235.9	IE5	**BF20Z-../S5E06MA4**	0.6	2.1	4.2	12.5	15	305	305	305	305	305	31	7900	-
1.3	0.4	11.5	335	1.2	259.6	IE5	**BF20Z-../S5E06MA4**	0.55	1.9	3.8	11.5	13.5	335	335	335	335	335	31	7900	-
1.3	0.4	10	380	1.1	295.5	IE5	**BF20Z-../S5E06MA4**	0.5	1.6	3.3	10	12	380	380	380	380	380	31	7900	-
1.3	0.4	9.2	420	0.99	325.2	IE5	**BF20Z-../S5E06MA4**	0.46	1.5	3	9.2	11	420	420	420	420	420	31	7900	-
1.3	0.4	8.8	440	0.95	339.1	IE5	**BF20Z-../S5E06MA4**	0.44	1.4	2.9	8.8	10.5	440	440	440	440	440	31	7900	-
1.3	0.4	8	485	0.87	373.1	IE5	**BF20Z-../S5E06MA4**	0.4	1.3	2.6	8	9.6	485	485	485	485	485	31	7900	-
1.3	0.4	19.5	195	2.9	150.7	IE5	**BF30Z-../S5E06MA4**	0.95	3.3	6.6	19.5	23.5	195	195	195	195	195	42	7400	-
1.3	0.4	18	215	2.6	165.8	IE5	**BF30Z-../S5E06MA4**	0.9	3	6	18	21.5	215	215	215	215	215	42	7400	-
1.3	0.4	16.5	225	2.5	176.6	IE5	**BF30Z-../S5E06MA4**	0.8	2.8	5.6	16.5	20	225	225	225	225	225	42	7400	-

MN = 1.3 Nm (PN = 0.4 kW)



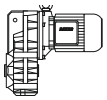
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
1.3	0.4	15	250	2.3	194.3	IE5	**BF30Z-../S5E06MA4**	0.75	2.5	5.1	15	18.5	250	250	250	250	250	42	7400	-
1.3	0.4	13	290	2	224.8	IE5	**BF30Z-../S5E06MA4**	0.65	2.2	4.4	13	16	290	290	290	290	290	42	7400	-
1.3	0.4	12	320	1.8	247.3	IE5	**BF30Z-../S5E06MA4**	0.6	2	4	12	14.5	320	320	320	320	320	42	7400	-
1.3	0.4	11	340	1.7	263.5	IE5	**BF30Z-../S5E06MA4**	0.55	1.8	3.7	11	13.5	340	340	340	340	340	42	7400	-
1.3	0.4	10	375	1.5	289.8	IE5	**BF30Z-../S5E06MA4**	0.5	1.7	3.4	10	12	375	375	375	375	375	42	7400	-
1.3	0.4	9.6	400	1.4	310.7	IE5	**BF30Z-../S5E06MA4**	0.48	1.6	3.2	9.6	11.5	400	400	400	400	400	42	7400	-
1.3	0.4	8.7	440	1.3	341.8	IE5	**BF30Z-../S5E06MA4**	0.43	1.4	2.9	8.7	10.5	440	440	440	440	440	42	7400	-
1.3	0.4	7.9	485	1.2	375.1	IE5	**BF30Z-../S5E06MA4**	0.39	1.3	2.6	7.9	9.5	485	485	485	485	485	42	7400	-
1.3	0.4	7.2	530	1.1	412.6	IE5	**BF30Z-../S5E06MA4**	0.36	1.2	2.4	7.2	8.7	530	530	530	530	530	42	7400	-
1.3	0.4	6.4	600	0.95	463.3	IE5	**BF30Z-../S5E06MA4**	0.32	1	2.1	6.4	7.7	600	600	600	600	600	42	7400	-
1.3	0.4	5.8	660	0.86	509.6	IE5	**BF30Z-../S5E06MA4**	0.29	0.95	1.9	5.8	7	660	660	660	660	660	42	7400	-
1.3	0.4	5.5	690	0.82	537	IE5	**BF30Z-../S5E06MA4**	0.27	0.9	1.8	5.5	6.7	690	690	690	690	690	42	7400	-
1.3	0.4	11.5	325	2.7	253.2	IE5	**BF40Z-../S5E06MA4**	0.55	1.9	3.9	11.5	14	325	325	325	325	325	53	10600	-
1.3	0.4	10.5	360	2.5	278.5	IE5	**BF40Z-../S5E06MA4**	0.5	1.7	3.5	10.5	12.5	360	360	360	360	360	53	10600	-
1.3	0.4	10	380	2.3	295.1	IE5	**BF40Z-../S5E06MA4**	0.5	1.6	3.3	10	12	380	380	380	380	380	53	10600	-
1.3	0.4	9.2	420	2.1	324.7	IE5	**BF40Z-../S5E06MA4**	0.46	1.5	3	9.2	11	420	420	420	420	420	53	10600	-
1.3	0.4	8.6	450	2	346.8	IE5	**BF40Z-../S5E06MA4**	0.43	1.4	2.8	8.6	10	450	450	450	450	450	53	10600	-
1.3	0.4	7.8	495	1.8	381.5	IE5	**BF40Z-../S5E06MA4**	0.39	1.3	2.6	7.8	9.4	495	495	495	495	495	53	10600	-
1.3	0.4	7.1	540	1.7	417.3	IE5	**BF40Z-../S5E06MA4**	0.35	1.1	2.3	7.1	8.6	540	540	540	540	540	53	10600	-
1.3	0.4	6.5	590	1.5	459.1	IE5	**BF40Z-../S5E06MA4**	0.32	1	2.1	6.5	7.8	590	590	590	590	590	53	10600	-
1.3	0.4	5.8	660	1.3	514.6	IE5	**BF40Z-../S5E06MA4**	0.29	0.95	1.9	5.8	6.9	660	660	660	660	660	53	10600	-
1.3	0.4	5.2	730	1.2	566.1	IE5	**BF40Z-../S5E06MA4**	0.26	0.85	1.7	5.2	6.3	730	730	730	730	730	53	10600	-
1.3	0.4	5	770	1.3	597.3	IE5	**BF40G10-../S5E06MA4**	0.25	0.8	1.6	5	6	770	770	770	770	770	58	10600	-
1.3	0.4	4.1	950	1.1	731.6	IE5	**BF40G10-../S5E06MA4**	0.2	0.65	1.3	4.1	4.9	950	950	950	950	950	58	10600	-
1.3	0.4	3.2	1200	0.83	928.9	IE5	**BF40G10-../S5E06MA4**	0.16	0.5	1	3.2	3.8	1200	1200	1200	1200	1200	58	10600	-
1.3	0.4	8.4	460	2.8	354	IE5	**BF50Z-../S5E06MA4**	0.42	1.4	2.8	8.4	10	460	460	460	460	460	82	13600	-
1.3	0.4	7.6	510	2.5	392.8	IE5	**BF50Z-../S5E06MA4**	0.38	1.2	2.5	7.6	9.1	510	510	510	510	510	82	13600	-
1.3	0.4	6.8	570	2.3	439.3	IE5	**BF50Z-../S5E06MA4**	0.34	1.1	2.2	6.8	8.1	570	570	570	570	570	82	13600	-
1.3	0.4	6	640	2	496.4	IE5	**BF50Z-../S5E06MA4**	0.3	1	2	6	7.2	640	640	640	640	640	82	13600	-
1.3	0.4	5.4	720	1.8	555.2	IE5	**BF50Z-../S5E06MA4**	0.27	0.9	1.8	5.4	6.4	720	720	720	720	720	82	13600	-
1.3	0.4	5.3	720	1.9	555.9	IE5	**BF50G10-../S5E06MA4**	0.26	0.85	1.7	5.3	6.4	720	720	720	720	720	86	13600	-
1.3	0.4	4.4	880	1.6	680.9	IE5	**BF50G10-../S5E06MA4**	0.22	0.7	1.4	4.4	5.2	880	880	880	880	880	86	13600	-
1.3	0.4	3.4	1120	1.2	864.5	IE5	**BF50G10-../S5E06MA4**	0.17	0.55	1.1	3.4	4.1	1120	1120	1120	1120	1120	86	13600	-
1.3	0.4	2.9	1330	1	1029	IE5	**BF50G10-../S5E06MA4**	0.14	0.48	0.95	2.9	3.4	1330	1330	1330	1330	1330	86	13600	-
1.3	0.4	2.4	1560	0.9	1203	IE5	**BF50G10-../S5E06MA4**	0.12	0.41	0.8	2.4	2.9	1560	1560	1560	1560	1560	86	13600	-
1.3	0.4	4.3	890	2.8	689	IE5	**BF60G20-../S5E06MA4**	0.21	0.7	1.4	4.3	5.2	890	890	890	890	890	134	15300	43300
1.3	0.4	3.6	1050	2.4	813.2	IE5	**BF60G20-../S5E06MA4**	0.18	0.6	1.2	3.6	4.4	1050	1050	1050	1050	1050	134	15300	43300
1.3	0.4	3.1	1210	2.1	937.6	IE5	**BF60G20-../S5E06MA4**	0.15	0.5	1	3.1	3.8	1210	1210	1210	1210	1210	134	15300	43300
1.3	0.4	2.4	1570	1.6	1211	IE5	**BF60G20-../S5E06MA4**	0.12	0.41	0.8	2.4	2.9	1570	1570	1570	1570	1570	134	15300	43300
1.3	0.4	2	1940	1.3	1494	IE5	**BF60G20-../S5E06MA4**	0.1	0.33	0.65	2	2.4	1940	1940	1940	1940	1940	134	15300	43300
1.3	0.4	1.8	2150	1.2	1658	IE5	**BF60G20-../S5E06MA4**	0.09	0.3	0.6	1.8	2.1	2150	2150	2150	2150	2150	134	15300	43300
1.3	0.4	1.5	2500	0.98	1955	IE5	**BF60G20-../S5E06MA4**	0.075	0.25	0.5	1.5	1.8	2500	2500	2500	2500	2500	134	15300	43300
1.3	0.4	1.3	2800	0.89	2172	IE5	**BF60G20-../S5E06MA4**	0.065	0.23	0.46	1.3	1.6	2800	2800	2800	2800	2800	134	15300	43300
1.3	0.4	1.8	2100	2.7	1621	IE5	**BF70G20-../S5E06MA4**	0.09	0.3	0.6	1.8	2.2	2100	2100	2100	2100	2100	212	16100	47700
1.3	0.4	1.5	2450	2.3	1912	IE5	**BF70G20-../S5E06MA4**	0.075	0.26	0.5	1.5	1.8	2450	2450	2450	2450	2450	212	16100	47700
1.3	0.4	1.2	3150	1.8	2448	IE5	**BF70G20-../S5E06MA4**	0.06	0.2	0.4	1.2	1.4	3150	3150	3150	3150	3150	212	16100	47700
1.3	0.4	1	3700	1.5	2849	IE5	**BF70G20-../S5E06MA4**	0.05	0.17	0.35	1	1.2	3700	3700	3700	3700	3700	212	16100	47700
1.3	0.4	0.85	4400	1.3	3417	IE5	**BF70G20-../S5E06MA4**	0.043	0.14	0.29	0.85	1	4400	4400	4400	4400	4400	212	16100	47700
1.3	0.4	0.7	5300	1.1	4090	IE5	**BF70G20-../S5E06MA4**	0.036	0.12	0.24	0.7	0.85	5300	5300	5300	5300	5300	212	16100	47700
1.3	0.4	0.65	5900	0.97	4542	IE5	**BF70G20-../S5E06MA4**	0.033	0.11	0.22	0.65	0.75	5900	5900	5900	5900	5900	212	16100	47700
1.3	0.4	0.55	6600	0.86	5124	IE5	**BF70G20-../S5E06MA4**	0.029	0.095	0.19	0.55	0.7	6600	6600	6600	6600	6600	212	16100	47700

MN = 1.75 Nm (PN = 0.55 kW)



M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
1.75	0.55	146	35.5	2.7	20.42	IE5	**BF06-../S5E06MA4**	7.3	24	48.5	146	176	35.5	35.5	35.5	35.5	35.5	12	2700	-
1.75	0.55	112	46.5	2	26.76	IE5	**BF06-../S5E06MA4**	5.6	18.5	37	112	134	46.5	46.5	46.5	46.5	46.5	12	3000	-
1.75	0.55	95	55	1.7	31.5	IE5	**BF06-../S5E06MA4**	4.7	15.5	31.5	95	114	55	55	55	55	55	12	3200	-
1.75	0.55	79	65	1.4	37.69	IE5	**BF06-../S5E06MA4**	3.9	13	26.5	79	95	65	65	65	65	65	12	3500	-
1.75	0.55	65	80	1.2	46.14	IE5	**BF06-../S5E06MA4**	3.2	10.5	21.5	65	78	80	80	80	80	80	12	3800	-
1.75	0.55	51	102	0.93	58.33	IE5	**BF06-../S5E06MA4**	2.5	8.5	17	51	61	102	102	102	102	102	12	4000	-
1.75	0.55	44.5	116	0.81	66.82	IE5	**BF06-../S5E06MA4**	2.2	7.4	14.5	44.5	53	116	116	116	116	116	12	4000	-
1.75	0.55	63	82	2.9	47.35	IE5	**BF10-../S5E06MA4**	3.1	10.5	21	63	76	82	82	82	82	82	23	4250	-
1.75	0.55	58	89	2.7	51.28	IE5	**BF10-../S5E06MA4**	2.9	9.7	19.5	58	70	89	89	89	89	89	23	4400	-
1.75	0.55	53	98	2.4	56.39	IE5	**BF10-../S5E06MA4**	2.6	8.8	17.5	53	63	98	98	98	98	98	23	4550	-
1.75	0.55	48.5	107	2.2	61.55	IE5	**BF10-../S5E06MA4**	2.4	8.1	16	48.5	58	107	107	107	107	107	23	4700	-
1.75	0.55	44	118	2	67.69	IE5	**BF10-../S5E06MA4**	2.2	7.3	14.5	44	53	118	118	118	118	118	23	4900	-
1.75	0.55	38.5	135	1.8	77.55	IE5	**BF10-../S5E06MA4**	1.9	6.4	12.5	38.5	46	135	135	135	135	135	23	5100	-
1.75	0.55	35	149	1.6	85.27	IE5	**BF10-../S5E06MA4**	1.7	5.8	11.5	35	42	149	149	149	149	149	23	5300	-
1.75	0.55	32.5	159	1.5	90.91	IE5	**BF10-../S5E06MA4**	1.6	5.4	10.5	32.5	39.5	159	159	159	159	159	23	5400	-

MN = 1.75 Nm (PN = 0.55 kW)

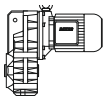


M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
1.75	0.55	30	174	1.4	99.97	IE5	**BF10-../S5E06MA4**	1.5	5	10	30	36	174	174	174	174	174	23	5600	-
1.75	0.55	26.5	196	1.2	112.3	IE5	**BF10-../S5E06MA4**	1.3	4.4	8.9	26.5	32	196	196	196	196	196	23	5900	-
1.75	0.55	24	215	1.1	123.5	IE5	**BF10-../S5E06MA4**	1.2	4	8	24	29	215	215	215	215	215	23	6100	-
1.75	0.55	23	225	1.1	128.9	IE5	**BF10-../S5E06MA4**	1.1	3.8	7.7	23	27.5	225	225	225	225	225	23	6200	-
1.75	0.55	21	245	0.97	141.8	IE5	**BF10-../S5E06MA4**	1	3.5	7	21	25	245	245	245	245	245	23	6400	-
1.75	0.55	19.5	260	0.91	151.2	IE5	**BF10Z-../S5E06MA4**	0.95	3.3	6.6	19.5	23.5	260	260	260	260	260	24	6400	-
1.75	0.55	18	290	0.83	166.2	IE5	**BF10Z-../S5E06MA4**	0.9	3	6	18	21.5	290	290	290	290	290	24	6400	-
1.75	0.55	34	152	2.7	87.31	IE5	**BF20-../S5E06MA4**	1.7	5.7	11	34	41	152	152	152	152	152	30	6600	-
1.75	0.55	31	168	2.5	96.08	IE5	**BF20-../S5E06MA4**	1.5	5.2	10	31	37	168	168	168	168	168	30	6900	-
1.75	0.55	29.5	175	2.4	100.2	IE5	**BF20-../S5E06MA4**	1.4	4.9	9.9	29.5	35.5	175	175	175	175	175	30	7000	-
1.75	0.55	27	192	2.2	110.2	IE5	**BF20-../S5E06MA4**	1.3	4.5	9	27	32.5	192	192	192	192	192	30	7300	-
1.75	0.55	24	215	1.9	123.5	IE5	**BF20-../S5E06MA4**	1.2	4	8	24	29	215	215	215	215	215	30	7600	-
1.75	0.55	22	235	1.8	135.9	IE5	**BF20-../S5E06MA4**	1.1	3.6	7.3	22	26	235	235	235	235	235	30	7900	-
1.75	0.55	21	245	1.7	141.2	IE5	**BF20Z-../S5E06MA4**	1	3.5	7	21	25	245	245	245	245	245	31	7900	-
1.75	0.55	19	270	1.5	155.4	IE5	**BF20Z-../S5E06MA4**	0.95	3.2	6.4	19	23	270	270	270	270	270	31	7900	-
1.75	0.55	18	285	1.5	164.3	IE5	**BF20Z-../S5E06MA4**	0.9	3	6	18	21.5	285	285	285	285	285	31	7900	-
1.75	0.55	16.5	315	1.3	180.8	IE5	**BF20Z-../S5E06MA4**	0.8	2.7	5.5	16.5	19.5	315	315	315	315	315	31	7900	-
1.75	0.55	15	340	1.2	197.1	IE5	**BF20Z-../S5E06MA4**	0.75	2.5	5	15	18	340	340	340	340	340	31	7900	-
1.75	0.55	13.5	375	1.1	216.9	IE5	**BF20Z-../S5E06MA4**	0.65	2.3	4.6	13.5	16.5	375	375	375	375	375	31	7900	-
1.75	0.55	12.5	410	1	235.9	IE5	**BF20Z-../S5E06MA4**	0.6	2.1	4.2	12.5	15	410	410	410	410	410	31	7900	-
1.75	0.55	11.5	450	0.92	259.6	IE5	**BF20Z-../S5E06MA4**	0.55	1.9	3.8	11.5	13.5	450	450	450	450	450	31	7900	-
1.75	0.55	10	510	0.81	295.5	IE5	**BF20Z-../S5E06MA4**	0.5	1.6	3.3	10	12	510	510	510	510	510	31	7900	-
1.75	0.55	27.5	188	3	107.6	IE5	**BF30-../S5E06MA4**	1.3	4.6	9.2	27.5	33	188	188	188	188	188	40	6700	-
1.75	0.55	25	205	2.8	118.3	IE5	**BF30-../S5E06MA4**	1.2	4.2	8.4	25	30	205	205	205	205	205	40	7000	-
1.75	0.55	24	215	2.6	124.7	IE5	**BF30-../S5E06MA4**	1.2	4	8	24	28.5	215	215	215	215	215	40	7100	-
1.75	0.55	21.5	235	2.4	137.1	IE5	**BF30-../S5E06MA4**	1	3.6	7.2	21.5	26	235	235	235	235	235	40	7400	-
1.75	0.55	19.5	260	2.2	150.7	IE5	**BF30Z-../S5E06MA4**	0.95	3.3	6.6	19.5	23.5	260	260	260	260	260	42	7400	-
1.75	0.55	18	290	2	165.8	IE5	**BF30Z-../S5E06MA4**	0.9	3	6	18	21.5	290	290	290	290	290	42	7400	-
1.75	0.55	16.5	305	1.8	176.6	IE5	**BF30Z-../S5E06MA4**	0.8	2.8	5.6	16.5	20	305	305	305	305	305	42	7400	-
1.75	0.55	15	340	1.7	194.3	IE5	**BF30Z-../S5E06MA4**	0.75	2.5	5.1	15	18.5	340	340	340	340	340	42	7400	-
1.75	0.55	13	390	1.4	224.8	IE5	**BF30Z-../S5E06MA4**	0.65	2.2	4.4	13	16	390	390	390	390	390	42	7400	-
1.75	0.55	12	430	1.3	247.3	IE5	**BF30Z-../S5E06MA4**	0.6	2	4	12	14.5	430	430	430	430	430	42	7400	-
1.75	0.55	11	460	1.2	263.5	IE5	**BF30Z-../S5E06MA4**	0.55	1.8	3.7	11	13.5	460	460	460	460	460	42	7400	-
1.75	0.55	10	500	1.1	289.8	IE5	**BF30Z-../S5E06MA4**	0.5	1.7	3.4	10	12	500	500	500	500	500	42	7400	-
1.75	0.55	9.6	540	1	310.7	IE5	**BF30Z-../S5E06MA4**	0.48	1.6	3.2	9.6	11.5	540	540	540	540	540	42	7400	-
1.75	0.55	8.7	590	0.95	341.8	IE5	**BF30Z-../S5E06MA4**	0.43	1.4	2.9	8.7	10.5	590	590	590	590	590	42	7400	-
1.75	0.55	7.9	650	0.87	375.1	IE5	**BF30Z-../S5E06MA4**	0.39	1.3	2.6	7.9	9.5	650	650	650	650	650	42	7400	-
1.75	0.55	17.5	295	3	171.2	IE5	**BF40Z-../S5E06MA4**	0.85	2.9	5.8	17.5	21	295	295	295	295	295	53	10600	-
1.75	0.55	15.5	325	2.7	188.3	IE5	**BF40Z-../S5E06MA4**	0.75	2.6	5.3	15.5	19	325	325	325	325	325	53	10600	-
1.75	0.55	14.5	350	2.5	202.2	IE5	**BF40Z-../S5E06MA4**	0.7	2.4	4.9	14.5	17.5	350	350	350	350	350	53	10600	-
1.75	0.55	13	385	2.3	222.4	IE5	**BF40Z-../S5E06MA4**	0.65	2.2	4.4	13	16	385	385	385	385	385	53	10600	-
1.75	0.55	11.5	440	2	253.2	IE5	**BF40Z-../S5E06MA4**	0.55	1.9	3.9	11.5	14	440	440	440	440	440	53	10600	-
1.75	0.55	10.5	485	1.8	278.5	IE5	**BF40Z-../S5E06MA4**	0.5	1.7	3.5	10.5	12.5	485	485	485	485	485	53	10600	-
1.75	0.55	10	510	1.7	295.1	IE5	**BF40Z-../S5E06MA4**	0.5	1.6	3.3	10	12	510	510	510	510	510	53	10600	-
1.75	0.55	9.2	560	1.6	324.7	IE5	**BF40Z-../S5E06MA4**	0.46	1.5	3	9.2	11	560	560	560	560	560	53	10600	-
1.75	0.55	8.6	600	1.5	346.8	IE5	**BF40Z-../S5E06MA4**	0.43	1.4	2.8	8.6	10	600	600	600	600	600	53	10600	-
1.75	0.55	7.8	660	1.3	381.5	IE5	**BF40Z-../S5E06MA4**	0.39	1.3	2.6	7.8	9.4	660	660	660	660	660	53	10600	-
1.75	0.55	7.1	730	1.2	417.3	IE5	**BF40Z-../S5E06MA4**	0.35	1.1	2.3	7.1	8.6	730	730	730	730	730	53	10600	-
1.75	0.55	6.5	800	1.1	459.1	IE5	**BF40Z-../S5E06MA4**	0.32	1	2.1	6.5	7.8	800	800	800	800	800	53	10600	-
1.75	0.55	5.8	900	1	514.6	IE5	**BF40Z-../S5E06MA4**	0.29	0.95	1.9	5.8	6.9	900	900	900	900	900	53	10600	-
1.75	0.55	5.2	990	0.91	566.1	IE5	**BF40Z-../S5E06MA4**	0.26	0.85	1.7	5.2	6.3	990	990	990	990	990	53	10600	-
1.75	0.55	5	1040	0.96	597.3	IE5	**BF40G10-../S5E06MA4**	0.25	0.8	1.6	5	6	1040	1040	1040	1040	1040	58	10600	-
1.75	0.55	12	430	3	247.5	IE5	**BF50Z-../S5E06MA4**	0.6	2	4	12	14.5	430	430	430	430	430	82	13600	-
1.75	0.55	10.5	480	2.7	276.8	IE5	**BF50Z-../S5E06MA4**	0.5	1.8	3.6	10.5	13	480	480	480	480	480	82	13600	-
1.75	0.55	9.4	550	2.3	316.6	IE5	**BF50Z-../S5E06MA4**	0.47	1.5	3.1	9.4	11	550	550	550	550	550	82	13600	-
1.75	0.55	8.4	610	2.1	354	IE5	**BF50Z-../S5E06MA4**	0.42	1.4	2.8	8.4	10	610	610	610	610	610	82	13600	-
1.75	0.55	7.6	680	1.9	392.8	IE5	**BF50Z-../S5E06MA4**	0.38	1.2	2.5	7.6	9.1	680	680	680	680	680	82	13600	-
1.75	0.55	6.8	760	1.7	439.3	IE5	**BF50Z-../S5E06MA4**	0.34	1.1	2.2	6.8	8.1	760	760	760	760	760	82	13600	-
1.75	0.55	6	860	1.5	496.4	IE5	**BF50Z-../S5E06MA4**	0.3	1	2	6	7.2	860	860	860	860	860	82	13600	-
1.75	0.55	5.4	970	1.3	555.2	IE5	**BF50Z-../S5E06MA4**	0.27	0.9	1.8	5.4	6.4	970	970	970	970	970	82	13600	-
1.75	0.55	5.3	970	1.4	555.9	IE5	**BF50G10-../S5E06MA4**	0.26	0.85	1.7	5.3	6.4	970	970	970	970	970	86	13600	-
1.75	0.55	4.4	1190	1.2	680.9	IE5	**BF50G10-../S5E06MA4**	0.22	0.7	1.4	4.4	5.2	1190	1190	1190	1190	1190	86	13600	-
1.75	0.55	3.4	1510	0.93	864.5	IE5	**BF50G10-../S5E06MA4**	0.17	0.55	1.1	3.4	4.1	1510	1510	1510	1510	1510	86	13600	-
1.75	0.55	5.2	990	2.5	569.3	IE5	**BF60G20-../S5E06MA4**	0.26	0.85	1.7	5.2	6.3	990	990	990	990	990	134	15300	43300
1.75	0.55	4.3	1200	2.1	689	IE5	**BF60G20-../S5E06MA4**	0.21	0.7	1.4	4.3	5.2	1200	1200	1200	1200	1200	134	15300	43300
1.75	0.55	3.6	1420	1.8	813.2	IE5	**BF60G20-../S5E06MA4**	0.18	0.6	1.2	3.6	4.4	1420	1420	1420	1420	1420	134	15300	43300
1.75	0.55	3.1	1640	1.5	937.6	IE5	**BF60G20-../S5E06MA4**	0.15	0.5	1	3.1	3.8	1640	1640	1640	1640	1640	134	15300	43300
1.75	0.55	2.4	2100	1.2	1211	IE5	**BF60G20-../S5E06MA4**	0.12	0.41	0.8	2.4	2.9	2100	2100	2100	2100	2100	134	15300	43300
1.75	0.55	2	2600	0.96	1494	IE5	**BF60G20-../S5E06MA4**	0.1	0.33	0.65	2	2.4	2600	2600	2600	2600	2600	134	15300	43300
1.75	0.55	1.8	2900	0.86	1658	IE5	**BF60G20-../S5E06MA4**	0.09	0.3	0.6	1.8	2.1	2900	2900	2900	2900	2900	134	15300	43300
1.75	0.55	2.1	2400	2.3	1390	IE5	**BF70G20-../S5E06MA4**	0.1	0.35	0.7	2.1	2.5	2400	2400	2400	2400	2400	212	16100	47700
1.75	0.55	1.8	2800	2	1621	IE5	**BF70G20-../S5E06MA4**	0.09	0.3	0.6	1.8	2.2	2800	2800	2800	2800	2800	212	16100	47700
1.75	0.55	1.5	3300	1.7	1912	IE5	**BF70G20-../S5E06MA4**	0.075	0.26	0.5	1.5	1.8	3300	3300	3300	3300	3300	212	16100	47700
1.75	0.55	1.2	4250	1.3	2448	IE5	**BF70G20-../S5E06MA4**	0.06	0.2	0.4	1.2	1.4	4250	4250	4250	4250	4250	212	16100	47700
1.75	0.55	1	4950	1.1	2849	IE5	**BF70G20-../S5E06MA4**	0.05	0.17	0.35	1	1.2	4950	4950	4950	4950	4950	212	16100	47700
1.75	0.55	0.85	5900	0.95	3417	IE5	**BF70G20-../S5E06MA4**	0.043	0.14	0.29	0.85	1	5900	5900	5900	5900	5900	212	16100	47700

BF-series shaft-mounted geared motors

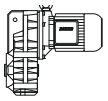
Selection - shaft-mounted geared motors - n_1 = 3000 $^1/_{min}$

MN = 1.75 Nm (PN = 0.55 kW)



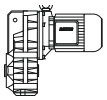
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
1.75	0.55	0.7	7100	0.8	4090	IE5	**BF70G20-../S5E06MA4**	0.036	0.12	0.24	0.7	0.85	7100	7100	7100	7100	7100	212	16100	47700

MN = 2.4 Nm (PN = 0.75 kW)



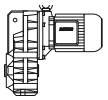
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
2.4	0.75	245	28.5	2.6	12.07	IE5	**BF06-../S5E06LA4**	12	41	82	245	295	28.5	28.5	28.5	28.5	28.5	12	2000	-
2.4	0.75	245	28.5	2.6	12.07	IE3	**BF06-../SPE06MA4**	12	41	82	245	295	21.5	24	26.5	28.5	28.5	12	2000	-
2.4	0.75	210	34	2.5	14.21	IE5	**BF06-../S5E06LA4**	10.5	35	70	210	250	34	34	34	34	34	12	2100	-
2.4	0.75	210	34	2.5	14.21	IE3	**BF06-../SPE06MA4**	10.5	35	70	210	250	25.5	28	31	34	34	12	2100	-
2.4	0.75	176	40.5	2.3	16.99	IE5	**BF06-../S5E06LA4**	8.8	29	58	176	210	40.5	40.5	40.5	40.5	40.5	12	2500	-
2.4	0.75	176	40.5	2.3	16.99	IE3	**BF06-../SPE06MA4**	8.8	29	58	176	210	30.5	33.5	37	40.5	40.5	12	2500	-
2.4	0.75	146	49	1.9	20.42	IE5	**BF06-../S5E06LA4**	7.3	24	48.5	146	176	49	49	49	49	49	12	2700	-
2.4	0.75	146	49	1.9	20.42	IE3	**BF06-../SPE06MA4**	7.3	24	48.5	146	176	36.5	40.5	44.5	49	49	12	2700	-
2.4	0.75	112	64	1.5	26.76	IE5	**BF06-../S5E06LA4**	5.6	18.5	37	112	134	64	64	64	64	64	12	3000	-
2.4	0.75	112	64	1.5	26.76	IE3	**BF06-../SPE06MA4**	5.6	18.5	37	112	134	48	53	58	64	64	12	3000	-
2.4	0.75	95	75	1.3	31.5	IE5	**BF06-../S5E06LA4**	4.7	15.5	31.5	95	114	75	75	75	75	75	12	3200	-
2.4	0.75	95	75	1.3	31.5	IE3	**BF06-../SPE06MA4**	4.7	15.5	31.5	95	114	56	63	69	75	75	12	3200	-
2.4	0.75	79	90	1.1	37.69	IE5	**BF06-../S5E06LA4**	3.9	13	26.5	79	95	90	90	90	90	90	12	3500	-
2.4	0.75	79	90	1.1	37.69	IE3	**BF06-../SPE06MA4**	3.9	13	26.5	79	95	67	75	82	90	90	12	3500	-
2.4	0.75	65	110	0.86	46.14	IE5	**BF06-../S5E06LA4**	3.2	10.5	21.5	65	78	110	110	110	110	110	12	3800	-
2.4	0.75	65	110	0.86	46.14	IE3	**BF06-../SPE06MA4**	3.2	10.5	21.5	65	78	83	92	101	110	110	12	3800	-
2.4	0.75	82	86	2.8	36.15	IE5	**BF10-../S5E06LA4**	4.1	13.5	27.5	82	99	86	86	86	86	86	23	3800	-
2.4	0.75	82	86	2.8	36.15	IE3	**BF10-../SPE06MA4**	4.1	13.5	27.5	82	99	65	72	79	86	86	23	3800	-
2.4	0.75	75	95	2.5	39.75	IE5	**BF10-../S5E06LA4**	3.7	12.5	25	75	90	95	95	95	95	95	23	3950	-
2.4	0.75	75	95	2.5	39.75	IE3	**BF10-../SPE06MA4**	3.7	12.5	25	75	90	71	79	87	95	95	23	3950	-
2.4	0.75	69	103	2.3	43.06	IE5	**BF10-../S5E06LA4**	3.4	11.5	23	69	83	103	103	103	103	103	23	4100	-
2.4	0.75	69	103	2.3	43.06	IE3	**BF10-../SPE06MA4**	3.4	11.5	23	69	83	77	86	94	103	103	23	4100	-
2.4	0.75	63	113	2.1	47.35	IE5	**BF10-../S5E06LA4**	3.1	10.5	21	63	76	113	113	113	113	113	23	4250	-
2.4	0.75	63	113	2.1	47.35	IE3	**BF10-../SPE06MA4**	3.1	10.5	21	63	76	85	94	104	113	113	23	4250	-
2.4	0.75	58	123	2	51.28	IE5	**BF10-../S5E06LA4**	2.9	9.7	19.5	58	70	123	123	123	123	123	23	4400	-
2.4	0.75	58	123	2	51.28	IE3	**BF10-../SPE06MA4**	2.9	9.7	19.5	58	70	92	102	112	123	123	23	4400	-
2.4	0.75	53	135	1.8	56.39	IE5	**BF10-../S5E06LA4**	2.6	8.8	17.5	53	63	135	135	135	135	135	23	4550	-
2.4	0.75	53	135	1.8	56.39	IE3	**BF10-../SPE06MA4**	2.6	8.8	17.5	53	63	101	112	124	135	135	23	4550	-
2.4	0.75	48.5	147	1.6	61.55	IE5	**BF10-../S5E06LA4**	2.4	8.1	16	48.5	58	147	147	147	147	147	23	4700	-
2.4	0.75	48.5	147	1.6	61.55	IE3	**BF10-../SPE06MA4**	2.4	8.1	16	48.5	58	110	123	135	147	147	23	4700	-
2.4	0.75	44	162	1.5	67.69	IE5	**BF10-../S5E06LA4**	2.2	7.3	14.5	44	53	162	162	162	162	162	23	4900	-
2.4	0.75	44	162	1.5	67.69	IE3	**BF10-../SPE06MA4**	2.2	7.3	14.5	44	53	121	135	148	162	162	23	4900	-
2.4	0.75	38.5	186	1.3	77.55	IE5	**BF10-../S5E06LA4**	1.9	6.4	12.5	38.5	46	186	186	186	186	186	23	5100	-
2.4	0.75	38.5	186	1.3	77.55	IE3	**BF10-../SPE06MA4**	1.9	6.4	12.5	38.5	46	139	155	170	186	186	23	5100	-
2.4	0.75	35	200	1.2	85.27	IE5	**BF10-../S5E06LA4**	1.7	5.8	11.5	35	42	200	200	200	200	200	23	5300	-
2.4	0.75	35	200	1.2	85.27	IE3	**BF10-../SPE06MA4**	1.7	5.8	11.5	35	42	153	170	187	200	200	23	5300	-
2.4	0.75	32.5	215	1.1	90.91	IE5	**BF10-../S5E06LA4**	1.6	5.4	10.5	32.5	39.5	215	215	215	215	215	23	5400	-
2.4	0.75	32.5	215	1.1	90.91	IE3	**BF10-../SPE06MA4**	1.6	5.4	10.5	32.5	39.5	163	181	200	215	215	23	5400	-
2.4	0.75	30	235	1	99.97	IE5	**BF10-../S5E06LA4**	1.5	5	10	30	36	235	235	235	235	235	23	5600	-
2.4	0.75	30	235	1	99.97	IE3	**BF10-../SPE06MA4**	1.5	5	10	30	36	179	199	215	235	235	23	5600	-
2.4	0.75	26.5	265	0.89	112.3	IE5	**BF10-../S5E06LA4**	1.3	4.4	8.9	26.5	32	265	265	265	265	265	23	5900	-
2.4	0.75	26.5	265	0.89	112.3	IE3	**BF10-../SPE06MA4**	1.3	4.4	8.9	26.5	32	200	220	245	265	265	23	5900	-
2.4	0.75	24	295	0.81	123.5	IE5	**BF10-../S5E06LA4**	1.2	4	8	24	29	295	295	295	295	295	23	6100	-
2.4	0.75	24	295	0.81	123.5	IE3	**BF10-../SPE06MA4**	1.2	4	8	24	29	220	245	270	295	295	23	6100	-
2.4	0.75	51	139	3	58.24	IE5	**BF20-../S5E06LA4**	2.5	8.5	17	51	61	139	139	139	139	139	30	5600	-
2.4	0.75	51	139	3	58.24	IE3	**BF20-../SPE06MA4**	2.5	8.5	17	51	61	104	116	128	139	139	30	5600	-
2.4	0.75	46.5	153	2.7	64.08	IE5	**BF20-../S5E06LA4**	2.3	7.8	15.5	46.5	56	153	153	153	153	153	30	5900	-
2.4	0.75	46.5	153	2.7	64.08	IE3	**BF20-../SPE06MA4**	2.3	7.8	15.5	46.5	56	115	128	140	153	153	30	5900	-
2.4	0.75	43	167	2.5	69.7	IE5	**BF20-../S5E06LA4**	2.1	7.1	14	43	51	167	167	167	167	167	30	6100	-
2.4	0.75	43	167	2.5	69.7	IE3	**BF20-../SPE06MA4**	2.1	7.1	14	43	51	125	139	153	167	167	30	6100	-
2.4	0.75	39	184	2.3	76.69	IE5	**BF20-../S5E06LA4**	1.9	6.5	13	39	46.5	184	184	184	184	184	30	6300	-
2.4	0.75	39	184	2.3	76.69	IE3	**BF20-../SPE06MA4**	1.9	6.5	13	39	46.5	138	153	168	184	184	30	6300	-
2.4	0.75	34	205	2	87.31	IE5	**BF20-../S5E06LA4**	1.7	5.7	11	34	41	205	205	205	205	205	30	6600	-
2.4	0.75	34	205	2	87.31	IE3	**BF20-../SPE06MA4**	1.7	5.7	11	34	41	157	174	192	205	205	30	6600	-
2.4	0.75	31	230	1.8	96.08	IE5	**BF20-../S5E06LA4**	1.5	5.2	10	31	37	230	230	230	230	230	30	6900	-
2.4	0.75	31	230	1.8	96.08	IE3	**BF20-../SPE06MA4**	1.5	5.2	10	31	37	172	192	210	230	230	30	6900	-
2.4	0.75	29.5	240	1.7	100.2	IE5	**BF20-../S5E06LA4**	1.4	4.9	9.9	29.5	35.5	240	240	240	240	240	30	7000	-
2.4	0.75	29.5	240	1.7	100.2	IE3	**BF20-../SPE06MA4**	1.4	4.9	9.9	29.5	35.5	180	200	220	240	240	30	7000	-
2.4	0.75	27	260	1.6	110.2	IE5	**BF20-../S5E06LA4**	1.3	4.5	9	27	32.5	260	260	260	260	260	30	7300	-
2.4	0.75	27	260	1.6	110.2	IE3	**BF20-../SPE06MA4**	1.3	4.5	9	27	32.5	198	220	240	260	260	30	7300	-
2.4	0.75	24	295	1.4	123.5	IE5	**BF20-../S5E06LA4**	1.2	4	8	24	29	295	295	295	295	295	30	7600	-
2.4	0.75	24	295	1.4	123.5	IE3	**BF20-../SPE06MA4**	1.2	4	8	24	29	220	245	270	295	295	30	7600	-
2.4	0.75	22	325	1.3	135.9	IE5	**BF20-../S5E06LA4**	1.1	3.6	7.3	22	26	325	325	325	325	325	30	7900	-
2.4	0.75	22	325	1.3	135.9	IE3	**BF20-../SPE06MA4**	1.1	3.6	7.3	22	26	240	270	295	325	325	30	7900	-
2.4	0.75	21	335	1.2	141.2	IE5	**BF20Z-../S5E06LA4**	1	3.5	7	21	25	335	335	335	335	335	31	7900	-
2.4	0.75	21	335	1.2	141.2	IE3	**BF20Z-../SPE06MA4**	1	3.5	7	21	25	250	280	310	335	335	31	7900	-
2.4	0.75	19	370	1.1	155.4	IE5	**BF20Z-../S5E06LA4**	0.95	3.2	6.4	19	23	370	370	370	370	370	31	7900	-
2.4	0.75	19	370	1.1	155.4	IE3	**BF20Z-../SPE06MA4**	0.95	3.2	6.4	19	23	275	310	340	370	370	31	7900	-

MN = 2.4 Nm (PN = 0.75 kW)



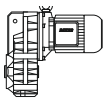
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
2.4	0.75	18	390	1.1	164.3	IE5	**BF20Z-../S5E06LA4**	0.9	3	6	18	21.5	390	390	390	390	390	31	7900	-
2.4	0.75	18	390	1.1	164.3	IE3	**BF20Z-../SPE06MA4**	0.9	3	6	18	21.5	295	325	360	390	390	31	7900	-
2.4	0.75	16.5	430	0.97	180.8	IE5	**BF20Z-../S5E06LA4**	0.8	2.7	5.5	16.5	19.5	430	430	430	430	430	31	7900	-
2.4	0.75	16.5	430	0.97	180.8	IE3	**BF20Z-../SPE06MA4**	0.8	2.7	5.5	16.5	19.5	325	360	395	430	430	31	7900	-
2.4	0.75	15	470	0.89	197.1	IE5	**BF20Z-../S5E06LA4**	0.75	2.5	5	15	18	470	470	470	470	470	31	7900	-
2.4	0.75	15	470	0.89	197.1	IE3	**BF20Z-../SPE06MA4**	0.75	2.5	5	15	18	350	390	430	470	470	31	7900	-
2.4	0.75	13.5	520	0.81	216.9	IE5	**BF20Z-../S5E06LA4**	0.65	2.3	4.6	13.5	16.5	520	520	520	520	520	31	7900	-
2.4	0.75	13.5	520	0.81	216.9	IE3	**BF20Z-../SPE06MA4**	0.65	2.3	4.6	13.5	16.5	390	430	475	520	520	31	7900	-
2.4	0.75	37.5	190	3	79.34	IE5	**BF30-../S5E06LA4**	1.8	6.3	12.5	37.5	45	190	190	190	190	190	40	5900	-
2.4	0.75	37.5	190	3	79.34	IE3	**BF30-../SPE06MA4**	1.8	6.3	12.5	37.5	45	142	158	174	190	190	40	5900	-
2.4	0.75	34	205	2.7	87.08	IE5	**BF30-../S5E06LA4**	1.7	5.7	11	34	41	205	205	205	205	205	40	6200	-
2.4	0.75	34	205	2.7	87.08	IE3	**BF30-../SPE06MA4**	1.7	5.7	11	34	41	156	174	191	205	205	40	6200	-
2.4	0.75	31	225	2.5	95.79	IE5	**BF30-../S5E06LA4**	1.5	5.2	10	31	37.5	225	225	225	225	225	40	6400	-
2.4	0.75	31	225	2.5	95.79	IE3	**BF30-../SPE06MA4**	1.5	5.2	10	31	37.5	172	191	210	225	225	40	6400	-
2.4	0.75	27.5	255	2.2	107.6	IE5	**BF30-../S5E06LA4**	1.3	4.6	9.2	27.5	33	255	255	255	255	255	40	6700	-
2.4	0.75	27.5	255	2.2	107.6	IE3	**BF30-../SPE06MA4**	1.3	4.6	9.2	27.5	33	193	215	235	255	255	40	6700	-
2.4	0.75	25	280	2	118.3	IE5	**BF30-../S5E06LA4**	1.2	4.2	8.4	25	30	280	280	280	280	280	40	7000	-
2.4	0.75	25	280	2	118.3	IE3	**BF30-../SPE06MA4**	1.2	4.2	8.4	25	30	210	235	260	280	280	40	7000	-
2.4	0.75	24	295	1.9	124.7	IE5	**BF30-../S5E06LA4**	1.2	4	8	24	28.5	295	295	295	295	295	40	7100	-
2.4	0.75	24	295	1.9	124.7	IE3	**BF30-../SPE06MA4**	1.2	4	8	24	28.5	220	245	270	295	295	40	7100	-
2.4	0.75	21.5	325	1.7	137.1	IE5	**BF30-../S5E06LA4**	1	3.6	7.2	21.5	26	325	325	325	325	325	40	7400	-
2.4	0.75	21.5	325	1.7	137.1	IE3	**BF30-../SPE06MA4**	1	3.6	7.2	21.5	26	245	270	300	325	325	40	7400	-
2.4	0.75	19.5	360	1.6	150.7	IE5	**BF30Z-../S5E06LA4**	0.95	3.3	6.6	19.5	23.5	360	360	360	360	360	42	7400	-
2.4	0.75	19.5	360	1.6	150.7	IE3	**BF30Z-../SPE06MA4**	0.95	3.3	6.6	19.5	23.5	270	300	330	360	360	42	7400	-
2.4	0.75	18	395	1.4	165.8	IE5	**BF30Z-../S5E06LA4**	0.9	3	6	18	21.5	395	395	395	395	395	42	7400	-
2.4	0.75	18	395	1.4	165.8	IE3	**BF30Z-../SPE06MA4**	0.9	3	6	18	21.5	295	330	360	395	395	42	7400	-
2.4	0.75	16.5	420	1.3	176.6	IE5	**BF30Z-../S5E06LA4**	0.8	2.8	5.6	16.5	20	420	420	420	420	420	42	7400	-
2.4	0.75	16.5	420	1.3	176.6	IE3	**BF30Z-../SPE06MA4**	0.8	2.8	5.6	16.5	20	315	350	385	420	420	42	7400	-
2.4	0.75	15	465	1.2	194.3	IE5	**BF30Z-../S5E06LA4**	0.75	2.5	5.1	15	18.5	465	465	465	465	465	42	7400	-
2.4	0.75	15	465	1.2	194.3	IE3	**BF30Z-../SPE06MA4**	0.75	2.5	5.1	15	18.5	345	385	425	465	465	42	7400	-
2.4	0.75	13	530	1.1	224.8	IE5	**BF30Z-../S5E06LA4**	0.65	2.2	4.4	13	16	530	530	530	530	530	42	7400	-
2.4	0.75	13	530	1.1	224.8	IE3	**BF30Z-../SPE06MA4**	0.65	2.2	4.4	13	16	400	445	490	530	530	42	7400	-
2.4	0.75	12	590	0.96	247.3	IE5	**BF30Z-../S5E06LA4**	0.6	2	4	12	14.5	590	590	590	590	590	42	7400	-
2.4	0.75	12	590	0.96	247.3	IE3	**BF30Z-../SPE06MA4**	0.6	2	4	12	14.5	445	490	540	590	590	42	7400	-
2.4	0.75	11	630	0.9	263.5	IE5	**BF30Z-../S5E06LA4**	0.55	1.8	3.7	11	13.5	630	630	630	630	630	42	7400	-
2.4	0.75	11	630	0.9	263.5	IE3	**BF30Z-../SPE06MA4**	0.55	1.8	3.7	11	13.5	470	520	570	630	630	42	7400	-
2.4	0.75	10	690	0.82	289.8	IE5	**BF30Z-../S5E06LA4**	0.5	1.7	3.4	10	12	690	690	690	690	690	42	7400	-
2.4	0.75	10	690	0.82	289.8	IE3	**BF30Z-../SPE06MA4**	0.5	1.7	3.4	10	12	520	570	630	690	690	42	7400	-
2.4	0.75	21	335	2.7	141.4	IE5	**BF40Z-../S5E06LA4**	1	3.5	7	21	25	335	335	335	335	335	53	10600	-
2.4	0.75	21	335	2.7	141.4	IE3	**BF40Z-../SPE06MA4**	1	3.5	7	21	25	250	280	310	335	335	53	10600	-
2.4	0.75	19	370	2.4	155.6	IE5	**BF40Z-../S5E06LA4**	0.95	3.2	6.4	19	23	370	370	370	370	370	53	10600	-
2.4	0.75	19	370	2.4	155.6	IE3	**BF40Z-../SPE06MA4**	0.95	3.2	6.4	19	23	280	310	340	370	370	53	10600	-
2.4	0.75	17.5	410	2.2	171.2	IE5	**BF40Z-../S5E06LA4**	0.85	2.9	5.8	17.5	21	410	410	410	410	410	53	10600	-
2.4	0.75	17.5	410	2.2	171.2	IE3	**BF40Z-../SPE06MA4**	0.85	2.9	5.8	17.5	21	305	340	375	410	410	53	10600	-
2.4	0.75	15.5	450	2	188.3	IE5	**BF40Z-../S5E06LA4**	0.75	2.6	5.3	15.5	19	450	450	450	450	450	53	10600	-
2.4	0.75	15.5	450	2	188.3	IE3	**BF40Z-../SPE06MA4**	0.75	2.6	5.3	15.5	19	335	375	410	450	450	53	10600	-
2.4	0.75	14.5	485	1.9	202.2	IE5	**BF40Z-../S5E06LA4**	0.7	2.4	4.9	14.5	17.5	485	485	485	485	485	53	10600	-
2.4	0.75	14.5	485	1.9	202.2	IE3	**BF40Z-../SPE06MA4**	0.7	2.4	4.9	14.5	17.5	360	400	440	485	485	53	10600	-
2.4	0.75	13	530	1.7	222.4	IE5	**BF40Z-../S5E06LA4**	0.65	2.2	4.4	13	16	530	530	530	530	530	53	10600	-
2.4	0.75	13	530	1.7	222.4	IE3	**BF40Z-../SPE06MA4**	0.65	2.2	4.4	13	16	400	440	485	530	530	53	10600	-
2.4	0.75	11.5	600	1.5	253.2	IE5	**BF40Z-../S5E06LA4**	0.55	1.9	3.9	11.5	14	600	600	600	600	600	53	10600	-
2.4	0.75	11.5	600	1.5	253.2	IE3	**BF40Z-../SPE06MA4**	0.55	1.9	3.9	11.5	14	455	500	550	600	600	53	10600	-
2.4	0.75	10.5	660	1.3	278.5	IE5	**BF40Z-../S5E06LA4**	0.5	1.7	3.5	10.5	12.5	660	660	660	660	660	53	10600	-
2.4	0.75	10.5	660	1.3	278.5	IE3	**BF40Z-../SPE06MA4**	0.5	1.7	3.5	10.5	12.5	500	550	610	660	660	53	10600	-
2.4	0.75	10	700	1.3	295.1	IE5	**BF40Z-../S5E06LA4**	0.5	1.6	3.3	10	12	700	700	700	700	700	53	10600	-
2.4	0.75	10	700	1.3	295.1	IE3	**BF40Z-../SPE06MA4**	0.5	1.6	3.3	10	12	530	590	640	700	700	53	10600	-
2.4	0.75	9.2	770	1.2	324.7	IE5	**BF40Z-../S5E06LA4**	0.46	1.5	3	9.2	11	770	770	770	770	770	53	10600	-
2.4	0.75	9.2	770	1.2	324.7	IE3	**BF40Z-../SPE06MA4**	0.46	1.5	3	9.2	11	580	640	710	770	770	53	10600	-
2.4	0.75	8.6	830	1.1	346.8	IE5	**BF40Z-../S5E06LA4**	0.43	1.4	2.8	8.6	10	830	830	830	830	830	53	10600	-
2.4	0.75	8.6	830	1.1	346.8	IE3	**BF40Z-../SPE06MA4**	0.43	1.4	2.8	8.6	10	620	690	760	830	830	53	10600	-
2.4	0.75	7.8	910	0.98	381.5	IE5	**BF40Z-../S5E06LA4**	0.39	1.3	2.6	7.8	9.4	910	910	910	910	910	53	10600	-
2.4	0.75	7.8	910	0.98	381.5	IE3	**BF40Z-../SPE06MA4**	0.39	1.3	2.6	7.8	9.4	680	760	830	910	910	53	10600	-
2.4	0.75	7.1	1000	0.9	417.3	IE5	**BF40Z-../S5E06LA4**	0.35	1.1	2.3	7.1	8.6	1000	1000	1000	1000	1000	53	10600	-
2.4	0.75	7.1	1000	0.9	417.3	IE3	**BF40Z-../SPE06MA4**	0.35	1.1	2.3	7.1	8.6	750	830	910	1000	1000	53	10600	-
2.4	0.75	6.5	1100	0.82	459.1	IE5	**BF40Z-../S5E06LA4**	0.32	1	2.1	6.5	7.8	1100	1100	1100	1100	1100	53	10600	-
2.4	0.75	6.5	1100	0.82	459.1	IE3	**BF40Z-../SPE06MA4**	0.32	1	2.1	6.5	7.8	820	910	1010	1100	1100	53	10600	-
2.4	0.75	16	440	3	183.5	IE5	**BF50Z-../S5E06LA4**	0.8	2.7	5.4	16	19.5	440	440	440	440	440	82	13600	-
2.4	0.75	16	440	3	183.5	IE3	**BF50Z-../SPE06MA4**	0.8	2.7	5.4	16	19.5	330	365	400	440	440	82	13600	-
2.4	0.75	14.5	490	2.6	205.2	IE5	**BF50Z-../S5E06LA4**	0.7	2.4	4.8	14.5	17.5	490	490	490	490	490	82	13600	-
2.4	0.75	14.5	490	2.6	205.2	IE3	**BF50Z-../SPE06MA4**	0.7	2.4	4.8	14.5	17.5	365	410	450	490	490	82	13600	-
2.4	0.75	12	590	2.2	247.5	IE5	**BF50Z-../S5E06LA4**	0.6	2	4	12	14.5	590	590	590	590	590	82	13600	-
2.4	0.75	12	590	2.2	247.5	IE3	**BF50Z-../SPE06MA4**	0.6	2	4	12	14.5	445	495	540	590	590	82	13600	-
2.4	0.75	10.5	660	2	276.8	IE5	**BF50Z-../S5E06LA4**	0.5	1.8	3.6	10.5	13	660	660	660	660	660	82	13600	-
2.4	0.75	10.5	660	2	276.8	IE3	**BF50Z-../SPE06MA4**	0.5	1.8	3.6	10.5	13	495	550	600	660	660	82	13600	-
2.4	0.75	9.4	750	1.7	316.6	IE5	**BF50Z-../S5E06LA4**	0.47	1.5	3.1	9.4	11	750	750	750	750	750	82	13600	-
2.4	0.75	9.4	750	1.7	316.6	IE3	**BF50Z-../SPE06MA4**	0.47	1.5	3.1	9.4	11	560	630	690	750	750	82	13600	-
2.4	0.75	8.4	840	1.5	354	IE5	**BF50Z-../S5E06LA4**	0.42	1.4	2.8	8.4	10	840	840	840	840	840	82	13600	-
2.4	0.75	8.4	840	1.5	354	IE3	**BF50Z-../SPE06MA4**	0.42	1.4	2.8	8.4	10	630	700	770	840	840	82	13600	-
2.4	0.75	7.6	940	1.4	392.8	IE5	**BF50Z-../S5E06LA4**	0.38	1.2	2.5	7.6	9.1	940	940	940	940	940	82	13600	-

MN = 2.4 Nm (PN = 0.75 kW)



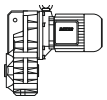
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
2.4	0.75	7.6	940	1.4	392.8	IE3	**BF50Z-../SPE06MA4**	0.38	1.2	2.5	7.6	9.1	700	780	860	940	940	82	13600	-
2.4	0.75	6.8	1050	1.2	439.3	IE5	**BF50Z-../S5E06LA4**	0.34	1.1	2.2	6.8	8.1	1050	1050	1050	1050	1050	82	13600	-
2.4	0.75	6.8	1050	1.2	439.3	IE3	**BF50Z-../SPE06MA4**	0.34	1.1	2.2	6.8	8.1	790	870	960	1050	1050	82	13600	-
2.4	0.75	6	1190	1.1	496.4	IE5	**BF50Z-../S5E06LA4**	0.3	1	2	6	7.2	1190	1190	1190	1190	1190	82	13600	-
2.4	0.75	6	1190	1.1	496.4	IE3	**BF50Z-../SPE06MA4**	0.3	1	2	6	7.2	890	990	1090	1190	1190	82	13600	-
2.4	0.75	5.4	1330	0.98	555.2	IE5	**BF50Z-../S5E06LA4**	0.27	0.9	1.8	5.4	6.4	1330	1330	1330	1330	1330	82	13600	-
2.4	0.75	5.4	1330	0.98	555.2	IE3	**BF50Z-../SPE06MA4**	0.27	0.9	1.8	5.4	6.4	990	1110	1220	1330	1330	82	13600	-
2.4	0.75	5.3	1330	1	555.9	IE5	**BF50G10-../S5E06LA4**	0.26	0.85	1.7	5.3	6.4	1330	1330	1330	1330	1330	86	13600	-
2.4	0.75	5.3	1330	1	555.9	IE3	**BF50G10-../SPE06MA4**	0.26	0.85	1.7	5.3	6.4	1000	1110	1220	1330	1330	86	13600	-
2.4	0.75	4.4	1630	0.86	680.9	IE5	**BF50G10-../S5E06LA4**	0.22	0.7	1.4	4.4	5.2	1630	1630	1630	1630	1630	86	13600	-
2.4	0.75	4.4	1630	0.86	680.9	IE3	**BF50G10-../SPE06MA4**	0.22	0.7	1.4	4.4	5.2	1220	1360	1490	1630	1630	86	13600	-
2.4	0.75	5.2	1360	1.8	569.3	IE5	**BF60G20-../S5E06LA4**	0.26	0.85	1.7	5.2	6.3	1360	1360	1360	1360	1360	134	15300	43300
2.4	0.75	5.2	1360	1.8	569.3	IE3	**BF60G20-../SPE06MA4**	0.26	0.85	1.7	5.2	6.3	1020	1130	1250	1360	1360	134	15300	43300
2.4	0.75	4.3	1650	1.5	689	IE5	**BF60G20-../S5E06LA4**	0.21	0.7	1.4	4.3	5.2	1650	1650	1650	1650	1650	134	15300	43300
2.4	0.75	4.3	1650	1.5	689	IE3	**BF60G20-../SPE06MA4**	0.21	0.7	1.4	4.3	5.2	1240	1370	1510	1650	1650	134	15300	43300
2.4	0.75	3.6	1950	1.3	813.2	IE5	**BF60G20-../S5E06LA4**	0.18	0.6	1.2	3.6	4.4	1950	1950	1950	1950	1950	134	15300	43300
2.4	0.75	3.6	1950	1.3	813.2	IE3	**BF60G20-../SPE06MA4**	0.18	0.6	1.2	3.6	4.4	1460	1620	1780	1950	1950	134	15300	43300
2.4	0.75	3.1	2250	1.1	937.6	IE5	**BF60G20-../S5E06LA4**	0.15	0.5	1	3.1	3.8	2250	2250	2250	2250	2250	134	15300	43300
2.4	0.75	3.1	2250	1.1	937.6	IE3	**BF60G20-../SPE06MA4**	0.15	0.5	1	3.1	3.8	1680	1870	2050	2250	2250	134	15300	43300
2.4	0.75	2.4	2900	0.86	1211	IE5	**BF60G20-../S5E06LA4**	0.12	0.41	0.8	2.4	2.9	2900	2900	2900	2900	2900	134	15300	43300
2.4	0.75	2.4	2900	0.86	1211	IE3	**BF60G20-../SPE06MA4**	0.12	0.41	0.8	2.4	2.9	2150	2400	2650	2900	2900	134	15300	43300
2.4	0.75	3.4	2050	2.7	872.1	IE5	**BF70G20-../S5E06LA4**	0.17	0.55	1.1	3.4	4.1	2050	2050	2050	2050	2050	212	16100	47700
2.4	0.75	3.4	2050	2.7	872.1	IE3	**BF70G20-../SPE06MA4**	0.17	0.55	1.1	3.4	4.1	1560	1740	1910	2050	2050	212	16100	47700
2.4	0.75	2.9	2400	2.3	1017	IE5	**BF70G20-../S5E06LA4**	0.14	0.49	0.95	2.9	3.5	2400	2400	2400	2400	2400	212	16100	47700
2.4	0.75	2.9	2400	2.3	1017	IE3	**BF70G20-../SPE06MA4**	0.14	0.49	0.95	2.9	3.5	1830	2000	2200	2400	2400	212	16100	47700
2.4	0.75	2.1	3300	1.7	1390	IE5	**BF70G20-../S5E06LA4**	0.1	0.35	0.7	2.1	2.5	3300	3300	3300	3300	3300	212	16100	47700
2.4	0.75	2.1	3300	1.7	1390	IE3	**BF70G20-../SPE06MA4**	0.1	0.35	0.7	2.1	2.5	2500	2750	3050	3300	3300	212	16100	47700
2.4	0.75	1.8	3850	1.5	1621	IE5	**BF70G20-../S5E06LA4**	0.09	0.3	0.6	1.8	2.2	3850	3850	3850	3850	3850	212	16100	47700
2.4	0.75	1.8	3850	1.5	1621	IE3	**BF70G20-../SPE06MA4**	0.09	0.3	0.6	1.8	2.2	2900	3200	3550	3850	3850	212	16100	47700
2.4	0.75	1.5	4550	1.2	1912	IE5	**BF70G20-../S5E06LA4**	0.075	0.26	0.5	1.5	1.8	4550	4550	4550	4550	4550	212	16100	47700
2.4	0.75	1.5	4550	1.2	1912	IE3	**BF70G20-../SPE06MA4**	0.075	0.26	0.5	1.5	1.8	3400	3800	4200	4550	4550	212	16100	47700
2.4	0.75	1.2	5800	0.97	2448	IE5	**BF70G20-../S5E06LA4**	0.06	0.2	0.4	1.2	1.4	5800	5800	5800	5800	5800	212	16100	47700
2.4	0.75	1.2	5800	0.97	2448	IE3	**BF70G20-../SPE06MA4**	0.06	0.2	0.4	1.2	1.4	4400	4850	5300	5800	5800	212	16100	47700
2.4	0.75	1	6800	0.83	2849	IE5	**BF70G20-../S5E06LA4**	0.05	0.17	0.35	1	1.2	6800	6800	6800	6800	6800	212	16100	47700
2.4	0.75	1	6800	0.83	2849	IE3	**BF70G20-../SPE06MA4**	0.05	0.17	0.35	1	1.2	5100	5600	6200	6800	6800	212	16100	47700

MN = 3.5 Nm (PN = 1.1 kW)



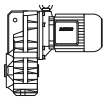
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
3.5	1.1	390	26.5	2.5	7.66	IE4	**BF06-../S4E06LA4**	19.5	65	130	390	465	19.1	22	26.5	26.5	26.5	12	1800	-
3.5	1.1	325	32	2.2	9.21	IE4	**BF06-../S4E06LA4**	16	54	108	325	390	23	26.5	32	32	32	12	1900	-
3.5	1.1	245	42	1.8	12.07	IE4	**BF06-../S4E06LA4**	12	41	82	245	295	30	35	42	42	42	12	2000	-
3.5	1.1	210	49.5	1.7	14.21	IE4	**BF06-../S4E06LA4**	10.5	35	70	210	250	35.5	41	49.5	49.5	49.5	12	2100	-
3.5	1.1	176	59	1.6	16.99	IE4	**BF06-../S4E06LA4**	8.8	29	58	176	210	42	49	59	59	59	12	2500	-
3.5	1.1	146	71	1.3	20.42	IE4	**BF06-../S4E06LA4**	7.3	24	48.5	146	176	51	59	71	71	71	12	2700	-
3.5	1.1	112	93	1	26.76	IE4	**BF06-../S4E06LA4**	5.6	18.5	37	112	134	66	77	93	93	93	12	3000	-
3.5	1.1	95	110	0.86	31.5	IE4	**BF06-../S4E06LA4**	4.7	15.5	31.5	95	114	78	91	110	110	110	12	3200	-
3.5	1.1	128	81	2.9	23.28	IE4	**BF10-../S4E06LA4**	6.4	21	42.5	128	154	58	67	81	81	81	23	3200	-
3.5	1.1	117	89	2.7	25.6	IE4	**BF10-../S4E06LA4**	5.8	19.5	39	117	140	64	74	89	89	89	23	3350	-
3.5	1.1	105	99	2.4	28.47	IE4	**BF10-../S4E06LA4**	5.2	17.5	35	105	126	71	82	99	99	99	23	3450	-
3.5	1.1	95	109	2.2	31.31	IE4	**BF10-../S4E06LA4**	4.7	15.5	31.5	95	114	78	90	109	109	109	23	3600	-
3.5	1.1	82	126	1.9	36.15	IE4	**BF10-../S4E06LA4**	4.1	13.5	27.5	82	99	90	104	126	126	126	23	3800	-
3.5	1.1	75	139	1.7	39.75	IE4	**BF10-../S4E06LA4**	3.7	12.5	25	75	90	99	115	139	139	139	23	3950	-
3.5	1.1	69	150	1.6	43.06	IE4	**BF10-../S4E06LA4**	3.4	11.5	23	69	83	107	124	150	150	150	23	4100	-
3.5	1.1	63	165	1.4	47.35	IE4	**BF10-../S4E06LA4**	3.1	10.5	21	63	76	118	137	165	165	165	23	4250	-
3.5	1.1	58	179	1.3	51.28	IE4	**BF10-../S4E06LA4**	2.9	9.7	19.5	58	70	128	148	179	179	179	23	4400	-
3.5	1.1	53	197	1.2	56.39	IE4	**BF10-../S4E06LA4**	2.6	8.8	17.5	53	63	140	163	197	197	197	23	4550	-
3.5	1.1	48.5	215	1.1	61.55	IE4	**BF10-../S4E06LA4**	2.4	8.1	16	48.5	58	153	178	215	215	215	23	4700	-
3.5	1.1	44	235	1	67.69	IE4	**BF10-../S4E06LA4**	2.2	7.3	14.5	44	53	169	196	235	235	235	23	4900	-
3.5	1.1	38.5	270	0.88	77.55	IE4	**BF10-../S4E06LA4**	1.9	6.4	12.5	38.5	46	193	220	270	270	270	23	5100	-
3.5	1.1	35	295	0.8	85.27	IE4	**BF10-../S4E06LA4**	1.7	5.8	11.5	35	42	210	245	295	295	295	23	5300	-
3.5	1.1	71	146	2.9	41.72	IE4	**BF20-../S4E06LA4**	3.5	11.5	23.5	71	86	104	120	146	146	146	30	4950	-
3.5	1.1	65	160	2.6	45.9	IE4	**BF20-../S4E06LA4**	3.2	10.5	21.5	65	78	114	133	160	160	160	30	5100	-
3.5	1.1	61	169	2.5	48.56	IE4	**BF20-../S4E06LA4**	3	10	20.5	61	74	121	140	169	169	169	30	5200	-
3.5	1.1	56	187	2.2	53.43	IE4	**BF20-../S4E06LA4**	2.8	9.3	18.5	56	67	133	154	187	187	187	30	5500	-
3.5	1.1	51	200	2.1	58.24	IE4	**BF20-../S4E06LA4**	2.5	8.5	17	51	61	145	168	200	200	200	30	5600	-
3.5	1.1	46.5	220	1.9	64.08	IE4	**BF20-../S4E06LA4**	2.3	7.8	15.5	46.5	56	160	185	220	220	220	30	5900	-
3.5	1.1	43	240	1.7	69.7	IE4	**BF20-../S4E06LA4**	2.1	7.1	14	43	51	174	200	240	240	240	30	6100	-
3.5	1.1	39	265	1.6	76.69	IE4	**BF20-../S4E06LA4**	1.9	6.5	13	39	46.5	191	220	265	265	265	30	6300	-
3.5	1.1	34	305	1.4	87.31	IE4	**BF20-../S4E06LA4**	1.7	5.7	11	34	41	215	250	305	305	305	30	6600	-
3.5	1.1	31	335	1.2	96.08	IE4	**BF20-../S4E06LA4**	1.5	5.2	10	31	37	240	275	335	335	335	30	6900	-

MN = 3.5 Nm (PN = 1.1 kW)



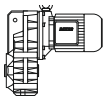
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
3.5	1.1	29.5	350	1.2	100.2	IE4	**BF20-../S4E06LA4**	1.4	4.9	9.9	29.5	35.5	250	290	350	350	350	30	7000	-
3.5	1.1	27	385	1.1	110.2	IE4	**BF20-../S4E06LA4**	1.3	4.5	9	27	32.5	275	315	385	385	385	30	7300	-
3.5	1.1	24	430	0.97	123.5	IE4	**BF20-../S4E06LA4**	1.2	4	8	24	29	305	355	430	430	430	30	7600	-
3.5	1.1	22	475	0.88	135.9	IE4	**BF20-../S4E06LA4**	1.1	3.6	7.3	22	26	335	390	475	475	475	30	7900	-
3.5	1.1	21	490	0.85	141.2	IE4	**BF20Z-../S4E06LA4**	1	3.5	7	21	25	350	405	490	490	490	31	7900	-
3.5	1.1	52	200	2.8	57.41	IE4	**BF30-../S4E06LA4**	2.6	8.7	17	52	62	143	166	200	200	200	40	5200	-
3.5	1.1	49	210	2.7	61.17	IE4	**BF30-../S4E06LA4**	2.4	8.1	16	49	58	152	177	210	210	210	40	5300	-
3.5	1.1	44.5	235	2.4	67.28	IE4	**BF30-../S4E06LA4**	2.2	7.4	14.5	44.5	53	168	195	235	235	235	40	5500	-
3.5	1.1	41.5	250	2.3	72.13	IE4	**BF30-../S4E06LA4**	2	6.9	13.5	41.5	49.5	180	205	250	250	250	40	5700	-
3.5	1.1	37.5	275	2.1	79.34	IE4	**BF30-../S4E06LA4**	1.8	6.3	12.5	37.5	45	198	230	275	275	275	40	5900	-
3.5	1.1	34	300	1.9	87.08	IE4	**BF30-../S4E06LA4**	1.7	5.7	11	34	41	215	250	300	300	300	40	6200	-
3.5	1.1	31	335	1.7	95.79	IE4	**BF30-../S4E06LA4**	1.5	5.2	10	31	37.5	235	275	335	335	335	40	6400	-
3.5	1.1	27.5	375	1.5	107.6	IE4	**BF30-../S4E06LA4**	1.3	4.6	9.2	27.5	33	265	310	375	375	375	40	6700	-
3.5	1.1	25	410	1.4	118.3	IE4	**BF30-../S4E06LA4**	1.2	4.2	8.4	25	30	295	340	410	410	410	40	7000	-
3.5	1.1	24	435	1.3	124.7	IE4	**BF30-../S4E06LA4**	1.2	4	8	24	28.5	310	360	435	435	435	40	7100	-
3.5	1.1	21.5	475	1.2	137.1	IE4	**BF30-../S4E06LA4**	1	3.6	7.2	21.5	26	340	395	475	475	475	40	7400	-
3.5	1.1	19.5	520	1.1	150.7	IE4	**BF30Z-../S4E06LA4**	0.95	3.3	6.6	19.5	23.5	375	435	520	520	520	42	7400	-
3.5	1.1	18	580	0.98	165.8	IE4	**BF30Z-../S4E06LA4**	0.9	3	6	18	21.5	410	480	580	580	580	42	7400	-
3.5	1.1	16.5	610	0.92	176.6	IE4	**BF30Z-../S4E06LA4**	0.8	2.8	5.6	16.5	20	440	510	610	610	610	42	7400	-
3.5	1.1	15	680	0.84	194.3	IE4	**BF30Z-../S4E06LA4**	0.75	2.5	5.1	15	18.5	485	560	680	680	680	42	7400	-
3.5	1.1	21	490	1.8	141.4	IE4	**BF40Z-../S4E06LA4**	1	3.5	7	21	25	350	410	490	490	490	53	10600	-
3.5	1.1	19	540	1.7	155.6	IE4	**BF40Z-../S4E06LA4**	0.95	3.2	6.4	19	23	385	450	540	540	540	53	10600	-
3.5	1.1	17.5	590	1.5	171.2	IE4	**BF40Z-../S4E06LA4**	0.85	2.9	5.8	17.5	21	425	495	590	590	590	53	10600	-
3.5	1.1	15.5	650	1.4	188.3	IE4	**BF40Z-../S4E06LA4**	0.75	2.6	5.3	15.5	19	470	540	650	650	650	53	10600	-
3.5	1.1	14.5	700	1.3	202.2	IE4	**BF40Z-../S4E06LA4**	0.7	2.4	4.9	14.5	17.5	500	580	700	700	700	53	10600	-
3.5	1.1	13	770	1.2	222.4	IE4	**BF40Z-../S4E06LA4**	0.65	2.2	4.4	13	16	550	640	770	770	770	53	10600	-
3.5	1.1	11.5	880	1	253.2	IE4	**BF40Z-../S4E06LA4**	0.55	1.9	3.9	11.5	14	630	730	880	880	880	53	10600	-
3.5	1.1	10.5	970	0.92	278.5	IE4	**BF40Z-../S4E06LA4**	0.5	1.7	3.5	10.5	12.5	690	800	970	970	970	53	10600	-
3.5	1.1	10	1030	0.87	295.1	IE4	**BF40Z-../S4E06LA4**	0.5	1.6	3.3	10	12	730	850	1030	1030	1030	53	10600	-
3.5	1.1	21.5	480	2.7	138.1	IE4	**BF50Z-../S4E06LA4**	1	3.6	7.2	21.5	26	345	400	480	480	480	82	13600	-
3.5	1.1	19	540	2.4	154.5	IE4	**BF50Z-../S4E06LA4**	0.95	3.2	6.4	19	23	385	445	540	540	540	82	13600	-
3.5	1.1	16	640	2	183.5	IE4	**BF50Z-../S4E06LA4**	0.8	2.7	5.4	16	19.5	455	530	640	640	640	82	13600	-
3.5	1.1	14.5	710	1.8	205.2	IE4	**BF50Z-../S4E06LA4**	0.7	2.4	4.8	14.5	17.5	510	590	710	710	710	82	13600	-
3.5	1.1	12	860	1.5	247.5	IE4	**BF50Z-../S4E06LA4**	0.6	2	4	12	14.5	610	710	860	860	860	82	13600	-
3.5	1.1	10.5	960	1.3	276.8	IE4	**BF50Z-../S4E06LA4**	0.5	1.8	3.6	10.5	13	690	800	960	960	960	82	13600	-
3.5	1.1	9.4	1100	1.2	316.6	IE4	**BF50Z-../S4E06LA4**	0.47	1.5	3.1	9.4	11	790	910	1100	1100	1100	82	13600	-
3.5	1.1	8.4	1230	1	354	IE4	**BF50Z-../S4E06LA4**	0.42	1.4	2.8	8.4	10	880	1020	1230	1230	1230	82	13600	-
3.5	1.1	7.6	1370	0.95	392.8	IE4	**BF50Z-../S4E06LA4**	0.38	1.2	2.5	7.6	9.1	980	1130	1370	1370	1370	82	13600	-
3.5	1.1	6.8	1530	0.85	439.3	IE4	**BF50Z-../S4E06LA4**	0.34	1.1	2.2	6.8	8.1	1090	1270	1530	1530	1530	82	13600	-
3.5	1.1	5.2	1990	1.3	569.3	IE4	**BF60G20-../S4E06LA4**	0.26	0.85	1.7	5.2	6.3	1420	1650	1990	1990	1990	134	15300	43300
3.5	1.1	4.3	2400	1	689	IE4	**BF60G20-../S4E06LA4**	0.21	0.7	1.4	4.3	5.2	1720	1990	2400	2400	2400	134	15300	43300
3.5	1.1	3.6	2800	0.88	813.2	IE4	**BF60G20-../S4E06LA4**	0.18	0.6	1.2	3.6	4.4	2000	2350	2800	2800	2800	134	15300	43300
3.5	1.1	5.1	2000	2.8	577.5	IE4	**BF70G20-../S4E06LA4**	0.25	0.85	1.7	5.1	6.2	1440	1670	2000	2000	2000	212	16100	47700
3.5	1.1	4.4	2350	2.4	673.6	IE4	**BF70G20-../S4E06LA4**	0.22	0.7	1.4	4.4	5.3	1680	1950	2350	2350	2350	212	16100	47700
3.5	1.1	3.4	3050	1.9	872.1	IE4	**BF70G20-../S4E06LA4**	0.17	0.55	1.1	3.4	4.1	2150	2500	3050	3050	3050	212	16100	47700
3.5	1.1	2.9	3550	1.6	1017	IE4	**BF70G20-../S4E06LA4**	0.14	0.49	0.95	2.9	3.5	2500	2900	3550	3550	3550	212	16100	47700
3.5	1.1	2.1	4850	1.2	1390	IE4	**BF70G20-../S4E06LA4**	0.1	0.35	0.7	2.1	2.5	3450	4000	4850	4850	4850	212	16100	47700
3.5	1.1	1.8	5600	1	1621	IE4	**BF70G20-../S4E06LA4**	0.09	0.3	0.6	1.8	2.2	4050	4700	5600	5600	5600	212	16100	47700
3.5	1.1	1.5	6600	0.85	1912	IE4	**BF70G20-../S4E06LA4**	0.075	0.26	0.5	1.5	1.8	4750	5500	6600	6600	6600	212	16100	47700

MN = 5 Nm (PN = 1.55 kW)



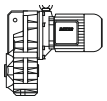
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
5	1.55	520	28.5	2.2	5.72	IE5	**BF06-../S5E08MA4**	26	87	174	520	620	28.5	28.5	28.5	28.5	28.5	16	1600	-
5	1.55	390	38	1.8	7.66	IE5	**BF06-../S5E08MA4**	19.5	65	130	390	465	38	38	38	38	38	16	1800	-
5	1.55	325	46	1.5	9.21	IE5	**BF06-../S5E08MA4**	16	54	108	325	390	46	46	46	46	46	16	1900	-
5	1.55	245	60	1.2	12.07	IE5	**BF06-../S5E08MA4**	12	41	82	245	295	60	60	60	60	60	16	2000	-
5	1.55	210	71	1.2	14.21	IE5	**BF06-../S5E08MA4**	10.5	35	70	210	250	71	71	71	71	71	16	2100	-
5	1.55	176	84	1.1	16.99	IE5	**BF06-../S5E08MA4**	8.8	29	58	176	210	84	84	84	84	84	16	2500	-
5	1.55	146	102	0.93	20.42	IE5	**BF06-../S5E08MA4**	7.3	24	48.5	146	176	102	102	102	102	102	16	2700	-
5	1.55	199	75	2.4	15.04	IE5	**BF10-../S5E08MA4**	9.9	33	66	199	235	75	75	75	75	75	27	2800	-
5	1.55	164	91	2.6	18.23	IE5	**BF10-../S5E08MA4**	8.2	27	54	164	197	91	91	91	91	91	27	2900	-
5	1.55	149	100	2.4	20.05	IE5	**BF10-../S5E08MA4**	7.4	24.5	49.5	149	179	100	100	100	100	100	27	3000	-
5	1.55	128	116	2.1	23.28	IE5	**BF10-../S5E08MA4**	6.4	21	42.5	128	154	116	116	116	116	116	27	3200	-
5	1.55	117	128	1.9	25.6	IE5	**BF10-../S5E08MA4**	5.8	19.5	39	117	140	128	128	128	128	128	27	3350	-
5	1.55	105	142	1.7	28.47	IE5	**BF10-../S5E08MA4**	5.2	17.5	35	105	126	142	142	142	142	142	27	3450	-
5	1.55	95	156	1.5	31.31	IE5	**BF10-../S5E08MA4**	4.7	15.5	31.5	95	114	156	156	156	156	156	27	3600	-
5	1.55	82	180	1.3	36.15	IE5	**BF10-../S5E08MA4**	4.1	13.5	27.5	82	99	180	180	180	180	180	27	3800	-
5	1.55	75	198	1.2	39.75	IE5	**BF10-../S5E08MA4**	3.7	12.5	25	75	90	198	198	198	198	198	27	3950	-

MN = 5 Nm (PN = 1.55 kW)



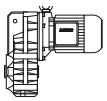
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
5	1.55	69	215	1.1	43.06	IE5	**BF10-../S5E08MA4**	3.4	11.5	23	69	83	215	215	215	215	215	27	4100	-
5	1.55	63	235	1	47.35	IE5	**BF10-../S5E08MA4**	3.1	10.5	21	63	76	235	235	235	235	235	27	4250	-
5	1.55	58	255	0.94	51.28	IE5	**BF10-../S5E08MA4**	2.9	9.7	19.5	58	70	255	255	255	255	255	27	4400	-
5	1.55	53	280	0.85	56.39	IE5	**BF10-../S5E08MA4**	2.6	8.8	17.5	53	63	280	280	280	280	280	27	4550	-
5	1.55	108	138	3	27.62	IE5	**BF20-../S5E08MA4**	5.4	18	36	108	130	138	138	138	138	138	33	4150	-
5	1.55	98	152	2.8	30.4	IE5	**BF20-../S5E08MA4**	4.9	16	32.5	98	118	152	152	152	152	152	33	4400	-
5	1.55	92	162	2.6	32.58	IE5	**BF20-../S5E08MA4**	4.6	15	30.5	92	110	162	162	162	162	162	33	4450	-
5	1.55	83	179	2.3	35.85	IE5	**BF20-../S5E08MA4**	4.1	13.5	27.5	83	100	179	179	179	179	179	33	4650	-
5	1.55	71	205	2	41.72	IE5	**BF20-../S5E08MA4**	3.5	11.5	23.5	71	86	205	205	205	205	205	33	4950	-
5	1.55	65	225	1.8	45.9	IE5	**BF20-../S5E08MA4**	3.2	10.5	21.5	65	78	225	225	225	225	225	33	5100	-
5	1.55	61	240	1.7	48.56	IE5	**BF20-../S5E08MA4**	3	10	20.5	61	74	240	240	240	240	240	33	5200	-
5	1.55	56	265	1.6	53.43	IE5	**BF20-../S5E08MA4**	2.8	9.3	18.5	56	67	265	265	265	265	265	33	5500	-
5	1.55	51	290	1.4	58.24	IE5	**BF20-../S5E08MA4**	2.5	8.5	17	51	61	290	290	290	290	290	33	5600	-
5	1.55	46.5	320	1.3	64.08	IE5	**BF20-../S5E08MA4**	2.3	7.8	15.5	46.5	56	320	320	320	320	320	33	5900	-
5	1.55	43	345	1.2	69.7	IE5	**BF20-../S5E08MA4**	2.1	7.1	14	43	51	345	345	345	345	345	33	6100	-
5	1.55	39	380	1.1	76.69	IE5	**BF20-../S5E08MA4**	1.9	6.5	13	39	46.5	380	380	380	380	380	33	6300	-
5	1.55	34	435	0.96	87.31	IE5	**BF20-../S5E08MA4**	1.7	5.7	11	34	41	435	435	435	435	435	33	6600	-
5	1.55	31	480	0.87	96.08	IE5	**BF20-../S5E08MA4**	1.5	5.2	10	31	37	480	480	480	480	480	33	6900	-
5	1.55	29.5	500	0.84	100.2	IE5	**BF20-../S5E08MA4**	1.4	4.9	9.9	29.5	35.5	500	500	500	500	500	33	7000	-
5	1.55	77	192	3	38.49	IE5	**BF30-../S5E08MA4**	3.8	12.5	25.5	77	93	192	192	192	192	192	43	4400	-
5	1.55	73	205	2.8	41.01	IE5	**BF30-../S5E08MA4**	3.6	12	24	73	87	205	205	205	205	205	43	4500	-
5	1.55	66	225	2.5	45.1	IE5	**BF30-../S5E08MA4**	3.3	11	22	66	79	225	225	225	225	225	43	4700	-
5	1.55	57	260	2.2	52.2	IE5	**BF30-../S5E08MA4**	2.8	9.5	19	57	68	260	260	260	260	260	43	5000	-
5	1.55	52	285	2	57.41	IE5	**BF30-../S5E08MA4**	2.6	8.7	17	52	62	285	285	285	285	285	43	5200	-
5	1.55	49	305	1.9	61.17	IE5	**BF30-../S5E08MA4**	2.4	8.1	16	49	58	305	305	305	305	305	43	5300	-
5	1.55	44.5	335	1.7	67.28	IE5	**BF30-../S5E08MA4**	2.2	7.4	14.5	44.5	53	335	335	335	335	335	43	5500	-
5	1.55	41.5	360	1.6	72.13	IE5	**BF30-../S5E08MA4**	2	6.9	13.5	41.5	49.5	360	360	360	360	360	43	5700	-
5	1.55	37.5	395	1.4	79.34	IE5	**BF30-../S5E08MA4**	1.8	6.3	12.5	37.5	45	395	395	395	395	395	43	5900	-
5	1.55	34	435	1.3	87.08	IE5	**BF30-../S5E08MA4**	1.7	5.7	11	34	41	435	435	435	435	435	43	6200	-
5	1.55	31	475	1.2	95.79	IE5	**BF30-../S5E08MA4**	1.5	5.2	10	31	37.5	475	475	475	475	475	43	6400	-
5	1.55	27.5	530	1.1	107.6	IE5	**BF30-../S5E08MA4**	1.3	4.6	9.2	27.5	33	530	530	530	530	530	43	6700	-
5	1.55	25	590	0.96	118.3	IE5	**BF30-../S5E08MA4**	1.2	4.2	8.4	25	30	590	590	590	590	590	43	7000	-
5	1.55	24	620	0.91	124.7	IE5	**BF30-../S5E08MA4**	1.2	4	8	24	28.5	620	620	620	620	620	43	7100	-
5	1.55	21.5	680	0.83	137.1	IE5	**BF30-../S5E08MA4**	1	3.6	7.2	21.5	26	680	680	680	680	680	43	7400	-
5	1.55	48.5	305	2.9	61.25	IE5	**BF40-../S5E08MA4**	2.4	8.1	16	48.5	58	305	305	305	305	305	53	7600	-
5	1.55	44.5	335	2.7	67.38	IE5	**BF40-../S5E08MA4**	2.2	7.4	14.5	44.5	53	335	335	335	335	335	53	8000	-
5	1.55	42	355	2.5	71.4	IE5	**BF40-../S5E08MA4**	2.1	7	14	42	50	355	355	355	355	355	53	8100	-
5	1.55	38	390	2.3	78.55	IE5	**BF40-../S5E08MA4**	1.9	6.3	12.5	38	45.5	390	390	390	390	390	53	8500	-
5	1.55	35.5	415	2.1	83.91	IE5	**BF40-../S5E08MA4**	1.7	5.9	11.5	35.5	42.5	415	415	415	415	415	53	8700	-
5	1.55	32	460	1.9	92.31	IE5	**BF40-../S5E08MA4**	1.6	5.4	10.5	32	38.5	460	460	460	460	460	53	9100	-
5	1.55	29.5	500	1.8	101	IE5	**BF40-../S5E08MA4**	1.4	4.9	9.9	29.5	35.5	500	500	500	500	500	53	9400	-
5	1.55	27	550	1.6	111.1	IE5	**BF40-../S5E08MA4**	1.3	4.5	9	27	32	550	550	550	550	550	53	9800	-
5	1.55	24	620	1.4	124.5	IE5	**BF40-../S5E08MA4**	1.2	4	8	24	28.5	620	620	620	620	620	53	10200	-
5	1.55	21.5	680	1.3	137	IE5	**BF40-../S5E08MA4**	1	3.6	7.2	21.5	26	680	680	680	680	680	53	10600	-
5	1.55	21	700	1.3	141.4	IE5	**BF40Z-../S5E08MA4**	1	3.5	7	21	25	700	700	700	700	700	56	10600	-
5	1.55	19	770	1.2	155.6	IE5	**BF40Z-../S5E08MA4**	0.95	3.2	6.4	19	23	770	770	770	770	770	56	10600	-
5	1.55	17.5	850	1.1	171.2	IE5	**BF40Z-../S5E08MA4**	0.85	2.9	5.8	17.5	21	850	850	850	850	850	56	10600	-
5	1.55	15.5	940	0.96	188.3	IE5	**BF40Z-../S5E08MA4**	0.75	2.6	5.3	15.5	19	940	940	940	940	940	56	10600	-
5	1.55	14.5	1010	0.89	202.2	IE5	**BF40Z-../S5E08MA4**	0.7	2.4	4.9	14.5	17.5	1010	1010	1010	1010	1010	56	10600	-
5	1.55	13	1110	0.81	222.4	IE5	**BF40Z-../S5E08MA4**	0.65	2.2	4.4	13	16	1110	1110	1110	1110	1110	56	10600	-
5	1.55	33	450	2.9	90.24	IE5	**BF50-../S5E08MA4**	1.6	5.5	11	33	39.5	450	450	450	450	450	81	11800	-
5	1.55	29.5	500	2.6	100.9	IE5	**BF50-../S5E08MA4**	1.4	4.9	9.9	29.5	35.5	500	500	500	500	500	81	12300	-
5	1.55	26	570	2.3	114	IE5	**BF50-../S5E08MA4**	1.3	4.3	8.7	26	31.5	570	570	570	570	570	81	12900	-
5	1.55	23.5	630	2	127.5	IE5	**BF50-../S5E08MA4**	1.1	3.9	7.8	23.5	28	630	630	630	630	630	81	13600	-
5	1.55	21.5	690	1.9	138.1	IE5	**BF50Z-../S5E08MA4**	1	3.6	7.2	21.5	26	690	690	690	690	690	86	13600	-
5	1.55	19	770	1.7	154.5	IE5	**BF50Z-../S5E08MA4**	0.95	3.2	6.4	19	23	770	770	770	770	770	86	13600	-
5	1.55	16	910	1.4	183.5	IE5	**BF50Z-../S5E08MA4**	0.8	2.7	5.4	16	19.5	910	910	910	910	910	86	13600	-
5	1.55	14.5	1020	1.3	205.2	IE5	**BF50Z-../S5E08MA4**	0.7	2.4	4.8	14.5	17.5	1020	1020	1020	1020	1020	86	13600	-
5	1.55	12	1230	1.1	247.5	IE5	**BF50Z-../S5E08MA4**	0.6	2	4	12	14.5	1230	1230	1230	1230	1230	86	13600	-
5	1.55	10.5	1380	0.94	276.8	IE5	**BF50Z-../S5E08MA4**	0.5	1.8	3.6	10.5	13	1380	1380	1380	1380	1380	86	13600	-
5	1.55	9.4	1580	0.82	316.6	IE5	**BF50Z-../S5E08MA4**	0.47	1.5	3.1	9.4	11	1580	1580	1580	1580	1580	86	13600	-
5	1.55	17.5	840	2.7	169.2	IE5	**BF60Z-../S5E08MA4**	0.85	2.9	5.9	17.5	21	840	840	840	840	840	130	15300	43300
5	1.55	15.5	930	2.5	187.7	IE5	**BF60Z-../S5E08MA4**	0.75	2.6	5.3	15.5	19	930	930	930	930	930	130	15300	43300
5	1.55	13.5	1100	2.1	221.4	IE5	**BF60Z-../S5E08MA4**	0.65	2.2	4.5	13.5	16	1100	1100	1100	1100	1100	130	15300	43300
5	1.55	12	1220	1.9	245.6	IE5	**BF60Z-../S5E08MA4**	0.6	2	4	12	14.5	1220	1220	1220	1220	1220	130	15300	43300
5	1.55	10	1460	1.6	293.4	IE5	**BF60Z-../S5E08MA4**	0.5	1.7	3.4	10	12	1460	1460	1460	1460	1460	130	15300	43300
5	1.55	9.2	1620	1.4	325.6	IE5	**BF60Z-../S5E08MA4**	0.46	1.5	3	9.2	11	1620	1620	1620	1620	1620	130	15300	43300
5	1.55	7.8	1900	1.2	380	IE5	**BF60Z-../S5E08MA4**	0.39	1.3	2.6	7.8	9.4	1900	1900	1900	1900	1900	130	15300	43300
5	1.55	7.1	2100	1.1	421.6	IE5	**BF60Z-../S5E08MA4**	0.35	1.1	2.3	7.1	8.5	2100	2100	2100	2100	2100	130	15300	43300
5	1.55	6.5	2250	1	459.9	IE5	**BF60Z-../S5E08MA4**	0.32	1	2.1	6.5	7.8	2250	2250	2250	2250	2250	130	15300	43300
5	1.55	5.8	2550	0.9	510.3	IE5	**BF60Z-../S5E08MA4**	0.29	0.95	1.9	5.8	7	2550	2550	2550	2550	2550	130	15300	43300
5	1.55	5.2	2800	0.88	569.3	IE5	**BF60G20-../S5E08MA4**	0.26	0.85	1.7	5.2	6.3	2800	2800	2800	2800	2800	137	15300	43300
5	1.55	8.7	1700	3	341.7	IE5	**BF70Z-../S5E08MA4**	0.43	1.4	2.9	8.7	10.5	1700	1700	1700	1700	1700	218	16100	47700
5	1.55	7.5	1990	2.6	398.7	IE5	**BF70Z-../S5E08MA4**	0.37	1.2	2.5	7.5	9	1990	1990	1990	1990	1990	218	16100	47700
5	1.55	6.8	2150	2.4	439.2	IE5	**BF70Z-../S5E08MA4**	0.34	1.1	2.2	6.8	8.1	2150	2150	2150	2150	2150	218	16100	47700
5	1.55	5.8	2550	2	512.4	IE5	**BF70Z-../S5E08MA4**	0.29	0.95	1.9	5.8	7	2550	2550	2550	2550	2550	218	16100	47700

MN = 5 Nm (PN = 1.55 kW)



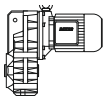
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
5	1.55	5.7	2600	2.2	524.1	IE5	**BF70G20-../S5E08MA4**	0.28	0.95	1.9	5.7	6.8	2600	2600	2600	2600	2600	216	16100	47700
5	1.55	5.1	2850	2	577.5	IE5	**BF70G20-../S5E08MA4**	0.25	0.85	1.7	5.1	6.2	2850	2850	2850	2850	2850	216	16100	47700
5	1.55	4.4	3350	1.7	673.6	IE5	**BF70G20-../S5E08MA4**	0.22	0.7	1.4	4.4	5.3	3350	3350	3350	3350	3350	216	16100	47700
5	1.55	3.4	4350	1.3	872.1	IE5	**BF70G20-../S5E08MA4**	0.17	0.55	1.1	3.4	4.1	4350	4350	4350	4350	4350	216	16100	47700
5	1.55	2.9	5000	1.1	1017	IE5	**BF70G20-../S5E08MA4**	0.14	0.49	0.95	2.9	3.5	5000	5000	5000	5000	5000	216	16100	47700
5	1.55	2.1	6900	0.82	1390	IE5	**BF70G20-../S5E08MA4**	0.1	0.35	0.7	2.1	2.5	6900	6900	6900	6900	6900	216	16100	47700
5	1.55	3.8	3850	2.7	770.6	IE5	**BF80Z-../S5E08MA4**	0.19	0.6	1.2	3.8	4.6	3850	3850	3850	3850	3850	334	39600	75000
5	1.55	3.4	4350	2.4	874.6	IE5	**BF80Z-../S5E08MA4**	0.17	0.55	1.1	3.4	4.1	4350	4350	4350	4350	4350	334	39600	75000
5	1.55	3	4950	2.1	990.4	IE5	**BF80Z-../S5E08MA4**	0.15	0.5	1	3	3.6	4950	4950	4950	4950	4950	334	39600	75000
5	1.55	2.6	5600	1.9	1124	IE5	**BF80Z-../S5E08MA4**	0.13	0.44	0.85	2.6	3.2	5600	5600	5600	5600	5600	334	39600	75000
5	1.55	2.2	6600	1.6	1329	IE5	**BF80G40-../S5E08MA4**	0.11	0.37	0.75	2.2	2.7	6600	6600	6600	6600	6600	340	39600	75000
5	1.55	2	7400	1.4	1491	IE5	**BF80G40-../S5E08MA4**	0.1	0.33	0.65	2	2.4	7400	7400	7400	7400	7400	340	39600	75000
5	1.55	1.7	8400	1.2	1693	IE5	**BF80G40-../S5E08MA4**	0.085	0.29	0.55	1.7	2.1	8400	8400	8400	8400	8400	340	39600	75000
5	1.55	1.4	10200	1	2051	IE5	**BF80G40-../S5E08MA4**	0.07	0.24	0.48	1.4	1.7	10200	10200	10200	10200	10200	340	39600	75000
5	1.55	1.2	12100	0.87	2422	IE5	**BF80G40-../S5E08MA4**	0.06	0.2	0.41	1.2	1.4	12100	12100	12100	12100	12100	340	39600	75000
5	1.55	2	7200	2.6	1444	IE5	**BF90G50-../S5E08MA4**	0.1	0.34	0.65	2	2.4	7200	7200	7200	7200	7200	610	42800	120000
5	1.55	1.7	8300	2.2	1678	IE5	**BF90G50-../S5E08MA4**	0.085	0.29	0.55	1.7	2.1	8300	8300	8300	8300	8300	610	42800	120000
5	1.55	1.6	9300	2	1867	IE5	**BF90G50-../S5E08MA4**	0.08	0.26	0.5	1.6	1.9	9300	9300	9300	9300	9300	610	42800	120000
5	1.55	1.3	10700	1.7	2154	IE5	**BF90G50-../S5E08MA4**	0.065	0.23	0.46	1.3	1.6	10700	10700	10700	10700	10700	610	42800	120000
5	1.55	1.1	13200	1.4	2656	IE5	**BF90G50-../S5E08MA4**	0.055	0.18	0.37	1.1	1.3	13200	13200	13200	13200	13200	610	42800	120000
5	1.55	1	14700	1.3	2952	IE5	**BF90G50-../S5E08MA4**	0.05	0.16	0.33	1	1.2	14700	14700	14700	14700	14700	610	42800	120000
5	1.55	0.9	16400	1.1	3286	IE5	**BF90G50-../S5E08MA4**	0.045	0.15	0.3	0.9	1	16400	16400	16400	16400	16400	610	42800	120000
5	1.55	0.8	18200	1	3644	IE5	**BF90G50-../S5E08MA4**	0.041	0.13	0.27	0.8	0.95	18200	18200	18200	18200	18200	610	42800	120000
5	1.55	0.65	21500	0.85	4366	IE5	**BF90G50-../S5E08MA4**	0.034	0.11	0.22	0.65	0.8	21500	21500	21500	21500	21500	610	42800	120000

MN = 7 Nm (PN = 2.2 kW)



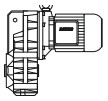
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
7	2.2	520	40	1.5	5.72	IE4	**BF06-../S4E08MA4**	26	87	174	520	620	28.5	33.5	40	40	40	16	1600	-
7	2.2	520	40	1.5	5.72	IE5	**BF06-../S5E08LA4**	26	87	174	520	620	37	40	40	40	40	17	1600	-
7	2.2	390	53	1.3	7.66	IE4	**BF06-../S4E08MA4**	19.5	65	130	390	465	38	45	53	53	53	16	1800	-
7	2.2	390	53	1.3	7.66	IE5	**BF06-../S5E08LA4**	19.5	65	130	390	465	49.5	53	53	53	53	17	1800	-
7	2.2	325	64	1.1	9.21	IE4	**BF06-../S4E08MA4**	16	54	108	325	390	46	54	64	64	64	16	1900	-
7	2.2	325	64	1.1	9.21	IE5	**BF06-../S5E08LA4**	16	54	108	325	390	59	64	64	64	64	17	1900	-
7	2.2	245	84	0.89	12.07	IE4	**BF06-../S4E08MA4**	12	41	82	245	295	60	71	84	84	84	16	2000	-
7	2.2	245	84	0.89	12.07	IE5	**BF06-../S5E08LA4**	12	41	82	245	295	78	84	84	84	84	17	2000	-
7	2.2	210	99	0.85	14.21	IE4	**BF06-../S4E08MA4**	10.5	35	70	210	250	71	83	99	99	99	16	2100	-
7	2.2	210	99	0.85	14.21	IE5	**BF06-../S5E08LA4**	10.5	35	70	210	250	92	99	99	99	99	17	2100	-
7	2.2	176	118	0.8	16.99	IE4	**BF06-../S4E08MA4**	8.8	29	58	176	210	84	100	118	118	118	16	2500	-
7	2.2	176	118	0.8	16.99	IE5	**BF06-../S5E08LA4**	8.8	29	58	176	210	110	118	118	118	118	17	2500	-
7	2.2	395	53	2.9	7.58	IE4	**BF10-../S4E08MA4**	19.5	65	131	395	470	37.5	44.5	53	53	53	27	2200	-
7	2.2	395	53	2.9	7.58	IE5	**BF10-../S5E08LA4**	19.5	65	131	395	470	49	53	53	53	53	28	2200	-
7	2.2	305	67	2.6	9.69	IE4	**BF10-../S4E08MA4**	15	51	103	305	370	48	57	67	67	67	27	2350	-
7	2.2	305	67	2.6	9.69	IE5	**BF10-../S5E08LA4**	15	51	103	305	370	62	67	67	67	67	28	2350	-
7	2.2	250	82	2.2	11.84	IE4	**BF10-../S4E08MA4**	12.5	42	84	250	300	59	69	82	82	82	27	2500	-
7	2.2	250	82	2.2	11.84	IE5	**BF10-../S5E08LA4**	12.5	42	84	250	300	76	82	82	82	82	28	2500	-
7	2.2	199	105	1.7	15.04	IE4	**BF10-../S4E08MA4**	9.9	33	66	199	235	75	88	105	105	105	27	2800	-
7	2.2	199	105	1.7	15.04	IE5	**BF10-../S5E08LA4**	9.9	33	66	199	235	97	105	105	105	105	28	2800	-
7	2.2	164	127	1.9	18.23	IE4	**BF10-../S4E08MA4**	8.2	27	54	164	197	91	107	127	127	127	27	2900	-
7	2.2	164	127	1.9	18.23	IE5	**BF10-../S5E08LA4**	8.2	27	54	164	197	118	127	127	127	127	28	2900	-
7	2.2	149	140	1.7	20.05	IE4	**BF10-../S4E08MA4**	7.4	24.5	49.5	149	179	100	118	140	140	140	27	3000	-
7	2.2	149	140	1.7	20.05	IE5	**BF10-../S5E08LA4**	7.4	24.5	49.5	149	179	130	140	140	140	140	28	3000	-
7	2.2	128	162	1.5	23.28	IE4	**BF10-../S4E08MA4**	6.4	21	42.5	128	154	116	137	162	162	162	27	3200	-
7	2.2	128	162	1.5	23.28	IE5	**BF10-../S5E08LA4**	6.4	21	42.5	128	154	151	162	162	162	162	28	3200	-
7	2.2	117	179	1.3	25.6	IE4	**BF10-../S4E08MA4**	5.8	19.5	39	117	140	128	151	179	179	179	27	3350	-
7	2.2	117	179	1.3	25.6	IE5	**BF10-../S5E08LA4**	5.8	19.5	39	117	140	166	179	179	179	179	28	3350	-
7	2.2	105	199	1.2	28.47	IE4	**BF10-../S4E08MA4**	5.2	17.5	35	105	126	142	167	199	199	199	27	3450	-
7	2.2	105	199	1.2	28.47	IE5	**BF10-../S5E08LA4**	5.2	17.5	35	105	126	185	199	199	199	199	28	3450	-
7	2.2	95	215	1.1	31.31	IE4	**BF10-../S4E08MA4**	4.7	15.5	31.5	95	114	156	184	215	215	215	27	3600	-
7	2.2	95	215	1.1	31.31	IE5	**BF10-../S5E08LA4**	4.7	15.5	31.5	95	114	200	215	215	215	215	28	3600	-
7	2.2	82	250	0.95	36.15	IE4	**BF10-../S4E08MA4**	4.1	13.5	27.5	82	99	180	210	250	250	250	27	3800	-
7	2.2	82	250	0.95	36.15	IE5	**BF10-../S5E08LA4**	4.1	13.5	27.5	82	99	230	250	250	250	250	28	3800	-
7	2.2	75	275	0.86	39.75	IE4	**BF10-../S4E08MA4**	3.7	12.5	25	75	90	198	230	275	275	275	27	3950	-
7	2.2	75	275	0.86	39.75	IE5	**BF10-../S5E08LA4**	3.7	12.5	25	75	90	255	275	275	275	275	28	3950	-
7	2.2	69	300	0.8	43.06	IE4	**BF10-../S4E08MA4**	3.4	11.5	23	69	83	215	250	300	300	300	27	4100	-
7	2.2	69	300	0.8	43.06	IE5	**BF10-../S5E08LA4**	3.4	11.5	23	69	83	275	300	300	300	300	28	4100	-
7	2.2	193	108	2.8	15.54	IE4	**BF20-../S4E08MA4**	9.6	32	64	193	230	77	91	108	108	108	33	3450	-
7	2.2	193	108	2.8	15.54	IE5	**BF20-../S5E08LA4**	9.6	32	64	193	230	101	108	108	108	108	35	3450	-
7	2.2	162	129	2.9	18.45	IE4	**BF20-../S4E08MA4**	8.1	27	54	162	195	92	108	129	129	129	33	3600	-
7	2.2	162	129	2.9	18.45	IE5	**BF20-../S5E08LA4**	8.1	27	54	162	195	119	129	129	129	129	35	3600	-
7	2.2	136	154	2.6	22.04	IE4	**BF20-../S4E08MA4**	6.8	22.5	45	136	163	110	130	154	154	154	33	3800	-

MN = 7 Nm (PN = 2.2 kW)



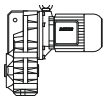
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
7	2.2	136	154	2.6	22.04	IE5	**BF20-../S5E08LA4**	6.8	22.5	45	136	163	143	154	154	154	154	35	3800	-
7	2.2	123	169	2.4	24.25	IE4	**BF20-../S4E08MA4**	6.1	20.5	41	123	148	121	143	169	169	169	33	3950	-
7	2.2	123	169	2.4	24.25	IE5	**BF20-../S5E08LA4**	6.1	20.5	41	123	148	157	169	169	169	169	35	3950	-
7	2.2	108	193	2.2	27.62	IE4	**BF20-../S4E08MA4**	5.4	18	36	108	130	138	162	193	193	193	33	4150	-
7	2.2	108	193	2.2	27.62	IE5	**BF20-../S5E08LA4**	5.4	18	36	108	130	179	193	193	193	193	35	4150	-
7	2.2	98	210	2	30.4	IE4	**BF20-../S4E08MA4**	4.9	16	32.5	98	118	152	179	210	210	210	33	4400	-
7	2.2	98	210	2	30.4	IE5	**BF20-../S5E08LA4**	4.9	16	32.5	98	118	197	210	210	210	210	35	4400	-
7	2.2	92	225	1.8	32.58	IE4	**BF20-../S4E08MA4**	4.6	15	30.5	92	110	162	192	225	225	225	33	4450	-
7	2.2	92	225	1.8	32.58	IE5	**BF20-../S5E08LA4**	4.6	15	30.5	92	110	210	225	225	225	225	35	4450	-
7	2.2	83	250	1.7	35.85	IE4	**BF20-../S4E08MA4**	4.1	13.5	27.5	83	100	179	210	250	250	250	33	4650	-
7	2.2	83	250	1.7	35.85	IE5	**BF20-../S5E08LA4**	4.1	13.5	27.5	83	100	230	250	250	250	250	35	4650	-
7	2.2	71	290	1.4	41.72	IE4	**BF20-../S4E08MA4**	3.5	11.5	23.5	71	86	205	245	290	290	290	33	4950	-
7	2.2	71	290	1.4	41.72	IE5	**BF20-../S5E08LA4**	3.5	11.5	23.5	71	86	270	290	290	290	290	35	4950	-
7	2.2	65	320	1.3	45.9	IE4	**BF20-../S4E08MA4**	3.2	10.5	21.5	65	78	225	270	320	320	320	33	5100	-
7	2.2	65	320	1.3	45.9	IE5	**BF20-../S5E08LA4**	3.2	10.5	21.5	65	78	295	320	320	320	320	35	5100	-
7	2.2	61	335	1.2	48.56	IE4	**BF20-../S4E08MA4**	3	10	20.5	61	74	240	285	335	335	335	33	5200	-
7	2.2	61	335	1.2	48.56	IE5	**BF20-../S5E08LA4**	3	10	20.5	61	74	315	335	335	335	335	35	5200	-
7	2.2	56	370	1.1	53.43	IE4	**BF20-../S4E08MA4**	2.8	9.3	18.5	56	67	265	315	370	370	370	33	5500	-
7	2.2	56	370	1.1	53.43	IE5	**BF20-../S5E08LA4**	2.8	9.3	18.5	56	67	345	370	370	370	370	35	5500	-
7	2.2	51	405	1	58.24	IE4	**BF20-../S4E08MA4**	2.5	8.5	17	51	61	290	340	405	405	405	33	5600	-
7	2.2	51	405	1	58.24	IE5	**BF20-../S5E08LA4**	2.5	8.5	17	51	61	375	405	405	405	405	35	5600	-
7	2.2	46.5	445	0.94	64.08	IE4	**BF20-../S4E08MA4**	2.3	7.8	15.5	46.5	56	320	375	445	445	445	33	5900	-
7	2.2	46.5	445	0.94	64.08	IE5	**BF20-../S5E08LA4**	2.3	7.8	15.5	46.5	56	415	445	445	445	445	35	5900	-
7	2.2	43	485	0.86	69.7	IE4	**BF20-../S4E08MA4**	2.1	7.1	14	43	51	345	410	485	485	485	33	6100	-
7	2.2	43	485	0.86	69.7	IE5	**BF20-../S5E08LA4**	2.1	7.1	14	43	51	450	485	485	485	485	35	6100	-
7	2.2	106	197	2.9	28.23	IE4	**BF30-../S4E08MA4**	5.3	17.5	35	106	127	141	166	197	197	197	43	3800	-
7	2.2	106	197	2.9	28.23	IE5	**BF30-../S5E08LA4**	5.3	17.5	35	106	127	183	197	197	197	197	45	3800	-
7	2.2	96	215	2.6	31.05	IE4	**BF30-../S4E08MA4**	4.8	16	32	96	115	155	183	215	215	215	43	4000	-
7	2.2	96	215	2.6	31.05	IE5	**BF30-../S5E08LA4**	4.8	16	32	96	115	200	215	215	215	215	45	4000	-
7	2.2	85	245	2.3	35	IE4	**BF30-../S4E08MA4**	4.2	14	28.5	85	102	175	205	245	245	245	43	4200	-
7	2.2	85	245	2.3	35	IE5	**BF30-../S5E08LA4**	4.2	14	28.5	85	102	225	245	245	245	245	45	4200	-
7	2.2	77	265	2.1	38.49	IE4	**BF30-../S4E08MA4**	3.8	12.5	25.5	77	93	192	225	265	265	265	43	4400	-
7	2.2	77	265	2.1	38.49	IE5	**BF30-../S5E08LA4**	3.8	12.5	25.5	77	93	250	265	265	265	265	45	4400	-
7	2.2	73	285	2	41.01	IE4	**BF30-../S4E08MA4**	3.6	12	24	73	87	205	240	285	285	285	43	4500	-
7	2.2	73	285	2	41.01	IE5	**BF30-../S5E08LA4**	3.6	12	24	73	87	265	285	285	285	285	45	4500	-
7	2.2	66	315	1.8	45.1	IE4	**BF30-../S4E08MA4**	3.3	11	22	66	79	225	265	315	315	315	43	4700	-
7	2.2	66	315	1.8	45.1	IE5	**BF30-../S5E08LA4**	3.3	11	22	66	79	290	315	315	315	315	45	4700	-
7	2.2	57	365	1.6	52.2	IE4	**BF30-../S4E08MA4**	2.8	9.5	19	57	68	260	305	365	365	365	43	5000	-
7	2.2	57	365	1.6	52.2	IE5	**BF30-../S5E08LA4**	2.8	9.5	19	57	68	335	365	365	365	365	45	5000	-
7	2.2	52	400	1.4	57.41	IE4	**BF30-../S4E08MA4**	2.6	8.7	17	52	62	285	335	400	400	400	43	5200	-
7	2.2	52	400	1.4	57.41	IE5	**BF30-../S5E08LA4**	2.6	8.7	17	52	62	370	400	400	400	400	45	5200	-
7	2.2	49	425	1.3	61.17	IE4	**BF30-../S4E08MA4**	2.4	8.1	16	49	58	305	360	425	425	425	43	5300	-
7	2.2	49	425	1.3	61.17	IE5	**BF30-../S5E08LA4**	2.4	8.1	16	49	58	395	425	425	425	425	45	5300	-
7	2.2	44.5	470	1.2	67.28	IE4	**BF30-../S4E08MA4**	2.2	7.4	14.5	44.5	53	335	395	470	470	470	43	5500	-
7	2.2	44.5	470	1.2	67.28	IE5	**BF30-../S5E08LA4**	2.2	7.4	14.5	44.5	53	435	470	470	470	470	45	5500	-
7	2.2	41.5	500	1.1	72.13	IE4	**BF30-../S4E08MA4**	2	6.9	13.5	41.5	49.5	360	425	500	500	500	43	5700	-
7	2.2	41.5	500	1.1	72.13	IE5	**BF30-../S5E08LA4**	2	6.9	13.5	41.5	49.5	465	500	500	500	500	45	5700	-
7	2.2	37.5	550	1	79.34	IE4	**BF30-../S4E08MA4**	1.8	6.3	12.5	37.5	45	395	465	550	550	550	43	5900	-
7	2.2	37.5	550	1	79.34	IE5	**BF30-../S5E08LA4**	1.8	6.3	12.5	37.5	45	510	550	550	550	550	45	5900	-
7	2.2	34	600	0.94	87.08	IE4	**BF30-../S4E08MA4**	1.7	5.7	11	34	41	435	510	600	600	600	43	6200	-
7	2.2	34	600	0.94	87.08	IE5	**BF30-../S5E08LA4**	1.7	5.7	11	34	41	560	600	600	600	600	45	6200	-
7	2.2	31	670	0.85	95.79	IE4	**BF30-../S4E08MA4**	1.5	5.2	10	31	37.5	475	560	670	670	670	43	6400	-
7	2.2	31	670	0.85	95.79	IE5	**BF30-../S5E08LA4**	1.5	5.2	10	31	37.5	620	670	670	670	670	45	6400	-
7	2.2	65	315	2.8	45.56	IE4	**BF40-../S4E08MA4**	3.2	10.5	21.5	65	79	225	265	315	315	315	53	6800	-
7	2.2	65	315	2.8	45.56	IE5	**BF40-../S5E08LA4**	3.2	10.5	21.5	65	79	295	315	315	315	315	54	6800	-
7	2.2	61	340	2.6	48.92	IE4	**BF40-../S4E08MA4**	3	10	20	61	73	240	285	340	340	340	53	7000	-
7	2.2	61	340	2.6	48.92	IE5	**BF40-../S5E08LA4**	3	10	20	61	73	315	340	340	340	340	54	7000	-
7	2.2	55	375	2.4	53.82	IE4	**BF40-../S4E08MA4**	2.7	9.2	18.5	55	66	265	315	375	375	375	53	7200	-
7	2.2	55	375	2.4	53.82	IE5	**BF40-../S5E08LA4**	2.7	9.2	18.5	55	66	345	375	375	375	375	54	7200	-
7	2.2	48.5	425	2.1	61.25	IE4	**BF40-../S4E08MA4**	2.4	8.1	16	48.5	58	305	360	425	425	425	53	7600	-
7	2.2	48.5	425	2.1	61.25	IE5	**BF40-../S5E08LA4**	2.4	8.1	16	48.5	58	395	425	425	425	425	54	7600	-
7	2.2	44.5	470	1.9	67.38	IE4	**BF40-../S4E08MA4**	2.2	7.4	14.5	44.5	53	335	395	470	470	470	53	8000	-
7	2.2	44.5	470	1.9	67.38	IE5	**BF40-../S5E08LA4**	2.2	7.4	14.5	44.5	53	435	470	470	470	470	54	8000	-
7	2.2	42	495	1.8	71.4	IE4	**BF40-../S4E08MA4**	2.1	7	14	42	50	355	420	495	495	495	53	8100	-
7	2.2	42	495	1.8	71.4	IE5	**BF40-../S5E08LA4**	2.1	7	14	42	50	460	495	495	495	495	54	8100	-
7	2.2	38	540	1.6	78.55	IE4	**BF40-../S4E08MA4**	1.9	6.3	12.5	38	45.5	390	460	540	540	540	53	8500	-
7	2.2	38	540	1.6	78.55	IE5	**BF40-../S5E08LA4**	1.9	6.3	12.5	38	45.5	510	540	540	540	540	54	8500	-
7	2.2	35.5	580	1.5	83.91	IE4	**BF40-../S4E08MA4**	1.7	5.9	11.5	35.5	42.5	415	495	580	580	580	53	8700	-
7	2.2	35.5	580	1.5	83.91	IE5	**BF40-../S5E08LA4**	1.7	5.9	11.5	35.5	42.5	540	580	580	580	580	54	8700	-
7	2.2	32	640	1.4	92.31	IE4	**BF40-../S4E08MA4**	1.6	5.4	10.5	32	38.5	460	540	640	640	640	53	9100	-
7	2.2	32	640	1.4	92.31	IE5	**BF40-../S5E08LA4**	1.6	5.4	10.5	32	38.5	600	640	640	640	640	54	9100	-
7	2.2	29.5	700	1.3	101	IE4	**BF40-../S4E08MA4**	1.4	4.9	9.9	29.5	35.5	500	590	700	700	700	53	9400	-
7	2.2	29.5	700	1.3	101	IE5	**BF40-../S5E08LA4**	1.4	4.9	9.9	29.5	35.5	650	700	700	700	700	54	9400	-
7	2.2	27	770	1.2	111.1	IE4	**BF40-../S4E08MA4**	1.3	4.5	9	27	32	550	650	770	770	770	53	9800	-
7	2.2	27	770	1.2	111.1	IE5	**BF40-../S5E08LA4**	1.3	4.5	9	27	32	720	770	770	770	770	54	9800	-
7	2.2	24	870	1	124.5	IE4	**BF40-../S4E08MA4**	1.2	4	8	24	28.5	620	730	870	870	870	53	10200	-
7	2.2	24	870	1	124.5	IE5	**BF40-../S5E08LA4**	1.2	4	8	24	28.5	800	870	870	870	870	54	10200	-
7	2.2	21.5	950	0.94	137	IE4	**BF40-../S4E08MA4**	1	3.6	7.2	21.5	26	680	800	950	950	950	53	10600	-
7	2.2	21.5	950	0.94	137	IE5	**BF40-../S5E08LA4**	1	3.6	7.2	21.5	26	890	950	950	950	950	54	10600	-
7	2.2	21	980	0.91	141.4	IE4	**BF40Z-../S4E08MA4**	1	3.5	7	21	25	700	830	980	980	980	56	10600	-

MN = 7 Nm (PN = 2.2 kW)



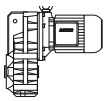
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
7	2.2	21	980	0.91	141.4	IE5	**BF40Z-../S5E08LA4**	1	3.5	7	21	25	910	980	980	980	980	58	10600	-
7	2.2	19	1080	0.83	155.6	IE4	**BF40Z-../S4E08MA4**	0.95	3.2	6.4	19	23	770	910	1080	1080	1080	56	10600	-
7	2.2	19	1080	0.83	155.6	IE5	**BF40Z-../S5E08LA4**	0.95	3.2	6.4	19	23	1010	1080	1080	1080	1080	58	10600	-
7	2.2	47	445	2.9	63.59	IE4	**BF50-../S4E08MA4**	2.3	7.8	15.5	47	56	315	375	445	445	445	81	9800	-
7	2.2	47	445	2.9	63.59	IE5	**BF50-../S5E08LA4**	2.3	7.8	15.5	47	56	410	445	445	445	445	83	9800	-
7	2.2	41	500	2.6	72.72	IE4	**BF50-../S4E08MA4**	2	6.8	13.5	41	49.5	360	425	500	500	500	81	10700	-
7	2.2	41	500	2.6	72.72	IE5	**BF50-../S5E08LA4**	2	6.8	13.5	41	49.5	470	500	500	500	500	83	10700	-
7	2.2	36.5	560	2.3	81.33	IE4	**BF50-../S4E08MA4**	1.8	6.1	12	36.5	44	405	475	560	560	560	81	11300	-
7	2.2	36.5	560	2.3	81.33	IE5	**BF50-../S5E08LA4**	1.8	6.1	12	36.5	44	520	560	560	560	560	83	11300	-
7	2.2	33	630	2.1	90.24	IE4	**BF50-../S4E08MA4**	1.6	5.5	11	33	39.5	450	530	630	630	630	81	11800	-
7	2.2	33	630	2.1	90.24	IE5	**BF50-../S5E08LA4**	1.6	5.5	11	33	39.5	580	630	630	630	630	83	11800	-
7	2.2	29.5	700	1.8	100.9	IE4	**BF50-../S4E08MA4**	1.4	4.9	9.9	29.5	35.5	500	590	700	700	700	81	12300	-
7	2.2	29.5	700	1.8	100.9	IE5	**BF50-../S5E08LA4**	1.4	4.9	9.9	29.5	35.5	650	700	700	700	700	83	12300	-
7	2.2	26	790	1.6	114	IE4	**BF50-../S4E08MA4**	1.3	4.3	8.7	26	31.5	570	670	790	790	790	81	12900	-
7	2.2	26	790	1.6	114	IE5	**BF50-../S5E08LA4**	1.3	4.3	8.7	26	31.5	740	790	790	790	790	83	12900	-
7	2.2	23.5	890	1.5	127.5	IE4	**BF50-../S4E08MA4**	1.1	3.9	7.8	23.5	28	630	750	890	890	890	81	13600	-
7	2.2	23.5	890	1.5	127.5	IE5	**BF50-../S5E08LA4**	1.1	3.9	7.8	23.5	28	820	890	890	890	890	83	13600	-
7	2.2	21.5	960	1.3	138.1	IE4	**BF50Z-../S4E08MA4**	1	3.6	7.2	21.5	26	690	810	960	960	960	86	13600	-
7	2.2	21.5	960	1.3	138.1	IE5	**BF50Z-../S5E08LA4**	1	3.6	7.2	21.5	26	890	960	960	960	960	88	13600	-
7	2.2	19	1080	1.2	154.5	IE4	**BF50Z-../S4E08MA4**	0.95	3.2	6.4	19	23	770	910	1080	1080	1080	86	13600	-
7	2.2	19	1080	1.2	154.5	IE5	**BF50Z-../S5E08LA4**	0.95	3.2	6.4	19	23	1000	1080	1080	1080	1080	88	13600	-
7	2.2	16	1280	1	183.5	IE4	**BF50Z-../S4E08MA4**	0.8	2.7	5.4	16	19.5	910	1080	1280	1280	1280	86	13600	-
7	2.2	16	1280	1	183.5	IE5	**BF50Z-../S5E08LA4**	0.8	2.7	5.4	16	19.5	1190	1280	1280	1280	1280	88	13600	-
7	2.2	14.5	1430	0.91	205.2	IE4	**BF50Z-../S4E08MA4**	0.7	2.4	4.8	14.5	17.5	1020	1210	1430	1430	1430	86	13600	-
7	2.2	14.5	1430	0.91	205.2	IE5	**BF50Z-../S5E08LA4**	0.7	2.4	4.8	14.5	17.5	1330	1430	1430	1430	1430	88	13600	-
7	2.2	21	980	2.3	140.8	IE4	**BF60Z-../S4E08MA4**	1	3.5	7.1	21	25.5	700	830	980	980	980	130	15300	43300
7	2.2	21	980	2.3	140.8	IE5	**BF60Z-../S5E08LA4**	1	3.5	7.1	21	25.5	910	980	980	980	980	131	15300	43300
7	2.2	17.5	1180	1.9	169.2	IE4	**BF60Z-../S4E08MA4**	0.85	2.9	5.9	17.5	21	840	990	1180	1180	1180	130	15300	43300
7	2.2	17.5	1180	1.9	169.2	IE5	**BF60Z-../S5E08LA4**	0.85	2.9	5.9	17.5	21	1090	1180	1180	1180	1180	131	15300	43300
7	2.2	15.5	1310	1.8	187.7	IE4	**BF60Z-../S4E08MA4**	0.75	2.6	5.3	15.5	19	930	1100	1310	1310	1310	130	15300	43300
7	2.2	15.5	1310	1.8	187.7	IE5	**BF60Z-../S5E08LA4**	0.75	2.6	5.3	15.5	19	1220	1310	1310	1310	1310	131	15300	43300
7	2.2	13.5	1540	1.5	221.4	IE4	**BF60Z-../S4E08MA4**	0.65	2.2	4.5	13.5	16	1100	1300	1540	1540	1540	130	15300	43300
7	2.2	13.5	1540	1.5	221.4	IE5	**BF60Z-../S5E08LA4**	0.65	2.2	4.5	13.5	16	1430	1540	1540	1540	1540	131	15300	43300
7	2.2	12	1710	1.3	245.6	IE4	**BF60Z-../S4E08MA4**	0.6	2	4	12	14.5	1220	1440	1710	1710	1710	130	15300	43300
7	2.2	12	1710	1.3	245.6	IE5	**BF60Z-../S5E08LA4**	0.6	2	4	12	14.5	1590	1710	1710	1710	1710	131	15300	43300
7	2.2	10	2050	1.1	293.4	IE4	**BF60Z-../S4E08MA4**	0.5	1.7	3.4	10	12	1460	1730	2050	2050	2050	130	15300	43300
7	2.2	10	2050	1.1	293.4	IE5	**BF60Z-../S5E08LA4**	0.5	1.7	3.4	10	12	1900	2050	2050	2050	2050	131	15300	43300
7	2.2	9.2	2250	1	325.6	IE4	**BF60Z-../S4E08MA4**	0.46	1.5	3	9.2	11	1620	1920	2250	2250	2250	130	15300	43300
7	2.2	9.2	2250	1	325.6	IE5	**BF60Z-../S5E08LA4**	0.46	1.5	3	9.2	11	2100	2250	2250	2250	2250	131	15300	43300
7	2.2	7.8	2650	0.86	380	IE4	**BF60Z-../S4E08MA4**	0.39	1.3	2.6	7.8	9.4	1900	2200	2650	2650	2650	130	15300	43300
7	2.2	7.8	2650	0.86	380	IE5	**BF60Z-../S5E08LA4**	0.39	1.3	2.6	7.8	9.4	2450	2650	2650	2650	2650	131	15300	43300
7	2.2	11.5	1810	2.9	258.7	IE4	**BF70Z-../S4E08MA4**	0.55	1.9	3.8	11.5	13.5	1290	1520	1810	1810	1810	218	16100	47700
7	2.2	11.5	1810	2.9	258.7	IE5	**BF70Z-../S5E08LA4**	0.55	1.9	3.8	11.5	13.5	1680	1810	1810	1810	1810	220	16100	47700
7	2.2	9.9	2100	2.5	301.8	IE4	**BF70Z-../S4E08MA4**	0.49	1.6	3.3	9.9	11.5	1500	1780	2100	2100	2100	218	16100	47700
7	2.2	9.9	2100	2.5	301.8	IE5	**BF70Z-../S5E08LA4**	0.49	1.6	3.3	9.9	11.5	1960	2100	2100	2100	2100	220	16100	47700
7	2.2	8.7	2350	2.2	341.7	IE4	**BF70Z-../S4E08MA4**	0.43	1.4	2.9	8.7	10.5	1700	2000	2350	2350	2350	218	16100	47700
7	2.2	8.7	2350	2.2	341.7	IE5	**BF70Z-../S5E08LA4**	0.43	1.4	2.9	8.7	10.5	2200	2350	2350	2350	2350	220	16100	47700
7	2.2	7.5	2750	1.9	398.7	IE4	**BF70Z-../S4E08MA4**	0.37	1.2	2.5	7.5	9	1990	2350	2750	2750	2750	218	16100	47700
7	2.2	7.5	2750	1.9	398.7	IE5	**BF70Z-../S5E08LA4**	0.37	1.2	2.5	7.5	9	2550	2750	2750	2750	2750	220	16100	47700
7	2.2	6.8	3050	1.7	439.2	IE4	**BF70Z-../S4E08MA4**	0.34	1.1	2.2	6.8	8.1	2150	2550	3050	3050	3050	218	16100	47700
7	2.2	6.8	3050	1.7	439.2	IE5	**BF70Z-../S5E08LA4**	0.34	1.1	2.2	6.8	8.1	2850	3050	3050	3050	3050	220	16100	47700
7	2.2	5.8	3550	1.4	512.4	IE4	**BF70Z-../S4E08MA4**	0.29	0.95	1.9	5.8	7	2550	3000	3550	3550	3550	218	16100	47700
7	2.2	5.8	3550	1.4	512.4	IE5	**BF70Z-../S5E08LA4**	0.29	0.95	1.9	5.8	7	3300	3550	3550	3550	3550	220	16100	47700
7	2.2	5.7	3650	1.6	524.1	IE4	**BF70G20-../S4E08MA4**	0.28	0.95	1.9	5.7	6.8	2600	3050	3650	3650	3650	216	16100	47700
7	2.2	5.7	3650	1.6	524.1	IE5	**BF70G20-../S5E08LA4**	0.28	0.95	1.9	5.7	6.8	3400	3650	3650	3650	3650	217	16100	47700
7	2.2	5.1	4000	1.4	577.5	IE4	**BF70G20-../S4E08MA4**	0.25	0.85	1.7	5.1	6.2	2850	3400	4000	4000	4000	216	16100	47700
7	2.2	5.1	4000	1.4	577.5	IE5	**BF70G20-../S5E08LA4**	0.25	0.85	1.7	5.1	6.2	3750	4000	4000	4000	4000	217	16100	47700
7	2.2	4.4	4700	1.2	673.6	IE4	**BF70G20-../S4E08MA4**	0.22	0.7	1.4	4.4	5.3	3350	3950	4700	4700	4700	216	16100	47700
7	2.2	4.4	4700	1.2	673.6	IE5	**BF70G20-../S5E08LA4**	0.22	0.7	1.4	4.4	5.3	4350	4700	4700	4700	4700	217	16100	47700
7	2.2	3.4	6100	0.93	872.1	IE4	**BF70G20-../S4E08MA4**	0.17	0.55	1.1	3.4	4.1	4350	5100	6100	6100	6100	216	16100	47700
7	2.2	3.4	6100	0.93	872.1	IE5	**BF70G20-../S5E08LA4**	0.17	0.55	1.1	3.4	4.1	5600	6100	6100	6100	6100	217	16100	47700
7	2.2	2.9	7100	0.8	1017	IE4	**BF70G20-../S4E08MA4**	0.14	0.49	0.95	2.9	3.5	5000	6000	7100	7100	7100	216	16100	47700
7	2.2	2.9	7100	0.8	1017	IE5	**BF70G20-../S5E08LA4**	0.14	0.49	0.95	2.9	3.5	6600	7100	7100	7100	7100	217	16100	47700
7	2.2	5.8	3550	2.9	511.2	IE4	**BF80Z-../S4E08MA4**	0.29	0.95	1.9	5.8	7	2550	3000	3550	3550	3550	334	39600	75000
7	2.2	5.8	3550	2.9	511.2	IE5	**BF80Z-../S5E08LA4**	0.29	0.95	1.9	5.8	7	3300	3550	3550	3550	3550	336	39600	75000
7	2.2	5.1	4050	2.6	583.4	IE4	**BF80Z-../S4E08MA4**	0.25	0.85	1.7	5.1	6.1	2900	3400	4050	4050	4050	334	39600	75000
7	2.2	5.1	4050	2.6	583.4	IE5	**BF80Z-../S5E08LA4**	0.25	0.85	1.7	5.1	6.1	3750	4050	4050	4050	4050	336	39600	75000
7	2.2	4.5	4600	2.3	662.1	IE4	**BF80Z-../S4E08MA4**	0.22	0.75	1.5	4.5	5.4	3300	3900	4600	4600	4600	334	39600	75000
7	2.2	4.5	4600	2.3	662.1	IE5	**BF80Z-../S5E08LA4**	0.22	0.75	1.5	4.5	5.4	4300	4600	4600	4600	4600	336	39600	75000
7	2.2	3.8	5300	1.9	770.6	IE4	**BF80Z-../S4E08MA4**	0.19	0.6	1.2	3.8	4.6	3850	4500	5300	5300	5300	334	39600	75000
7	2.2	3.8	5300	1.9	770.6	IE5	**BF80Z-../S5E08LA4**	0.19	0.6	1.2	3.8	4.6	5000	5300	5300	5300	5300	336	39600	75000
7	2.2	3.4	6100	1.7	874.6	IE4	**BF80Z-../S4E08MA4**	0.17	0.55	1.1	3.4	4.1	4350	5100	6100	6100	6100	334	39600	75000
7	2.2	3.4	6100	1.7	874.6	IE5	**BF80Z-../S5E08LA4**	0.17	0.55	1.1	3.4	4.1	5600	6100	6100	6100	6100	336	39600	75000
7	2.2	3	6900	1.5	990.4	IE4	**BF80Z-../S4E08MA4**	0.15	0.5	1	3	3.6	4950	5800	6900	6900	6900	334	39600	75000
7	2.2	3	6900	1.5	990.4	IE5	**BF80Z-../S5E08LA4**	0.15	0.5	1	3	3.6	6400	6900	6900	6900	6900	336	39600	75000
7	2.2	2.6	7800	1.3	1124	IE4	**BF80Z-../S4E08MA4**	0.13	0.44	0.85	2.6	3.2	5600	6600	7800	7800	7800	334	39600	75000
7	2.2	2.6	7800	1.3	1124	IE5	**BF80Z-../S5E08LA4**	0.13	0.44	0.85	2.6	3.2	7300	7800	7800	7800	7800	336	39600	75000
7	2.2	2.2	9300	1.1	1329	IE4	**BF80G40-../S4E08MA4**	0.11	0.37	0.75	2.2	2.7	6600	7800	9300	9300	9300	340	39600	75000

MN = 7 Nm (PN = 2.2 kW)



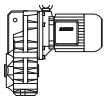
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
7	2.2	2.2	9300	1.1	1329	IE5	**BF80G40-../S5E08LA4**	0.11	0.37	0.75	2.2	2.7	8600	9300	9300	9300	9300	341	39600	75000
7	2.2	2	10400	1	1491	IE4	**BF80G40-../S4E08MA4**	0.1	0.33	0.65	2	2.4	7400	8700	10400	10400	10400	340	39600	75000
7	2.2	2	10400	1	1491	IE5	**BF80G40-../S5E08LA4**	0.1	0.33	0.65	2	2.4	9600	10400	10400	10400	10400	341	39600	75000
7	2.2	1.7	11800	0.89	1693	IE4	**BF80G40-../S4E08MA4**	0.085	0.29	0.55	1.7	2.1	8400	9900	11800	11800	11800	340	39600	75000
7	2.2	1.7	11800	0.89	1693	IE5	**BF80G40-../S5E08LA4**	0.085	0.29	0.55	1.7	2.1	11000	11800	11800	11800	11800	341	39600	75000
7	2.2	3	6800	2.7	976.1	IE4	**BF90G50-../S4E08MA4**	0.15	0.5	1	3	3.6	4850	5700	6800	6800	6800	610	42800	120000
7	2.2	3	6800	2.7	976.1	IE5	**BF90G50-../S5E08LA4**	0.15	0.5	1	3	3.6	6300	6800	6800	6800	6800	612	42800	120000
7	2.2	2.8	7300	2.5	1043	IE4	**BF90G50-../S4E08MA4**	0.14	0.47	0.95	2.8	3.4	5200	6100	7300	7300	7300	610	42800	120000
7	2.2	2.8	7300	2.5	1043	IE5	**BF90G50-../S5E08LA4**	0.14	0.47	0.95	2.8	3.4	6700	7300	7300	7300	7300	612	42800	120000
7	2.2	2.4	8400	2.2	1204	IE4	**BF90G50-../S4E08MA4**	0.12	0.41	0.8	2.4	2.9	6000	7100	8400	8400	8400	610	42800	120000
7	2.2	2.4	8400	2.2	1204	IE5	**BF90G50-../S5E08LA4**	0.12	0.41	0.8	2.4	2.9	7800	8400	8400	8400	8400	612	42800	120000
7	2.2	2	10100	1.8	1444	IE4	**BF90G50-../S4E08MA4**	0.1	0.34	0.65	2	2.4	7200	8500	10100	10100	10100	610	42800	120000
7	2.2	2	10100	1.8	1444	IE5	**BF90G50-../S5E08LA4**	0.1	0.34	0.65	2	2.4	9300	10100	10100	10100	10100	612	42800	120000
7	2.2	1.7	11700	1.6	1678	IE4	**BF90G50-../S4E08MA4**	0.085	0.29	0.55	1.7	2.1	8300	9900	11700	11700	11700	610	42800	120000
7	2.2	1.7	11700	1.6	1678	IE5	**BF90G50-../S5E08LA4**	0.085	0.29	0.55	1.7	2.1	10900	11700	11700	11700	11700	612	42800	120000
7	2.2	1.6	13000	1.4	1867	IE4	**BF90G50-../S4E08MA4**	0.08	0.26	0.5	1.6	1.9	9300	11000	13000	13000	13000	610	42800	120000
7	2.2	1.6	13000	1.4	1867	IE5	**BF90G50-../S5E08LA4**	0.08	0.26	0.5	1.6	1.9	12100	13000	13000	13000	13000	612	42800	120000
7	2.2	1.3	15000	1.2	2154	IE4	**BF90G50-../S4E08MA4**	0.065	0.23	0.46	1.3	1.6	10700	12700	15000	15000	15000	610	42800	120000
7	2.2	1.3	15000	1.2	2154	IE5	**BF90G50-../S5E08LA4**	0.065	0.23	0.46	1.3	1.6	14000	15000	15000	15000	15000	612	42800	120000
7	2.2	1.1	18500	1	2656	IE4	**BF90G50-../S4E08MA4**	0.055	0.18	0.37	1.1	1.3	13200	15600	18500	18500	18500	610	42800	120000
7	2.2	1.1	18500	1	2656	IE5	**BF90G50-../S5E08LA4**	0.055	0.18	0.37	1.1	1.3	17200	18500	18500	18500	18500	612	42800	120000
7	2.2	1	20500	0.9	2952	IE4	**BF90G50-../S4E08MA4**	0.05	0.16	0.33	1	1.2	14700	17400	20500	20500	20500	610	42800	120000
7	2.2	1	20500	0.9	2952	IE5	**BF90G50-../S5E08LA4**	0.05	0.16	0.33	1	1.2	19100	20500	20500	20500	20500	612	42800	120000
7	2.2	0.9	23000	0.8	3286	IE4	**BF90G50-../S4E08MA4**	0.045	0.15	0.3	0.9	1	16400	19300	23000	23000	23000	610	42800	120000
7	2.2	0.9	23000	0.8	3286	IE5	**BF90G50-../S5E08LA4**	0.045	0.15	0.3	0.9	1	21000	23000	23000	23000	23000	612	42800	120000

MN = 10 Nm (PN = 3.1 kW)



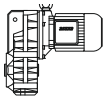
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
10	3.1	520	57	1.1	5.72	IE3	**BF06-../SPE08LA4**	26	87	174	520	620	37	45.5	57	57	57	17	1600	-
10	3.1	390	76	0.89	7.66	IE3	**BF06-../SPE08LA4**	19.5	65	130	390	465	49.5	61	76	76	76	17	1800	-
10	3.1	530	56	2.5	5.6	IE3	**BF10-../SPE08LA4**	26.5	89	178	530	640	36	44.5	56	56	56	28	1950	-
10	3.1	395	75	2	7.58	IE3	**BF10-../SPE08LA4**	19.5	65	131	395	470	49	60	75	75	75	28	2200	-
10	3.1	305	96	1.8	9.69	IE3	**BF10-../SPE08LA4**	15	51	103	305	370	62	77	96	96	96	28	2350	-
10	3.1	250	118	1.5	11.84	IE3	**BF10-../SPE08LA4**	12.5	42	84	250	300	76	94	118	118	118	28	2500	-
10	3.1	199	150	1.2	15.04	IE3	**BF10-../SPE08LA4**	9.9	33	66	199	235	97	120	150	150	150	28	2800	-
10	3.1	164	182	1.3	18.23	IE3	**BF10-../SPE08LA4**	8.2	27	54	164	197	118	145	182	182	182	28	2900	-
10	3.1	149	200	1.2	20.05	IE3	**BF10-../SPE08LA4**	7.4	24.5	49.5	149	179	130	160	200	200	200	28	3000	-
10	3.1	128	230	1	23.28	IE3	**BF10-../SPE08LA4**	6.4	21	42.5	128	154	151	186	230	230	230	28	3200	-
10	3.1	117	255	0.94	25.6	IE3	**BF10-../SPE08LA4**	5.8	19.5	39	117	140	166	200	255	255	255	28	3350	-
10	3.1	105	280	0.84	28.47	IE3	**BF10-../SPE08LA4**	5.2	17.5	35	105	126	185	225	280	280	280	28	3450	-
10	3.1	375	80	2.8	8	IE3	**BF20-../SPE08LA4**	18.5	62	125	375	450	52	64	80	80	80	35	2850	-
10	3.1	285	105	2.4	10.51	IE3	**BF20-../SPE08LA4**	14	47.5	95	285	340	68	84	105	105	105	35	3100	-
10	3.1	225	131	2.2	13.18	IE3	**BF20-../SPE08LA4**	11	37.5	75	225	270	85	105	131	131	131	35	3300	-
10	3.1	193	155	2	15.54	IE3	**BF20-../SPE08LA4**	9.6	32	64	193	230	101	124	155	155	155	35	3450	-
10	3.1	178	167	2.1	16.77	IE3	**BF20-../SPE08LA4**	8.9	29.5	59	178	210	109	134	167	167	167	35	3500	-
10	3.1	162	184	2	18.45	IE3	**BF20-../SPE08LA4**	8.1	27	54	162	195	119	147	184	184	184	35	3600	-
10	3.1	136	220	1.8	22.04	IE3	**BF20-../SPE08LA4**	6.8	22.5	45	136	163	143	176	220	220	220	35	3800	-
10	3.1	123	240	1.6	24.25	IE3	**BF20-../SPE08LA4**	6.1	20.5	41	123	148	157	194	240	240	240	35	3950	-
10	3.1	108	275	1.5	27.62	IE3	**BF20-../SPE08LA4**	5.4	18	36	108	130	179	220	275	275	275	35	4150	-
10	3.1	98	300	1.4	30.4	IE3	**BF20-../SPE08LA4**	4.9	16	32.5	98	118	197	240	300	300	300	35	4400	-
10	3.1	92	325	1.3	32.58	IE3	**BF20-../SPE08LA4**	4.6	15	30.5	92	110	210	260	325	325	325	35	4450	-
10	3.1	83	355	1.2	35.85	IE3	**BF20-../SPE08LA4**	4.1	13.5	27.5	83	100	230	285	355	355	355	35	4650	-
10	3.1	71	415	1	41.72	IE3	**BF20-../SPE08LA4**	3.5	11.5	23.5	71	86	270	330	415	415	415	35	4950	-
10	3.1	65	455	0.92	45.9	IE3	**BF20-../SPE08LA4**	3.2	10.5	21.5	65	78	295	365	455	455	455	35	5100	-
10	3.1	61	485	0.86	48.56	IE3	**BF20-../SPE08LA4**	3	10	20.5	61	74	315	385	485	485	485	35	5200	-
10	3.1	230	129	2.8	12.91	IE3	**BF30-../SPE08LA4**	11.5	38.5	77	230	275	83	103	129	129	129	45	3050	-
10	3.1	187	160	2.5	16	IE3	**BF30-../SPE08LA4**	9.3	31	62	187	225	104	128	160	160	160	45	3250	-
10	3.1	169	176	2.7	17.65	IE3	**BF30-../SPE08LA4**	8.4	28	56	169	200	114	141	176	176	176	45	3300	-
10	3.1	154	194	2.6	19.41	IE3	**BF30-../SPE08LA4**	7.7	25.5	51	154	185	126	155	194	194	194	45	3400	-
10	3.1	137	215	2.4	21.85	IE3	**BF30-../SPE08LA4**	6.8	22.5	45.5	137	164	142	174	215	215	215	45	3500	-
10	3.1	124	240	2.3	24.03	IE3	**BF30-../SPE08LA4**	6.2	20.5	41.5	124	149	156	192	240	240	240	45	3600	-
10	3.1	106	280	2	28.23	IE3	**BF30-../SPE08LA4**	5.3	17.5	35	106	127	183	225	280	280	280	45	3800	-
10	3.1	96	310	1.8	31.05	IE3	**BF30-../SPE08LA4**	4.8	16	32	96	115	200	245	310	310	310	45	4000	-
10	3.1	85	350	1.6	35	IE3	**BF30-../SPE08LA4**	4.2	14	28.5	85	102	225	280	350	350	350	45	4200	-
10	3.1	77	380	1.5	38.49	IE3	**BF30-../SPE08LA4**	3.8	12.5	25.5	77	93	250	305	380	380	380	45	4400	-
10	3.1	73	410	1.4	41.01	IE3	**BF30-../SPE08LA4**	3.6	12	24	73	87	265	325	410	410	410	45	4500	-
10	3.1	66	450	1.3	45.1	IE3	**BF30-../SPE08LA4**	3.3	11	22	66	79	290	360	450	450	450	45	4700	-
10	3.1	57	520	1.1	52.2	IE3	**BF30-../SPE08LA4**	2.8	9.5	19	57	68	335	415	520	520	520	45	5000	-
10	3.1	52	570	0.99	57.41	IE3	**BF30-../SPE08LA4**	2.6	8.7	17	52	62	370	455	570	570	570	45	5200	-
10	3.1	49	610	0.93	61.17	IE3	**BF30-../SPE08LA4**	2.4	8.1	16	49	58	395	485	610	610	610	45	5300	-

MN = 10 Nm (PN = 3.1 kW)



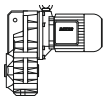
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
10	3.1	44.5	670	0.85	67.28	IE3	**BF30-../SPE08LA4**	2.2	7.4	14.5	44.5	53	435	530	670	670	670	45	5500	-
10	3.1	111	265	2.9	26.86	IE3	**BF40-../SPE08LA4**	5.5	18.5	37	111	134	174	210	265	265	265	54	5600	-
10	3.1	101	295	2.7	29.55	IE3	**BF40-../SPE08LA4**	5	16.5	33.5	101	121	192	235	295	295	295	54	5800	-
10	3.1	87	340	2.5	34.21	IE3	**BF40-../SPE08LA4**	4.3	14.5	29	87	105	220	270	340	340	340	54	6000	-
10	3.1	79	375	2.4	37.64	IE3	**BF40-../SPE08LA4**	3.9	13	26.5	79	95	240	300	375	375	375	54	6200	-
10	3.1	72	410	2.2	41.42	IE3	**BF40-../SPE08LA4**	3.6	12	24	72	86	265	330	410	410	410	54	6500	-
10	3.1	65	455	2	45.56	IE3	**BF40-../SPE08LA4**	3.2	10.5	21.5	65	79	295	360	455	455	455	54	6800	-
10	3.1	61	485	1.8	48.92	IE3	**BF40-../SPE08LA4**	3	10	20	61	73	315	390	485	485	485	54	7000	-
10	3.1	55	530	1.7	53.82	IE3	**BF40-../SPE08LA4**	2.7	9.2	18.5	55	66	345	430	530	530	530	54	7200	-
10	3.1	48.5	610	1.5	61.25	IE3	**BF40-../SPE08LA4**	2.4	8.1	16	48.5	58	395	490	610	610	610	54	7600	-
10	3.1	44.5	670	1.3	67.38	IE3	**BF40-../SPE08LA4**	2.2	7.4	14.5	44.5	53	435	530	670	670	670	54	8000	-
10	3.1	42	710	1.3	71.4	IE3	**BF40-../SPE08LA4**	2.1	7	14	42	50	460	570	710	710	710	54	8100	-
10	3.1	38	780	1.1	78.55	IE3	**BF40-../SPE08LA4**	1.9	6.3	12.5	38	45.5	510	620	780	780	780	54	8500	-
10	3.1	35.5	830	1.1	83.91	IE3	**BF40-../SPE08LA4**	1.7	5.9	11.5	35.5	42.5	540	670	830	830	830	54	8700	-
10	3.1	32	920	0.97	92.31	IE3	**BF40-../SPE08LA4**	1.6	5.4	10.5	32	38.5	600	730	920	920	920	54	9100	-
10	3.1	29.5	1010	0.89	101	IE3	**BF40-../SPE08LA4**	1.4	4.9	9.9	29.5	35.5	650	800	1010	1010	1010	54	9400	-
10	3.1	27	1110	0.81	111.1	IE3	**BF40-../SPE08LA4**	1.3	4.5	9	27	32	720	880	1110	1110	1110	54	9800	-
10	3.1	63	470	2.8	47.14	IE3	**BF50-../SPE08LA4**	3.1	10.5	21	63	76	305	375	470	470	470	83	8900	-
10	3.1	52	560	2.3	56.86	IE3	**BF50-../SPE08LA4**	2.6	8.7	17.5	52	63	365	450	560	560	560	83	9300	-
10	3.1	47	630	2	63.59	IE3	**BF50-../SPE08LA4**	2.3	7.8	15.5	47	56	410	500	630	630	630	83	9800	-
10	3.1	41	720	1.8	72.72	IE3	**BF50-../SPE08LA4**	2	6.8	13.5	41	49.5	470	580	720	720	720	83	10700	-
10	3.1	36.5	810	1.6	81.33	IE3	**BF50-../SPE08LA4**	1.8	6.1	12	36.5	44	520	650	810	810	810	83	11300	-
10	3.1	33	900	1.4	90.24	IE3	**BF50-../SPE08LA4**	1.6	5.5	11	33	39.5	580	720	900	900	900	83	11800	-
10	3.1	29.5	1000	1.3	100.9	IE3	**BF50-../SPE08LA4**	1.4	4.9	9.9	29.5	35.5	650	800	1000	1000	1000	83	12300	-
10	3.1	26	1140	1.1	114	IE3	**BF50-../SPE08LA4**	1.3	4.3	8.7	26	31.5	740	910	1140	1140	1140	83	12900	-
10	3.1	23.5	1270	1	127.5	IE3	**BF50-../SPE08LA4**	1.1	3.9	7.8	23.5	28	820	1020	1270	1270	1270	83	13600	-
10	3.1	21.5	1380	0.94	138.1	IE3	**BF50Z-../SPE08LA4**	1	3.6	7.2	21.5	26	890	1100	1380	1380	1380	88	13600	-
10	3.1	19	1540	0.84	154.5	IE3	**BF50Z-../SPE08LA4**	0.95	3.2	6.4	19	23	1000	1230	1540	1540	1540	88	13600	-
10	3.1	21	1400	1.6	140.8	IE3	**BF60Z-../SPE08LA4**	1	3.5	7.1	21	25.5	910	1120	1400	1400	1400	131	15300	43300
10	3.1	17.5	1690	1.4	169.2	IE3	**BF60Z-../SPE08LA4**	0.85	2.9	5.9	17.5	21	1090	1350	1690	1690	1690	131	15300	43300
10	3.1	15.5	1870	1.2	187.7	IE3	**BF60Z-../SPE08LA4**	0.75	2.6	5.3	15.5	19	1220	1500	1870	1870	1870	131	15300	43300
10	3.1	13.5	2200	1	221.4	IE3	**BF60Z-../SPE08LA4**	0.65	2.2	4.5	13.5	16	1430	1770	2200	2200	2200	131	15300	43300
10	3.1	12	2450	0.94	245.6	IE3	**BF60Z-../SPE08LA4**	0.6	2	4	12	14.5	1590	1960	2450	2450	2450	131	15300	43300
10	3.1	16.5	1790	2.9	179.7	IE3	**BF70Z-../SPE08LA4**	0.8	2.7	5.5	16.5	20	1160	1430	1790	1790	1790	220	16100	47700
10	3.1	15	1990	2.6	199.7	IE3	**BF70Z-../SPE08LA4**	0.75	2.5	5	15	18	1290	1590	1990	1990	1990	220	16100	47700
10	3.1	12.5	2300	2.2	233	IE3	**BF70Z-../SPE08LA4**	0.6	2.1	4.2	12.5	15	1510	1860	2300	2300	2300	220	16100	47700
10	3.1	11.5	2550	2	258.7	IE3	**BF70Z-../SPE08LA4**	0.55	1.9	3.8	11.5	13.5	1680	2050	2550	2550	2550	220	16100	47700
10	3.1	9.9	3000	1.7	301.8	IE3	**BF70Z-../SPE08LA4**	0.49	1.6	3.3	9.9	11.5	1960	2400	3000	3000	3000	220	16100	47700
10	3.1	8.7	3400	1.5	341.7	IE3	**BF70Z-../SPE08LA4**	0.43	1.4	2.9	8.7	10.5	2200	2700	3400	3400	3400	220	16100	47700
10	3.1	7.5	3950	1.3	398.7	IE3	**BF70Z-../SPE08LA4**	0.37	1.2	2.5	7.5	9	2550	3150	3950	3950	3950	220	16100	47700
10	3.1	6.8	4350	1.2	439.2	IE3	**BF70Z-../SPE08LA4**	0.34	1.1	2.2	6.8	8.1	2850	3500	4350	4350	4350	220	16100	47700
10	3.1	5.8	5100	1	512.4	IE3	**BF70Z-../SPE08LA4**	0.29	0.95	1.9	5.8	7	3300	4050	5100	5100	5100	220	16100	47700
10	3.1	5.7	5200	1.1	524.1	IE3	**BF70G20-../SPE08LA4**	0.28	0.95	1.9	5.7	6.8	3400	4150	5200	5200	5200	217	16100	47700
10	3.1	5.1	5700	0.99	577.5	IE3	**BF70G20-../SPE08LA4**	0.25	0.85	1.7	5.1	6.2	3750	4600	5700	5700	5700	217	16100	47700
10	3.1	4.4	6700	0.85	673.6	IE3	**BF70G20-../SPE08LA4**	0.22	0.7	1.4	4.4	5.3	4350	5300	6700	6700	6700	217	16100	47700
10	3.1	8.6	3450	3	347.3	IE3	**BF80Z-../SPE08LA4**	0.43	1.4	2.8	8.6	10	2250	2750	3450	3450	3450	336	39600	75000
10	3.1	7.6	3900	2.7	394.2	IE3	**BF80Z-../SPE08LA4**	0.38	1.2	2.5	7.6	9.1	2550	3150	3900	3900	3900	336	39600	75000
10	3.1	6.6	4500	2.3	450.4	IE3	**BF80Z-../SPE08LA4**	0.33	1.1	2.2	6.6	7.9	2900	3600	4500	4500	4500	336	39600	75000
10	3.1	5.8	5100	2.1	511.2	IE3	**BF80Z-../SPE08LA4**	0.29	0.95	1.9	5.8	7	3300	4050	5100	5100	5100	336	39600	75000
10	3.1	5.1	5800	1.8	583.4	IE3	**BF80Z-../SPE08LA4**	0.25	0.85	1.7	5.1	6.1	3750	4650	5800	5800	5800	336	39600	75000
10	3.1	4.5	6600	1.6	662.1	IE3	**BF80Z-../SPE08LA4**	0.22	0.75	1.5	4.5	5.4	4300	5200	6600	6600	6600	336	39600	75000
10	3.1	3.8	7700	1.4	770.6	IE3	**BF80Z-../SPE08LA4**	0.19	0.6	1.2	3.8	4.6	5000	6100	7700	7700	7700	336	39600	75000
10	3.1	3.4	8700	1.2	874.6	IE3	**BF80Z-../SPE08LA4**	0.17	0.55	1.1	3.4	4.1	5600	6900	8700	8700	8700	336	39600	75000
10	3.1	3	9900	1.1	990.4	IE3	**BF80Z-../SPE08LA4**	0.15	0.5	1	3	3.6	6400	7900	9900	9900	9900	336	39600	75000
10	3.1	2.6	11200	0.93	1124	IE3	**BF80Z-../SPE08LA4**	0.13	0.44	0.85	2.6	3.2	7300	8900	11200	11200	11200	336	39600	75000
10	3.1	3	9700	1.9	976.1	IE3	**BF90G50-../SPE08LA4**	0.15	0.5	1	3	3.6	6300	7800	9700	9700	9700	612	42800	120000
10	3.1	2.8	10400	1.8	1043	IE3	**BF90G50-../SPE08LA4**	0.14	0.47	0.95	2.8	3.4	6700	8300	10400	10400	10400	612	42800	120000
10	3.1	2.4	12000	1.5	1204	IE3	**BF90G50-../SPE08LA4**	0.12	0.41	0.8	2.4	2.9	7800	9600	12000	12000	12000	612	42800	120000
10	3.1	2	14400	1.3	1444	IE3	**BF90G50-../SPE08LA4**	0.1	0.34	0.65	2	2.4	9300	11500	14400	14400	14400	612	42800	120000
10	3.1	1.7	16700	1.1	1678	IE3	**BF90G50-../SPE08LA4**	0.085	0.29	0.55	1.7	2.1	10900	13400	16700	16700	16700	612	42800	120000
10	3.1	1.6	18600	0.99	1867	IE3	**BF90G50-../SPE08LA4**	0.08	0.26	0.5	1.6	1.9	12100	14900	18600	18600	18600	612	42800	120000
10	3.1	1.3	21500	0.86	2154	IE3	**BF90G50-../SPE08LA4**	0.065	0.23	0.46	1.3	1.6	14000	17200	21500	21500	21500	612	42800	120000

MN = 13 Nm (PN = 4 kW)



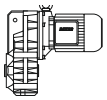
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
13	4	530	72	1.9	5.6	IE4	**BF10-../S4E09SA4**	26.5	89	178	530	640	47.5	56	72	72	72	32	1950	-
13	4	395	98	1.6	7.58	IE4	**BF10-../S4E09SA4**	19.5	65	131	395	470	64	75	98	98	98	32	2200	-
13	4	305	125	1.4	9.69	IE4	**BF10-../S4E09SA4**	15	51	103	305	370	82	96	125	125	125	32	2350	-

MN = 13 Nm (PN = 4 kW)



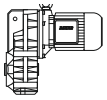
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
13	4	250	153	1.2	11.84	IE4	**BF10-../S4E09SA4**	12.5	42	84	250	300	100	118	153	153	153	32	2500	-
13	4	199	195	0.94	15.04	IE4	**BF10-../S4E09SA4**	9.9	33	66	199	235	127	150	195	195	195	32	2800	-
13	4	164	235	1	18.23	IE4	**BF10-../S4E09SA4**	8.2	27	54	164	197	154	182	235	235	235	32	2900	-
13	4	149	260	0.92	20.05	IE4	**BF10-../S4E09SA4**	7.4	24.5	49.5	149	179	170	200	260	260	260	32	3000	-
13	4	495	78	2.5	6.04	IE4	**BF20-../S4E09SA4**	24.5	82	165	495	590	51	60	78	78	78	38	2550	-
13	4	375	104	2.1	8	IE4	**BF20-../S4E09SA4**	18.5	62	125	375	450	68	80	104	104	104	38	2850	-
13	4	285	136	1.9	10.51	IE4	**BF20-../S4E09SA4**	14	47.5	95	285	340	89	105	136	136	136	38	3100	-
13	4	225	171	1.7	13.18	IE4	**BF20-../S4E09SA4**	11	37.5	75	225	270	112	131	171	171	171	38	3300	-
13	4	193	200	1.5	15.54	IE4	**BF20-../S4E09SA4**	9.6	32	64	193	230	132	155	200	200	200	38	3450	-
13	4	178	215	1.7	16.77	IE4	**BF20-../S4E09SA4**	8.9	29.5	59	178	210	142	167	215	215	215	38	3500	-
13	4	162	235	1.5	18.45	IE4	**BF20-../S4E09SA4**	8.1	27	54	162	195	156	184	235	235	235	38	3600	-
13	4	136	285	1.4	22.04	IE4	**BF20-../S4E09SA4**	6.8	22.5	45	136	163	187	220	285	285	285	38	3800	-
13	4	123	315	1.3	24.25	IE4	**BF20-../S4E09SA4**	6.1	20.5	41	123	148	205	240	315	315	315	38	3950	-
13	4	108	355	1.2	27.62	IE4	**BF20-../S4E09SA4**	5.4	18	36	108	130	230	275	355	355	355	38	4150	-
13	4	98	395	1.1	30.4	IE4	**BF20-../S4E09SA4**	4.9	16	32.5	98	118	255	300	395	395	395	38	4400	-
13	4	92	420	0.99	32.58	IE4	**BF20-../S4E09SA4**	4.6	15	30.5	92	110	275	325	420	420	420	38	4450	-
13	4	83	465	0.9	35.85	IE4	**BF20-../S4E09SA4**	4.1	13.5	27.5	83	100	300	355	465	465	465	38	4650	-
13	4	370	104	2.7	8.07	IE4	**BF30-../S4E09SA4**	18.5	61	123	370	445	68	80	104	104	104	49	2650	-
13	4	300	129	2.5	9.99	IE4	**BF30-../S4E09SA4**	15	50	100	300	360	84	99	129	129	129	49	2850	-
13	4	230	167	2.2	12.91	IE4	**BF30-../S4E09SA4**	11.5	38.5	77	230	275	109	129	167	167	167	49	3050	-
13	4	187	205	1.9	16	IE4	**BF30-../S4E09SA4**	9.3	31	62	187	225	136	160	205	205	205	49	3250	-
13	4	169	225	2.1	17.65	IE4	**BF30-../S4E09SA4**	8.4	28	56	169	200	150	176	225	225	225	49	3300	-
13	4	154	250	2	19.41	IE4	**BF30-../S4E09SA4**	7.7	25.5	51	154	185	164	194	250	250	250	49	3400	-
13	4	137	280	1.8	21.85	IE4	**BF30-../S4E09SA4**	6.8	22.5	45.5	137	164	185	215	280	280	280	49	3500	-
13	4	124	310	1.8	24.03	IE4	**BF30-../S4E09SA4**	6.2	20.5	41.5	124	149	200	240	310	310	310	49	3600	-
13	4	106	365	1.6	28.23	IE4	**BF30-../S4E09SA4**	5.3	17.5	35	106	127	235	280	365	365	365	49	3800	-
13	4	96	400	1.4	31.05	IE4	**BF30-../S4E09SA4**	4.8	16	32	96	115	260	310	400	400	400	49	4000	-
13	4	85	455	1.3	35	IE4	**BF30-../S4E09SA4**	4.2	14	28.5	85	102	295	350	455	455	455	49	4200	-
13	4	77	500	1.1	38.49	IE4	**BF30-../S4E09SA4**	3.8	12.5	25.5	77	93	325	380	500	500	500	49	4400	-
13	4	73	530	1.1	41.01	IE4	**BF30-../S4E09SA4**	3.6	12	24	73	87	345	410	530	530	530	49	4500	-
13	4	66	580	0.97	45.1	IE4	**BF30-../S4E09SA4**	3.3	11	22	66	79	380	450	580	580	580	49	4700	-
13	4	57	670	0.84	52.2	IE4	**BF30-../S4E09SA4**	2.8	9.5	19	57	68	440	520	670	670	670	49	5000	-
13	4	250	153	3	11.79	IE4	**BF40-../S4E09SA4**	12.5	42	84	250	305	100	117	153	153	153	58	4450	-
13	4	199	195	2.7	15.02	IE4	**BF40-../S4E09SA4**	9.9	33	66	199	235	127	150	195	195	195	58	4800	-
13	4	172	225	2.8	17.35	IE4	**BF40-../S4E09SA4**	8.6	28.5	57	172	205	147	173	225	225	225	58	4950	-
13	4	157	245	2.7	19.09	IE4	**BF40-../S4E09SA4**	7.8	26	52	157	188	162	190	245	245	245	58	5100	-
13	4	138	280	2.5	21.6	IE4	**BF40-../S4E09SA4**	6.9	23	46	138	166	183	215	280	280	280	58	5200	-
13	4	126	305	2.4	23.77	IE4	**BF40-../S4E09SA4**	6.3	21	42	126	151	200	235	305	305	305	58	5400	-
13	4	111	345	2.2	26.86	IE4	**BF40-../S4E09SA4**	5.5	18.5	37	111	134	225	265	345	345	345	58	5600	-
13	4	101	380	2.1	29.55	IE4	**BF40-../S4E09SA4**	5	16.5	33.5	101	121	250	295	380	380	380	58	5800	-
13	4	87	440	1.9	34.21	IE4	**BF40-../S4E09SA4**	4.3	14.5	29	87	105	290	340	440	440	440	58	6000	-
13	4	79	485	1.8	37.64	IE4	**BF40-../S4E09SA4**	3.9	13	26.5	79	95	315	375	485	485	485	58	6200	-
13	4	72	530	1.7	41.42	IE4	**BF40-../S4E09SA4**	3.6	12	24	72	86	350	410	530	530	530	58	6500	-
13	4	65	590	1.5	45.56	IE4	**BF40-../S4E09SA4**	3.2	10.5	21.5	65	79	385	455	590	590	590	58	6800	-
13	4	61	630	1.4	48.92	IE4	**BF40-../S4E09SA4**	3	10	20	61	73	415	485	630	630	630	58	7000	-
13	4	55	690	1.3	53.82	IE4	**BF40-../S4E09SA4**	2.7	9.2	18.5	55	66	455	530	690	690	690	58	7200	-
13	4	48.5	790	1.1	61.25	IE4	**BF40-../S4E09SA4**	2.4	8.1	16	48.5	58	520	610	790	790	790	58	7600	-
13	4	44.5	870	1	67.38	IE4	**BF40-../S4E09SA4**	2.2	7.4	14.5	44.5	53	570	670	870	870	870	58	8000	-
13	4	42	920	0.97	71.4	IE4	**BF40-../S4E09SA4**	2.1	7	14	42	50	600	710	920	920	920	58	8100	-
13	4	38	1020	0.88	78.55	IE4	**BF40-../S4E09SA4**	1.9	6.3	12.5	38	45.5	660	780	1020	1020	1020	58	8500	-
13	4	35.5	1090	0.83	83.91	IE4	**BF40-../S4E09SA4**	1.7	5.9	11.5	35.5	42.5	710	830	1090	1090	1090	58	8700	-
13	4	84	460	2.8	35.49	IE4	**BF50-../S4E09SA4**	4.2	14	28	84	101	300	350	460	460	460	86	7800	-
13	4	71	540	2.4	42.15	IE4	**BF50-../S4E09SA4**	3.5	11.5	23.5	71	85	355	420	540	540	540	86	8500	-
13	4	63	610	2.1	47.14	IE4	**BF50-../S4E09SA4**	3.1	10.5	21	63	76	400	470	610	610	610	86	8900	-
13	4	52	730	1.8	56.86	IE4	**BF50-../S4E09SA4**	2.6	8.7	17.5	52	63	480	560	730	730	730	86	9300	-
13	4	47	820	1.6	63.59	IE4	**BF50-../S4E09SA4**	2.3	7.8	15.5	47	56	540	630	820	820	820	86	9800	-
13	4	41	940	1.4	72.72	IE4	**BF50-../S4E09SA4**	2	6.8	13.5	41	49.5	610	720	940	940	940	86	10700	-
13	4	36.5	1050	1.2	81.33	IE4	**BF50-../S4E09SA4**	1.8	6.1	12	36.5	44	690	810	1050	1050	1050	86	11300	-
13	4	33	1170	1.1	90.24	IE4	**BF50-../S4E09SA4**	1.6	5.5	11	33	39.5	760	900	1170	1170	1170	86	11800	-
13	4	29.5	1310	0.99	100.9	IE4	**BF50-../S4E09SA4**	1.4	4.9	9.9	29.5	35.5	850	1000	1310	1310	1310	86	12300	-
13	4	26	1480	0.88	114	IE4	**BF50-../S4E09SA4**	1.3	4.3	8.7	26	31.5	960	1140	1480	1480	1480	86	12900	-
13	4	49.5	780	2.9	60.4	IE4	**BF60-../S4E09SA4**	2.4	8.2	16.5	49.5	59	510	600	780	780	780	116	11100	31400
13	4	41.5	930	2.5	72.15	IE4	**BF60-../S4E09SA4**	2	6.9	13.5	41.5	49.5	610	720	930	930	930	116	12000	34000
13	4	37	1040	2.2	80.05	IE4	**BF60-../S4E09SA4**	1.8	6.2	12	37	44.5	680	800	1040	1040	1040	116	12600	35600
13	4	32	1210	1.9	93.44	IE4	**BF60-../S4E09SA4**	1.6	5.3	10.5	32	38.5	790	930	1210	1210	1210	116	13500	38200
13	4	28.5	1340	1.7	103.7	IE4	**BF60-../S4E09SA4**	1.4	4.8	9.6	28.5	34.5	880	1030	1340	1340	1340	116	14100	39900
13	4	26.5	1470	1.6	113.1	IE4	**BF60-../S4E09SA4**	1.3	4.4	8.8	26.5	31.5	960	1130	1470	1470	1470	116	14600	41300
13	4	23.5	1630	1.4	125.5	IE4	**BF60-../S4E09SA4**	1.1	3.9	7.9	23.5	28.5	1060	1250	1630	1630	1630	116	15300	43300
13	4	21	1830	1.3	140.8	IE4	**BF60Z-../S4E09SA4**	1	3.5	7.1	21	25.5	1190	1400	1830	1830	1830	135	15300	43300
13	4	17.5	2150	1	169.2	IE4	**BF60Z-../S4E09SA4**	0.85	2.9	5.9	17.5	21	1430	1690	2150	2150	2150	135	15300	43300
13	4	15.5	2400	0.94	187.7	IE4	**BF60Z-../S4E09SA4**	0.75	2.6	5.3	15.5	19	1590	1870	2400	2400	2400	135	15300	43300
13	4	13.5	2850	0.8	221.4	IE4	**BF60Z-../S4E09SA4**	0.65	2.2	4.5	13.5	16	1880	2200	2850	2850	2850	135	15300	43300
13	4	22.5	1720	3	133	IE4	**BF70Z-../S4E09SA4**	1.1	3.7	7.5	22.5	27	1130	1330	1720	1720	1720	223	16100	47700
13	4	19	2000	2.6	154	IE4	**BF70Z-../S4E09SA4**	0.95	3.2	6.4	19	23	1300	1540	2000	2000	2000	223	16100	47700
13	4	16.5	2300	2.2	179.7	IE4	**BF70Z-../S4E09SA4**	0.8	2.7	5.5	16.5	20	1520	1790	2300	2300	2300	223	16100	47700
13	4	15	2550	2	199.7	IE4	**BF70Z-../S4E09SA4**	0.75	2.5	5	15	18	1690	1990	2550	2550	2550	223	16100	47700

MN = 13 Nm (PN = 4 kW)



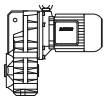
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
13	4	12.5	3000	1.7	233	IE4	**BF70Z-../S4E09SA4**	0.6	2.1	4.2	12.5	15	1980	2300	3000	3000	3000	223	16100	47700
13	4	11.5	3350	1.5	258.7	IE4	**BF70Z-../S4E09SA4**	0.55	1.9	3.8	11.5	13.5	2150	2550	3350	3350	3350	223	16100	47700
13	4	9.9	3900	1.3	301.8	IE4	**BF70Z-../S4E09SA4**	0.49	1.6	3.3	9.9	11.5	2550	3000	3900	3900	3900	223	16100	47700
13	4	8.7	4400	1.2	341.7	IE4	**BF70Z-../S4E09SA4**	0.43	1.4	2.9	8.7	10.5	2900	3400	4400	4400	4400	223	16100	47700
13	4	7.5	5100	1	398.7	IE4	**BF70Z-../S4E09SA4**	0.37	1.2	2.5	7.5	9	3350	3950	5100	5100	5100	223	16100	47700
13	4	6.8	5700	0.91	439.2	IE4	**BF70Z-../S4E09SA4**	0.34	1.1	2.2	6.8	8.1	3700	4350	5700	5700	5700	223	16100	47700
13	4	5.7	6800	0.84	524.1	IE4	**BF70G20-../S4E09SA4**	0.28	0.95	1.9	5.7	6.8	4450	5200	6800	6800	6800	221	16100	47700
13	4	11	3450	2.7	269.1	IE4	**BF80-../S4E09SA4**	0.55	1.8	3.7	11	13	2250	2650	3450	3450	3450	299	39600	75000
13	4	10	3750	2.8	291.7	IE4	**BF80Z-../S4E09SA4**	0.5	1.7	3.4	10	12	2450	2900	3750	3750	3750	340	39600	75000
13	4	8.6	4500	2.3	347.3	IE4	**BF80Z-../S4E09SA4**	0.43	1.4	2.8	8.6	10	2950	3450	4500	4500	4500	340	39600	75000
13	4	7.6	5100	2	394.2	IE4	**BF80Z-../S4E09SA4**	0.38	1.2	2.5	7.6	9.1	3350	3900	5100	5100	5100	340	39600	75000
13	4	6.6	5800	1.8	450.4	IE4	**BF80Z-../S4E09SA4**	0.33	1.1	2.2	6.6	7.9	3800	4500	5800	5800	5800	340	39600	75000
13	4	5.8	6600	1.6	511.2	IE4	**BF80Z-../S4E09SA4**	0.29	0.95	1.9	5.8	7	4300	5100	6600	6600	6600	340	39600	75000
13	4	5.1	7500	1.4	583.4	IE4	**BF80Z-../S4E09SA4**	0.25	0.85	1.7	5.1	6.1	4950	5800	7500	7500	7500	340	39600	75000
13	4	4.5	8600	1.2	662.1	IE4	**BF80Z-../S4E09SA4**	0.22	0.75	1.5	4.5	5.4	5600	6600	8600	8600	8600	340	39600	75000
13	4	3.8	10000	1	770.6	IE4	**BF80Z-../S4E09SA4**	0.19	0.6	1.2	3.8	4.6	6500	7700	10000	10000	10000	340	39600	75000
13	4	3.4	11300	0.92	874.6	IE4	**BF80Z-../S4E09SA4**	0.17	0.55	1.1	3.4	4.1	7400	8700	11300	11300	11300	340	39600	75000
13	4	3	12800	0.82	990.4	IE4	**BF80Z-../S4E09SA4**	0.15	0.5	1	3	3.6	8400	9900	12800	12800	12800	340	39600	75000
13	4	5.8	6600	2.8	508.5	IE4	**BF90Z-../S4E09SA4**	0.29	0.95	1.9	5.8	7	4300	5000	6600	6600	6600	604	42800	120000
13	4	5	7600	2.4	591.1	IE4	**BF90Z-../S4E09SA4**	0.25	0.8	1.6	5	6	5000	5900	7600	7600	7600	604	42800	120000
13	4	4.5	8500	2.2	658.1	IE4	**BF90Z-../S4E09SA4**	0.22	0.75	1.5	4.5	5.4	5500	6500	8500	8500	8500	604	42800	120000
13	4	3.9	9800	1.9	759	IE4	**BF90Z-../S4E09SA4**	0.19	0.65	1.3	3.9	4.7	6400	7500	9800	9800	9800	604	42800	120000
13	4	3.5	10900	1.7	845.1	IE4	**BF90Z-../S4E09SA4**	0.17	0.55	1.1	3.5	4.2	7100	8400	10900	10900	10900	604	42800	120000
13	4	3	12600	1.5	976.1	IE4	**BF90G50-../S4E09SA4**	0.15	0.5	1	3	3.6	8200	9700	12600	12600	12600	616	42800	120000
13	4	2.8	13500	1.4	1043	IE4	**BF90G50-../S4E09SA4**	0.14	0.47	0.95	2.8	3.4	8800	10400	13500	13500	13500	616	42800	120000
13	4	2.4	15600	1.2	1204	IE4	**BF90G50-../S4E09SA4**	0.12	0.41	0.8	2.4	2.9	10200	12000	15600	15600	15600	616	42800	120000
13	4	2	18700	0.99	1444	IE4	**BF90G50-../S4E09SA4**	0.1	0.34	0.65	2	2.4	12200	14400	18700	18700	18700	616	42800	120000
13	4	1.7	21500	0.85	1678	IE4	**BF90G50-../S4E09SA4**	0.085	0.29	0.55	1.7	2.1	14200	16700	21500	21500	21500	616	42800	120000

MN = 17.5 Nm (PN = 5.5 kW)



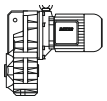
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
17.5	5.5	530	98	1.4	5.6	IE5	**BF10-../S5E09XA4**	26.5	89	178	530	640	72	89	98	98	98	40	1950	-
17.5	5.5	395	132	1.2	7.58	IE5	**BF10-../S5E09XA4**	19.5	65	131	395	470	98	121	132	132	132	40	2200	-
17.5	5.5	305	169	1	9.69	IE5	**BF10-../S5E09XA4**	15	51	103	305	370	125	155	169	169	169	40	2350	-
17.5	5.5	250	205	0.88	11.84	IE5	**BF10-../S5E09XA4**	12.5	42	84	250	300	153	189	205	205	205	40	2500	-
17.5	5.5	495	105	1.9	6.04	IE5	**BF20-../S5E09XA4**	24.5	82	165	495	590	78	96	105	105	105	46	2550	-
17.5	5.5	375	140	1.6	8	IE5	**BF20-../S5E09XA4**	18.5	62	125	375	450	104	128	140	140	140	46	2850	-
17.5	5.5	285	183	1.4	10.51	IE5	**BF20-../S5E09XA4**	14	47.5	95	285	340	136	168	183	183	183	46	3100	-
17.5	5.5	225	230	1.2	13.18	IE5	**BF20-../S5E09XA4**	11	37.5	75	225	270	171	210	230	230	230	46	3300	-
17.5	5.5	193	270	1.1	15.54	IE5	**BF20-../S5E09XA4**	9.6	32	64	193	230	200	245	270	270	270	46	3450	-
17.5	5.5	178	290	1.2	16.77	IE5	**BF20-../S5E09XA4**	8.9	29.5	59	178	210	215	265	290	290	290	46	3500	-
17.5	5.5	162	320	1.1	18.45	IE5	**BF20-../S5E09XA4**	8.1	27	54	162	195	235	295	320	320	320	46	3600	-
17.5	5.5	136	385	1	22.04	IE5	**BF20-../S5E09XA4**	6.8	22.5	45	136	163	285	350	385	385	385	46	3800	-
17.5	5.5	123	420	0.94	24.25	IE5	**BF20-../S5E09XA4**	6.1	20.5	41	123	148	315	385	420	420	420	46	3950	-
17.5	5.5	108	480	0.87	27.62	IE5	**BF20-../S5E09XA4**	5.4	18	36	108	130	355	440	480	480	480	46	4150	-
17.5	5.5	470	110	2.4	6.34	IE4	**BF30-../S4E11SA6**	23.5	78	157	470	560	110	110	110	110	110	66	2400	-
17.5	5.5	470	110	2.4	6.34	IE5	**BF30-../S5E09XA4**	23.5	78	157	470	560	82	101	110	110	110	57	2400	-
17.5	5.5	370	141	2	8.07	IE4	**BF30-../S4E11SA6**	18.5	61	123	370	445	141	141	141	141	141	66	2650	-
17.5	5.5	370	141	2	8.07	IE5	**BF30-../S5E09XA4**	18.5	61	123	370	445	104	129	141	141	141	57	2650	-
17.5	5.5	300	174	1.8	9.99	IE4	**BF30-../S4E11SA6**	15	50	100	300	360	174	174	174	174	174	66	2850	-
17.5	5.5	300	174	1.8	9.99	IE5	**BF30-../S5E09XA4**	15	50	100	300	360	129	159	174	174	174	57	2850	-
17.5	5.5	230	225	1.6	12.91	IE4	**BF30-../S4E11SA6**	11.5	38.5	77	230	275	225	225	225	225	225	66	3050	-
17.5	5.5	230	225	1.6	12.91	IE5	**BF30-../S5E09XA4**	11.5	38.5	77	230	275	167	205	225	225	225	57	3050	-
17.5	5.5	187	280	1.4	16	IE4	**BF30-../S4E11SA6**	9.3	31	62	187	225	280	280	280	280	280	66	3250	-
17.5	5.5	187	280	1.4	16	IE5	**BF30-../S5E09XA4**	9.3	31	62	187	225	205	255	280	280	280	57	3250	-
17.5	5.5	169	305	1.5	17.65	IE4	**BF30-../S4E11SA6**	8.4	28	56	169	200	305	305	305	305	305	66	3300	-
17.5	5.5	169	305	1.5	17.65	IE5	**BF30-../S5E09XA4**	8.4	28	56	169	200	225	280	305	305	305	57	3300	-
17.5	5.5	154	335	1.5	19.41	IE4	**BF30-../S4E11SA6**	7.7	25.5	51	154	185	335	335	335	335	335	66	3400	-
17.5	5.5	154	335	1.5	19.41	IE5	**BF30-../S5E09XA4**	7.7	25.5	51	154	185	250	310	335	335	335	57	3400	-
17.5	5.5	137	380	1.4	21.85	IE4	**BF30-../S4E11SA6**	6.8	22.5	45.5	137	164	380	380	380	380	380	66	3500	-
17.5	5.5	137	380	1.4	21.85	IE5	**BF30-../S5E09XA4**	6.8	22.5	45.5	137	164	280	345	380	380	380	57	3500	-
17.5	5.5	124	420	1.3	24.03	IE4	**BF30-../S4E11SA6**	6.2	20.5	41.5	124	149	420	420	420	420	420	66	3600	-
17.5	5.5	124	420	1.3	24.03	IE5	**BF30-../S5E09XA4**	6.2	20.5	41.5	124	149	310	380	420	420	420	57	3600	-
17.5	5.5	106	490	1.2	28.23	IE4	**BF30-../S4E11SA6**	5.3	17.5	35	106	127	490	490	490	490	490	66	3800	-
17.5	5.5	106	490	1.2	28.23	IE5	**BF30-../S5E09XA4**	5.3	17.5	35	106	127	365	450	490	490	490	57	3800	-
17.5	5.5	96	540	1	31.05	IE4	**BF30-../S4E11SA6**	4.8	16	32	96	115	540	540	540	540	540	66	4000	-
17.5	5.5	96	540	1	31.05	IE5	**BF30-../S5E09XA4**	4.8	16	32	96	115	400	495	540	540	540	57	4000	-
17.5	5.5	85	610	0.93	35	IE4	**BF30-../S4E11SA6**	4.2	14	28.5	85	102	610	610	610	610	610	66	4200	-
17.5	5.5	85	610	0.93	35	IE5	**BF30-../S5E09XA4**	4.2	14	28.5	85	102	455	560	610	610	610	57	4200	-
17.5	5.5	77	670	0.85	38.49	IE4	**BF30-../S4E11SA6**	3.8	12.5	25.5	77	93	670	670	670	670	670	66	4400	-

MN = 17.5 Nm (PN = 5.5 kW)



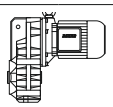
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
17.5	5.5	77	670	0.85	38.49	IE5	**BF30-../S5E09XA4**	3.8	12.5	25.5	77	93	500	610	670	670	670	57	4400	-
17.5	5.5	390	133	2.7	7.62	IE4	**BF40-../S4E11SA6**	19.5	65	131	390	470	133	133	133	133	133	80	3900	-
17.5	5.5	390	133	2.7	7.62	IE5	**BF40-../S5E09XA4**	19.5	65	131	390	470	99	121	133	133	133	66	3900	-
17.5	5.5	315	165	2.5	9.48	IE4	**BF40-../S4E11SA6**	15.5	52	105	315	375	165	165	165	165	165	80	4150	-
17.5	5.5	315	165	2.5	9.48	IE5	**BF40-../S5E09XA4**	15.5	52	105	315	375	123	151	165	165	165	66	4150	-
17.5	5.5	250	205	2.3	11.79	IE4	**BF40-../S4E11SA6**	12.5	42	84	250	305	205	205	205	205	205	80	4450	-
17.5	5.5	250	205	2.3	11.79	IE5	**BF40-../S5E09XA4**	12.5	42	84	250	305	153	188	205	205	205	66	4450	-
17.5	5.5	199	260	2	15.02	IE4	**BF40-../S4E11SA6**	9.9	33	66	199	235	260	260	260	260	260	80	4800	-
17.5	5.5	199	260	2	15.02	IE5	**BF40-../S5E09XA4**	9.9	33	66	199	235	195	240	260	260	260	66	4800	-
17.5	5.5	172	300	2.1	17.35	IE4	**BF40-../S4E11SA6**	8.6	28.5	57	172	205	300	300	300	300	300	80	4950	-
17.5	5.5	172	300	2.1	17.35	IE5	**BF40-../S5E09XA4**	8.6	28.5	57	172	205	225	275	300	300	300	66	4950	-
17.5	5.5	157	330	2	19.09	IE4	**BF40-../S4E11SA6**	7.8	26	52	157	188	330	330	330	330	330	80	5100	-
17.5	5.5	157	330	2	19.09	IE5	**BF40-../S5E09XA4**	7.8	26	52	157	188	245	305	330	330	330	66	5100	-
17.5	5.5	138	375	1.9	21.6	IE4	**BF40-../S4E11SA6**	6.9	23	46	138	166	375	375	375	375	375	80	5200	-
17.5	5.5	138	375	1.9	21.6	IE5	**BF40-../S5E09XA4**	6.9	23	46	138	166	280	345	375	375	375	66	5200	-
17.5	5.5	126	415	1.8	23.77	IE4	**BF40-../S4E11SA6**	6.3	21	42	126	151	415	415	415	415	415	80	5400	-
17.5	5.5	126	415	1.8	23.77	IE5	**BF40-../S5E09XA4**	6.3	21	42	126	151	305	380	415	415	415	66	5400	-
17.5	5.5	111	470	1.6	26.86	IE4	**BF40-../S4E11SA6**	5.5	18.5	37	111	134	470	470	470	470	470	80	5600	-
17.5	5.5	111	470	1.6	26.86	IE5	**BF40-../S5E09XA4**	5.5	18.5	37	111	134	345	425	470	470	470	66	5600	-
17.5	5.5	101	510	1.5	29.55	IE4	**BF40-../S4E11SA6**	5	16.5	33.5	101	121	510	510	510	510	510	80	5800	-
17.5	5.5	101	510	1.5	29.55	IE5	**BF40-../S5E09XA4**	5	16.5	33.5	101	121	380	470	510	510	510	66	5800	-
17.5	5.5	87	590	1.4	34.21	IE4	**BF40-../S4E11SA6**	4.3	14.5	29	87	105	590	590	590	590	590	80	6000	-
17.5	5.5	87	590	1.4	34.21	IE5	**BF40-../S5E09XA4**	4.3	14.5	29	87	105	440	540	590	590	590	66	6000	-
17.5	5.5	79	650	1.4	37.64	IE4	**BF40-../S4E11SA6**	3.9	13	26.5	79	95	650	650	650	650	650	80	6200	-
17.5	5.5	79	650	1.4	37.64	IE5	**BF40-../S5E09XA4**	3.9	13	26.5	79	95	485	600	650	650	650	66	6200	-
17.5	5.5	72	720	1.2	41.42	IE4	**BF40-../S4E11SA6**	3.6	12	24	72	86	720	720	720	720	720	80	6500	-
17.5	5.5	72	720	1.2	41.42	IE5	**BF40-../S5E09XA4**	3.6	12	24	72	86	530	660	720	720	720	66	6500	-
17.5	5.5	65	790	1.1	45.56	IE4	**BF40-../S4E11SA6**	3.2	10.5	21.5	65	79	790	790	790	790	790	80	6800	-
17.5	5.5	65	790	1.1	45.56	IE5	**BF40-../S5E09XA4**	3.2	10.5	21.5	65	79	590	720	790	790	790	66	6800	-
17.5	5.5	61	850	1.1	48.92	IE4	**BF40-../S4E11SA6**	3	10	20	61	73	850	850	850	850	850	80	7000	-
17.5	5.5	61	850	1.1	48.92	IE5	**BF40-../S5E09XA4**	3	10	20	61	73	630	780	850	850	850	66	7000	-
17.5	5.5	55	940	0.96	53.82	IE4	**BF40-../S4E11SA6**	2.7	9.2	18.5	55	66	940	940	940	940	940	80	7200	-
17.5	5.5	55	940	0.96	53.82	IE5	**BF40-../S5E09XA4**	2.7	9.2	18.5	55	66	690	860	940	940	940	66	7200	-
17.5	5.5	48.5	1070	0.84	61.25	IE5	**BF40-../S5E09XA4**	2.4	8.1	16	48.5	58	790	980	1070	1070	1070	66	7600	-
17.5	5.5	129	400	2.7	23.14	IE4	**BF50-../S4E11SA6**	6.4	21.5	43	129	155	400	400	400	400	400	110	6800	-
17.5	5.5	129	400	2.7	23.14	IE5	**BF50-../S5E09XA4**	6.4	21.5	43	129	155	300	370	400	400	400	94	6800	-
17.5	5.5	115	450	2.6	25.88	IE4	**BF50-../S4E11SA6**	5.7	19	38.5	115	139	450	450	450	450	450	110	7100	-
17.5	5.5	115	450	2.6	25.88	IE5	**BF50-../S5E09XA4**	5.7	19	38.5	115	139	335	410	450	450	450	94	7100	-
17.5	5.5	94	550	2.3	31.73	IE4	**BF50-../S4E11SA6**	4.7	15.5	31.5	94	113	550	550	550	550	550	110	7500	-
17.5	5.5	94	550	2.3	31.73	IE5	**BF50-../S5E09XA4**	4.7	15.5	31.5	94	113	410	500	550	550	550	94	7500	-
17.5	5.5	84	620	2.1	35.49	IE4	**BF50-../S4E11SA6**	4.2	14	28	84	101	620	620	620	620	620	110	7800	-
17.5	5.5	84	620	2.1	35.49	IE5	**BF50-../S5E09XA4**	4.2	14	28	84	101	460	560	620	620	620	94	7800	-
17.5	5.5	71	730	1.8	42.15	IE4	**BF50-../S4E11SA6**	3.5	11.5	23.5	71	85	730	730	730	730	730	110	8500	-
17.5	5.5	71	730	1.8	42.15	IE5	**BF50-../S5E09XA4**	3.5	11.5	23.5	71	85	540	670	730	730	730	94	8500	-
17.5	5.5	63	820	1.6	47.14	IE4	**BF50-../S4E11SA6**	3.1	10.5	21	63	76	820	820	820	820	820	110	8900	-
17.5	5.5	63	820	1.6	47.14	IE5	**BF50-../S5E09XA4**	3.1	10.5	21	63	76	610	750	820	820	820	94	8900	-
17.5	5.5	52	990	1.3	56.86	IE4	**BF50-../S4E11SA6**	2.6	8.7	17.5	52	63	990	990	990	990	990	110	9300	-
17.5	5.5	52	990	1.3	56.86	IE5	**BF50-../S5E09XA4**	2.6	8.7	17.5	52	63	730	900	990	990	990	94	9300	-
17.5	5.5	47	1110	1.2	63.59	IE4	**BF50-../S4E11SA6**	2.3	7.8	15.5	47	56	1110	1110	1110	1110	1110	110	9800	-
17.5	5.5	47	1110	1.2	63.59	IE5	**BF50-../S5E09XA4**	2.3	7.8	15.5	47	56	820	1010	1110	1110	1110	94	9800	-
17.5	5.5	41	1270	1	72.72	IE4	**BF50-../S4E11SA6**	2	6.8	13.5	41	49.5	1270	1270	1270	1270	1270	110	10700	-
17.5	5.5	41	1270	1	72.72	IE5	**BF50-../S5E09XA4**	2	6.8	13.5	41	49.5	940	1160	1270	1270	1270	94	10700	-
17.5	5.5	36.5	1420	0.91	81.33	IE4	**BF50-../S4E11SA6**	1.8	6.1	12	36.5	44	1420	1420	1420	1420	1420	110	11300	-
17.5	5.5	36.5	1420	0.91	81.33	IE5	**BF50-../S5E09XA4**	1.8	6.1	12	36.5	44	1050	1300	1420	1420	1420	94	11300	-
17.5	5.5	33	1570	0.82	90.24	IE4	**BF50-../S4E11SA6**	1.6	5.5	11	33	39.5	1570	1570	1570	1570	1570	110	11800	-
17.5	5.5	33	1570	0.82	90.24	IE5	**BF50-../S5E09XA4**	1.6	5.5	11	33	39.5	1170	1440	1570	1570	1570	94	11800	-
17.5	5.5	72	720	2.9	41.6	IE4	**BF60-../S4E11SA6**	3.6	12	24	72	86	720	720	720	720	720	141	9600	27100
17.5	5.5	72	720	2.9	41.6	IE5	**BF60-../S5E09XA4**	3.6	12	24	72	86	540	660	720	720	720	124	9600	27100
17.5	5.5	64	800	2.7	46.16	IE4	**BF60-../S4E11SA6**	3.2	10.5	21.5	64	77	800	800	800	800	800	141	9900	28000
17.5	5.5	64	800	2.7	46.16	IE5	**BF60-../S5E09XA4**	3.2	10.5	21.5	64	77	600	730	800	800	800	124	9900	28000
17.5	5.5	55	950	2.4	54.44	IE4	**BF60-../S4E11SA6**	2.7	9.1	18	55	66	950	950	950	950	950	141	10500	29700
17.5	5.5	55	950	2.4	54.44	IE5	**BF60-../S5E09XA4**	2.7	9.1	18	55	66	700	870	950	950	950	124	10500	29700
17.5	5.5	49.5	1050	2.2	60.4	IE4	**BF60-../S4E11SA6**	2.4	8.2	16.5	49.5	59	1050	1050	1050	1050	1050	141	11100	31400
17.5	5.5	49.5	1050	2.2	60.4	IE5	**BF60-../S5E09XA4**	2.4	8.2	16.5	49.5	59	780	960	1050	1050	1050	124	11100	31400
17.5	5.5	41.5	1260	1.8	72.15	IE4	**BF60-../S4E11SA6**	2	6.9	13.5	41.5	49.5	1260	1260	1260	1260	1260	141	12000	34000
17.5	5.5	41.5	1260	1.8	72.15	IE5	**BF60-../S5E09XA4**	2	6.9	13.5	41.5	49.5	930	1150	1260	1260	1260	124	12000	34000
17.5	5.5	37	1400	1.6	80.05	IE4	**BF60-../S4E11SA6**	1.8	6.2	12	37	44.5	1400	1400	1400	1400	1400	141	12600	35600
17.5	5.5	37	1400	1.6	80.05	IE5	**BF60-../S5E09XA4**	1.8	6.2	12	37	44.5	1040	1280	1400	1400	1400	124	12600	35600
17.5	5.5	32	1630	1.4	93.44	IE4	**BF60-../S4E11SA6**	1.6	5.3	10.5	32	38.5	1630	1630	1630	1630	1630	141	13500	38200
17.5	5.5	32	1630	1.4	93.44	IE5	**BF60-../S5E09XA4**	1.6	5.3	10.5	32	38.5	1210	1490	1630	1630	1630	124	13500	38200
17.5	5.5	28.5	1810	1.3	103.7	IE4	**BF60-../S4E11SA6**	1.4	4.8	9.6	28.5	34.5	1810	1810	1810	1810	1810	141	14100	39900
17.5	5.5	28.5	1810	1.3	103.7	IE5	**BF60-../S5E09XA4**	1.4	4.8	9.6	28.5	34.5	1340	1650	1810	1810	1810	124	14100	39900
17.5	5.5	26.5	1970	1.2	113.1	IE4	**BF60-../S4E11SA6**	1.3	4.4	8.8	26.5	31.5	1970	1970	1970	1970	1970	141	14600	41300
17.5	5.5	26.5	1970	1.2	113.1	IE5	**BF60-../S5E09XA4**	1.3	4.4	8.8	26.5	31.5	1470	1800	1970	1970	1970	124	14600	41300
17.5	5.5	23.5	2150	1	125.5	IE4	**BF60-../S4E11SA6**	1.1	3.9	7.9	23.5	28.5	2150	2150	2150	2150	2150	141	15300	43300
17.5	5.5	23.5	2150	1	125.5	IE5	**BF60-../S5E09XA4**	1.1	3.9	7.9	23.5	28.5	1630	2000	2150	2150	2150	124	15300	43300
17.5	5.5	21	2450	0.93	140.8	IE4	**BF60Z-../S4E11SA6**	1	3.5	7.1	21	25.5	2450	2450	2450	2450	2450	157	15300	43300
17.5	5.5	21	2450	0.93	140.8	IE5	**BF60Z-../S5E09XA4**	1	3.5	7.1	21	25.5	1830	2250	2450	2450	2450	143	15300	43300

MN = 17.5 Nm (PN = 5.5 kW)



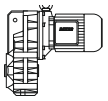
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
17.5	5.5	28.5	1840	2.8	105.2	IE4	**BF70-../S4E11SA6**	1.4	4.7	9.5	28.5	34	1840	1840	1840	1840	1840	220	14700	45100
17.5	5.5	28.5	1840	2.8	105.2	IE5	**BF70-../S5E09XA4**	1.4	4.7	9.5	28.5	34	1360	1680	1840	1840	1840	210	14700	45100
17.5	5.5	24	2100	2.4	122.7	IE4	**BF70-../S4E11SA6**	1.2	4	8.1	24	29	2100	2100	2100	2100	2100	220	16100	47700
17.5	5.5	24	2100	2.4	122.7	IE5	**BF70-../S5E09XA4**	1.2	4	8.1	24	29	1590	1960	2100	2100	2100	210	16100	47700
17.5	5.5	22.5	2300	2.2	133	IE4	**BF70Z-../S4E11SA6**	1.1	3.7	7.5	22.5	27	2300	2300	2300	2300	2300	247	16100	47700
17.5	5.5	22.5	2300	2.2	133	IE5	**BF70Z-../S5E09XA4**	1.1	3.7	7.5	22.5	27	1720	2100	2300	2300	2300	231	16100	47700
17.5	5.5	19	2650	1.9	154	IE4	**BF70Z-../S4E11SA6**	0.95	3.2	6.4	19	23	2650	2650	2650	2650	2650	247	16100	47700
17.5	5.5	19	2650	1.9	154	IE5	**BF70Z-../S5E09XA4**	0.95	3.2	6.4	19	23	2000	2450	2650	2650	2650	231	16100	47700
17.5	5.5	16.5	3100	1.7	179.7	IE4	**BF70Z-../S4E11SA6**	0.8	2.7	5.5	16.5	20	3100	3100	3100	3100	3100	247	16100	47700
17.5	5.5	16.5	3100	1.7	179.7	IE5	**BF70Z-../S5E09XA4**	0.8	2.7	5.5	16.5	20	2300	2850	3100	3100	3100	231	16100	47700
17.5	5.5	15	3450	1.5	199.7	IE4	**BF70Z-../S4E11SA6**	0.75	2.5	5	15	18	3450	3450	3450	3450	3450	247	16100	47700
17.5	5.5	15	3450	1.5	199.7	IE5	**BF70Z-../S5E09XA4**	0.75	2.5	5	15	18	2550	3150	3450	3450	3450	231	16100	47700
17.5	5.5	12.5	4050	1.3	233	IE4	**BF70Z-../S4E11SA6**	0.6	2.1	4.2	12.5	15	4050	4050	4050	4050	4050	247	16100	47700
17.5	5.5	12.5	4050	1.3	233	IE5	**BF70Z-../S5E09XA4**	0.6	2.1	4.2	12.5	15	3000	3700	4050	4050	4050	231	16100	47700
17.5	5.5	11.5	4500	1.1	258.7	IE4	**BF70Z-../S4E11SA6**	0.55	1.9	3.8	11.5	13.5	4500	4500	4500	4500	4500	247	16100	47700
17.5	5.5	11.5	4500	1.1	258.7	IE5	**BF70Z-../S5E09XA4**	0.55	1.9	3.8	11.5	13.5	3350	4100	4500	4500	4500	231	16100	47700
17.5	5.5	9.9	5200	0.98	301.8	IE4	**BF70Z-../S4E11SA6**	0.49	1.6	3.3	9.9	11.5	5200	5200	5200	5200	5200	247	16100	47700
17.5	5.5	9.9	5200	0.98	301.8	IE5	**BF70Z-../S5E09XA4**	0.49	1.6	3.3	9.9	11.5	3900	4800	5200	5200	5200	231	16100	47700
17.5	5.5	8.7	5900	0.87	341.7	IE4	**BF70Z-../S4E11SA6**	0.43	1.4	2.9	8.7	10.5	5900	5900	5900	5900	5900	247	16100	47700
17.5	5.5	8.7	5900	0.87	341.7	IE5	**BF70Z-../S5E09XA4**	0.43	1.4	2.9	8.7	10.5	4400	5400	5900	5900	5900	231	16100	47700
17.5	5.5	16	3200	2.9	184.5	IE4	**BF80-../S4E11SA6**	0.8	2.7	5.4	16	19.5	3200	3200	3200	3200	3200	316	31800	75000
17.5	5.5	16	3200	2.9	184.5	IE5	**BF80-../S5E09XA4**	0.8	2.7	5.4	16	19.5	2350	2950	3200	3200	3200	307	31800	75000
17.5	5.5	14	3650	2.6	209.4	IE4	**BF80-../S4E11SA6**	0.7	2.3	4.7	14	17	3650	3650	3650	3650	3650	316	34300	75000
17.5	5.5	14	3650	2.6	209.4	IE5	**BF80-../S5E09XA4**	0.7	2.3	4.7	14	17	2700	3350	3650	3650	3650	307	34300	75000
17.5	5.5	12.5	4100	2.3	237.1	IE4	**BF80-../S4E11SA6**	0.6	2.1	4.2	12.5	15	4100	4100	4100	4100	4100	316	36900	75000
17.5	5.5	12.5	4100	2.3	237.1	IE5	**BF80-../S5E09XA4**	0.6	2.1	4.2	12.5	15	3050	3750	4100	4100	4100	307	36900	75000
17.5	5.5	11	4700	2	269.1	IE4	**BF80-../S4E11SA6**	0.55	1.8	3.7	11	13	4700	4700	4700	4700	4700	316	39600	75000
17.5	5.5	11	4700	2	269.1	IE5	**BF80-../S5E09XA4**	0.55	1.8	3.7	11	13	3450	4300	4700	4700	4700	307	39600	75000
17.5	5.5	10	5100	2.1	291.7	IE4	**BF80Z-../S4E11SA6**	0.5	1.7	3.4	10	12	5100	5100	5100	5100	5100	363	39600	75000
17.5	5.5	10	5100	2.1	291.7	IE5	**BF80Z-../S5E09XA4**	0.5	1.7	3.4	10	12	3750	4650	5100	5100	5100	348	39600	75000
17.5	5.5	8.6	6000	1.7	347.3	IE4	**BF80Z-../S4E11SA6**	0.43	1.4	2.8	8.6	10	6000	6000	6000	6000	6000	363	39600	75000
17.5	5.5	8.6	6000	1.7	347.3	IE5	**BF80Z-../S5E09XA4**	0.43	1.4	2.8	8.6	10	4500	5500	6000	6000	6000	348	39600	75000
17.5	5.5	7.6	6800	1.5	394.2	IE4	**BF80Z-../S4E11SA6**	0.38	1.2	2.5	7.6	9.1	6800	6800	6800	6800	6800	363	39600	75000
17.5	5.5	7.6	6800	1.5	394.2	IE5	**BF80Z-../S5E09XA4**	0.38	1.2	2.5	7.6	9.1	5100	6300	6800	6800	6800	348	39600	75000
17.5	5.5	6.6	7800	1.3	450.4	IE4	**BF80Z-../S4E11SA6**	0.33	1.1	2.2	6.6	7.9	7800	7800	7800	7800	7800	363	39600	75000
17.5	5.5	6.6	7800	1.3	450.4	IE5	**BF80Z-../S5E09XA4**	0.33	1.1	2.2	6.6	7.9	5800	7200	7800	7800	7800	348	39600	75000
17.5	5.5	5.8	8900	1.2	511.2	IE4	**BF80Z-../S4E11SA6**	0.29	0.95	1.9	5.8	7	8900	8900	8900	8900	8900	363	39600	75000
17.5	5.5	5.8	8900	1.2	511.2	IE5	**BF80Z-../S5E09XA4**	0.29	0.95	1.9	5.8	7	6600	8100	8900	8900	8900	348	39600	75000
17.5	5.5	5.1	10200	1	583.4	IE4	**BF80Z-../S4E11SA6**	0.25	0.85	1.7	5.1	6.1	10200	10200	10200	10200	10200	363	39600	75000
17.5	5.5	5.1	10200	1	583.4	IE5	**BF80Z-../S5E09XA4**	0.25	0.85	1.7	5.1	6.1	7500	9300	10200	10200	10200	348	39600	75000
17.5	5.5	4.5	11500	0.91	662.1	IE4	**BF80Z-../S4E11SA6**	0.22	0.75	1.5	4.5	5.4	11500	11500	11500	11500	11500	363	39600	75000
17.5	5.5	4.5	11500	0.91	662.1	IE5	**BF80Z-../S5E09XA4**	0.22	0.75	1.5	4.5	5.4	8600	10500	11500	11500	11500	348	39600	75000
17.5	5.5	7.8	6600	2.8	382.6	IE4	**BF90Z-../S4E11SA6**	0.39	1.3	2.6	7.8	9.4	6600	6600	6600	6600	6600	629	42800	120000
17.5	5.5	7.8	6600	2.8	382.6	IE5	**BF90Z-../S5E09XA4**	0.39	1.3	2.6	7.8	9.4	4950	6100	6600	6600	6600	612	42800	120000
17.5	5.5	6.5	7900	2.3	456.7	IE4	**BF90Z-../S4E11SA6**	0.32	1	2.1	6.5	7.8	7900	7900	7900	7900	7900	629	42800	120000
17.5	5.5	6.5	7900	2.3	456.7	IE5	**BF90Z-../S5E09XA4**	0.32	1	2.1	6.5	7.8	5900	7300	7900	7900	7900	612	42800	120000
17.5	5.5	5.8	8800	2.1	508.5	IE4	**BF90Z-../S4E11SA6**	0.29	0.95	1.9	5.8	7	8800	8800	8800	8800	8800	629	42800	120000
17.5	5.5	5.8	8800	2.1	508.5	IE5	**BF90Z-../S5E09XA4**	0.29	0.95	1.9	5.8	7	6600	8100	8800	8800	8800	612	42800	120000
17.5	5.5	5	10300	1.8	591.1	IE4	**BF90Z-../S4E11SA6**	0.25	0.8	1.6	5	6	10300	10300	10300	10300	10300	629	42800	120000
17.5	5.5	5	10300	1.8	591.1	IE5	**BF90Z-../S5E09XA4**	0.25	0.8	1.6	5	6	7600	9400	10300	10300	10300	612	42800	120000
17.5	5.5	4.5	11500	1.6	658.1	IE4	**BF90Z-../S4E11SA6**	0.22	0.75	1.5	4.5	5.4	11500	11500	11500	11500	11500	629	42800	120000
17.5	5.5	4.5	11500	1.6	658.1	IE5	**BF90Z-../S5E09XA4**	0.22	0.75	1.5	4.5	5.4	8500	10500	11500	11500	11500	612	42800	120000
17.5	5.5	3.9	13200	1.4	759	IE4	**BF90Z-../S4E11SA6**	0.19	0.65	1.3	3.9	4.7	13200	13200	13200	13200	13200	629	42800	120000
17.5	5.5	3.9	13200	1.4	759	IE5	**BF90Z-../S5E09XA4**	0.19	0.65	1.3	3.9	4.7	9800	12100	13200	13200	13200	612	42800	120000
17.5	5.5	3.5	14700	1.3	845.1	IE4	**BF90Z-../S4E11SA6**	0.17	0.55	1.1	3.5	4.2	14700	14700	14700	14700	14700	629	42800	120000
17.5	5.5	3.5	14700	1.3	845.1	IE5	**BF90Z-../S5E09XA4**	0.17	0.55	1.1	3.5	4.2	10900	13500	14700	14700	14700	612	42800	120000
17.5	5.5	3	17000	1.1	976.1	IE4	**BF90G50-../S4E11SA6**	0.15	0.5	1	3	3.6	17000	17000	17000	17000	17000	639	42800	120000
17.5	5.5	3	17000	1.1	976.1	IE5	**BF90G50-../S5E09XA4**	0.15	0.5	1	3	3.6	12600	15600	17000	17000	17000	624	42800	120000
17.5	5.5	2.8	18200	1	1043	IE4	**BF90G50-../S4E11SA6**	0.14	0.47	0.95	2.8	3.4	18200	18200	18200	18200	18200	639	42800	120000
17.5	5.5	2.8	18200	1	1043	IE5	**BF90G50-../S5E09XA4**	0.14	0.47	0.95	2.8	3.4	13500	16600	18200	18200	18200	624	42800	120000
17.5	5.5	2.4	21000	0.88	1204	IE4	**BF90G50-../S4E11SA6**	0.12	0.41	0.8	2.4	2.9	21000	21000	21000	21000	21000	639	42800	120000
17.5	5.5	2.4	21000	0.88	1204	IE5	**BF90G50-../S5E09XA4**	0.12	0.41	0.8	2.4	2.9	15600	19200	21000	21000	21000	624	42800	120000

MN = 20 Nm (PN = 6.3 kW)



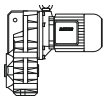
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
20	6.3	530	112	1.2	5.6	IE5	**BF10-../S5E09XA4**	26.5	89	178	530	640	72	89	112	112	98	40	1950	-
20	6.3	395	151	1	7.58	IE5	**BF10-../S5E09XA4**	19.5	65	131	395	470	98	121	151	151	132	40	2200	-
20	6.3	305	193	0.91	9.69	IE5	**BF10-../S5E09XA4**	15	51	103	305	370	125	155	193	193	169	40	2350	-
20	6.3	495	120	1.7	6.04	IE5	**BF20-../S5E09XA4**	24.5	82	165	495	590	78	96	120	120	105	46	2550	-
20	6.3	375	160	1.4	8	IE5	**BF20-../S5E09XA4**	18.5	62	125	375	450	104	128	160	160	140	46	2850	-
20	6.3	285	210	1.2	10.51	IE5	**BF20-../S5E09XA4**	14	47.5	95	285	340	136	168	210	210	183	46	3100	-

MN = 20 Nm (PN = 6.3 kW)



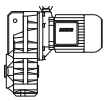
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
20	6.3	225	260	1.1	13.18	IE5	**BF20-../S5E09XA4**	11	37.5	75	225	270	171	210	260	260	230	46	3300	-
20	6.3	193	310	0.98	15.54	IE5	**BF20-../S5E09XA4**	9.6	32	64	193	230	200	245	310	310	270	46	3450	-
20	6.3	178	335	1.1	16.77	IE5	**BF20-../S5E09XA4**	8.9	29.5	59	178	210	215	265	335	335	290	46	3500	-
20	6.3	162	365	1	18.45	IE5	**BF20-../S5E09XA4**	8.1	27	54	162	195	235	295	365	365	320	46	3600	-
20	6.3	136	440	0.9	22.04	IE5	**BF20-../S5E09XA4**	6.8	22.5	45	136	163	285	350	440	440	385	46	3800	-
20	6.3	123	485	0.82	24.25	IE5	**BF20-../S5E09XA4**	6.1	20.5	41	123	148	315	385	485	485	420	46	3950	-
20	6.3	470	126	2.1	6.34	IE5	**BF30-../S5E09XA4**	23.5	78	157	470	560	82	101	126	126	110	57	2400	-
20	6.3	370	161	1.8	8.07	IE5	**BF30-../S5E09XA4**	18.5	61	123	370	445	104	129	161	161	141	57	2650	-
20	6.3	300	199	1.6	9.99	IE5	**BF30-../S5E09XA4**	15	50	100	300	360	129	159	199	199	174	57	2850	-
20	6.3	230	255	1.4	12.91	IE5	**BF30-../S5E09XA4**	11.5	38.5	77	230	275	167	205	255	255	225	57	3050	-
20	6.3	187	320	1.3	16	IE5	**BF30-../S5E09XA4**	9.3	31	62	187	225	205	255	320	320	280	57	3250	-
20	6.3	169	350	1.3	17.65	IE5	**BF30-../S5E09XA4**	8.4	28	56	169	200	225	280	350	350	305	57	3300	-
20	6.3	154	385	1.3	19.41	IE5	**BF30-../S5E09XA4**	7.7	25.5	51	154	185	250	310	385	385	335	57	3400	-
20	6.3	137	435	1.2	21.85	IE5	**BF30-../S5E09XA4**	6.8	22.5	45.5	137	164	280	345	435	435	380	57	3500	-
20	6.3	124	480	1.1	24.03	IE5	**BF30-../S5E09XA4**	6.2	20.5	41.5	124	149	310	380	480	480	420	57	3600	-
20	6.3	106	560	1	28.23	IE5	**BF30-../S5E09XA4**	5.3	17.5	35	106	127	365	450	560	560	490	57	3800	-
20	6.3	96	620	0.92	31.05	IE5	**BF30-../S5E09XA4**	4.8	16	32	96	115	400	495	620	620	540	57	4000	-
20	6.3	85	700	0.81	35	IE5	**BF30-../S5E09XA4**	4.2	14	28.5	85	102	455	560	700	700	610	57	4200	-
20	6.3	510	117	2.9	5.87	IE5	**BF40-../S5E09XA4**	25.5	85	170	510	610	76	93	117	117	102	66	3550	-
20	6.3	390	152	2.4	7.62	IE5	**BF40-../S5E09XA4**	19.5	65	131	390	470	99	121	152	152	133	66	3900	-
20	6.3	315	189	2.2	9.48	IE5	**BF40-../S5E09XA4**	15.5	52	105	315	375	123	151	189	189	165	66	4150	-
20	6.3	250	235	2	11.79	IE5	**BF40-../S5E09XA4**	12.5	42	84	250	305	153	188	235	235	205	66	4450	-
20	6.3	199	300	1.7	15.02	IE5	**BF40-../S5E09XA4**	9.9	33	66	199	235	195	240	300	300	260	66	4800	-
20	6.3	172	345	1.8	17.35	IE5	**BF40-../S5E09XA4**	8.6	28.5	57	172	205	225	275	345	345	300	66	4950	-
20	6.3	157	380	1.7	19.09	IE5	**BF40-../S5E09XA4**	7.8	26	52	157	188	245	305	380	380	330	66	5100	-
20	6.3	138	430	1.6	21.6	IE5	**BF40-../S5E09XA4**	6.9	23	46	138	166	280	345	430	430	375	66	5200	-
20	6.3	126	475	1.5	23.77	IE5	**BF40-../S5E09XA4**	6.3	21	42	126	151	305	380	475	475	415	66	5400	-
20	6.3	111	530	1.4	26.86	IE5	**BF40-../S5E09XA4**	5.5	18.5	37	111	134	345	425	530	530	470	66	5600	-
20	6.3	101	590	1.4	29.55	IE5	**BF40-../S5E09XA4**	5	16.5	33.5	101	121	380	470	590	590	510	66	5800	-
20	6.3	87	680	1.2	34.21	IE5	**BF40-../S5E09XA4**	4.3	14.5	29	87	105	440	540	680	680	590	66	6000	-
20	6.3	79	750	1.2	37.64	IE5	**BF40-../S5E09XA4**	3.9	13	26.5	79	95	485	600	750	750	650	66	6200	-
20	6.3	72	820	1.1	41.42	IE5	**BF40-../S5E09XA4**	3.6	12	24	72	86	530	660	820	820	720	66	6500	-
20	6.3	65	910	0.99	45.56	IE5	**BF40-../S5E09XA4**	3.2	10.5	21.5	65	79	590	720	910	910	790	66	6800	-
20	6.3	61	970	0.92	48.92	IE5	**BF40-../S5E09XA4**	3	10	20	61	73	630	780	970	970	850	66	7000	-
20	6.3	55	1070	0.84	53.82	IE5	**BF40-../S5E09XA4**	2.7	9.2	18.5	55	66	690	860	1070	1070	940	66	7200	-
20	6.3	200	290	2.7	14.65	IE5	**BF50-../S5E09XA4**	10	34	68	200	245	190	230	290	290	255	94	6100	-
20	6.3	129	460	2.4	23.14	IE5	**BF50-../S5E09XA4**	6.4	21.5	43	129	155	300	370	460	460	400	94	6800	-
20	6.3	115	510	2.2	25.88	IE5	**BF50-../S5E09XA4**	5.7	19	38.5	115	139	335	410	510	510	450	94	7100	-
20	6.3	94	630	2	31.73	IE5	**BF50-../S5E09XA4**	4.7	15.5	31.5	94	113	410	500	630	630	550	94	7500	-
20	6.3	84	700	1.8	35.49	IE5	**BF50-../S5E09XA4**	4.2	14	28	84	101	460	560	700	700	620	94	7800	-
20	6.3	71	840	1.5	42.15	IE5	**BF50-../S5E09XA4**	3.5	11.5	23.5	71	85	540	670	840	840	730	94	8500	-
20	6.3	63	940	1.4	47.14	IE5	**BF50-../S5E09XA4**	3.1	10.5	21	63	76	610	750	940	940	820	94	8900	-
20	6.3	52	1130	1.1	56.86	IE5	**BF50-../S5E09XA4**	2.6	8.7	17.5	52	63	730	900	1130	1130	990	94	9300	-
20	6.3	47	1270	1	63.59	IE5	**BF50-../S5E09XA4**	2.3	7.8	15.5	47	56	820	1010	1270	1270	1110	94	9800	-
20	6.3	41	1450	0.89	72.72	IE5	**BF50-../S5E09XA4**	2	6.8	13.5	41	49.5	940	1160	1450	1450	1270	94	10700	-
20	6.3	36.5	1620	0.8	81.33	IE5	**BF50-../S5E09XA4**	1.8	6.1	12	36.5	44	1050	1300	1620	1620	1420	94	11300	-
20	6.3	96	620	3	31.2	IE5	**BF60-../S5E09XA4**	4.8	16	32	96	115	405	495	620	620	540	124	8800	24900
20	6.3	86	690	2.9	34.62	IE5	**BF60-../S5E09XA4**	4.3	14	28.5	86	103	450	550	690	690	600	124	9100	25700
20	6.3	72	830	2.5	41.6	IE5	**BF60-../S5E09XA4**	3.6	12	24	72	86	540	660	830	830	720	124	9600	27100
20	6.3	64	920	2.4	46.16	IE5	**BF60-../S5E09XA4**	3.2	10.5	21.5	64	77	600	730	920	920	800	124	9900	28000
20	6.3	55	1080	2.1	54.44	IE5	**BF60-../S5E09XA4**	2.7	9.1	18	55	66	700	870	1080	1080	950	124	10500	29700
20	6.3	49.5	1200	1.9	60.4	IE5	**BF60-../S5E09XA4**	2.4	8.2	16.5	49.5	59	780	960	1200	1200	1050	124	11100	31400
20	6.3	41.5	1440	1.6	72.15	IE5	**BF60-../S5E09XA4**	2	6.9	13.5	41.5	49.5	930	1150	1440	1440	1260	124	12000	34000
20	6.3	37	1600	1.4	80.05	IE5	**BF60-../S5E09XA4**	1.8	6.2	12	37	44.5	1040	1280	1600	1600	1400	124	12600	35600
20	6.3	32	1860	1.2	93.44	IE5	**BF60-../S5E09XA4**	1.6	5.3	10.5	32	38.5	1210	1490	1860	1860	1630	124	13500	38200
20	6.3	28.5	2050	1.1	103.7	IE5	**BF60-../S5E09XA4**	1.4	4.8	9.6	28.5	34.5	1340	1650	2050	2050	1810	124	14100	39900
20	6.3	26.5	2250	1	113.1	IE5	**BF60-../S5E09XA4**	1.3	4.4	8.8	26.5	31.5	1470	1800	2250	2250	1970	124	14600	41300
20	6.3	23.5	2500	0.92	125.5	IE5	**BF60-../S5E09XA4**	1.1	3.9	7.9	23.5	28.5	1630	2000	2500	2500	2150	124	15300	43300
20	6.3	21	2800	0.82	140.8	IE5	**BF60Z-../S5E09XA4**	1	3.5	7.1	21	25.5	1830	2250	2800	2800	2450	143	15300	43300
20	6.3	31	1900	2.7	95.46	IE5	**BF70-../S5E09XA4**	1.5	5.2	10	31	37.5	1240	1520	1900	1900	1670	210	14000	43700
20	6.3	28.5	2100	2.5	105.2	IE5	**BF70-../S5E09XA4**	1.4	4.7	9.5	28.5	34	1360	1680	2100	2100	1840	210	14700	45100
20	6.3	24	2450	2.1	122.7	IE5	**BF70-../S5E09XA4**	1.2	4	8.1	24	29	1590	1960	2450	2450	2100	210	16100	47700
20	6.3	22.5	2650	2	133	IE5	**BF70Z-../S5E09XA4**	1.1	3.7	7.5	22.5	27	1720	2100	2650	2650	2300	231	16100	47700
20	6.3	19	3050	1.7	154	IE5	**BF70Z-../S5E09XA4**	0.95	3.2	6.4	19	23	2000	2450	3050	3050	2650	231	16100	47700
20	6.3	16.5	3550	1.4	179.7	IE5	**BF70Z-../S5E09XA4**	0.8	2.7	5.5	16.5	20	2300	2850	3550	3550	3100	231	16100	47700
20	6.3	15	3950	1.3	199.7	IE5	**BF70Z-../S5E09XA4**	0.75	2.5	5	15	18	2550	3150	3950	3950	3450	231	16100	47700
20	6.3	12.5	4650	1.1	233	IE5	**BF70Z-../S5E09XA4**	0.6	2.1	4.2	12.5	15	3000	3700	4650	4650	4050	231	16100	47700
20	6.3	11.5	5100	1	258.7	IE5	**BF70Z-../S5E09XA4**	0.55	1.9	3.8	11.5	13.5	3350	4100	5100	5100	4500	231	16100	47700
20	6.3	9.9	6000	0.86	301.8	IE5	**BF70Z-../S5E09XA4**	0.49	1.6	3.3	9.9	11.5	3900	4800	6000	6000	5200	231	16100	47700
20	6.3	18.5	3150	3	158.5	IE5	**BF80-../S5E09XA4**	0.9	3.1	6.3	18.5	22.5	2050	2500	3150	3150	2750	307	29000	75000
20	6.3	16	3650	2.6	184.5	IE5	**BF80-../S5E09XA4**	0.8	2.7	5.4	16	19.5	2350	2950	3650	3650	3200	307	31800	75000
20	6.3	14	4150	2.3	209.4	IE5	**BF80-../S5E09XA4**	0.7	2.3	4.7	14	17	2700	3350	4150	4150	3650	307	34300	75000
20	6.3	12.5	4700	2	237.1	IE5	**BF80-../S5E09XA4**	0.6	2.1	4.2	12.5	15	3050	3750	4700	4700	4100	307	36900	75000
20	6.3	11	5300	1.8	269.1	IE5	**BF80-../S5E09XA4**	0.55	1.8	3.7	11	13	3450	4300	5300	5300	4700	307	39600	75000
20	6.3	10	5800	1.8	291.7	IE5	**BF80Z-../S5E09XA4**	0.5	1.7	3.4	10	12	3750	4650	5800	5800	5100	348	39600	75000
20	6.3	8.6	6900	1.5	347.3	IE5	**BF80Z-../S5E09XA4**	0.43	1.4	2.8	8.6	10	4500	5500	6900	6900	6000	348	39600	75000

MN = 20 Nm (PN = 6.3 kW)



M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
20	6.3	7.6	7800	1.3	394.2	IE5	**BF80Z-../S5E09XA4**	0.38	1.2	2.5	7.6	9.1	5100	6300	7800	7800	6800	348	39600	75000
20	6.3	6.6	9000	1.2	450.4	IE5	**BF80Z-../S5E09XA4**	0.33	1.1	2.2	6.6	7.9	5800	7200	9000	9000	7800	348	39600	75000
20	6.3	5.8	10200	1	511.2	IE5	**BF80Z-../S5E09XA4**	0.29	0.95	1.9	5.8	7	6600	8100	10200	10200	8900	348	39600	75000
20	6.3	5.1	11600	0.9	583.4	IE5	**BF80Z-../S5E09XA4**	0.25	0.85	1.7	5.1	6.1	7500	9300	11600	11600	10200	348	39600	75000
20	6.3	8.7	6800	2.7	343.6	IE5	**BF90Z-../S5E09XA4**	0.43	1.4	2.9	8.7	10	4450	5400	6800	6800	6000	612	42800	120000
20	6.3	7.8	7600	2.4	382.6	IE5	**BF90Z-../S5E09XA4**	0.39	1.3	2.6	7.8	9.4	4950	6100	7600	7600	6600	612	42800	120000
20	6.3	6.5	9100	2	456.7	IE5	**BF90Z-../S5E09XA4**	0.32	1	2.1	6.5	7.8	5900	7300	9100	9100	7900	612	42800	120000
20	6.3	5.8	10100	1.8	508.5	IE5	**BF90Z-../S5E09XA4**	0.29	0.95	1.9	5.8	7	6600	8100	10100	10100	8800	612	42800	120000
20	6.3	5	11800	1.6	591.1	IE5	**BF90Z-../S5E09XA4**	0.25	0.8	1.6	5	6	7600	9400	11800	11800	10300	612	42800	120000
20	6.3	4.5	13100	1.4	658.1	IE5	**BF90Z-../S5E09XA4**	0.22	0.75	1.5	4.5	5.4	8500	10500	13100	13100	11500	612	42800	120000
20	6.3	3.9	15100	1.2	759	IE5	**BF90Z-../S5E09XA4**	0.19	0.65	1.3	3.9	4.7	9800	12100	15100	15100	13200	612	42800	120000
20	6.3	3.5	16900	1.1	845.1	IE5	**BF90Z-../S5E09XA4**	0.17	0.55	1.1	3.5	4.2	10900	13500	16900	16900	14700	612	42800	120000
20	6.3	3	19500	0.95	976.1	IE5	**BF90G50-../S5E09XA4**	0.15	0.5	1	3	3.6	12600	15600	19500	19500	17000	624	42800	120000
20	6.3	2.8	20500	0.89	1043	IE5	**BF90G50-../S5E09XA4**	0.14	0.47	0.95	2.8	3.4	13500	16600	20500	20500	18200	624	42800	120000

MN = 24 Nm (PN = 7.5 kW)

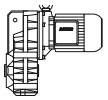


M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
24	7.5	470	152	1.7	6.34	IE4	**BF30-../S4E11SA6**	23.5	78	157	470	560	120	136	152	152	152	66	2400	-
24	7.5	470	152	1.7	6.34	IE5	**BF30-../S5E11MA6**	23.5	78	157	470	560	152	152	152	152	152	66	2400	-
24	7.5	370	193	1.5	8.07	IE4	**BF30-../S4E11SA6**	18.5	61	123	370	445	153	173	193	193	193	66	2650	-
24	7.5	370	193	1.5	8.07	IE5	**BF30-../S5E11MA6**	18.5	61	123	370	445	193	193	193	193	193	66	2650	-
24	7.5	300	235	1.3	9.99	IE4	**BF30-../S4E11SA6**	15	50	100	300	360	189	210	235	235	235	66	2850	-
24	7.5	300	235	1.3	9.99	IE5	**BF30-../S5E11MA6**	15	50	100	300	360	235	235	235	235	235	66	2850	-
24	7.5	230	305	1.2	12.91	IE4	**BF30-../S4E11SA6**	11.5	38.5	77	230	275	245	275	305	305	305	66	3050	-
24	7.5	230	305	1.2	12.91	IE5	**BF30-../S5E11MA6**	11.5	38.5	77	230	275	305	305	305	305	305	66	3050	-
24	7.5	187	380	1.1	16	IE4	**BF30-../S4E11SA6**	9.3	31	62	187	225	300	340	380	380	380	66	3250	-
24	7.5	187	380	1.1	16	IE5	**BF30-../S5E11MA6**	9.3	31	62	187	225	380	380	380	380	380	66	3250	-
24	7.5	169	420	1.1	17.65	IE4	**BF30-../S4E11SA6**	8.4	28	56	169	200	335	375	420	420	420	66	3300	-
24	7.5	169	420	1.1	17.65	IE5	**BF30-../S5E11MA6**	8.4	28	56	169	200	420	420	420	420	420	66	3300	-
24	7.5	154	465	1.1	19.41	IE4	**BF30-../S4E11SA6**	7.7	25.5	51	154	185	365	415	465	465	465	66	3400	-
24	7.5	154	465	1.1	19.41	IE5	**BF30-../S5E11MA6**	7.7	25.5	51	154	185	465	465	465	465	465	66	3400	-
24	7.5	137	520	0.99	21.85	IE4	**BF30-../S4E11SA6**	6.8	22.5	45.5	137	164	415	465	520	520	520	66	3500	-
24	7.5	137	520	0.99	21.85	IE5	**BF30-../S5E11MA6**	6.8	22.5	45.5	137	164	520	520	520	520	520	66	3500	-
24	7.5	124	570	0.95	24.03	IE4	**BF30-../S4E11SA6**	6.2	20.5	41.5	124	149	455	510	570	570	570	66	3600	-
24	7.5	124	570	0.95	24.03	IE5	**BF30-../S5E11MA6**	6.2	20.5	41.5	124	149	570	570	570	570	570	66	3600	-
24	7.5	106	670	0.84	28.23	IE4	**BF30-../S4E11SA6**	5.3	17.5	35	106	127	530	600	670	670	670	66	3800	-
24	7.5	106	670	0.84	28.23	IE5	**BF30-../S5E11MA6**	5.3	17.5	35	106	127	670	670	670	670	670	66	3800	-
24	7.5	510	140	2.4	5.87	IE4	**BF40-../S4E11SA6**	25.5	85	170	510	610	111	126	140	140	140	80	3550	-
24	7.5	510	140	2.4	5.87	IE5	**BF40-../S5E11MA6**	25.5	85	170	510	610	140	140	140	140	140	80	3550	-
24	7.5	390	182	2	7.62	IE4	**BF40-../S4E11SA6**	19.5	65	131	390	470	144	163	182	182	182	80	3900	-
24	7.5	390	182	2	7.62	IE5	**BF40-../S5E11MA6**	19.5	65	131	390	470	182	182	182	182	182	80	3900	-
24	7.5	315	225	1.8	9.48	IE4	**BF40-../S4E11SA6**	15.5	52	105	315	375	180	200	225	225	225	80	4150	-
24	7.5	315	225	1.8	9.48	IE5	**BF40-../S5E11MA6**	15.5	52	105	315	375	225	225	225	225	225	80	4150	-
24	7.5	250	280	1.6	11.79	IE4	**BF40-../S4E11SA6**	12.5	42	84	250	305	220	250	280	280	280	80	4450	-
24	7.5	250	280	1.6	11.79	IE5	**BF40-../S5E11MA6**	12.5	42	84	250	305	280	280	280	280	280	80	4450	-
24	7.5	199	360	1.4	15.02	IE4	**BF40-../S4E11SA6**	9.9	33	66	199	235	285	320	360	360	360	80	4800	-
24	7.5	199	360	1.4	15.02	IE5	**BF40-../S5E11MA6**	9.9	33	66	199	235	360	360	360	360	360	80	4800	-
24	7.5	172	415	1.5	17.35	IE4	**BF40-../S4E11SA6**	8.6	28.5	57	172	205	325	370	415	415	415	80	4950	-
24	7.5	172	415	1.5	17.35	IE5	**BF40-../S5E11MA6**	8.6	28.5	57	172	205	415	415	415	415	415	80	4950	-
24	7.5	157	455	1.4	19.09	IE4	**BF40-../S4E11SA6**	7.8	26	52	157	188	360	410	455	455	455	80	5100	-
24	7.5	157	455	1.4	19.09	IE5	**BF40-../S5E11MA6**	7.8	26	52	157	188	455	455	455	455	455	80	5100	-
24	7.5	138	510	1.4	21.6	IE4	**BF40-../S4E11SA6**	6.9	23	46	138	166	410	460	510	510	510	80	5200	-
24	7.5	138	510	1.4	21.6	IE5	**BF40-../S5E11MA6**	6.9	23	46	138	166	510	510	510	510	510	80	5200	-
24	7.5	126	570	1.3	23.77	IE4	**BF40-../S4E11SA6**	6.3	21	42	126	151	450	510	570	570	570	80	5400	-
24	7.5	126	570	1.3	23.77	IE5	**BF40-../S5E11MA6**	6.3	21	42	126	151	570	570	570	570	570	80	5400	-
24	7.5	111	640	1.2	26.86	IE4	**BF40-../S4E11SA6**	5.5	18.5	37	111	134	510	570	640	640	640	80	5600	-
24	7.5	111	640	1.2	26.86	IE5	**BF40-../S5E11MA6**	5.5	18.5	37	111	134	640	640	640	640	640	80	5600	-
24	7.5	101	700	1.1	29.55	IE4	**BF40-../S4E11SA6**	5	16.5	33.5	101	121	560	630	700	700	700	80	5800	-
24	7.5	101	700	1.1	29.55	IE5	**BF40-../S5E11MA6**	5	16.5	33.5	101	121	700	700	700	700	700	80	5800	-
24	7.5	87	820	1	34.21	IE4	**BF40-../S4E11SA6**	4.3	14.5	29	87	105	640	730	820	820	820	80	6000	-
24	7.5	87	820	1	34.21	IE5	**BF40-../S5E11MA6**	4.3	14.5	29	87	105	820	820	820	820	820	80	6000	-
24	7.5	79	900	0.99	37.64	IE4	**BF40-../S4E11SA6**	3.9	13	26.5	79	95	710	800	900	900	900	80	6200	-
24	7.5	79	900	0.99	37.64	IE5	**BF40-../S5E11MA6**	3.9	13	26.5	79	95	900	900	900	900	900	80	6200	-
24	7.5	72	990	0.91	41.42	IE4	**BF40-../S4E11SA6**	3.6	12	24	72	86	780	890	990	990	990	80	6500	-
24	7.5	72	990	0.91	41.42	IE5	**BF40-../S5E11MA6**	3.6	12	24	72	86	990	990	990	990	990	80	6500	-
24	7.5	65	1090	0.82	45.56	IE4	**BF40-../S4E11SA6**	3.2	10.5	21.5	65	79	860	970	1090	1090	1090	80	6800	-
24	7.5	65	1090	0.82	45.56	IE5	**BF40-../S5E11MA6**	3.2	10.5	21.5	65	79	1090	1090	1090	1090	1090	80	6800	-
24	7.5	385	185	3	7.71	IE4	**BF50-../S4E11SA6**	19	64	129	385	465	146	165	185	185	185	110	5100	-
24	7.5	385	185	3	7.71	IE5	**BF50-../S5E11MA6**	19	64	129	385	465	185	185	185	185	185	110	5100	-
24	7.5	280	255	2.6	10.68	IE4	**BF50-../S4E11SA6**	14	46.5	93	280	335	200	225	255	255	255	110	5600	-
24	7.5	280	255	2.6	10.68	IE5	**BF50-../S5E11MA6**	14	46.5	93	280	335	255	255	255	255	255	110	5600	-

BF-series shaft-mounted geared motors

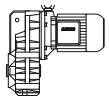
Selection - shaft-mounted geared motors - n_1 = 3000 $^1/_{min}$

MN = 24 Nm (PN = 7.5 kW)



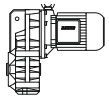
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
24	7.5	200	350	2.2	14.65	IE4	**BF50-../S4E11SA6**	10	34	68	200	245	275	310	350	350	350	110	6100	-
24	7.5	200	350	2.2	14.65	IE5	**BF50-../S5E11MA6**	10	34	68	200	245	350	350	350	350	350	110	6100	-
24	7.5	179	400	2.4	16.7	IE4	**BF50-../S4E11SA6**	8.9	29.5	59	179	215	315	355	400	400	400	110	6200	-
24	7.5	179	400	2.4	16.7	IE5	**BF50-../S5E11MA6**	8.9	29.5	59	179	215	400	400	400	400	400	110	6200	-
24	7.5	160	445	2.2	18.68	IE4	**BF50-../S4E11SA6**	8	26.5	53	160	192	350	400	445	445	445	110	6400	-
24	7.5	160	445	2.2	18.68	IE5	**BF50-../S5E11MA6**	8	26.5	53	160	192	445	445	445	445	445	110	6400	-
24	7.5	129	550	2	23.14	IE4	**BF50-../S4E11SA6**	6.4	21.5	43	129	155	435	495	550	550	550	110	6800	-
24	7.5	129	550	2	23.14	IE5	**BF50-../S5E11MA6**	6.4	21.5	43	129	155	550	550	550	550	550	110	6800	-
24	7.5	115	620	1.9	25.88	IE4	**BF50-../S4E11SA6**	5.7	19	38.5	115	139	490	550	620	620	620	110	7100	-
24	7.5	115	620	1.9	25.88	IE5	**BF50-../S5E11MA6**	5.7	19	38.5	115	139	620	620	620	620	620	110	7100	-
24	7.5	94	760	1.7	31.73	IE4	**BF50-../S4E11SA6**	4.7	15.5	31.5	94	113	600	680	760	760	760	110	7500	-
24	7.5	94	760	1.7	31.73	IE5	**BF50-../S5E11MA6**	4.7	15.5	31.5	94	113	760	760	760	760	760	110	7500	-
24	7.5	84	850	1.5	35.49	IE4	**BF50-../S4E11SA6**	4.2	14	28	84	101	670	760	850	850	850	110	7800	-
24	7.5	84	850	1.5	35.49	IE5	**BF50-../S5E11MA6**	4.2	14	28	84	101	850	850	850	850	850	110	7800	-
24	7.5	71	1010	1.3	42.15	IE4	**BF50-../S4E11SA6**	3.5	11.5	23.5	71	85	800	900	1010	1010	1010	110	8500	-
24	7.5	71	1010	1.3	42.15	IE5	**BF50-../S5E11MA6**	3.5	11.5	23.5	71	85	1010	1010	1010	1010	1010	110	8500	-
24	7.5	63	1130	1.1	47.14	IE4	**BF50-../S4E11SA6**	3.1	10.5	21	63	76	890	1010	1130	1130	1130	110	8900	-
24	7.5	63	1130	1.1	47.14	IE5	**BF50-../S5E11MA6**	3.1	10.5	21	63	76	1130	1130	1130	1130	1130	110	8900	-
24	7.5	52	1360	0.95	56.86	IE4	**BF50-../S4E11SA6**	2.6	8.7	17.5	52	63	1080	1220	1360	1360	1360	110	9300	-
24	7.5	52	1360	0.95	56.86	IE5	**BF50-../S5E11MA6**	2.6	8.7	17.5	52	63	1360	1360	1360	1360	1360	110	9300	-
24	7.5	47	1520	0.85	63.59	IE4	**BF50-../S4E11SA6**	2.3	7.8	15.5	47	56	1200	1360	1520	1520	1520	110	9800	-
24	7.5	47	1520	0.85	63.59	IE5	**BF50-../S5E11MA6**	2.3	7.8	15.5	47	56	1520	1520	1520	1520	1520	110	9800	-
24	7.5	132	540	3	22.58	IE4	**BF60-../S4E11SA6**	6.6	22	44	132	159	425	485	540	540	540	141	8000	22600
24	7.5	132	540	3	22.58	IE5	**BF60-../S5E11MA6**	6.6	22	44	132	159	540	540	540	540	540	141	8000	22600
24	7.5	119	600	2.9	25.05	IE4	**BF60-../S4E11SA6**	5.9	19.5	39.5	119	143	475	530	600	600	600	141	8200	23200
24	7.5	119	600	2.9	25.05	IE5	**BF60-../S5E11MA6**	5.9	19.5	39.5	119	143	600	600	600	600	600	141	8200	23200
24	7.5	96	740	2.5	31.2	IE4	**BF60-../S4E11SA6**	4.8	16	32	96	115	590	670	740	740	740	141	8800	24900
24	7.5	96	740	2.5	31.2	IE5	**BF60-../S5E11MA6**	4.8	16	32	96	115	740	740	740	740	740	141	8800	24900
24	7.5	86	830	2.4	34.62	IE4	**BF60-../S4E11SA6**	4.3	14	28.5	86	103	650	740	830	830	830	141	9100	25700
24	7.5	86	830	2.4	34.62	IE5	**BF60-../S5E11MA6**	4.3	14	28.5	86	103	830	830	830	830	830	141	9100	25700
24	7.5	72	990	2.1	41.6	IE4	**BF60-../S4E11SA6**	3.6	12	24	72	86	790	890	990	990	990	141	9600	27100
24	7.5	72	990	2.1	41.6	IE5	**BF60-../S5E11MA6**	3.6	12	24	72	86	990	990	990	990	990	141	9600	27100
24	7.5	64	1100	2	46.16	IE4	**BF60-../S4E11SA6**	3.2	10.5	21.5	64	77	870	990	1100	1100	1100	141	9900	28000
24	7.5	64	1100	2	46.16	IE5	**BF60-../S5E11MA6**	3.2	10.5	21.5	64	77	1100	1100	1100	1100	1100	141	9900	28000
24	7.5	55	1300	1.8	54.44	IE4	**BF60-../S4E11SA6**	2.7	9.1	18	55	66	1030	1170	1300	1300	1300	141	10500	29700
24	7.5	55	1300	1.8	54.44	IE5	**BF60-../S5E11MA6**	2.7	9.1	18	55	66	1300	1300	1300	1300	1300	141	10500	29700
24	7.5	49.5	1440	1.6	60.4	IE4	**BF60-../S4E11SA6**	2.4	8.2	16.5	49.5	59	1140	1290	1440	1440	1440	141	11100	31400
24	7.5	49.5	1440	1.6	60.4	IE5	**BF60-../S5E11MA6**	2.4	8.2	16.5	49.5	59	1440	1440	1440	1440	1440	141	11100	31400
24	7.5	41.5	1730	1.3	72.15	IE4	**BF60-../S4E11SA6**	2	6.9	13.5	41.5	49.5	1370	1550	1730	1730	1730	141	12000	34000
24	7.5	41.5	1730	1.3	72.15	IE5	**BF60-../S5E11MA6**	2	6.9	13.5	41.5	49.5	1730	1730	1730	1730	1730	141	12000	34000
24	7.5	37	1920	1.2	80.05	IE4	**BF60-../S4E11SA6**	1.8	6.2	12	37	44.5	1520	1720	1920	1920	1920	141	12600	35600
24	7.5	37	1920	1.2	80.05	IE5	**BF60-../S5E11MA6**	1.8	6.2	12	37	44.5	1920	1920	1920	1920	1920	141	12600	35600
24	7.5	32	2200	1	93.44	IE4	**BF60-../S4E11SA6**	1.6	5.3	10.5	32	38.5	1770	2000	2200	2200	2200	141	13500	38200
24	7.5	32	2200	1	93.44	IE5	**BF60-../S5E11MA6**	1.6	5.3	10.5	32	38.5	2200	2200	2200	2200	2200	141	13500	38200
24	7.5	28.5	2450	0.92	103.7	IE4	**BF60-../S4E11SA6**	1.4	4.8	9.6	28.5	34.5	1970	2200	2450	2450	2450	141	14100	39900
24	7.5	28.5	2450	0.92	103.7	IE5	**BF60-../S5E11MA6**	1.4	4.8	9.6	28.5	34.5	2450	2450	2450	2450	2450	141	14100	39900
24	7.5	26.5	2700	0.85	113.1	IE4	**BF60-../S4E11SA6**	1.3	4.4	8.8	26.5	31.5	2100	2400	2700	2700	2700	141	14600	41300
24	7.5	26.5	2700	0.85	113.1	IE5	**BF60-../S5E11MA6**	1.3	4.4	8.8	26.5	31.5	2700	2700	2700	2700	2700	141	14600	41300
24	7.5	41.5	1730	3	72.26	IE4	**BF70-../S4E11SA6**	2	6.9	13.5	41.5	49.5	1370	1550	1730	1730	1730	220	12000	39600
24	7.5	41.5	1730	3	72.26	IE5	**BF70-../S5E11MA6**	2	6.9	13.5	41.5	49.5	1730	1730	1730	1730	1730	220	12000	39600
24	7.5	36.5	1960	2.6	81.82	IE4	**BF70-../S4E11SA6**	1.8	6.1	12	36.5	43.5	1550	1750	1960	1960	1960	220	12800	41300
24	7.5	36.5	1960	2.6	81.82	IE5	**BF70-../S5E11MA6**	1.8	6.1	12	36.5	43.5	1960	1960	1960	1960	1960	220	12800	41300
24	7.5	31	2250	2.3	95.46	IE4	**BF70-../S4E11SA6**	1.5	5.2	10	31	37.5	1810	2050	2250	2250	2250	220	14000	43700
24	7.5	31	2250	2.3	95.46	IE5	**BF70-../S5E11MA6**	1.5	5.2	10	31	37.5	2250	2250	2250	2250	2250	220	14000	43700
24	7.5	28.5	2500	2.1	105.2	IE4	**BF70-../S4E11SA6**	1.4	4.7	9.5	28.5	34	1990	2250	2500	2500	2500	220	14700	45100
24	7.5	28.5	2500	2.1	105.2	IE5	**BF70-../S5E11MA6**	1.4	4.7	9.5	28.5	34	2500	2500	2500	2500	2500	220	14700	45100
24	7.5	24	2900	1.8	122.7	IE4	**BF70-../S4E11SA6**	1.2	4	8.1	24	29	2300	2600	2900	2900	2900	220	16100	47700
24	7.5	24	2900	1.8	122.7	IE5	**BF70-../S5E11MA6**	1.2	4	8.1	24	29	2900	2900	2900	2900	2900	220	16100	47700
24	7.5	22.5	3150	1.6	133	IE4	**BF70Z-../S4E11SA6**	1.1	3.7	7.5	22.5	27	2500	2850	3150	3150	3150	247	16100	47700
24	7.5	22.5	3150	1.6	133	IE5	**BF70Z-../S5E11MA6**	1.1	3.7	7.5	22.5	27	3150	3150	3150	3150	3150	247	16100	47700
24	7.5	19	3650	1.4	154	IE4	**BF70Z-../S4E11SA6**	0.95	3.2	6.4	19	23	2900	3300	3650	3650	3650	247	16100	47700
24	7.5	19	3650	1.4	154	IE5	**BF70Z-../S5E11MA6**	0.95	3.2	6.4	19	23	3650	3650	3650	3650	3650	247	16100	47700
24	7.5	16.5	4300	1.2	179.7	IE4	**BF70Z-../S4E11SA6**	0.8	2.7	5.5	16.5	20	3400	3850	4300	4300	4300	247	16100	47700
24	7.5	16.5	4300	1.2	179.7	IE5	**BF70Z-../S5E11MA6**	0.8	2.7	5.5	16.5	20	4300	4300	4300	4300	4300	247	16100	47700
24	7.5	15	4750	1.1	199.7	IE4	**BF70Z-../S4E11SA6**	0.75	2.5	5	15	18	3750	4250	4750	4750	4750	247	16100	47700
24	7.5	15	4750	1.1	199.7	IE5	**BF70Z-../S5E11MA6**	0.75	2.5	5	15	18	4750	4750	4750	4750	4750	247	16100	47700
24	7.5	12.5	5500	0.93	233	IE4	**BF70Z-../S4E11SA6**	0.6	2.1	4.2	12.5	15	4400	5000	5500	5500	5500	247	16100	47700
24	7.5	12.5	5500	0.93	233	IE5	**BF70Z-../S5E11MA6**	0.6	2.1	4.2	12.5	15	5500	5500	5500	5500	5500	247	16100	47700
24	7.5	11.5	6200	0.84	258.7	IE4	**BF70Z-../S4E11SA6**	0.55	1.9	3.8	11.5	13.5	4900	5500	6200	6200	6200	247	16100	47700
24	7.5	11.5	6200	0.84	258.7	IE5	**BF70Z-../S5E11MA6**	0.55	1.9	3.8	11.5	13.5	6200	6200	6200	6200	6200	247	16100	47700
24	7.5	21	3350	2.8	139.7	IE4	**BF80-../S4E11SA6**	1	3.5	7.1	21	25.5	2650	3000	3350	3350	3350	316	26700	75000
24	7.5	21	3350	2.8	139.7	IE5	**BF80-../S5E11MA6**	1	3.5	7.1	21	25.5	3350	3350	3350	3350	3350	316	26700	75000
24	7.5	18.5	3800	2.5	158.5	IE4	**BF80-../S4E11SA6**	0.9	3.1	6.3	18.5	22.5	3000	3400	3800	3800	3800	316	29000	75000
24	7.5	18.5	3800	2.5	158.5	IE5	**BF80-../S5E11MA6**	0.9	3.1	6.3	18.5	22.5	3800	3800	3800	3800	3800	316	29000	75000
24	7.5	16	4400	2.1	184.5	IE4	**BF80-../S4E11SA6**	0.8	2.7	5.4	16	19.5	3500	3950	4400	4400	4400	316	31800	75000
24	7.5	16	4400	2.1	184.5	IE5	**BF80-../S5E11MA6**	0.8	2.7	5.4	16	19.5	4400	4400	4400	4400	4400	316	31800	75000
24	7.5	14	5000	1.9	209.4	IE4	**BF80-../S4E11SA6**	0.7	2.3	4.7	14	17	3950	4500	5000	5000	5000	316	34300	75000
24	7.5	14	5000	1.9	209.4	IE5	**BF80-../S5E11MA6**	0.7	2.3	4.7	14	17	5000	5000	5000	5000	5000	316	34300	75000
24	7.5	12.5	5600	1.7	237.1	IE4	**BF80-../S4E11SA6**	0.6	2.1	4.2	12.5	15	4500	5000	5600	5600	5600	316	36900	75000

MN = 24 Nm (PN = 7.5 kW)



M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
24	7.5	12.5	5600	1.7	237.1	IE5	**BF80-../S5E11MA6**	0.6	2.1	4.2	12.5	15	5600	5600	5600	5600	5600	316	36900	75000
24	7.5	11	6400	1.5	269.1	IE4	**BF80-../S4E11SA6**	0.55	1.8	3.7	11	13	5100	5700	6400	6400	6400	316	39600	75000
24	7.5	11	6400	1.5	269.1	IE5	**BF80-../S5E11MA6**	0.55	1.8	3.7	11	13	6400	6400	6400	6400	6400	316	39600	75000
24	7.5	10	7000	1.5	291.7	IE4	**BF80Z-../S4E11SA6**	0.5	1.7	3.4	10	12	5500	6200	7000	7000	7000	363	39600	75000
24	7.5	10	7000	1.5	291.7	IE5	**BF80Z-../S5E11MA6**	0.5	1.7	3.4	10	12	7000	7000	7000	7000	7000	363	39600	75000
24	7.5	8.6	8300	1.3	347.3	IE4	**BF80Z-../S4E11SA6**	0.43	1.4	2.8	8.6	10	6500	7400	8300	8300	8300	363	39600	75000
24	7.5	8.6	8300	1.3	347.3	IE5	**BF80Z-../S5E11MA6**	0.43	1.4	2.8	8.6	10	8300	8300	8300	8300	8300	363	39600	75000
24	7.5	7.6	9400	1.1	394.2	IE4	**BF80Z-../S4E11SA6**	0.38	1.2	2.5	7.6	9.1	7400	8400	9400	9400	9400	363	39600	75000
24	7.5	7.6	9400	1.1	394.2	IE5	**BF80Z-../S5E11MA6**	0.38	1.2	2.5	7.6	9.1	9400	9400	9400	9400	9400	363	39600	75000
24	7.5	6.6	10800	0.97	450.4	IE4	**BF80Z-../S4E11SA6**	0.33	1.1	2.2	6.6	7.9	8500	9600	10800	10800	10800	363	39600	75000
24	7.5	6.6	10800	0.97	450.4	IE5	**BF80Z-../S5E11MA6**	0.33	1.1	2.2	6.6	7.9	10800	10800	10800	10800	10800	363	39600	75000
24	7.5	5.8	12200	0.86	511.2	IE4	**BF80Z-../S4E11SA6**	0.29	0.95	1.9	5.8	7	9700	10900	12200	12200	12200	363	39600	75000
24	7.5	5.8	12200	0.86	511.2	IE5	**BF80Z-../S5E11MA6**	0.29	0.95	1.9	5.8	7	12200	12200	12200	12200	12200	363	39600	75000
24	7.5	12.5	5500	3	232.6	IE4	**BF90-../S4E11SA6**	0.6	2.1	4.2	12.5	15	4400	5000	5500	5500	5500	569	39900	118300
24	7.5	12.5	5500	3	232.6	IE5	**BF90-../S5E11MA6**	0.6	2.1	4.2	12.5	15	5500	5500	5500	5500	5500	569	39900	118300
24	7.5	11.5	6200	2.7	259	IE4	**BF90-../S4E11SA6**	0.55	1.9	3.8	11.5	13.5	4900	5500	6200	6200	6200	569	42800	120000
24	7.5	11.5	6200	2.7	259	IE5	**BF90-../S5E11MA6**	0.55	1.9	3.8	11.5	13.5	6200	6200	6200	6200	6200	569	42800	120000
24	7.5	11	6400	2.9	269.8	IE4	**BF90Z-../S4E11SA6**	0.55	1.8	3.7	11	13	5100	5800	6400	6400	6400	629	42800	120000
24	7.5	11	6400	2.9	269.8	IE5	**BF90Z-../S5E11MA6**	0.55	1.8	3.7	11	13	6400	6400	6400	6400	6400	629	42800	120000
24	7.5	9.9	7200	2.6	300.4	IE4	**BF90Z-../S4E11SA6**	0.49	1.6	3.3	9.9	11.5	5700	6400	7200	7200	7200	629	42800	120000
24	7.5	9.9	7200	2.6	300.4	IE5	**BF90Z-../S5E11MA6**	0.49	1.6	3.3	9.9	11.5	7200	7200	7200	7200	7200	629	42800	120000
24	7.5	8.7	8200	2.2	343.6	IE4	**BF90Z-../S4E11SA6**	0.43	1.4	2.9	8.7	10	6500	7300	8200	8200	8200	629	42800	120000
24	7.5	8.7	8200	2.2	343.6	IE5	**BF90Z-../S5E11MA6**	0.43	1.4	2.9	8.7	10	8200	8200	8200	8200	8200	629	42800	120000
24	7.5	7.8	9100	2	382.6	IE4	**BF90Z-../S4E11SA6**	0.39	1.3	2.6	7.8	9.4	7200	8200	9100	9100	9100	629	42800	120000
24	7.5	7.8	9100	2	382.6	IE5	**BF90Z-../S5E11MA6**	0.39	1.3	2.6	7.8	9.4	9100	9100	9100	9100	9100	629	42800	120000
24	7.5	6.5	10900	1.7	456.7	IE4	**BF90Z-../S4E11SA6**	0.32	1	2.1	6.5	7.8	8600	9800	10900	10900	10900	629	42800	120000
24	7.5	6.5	10900	1.7	456.7	IE5	**BF90Z-../S5E11MA6**	0.32	1	2.1	6.5	7.8	10900	10900	10900	10900	10900	629	42800	120000
24	7.5	5.8	12200	1.5	508.5	IE4	**BF90Z-../S4E11SA6**	0.29	0.95	1.9	5.8	7	9600	10900	12200	12200	12200	629	42800	120000
24	7.5	5.8	12200	1.5	508.5	IE5	**BF90Z-../S5E11MA6**	0.29	0.95	1.9	5.8	7	12200	12200	12200	12200	12200	629	42800	120000
24	7.5	5	14100	1.3	591.1	IE4	**BF90Z-../S4E11SA6**	0.25	0.8	1.6	5	6	11200	12700	14100	14100	14100	629	42800	120000
24	7.5	5	14100	1.3	591.1	IE5	**BF90Z-../S5E11MA6**	0.25	0.8	1.6	5	6	14100	14100	14100	14100	14100	629	42800	120000
24	7.5	4.5	15700	1.2	658.1	IE4	**BF90Z-../S4E11SA6**	0.22	0.75	1.5	4.5	5.4	12500	14100	15700	15700	15700	629	42800	120000
24	7.5	4.5	15700	1.2	658.1	IE5	**BF90Z-../S5E11MA6**	0.22	0.75	1.5	4.5	5.4	15700	15700	15700	15700	15700	629	42800	120000
24	7.5	3.9	18200	1	759	IE4	**BF90Z-../S4E11SA6**	0.19	0.65	1.3	3.9	4.7	14400	16300	18200	18200	18200	629	42800	120000
24	7.5	3.9	18200	1	759	IE5	**BF90Z-../S5E11MA6**	0.19	0.65	1.3	3.9	4.7	18200	18200	18200	18200	18200	629	42800	120000
24	7.5	3.5	20000	0.91	845.1	IE4	**BF90Z-../S4E11SA6**	0.17	0.55	1.1	3.5	4.2	16000	18100	20000	20000	20000	629	42800	120000
24	7.5	3.5	20000	0.91	845.1	IE5	**BF90Z-../S5E11MA6**	0.17	0.55	1.1	3.5	4.2	20000	20000	20000	20000	20000	629	42800	120000

MN = 30 Nm (PN = 9.5 kW)

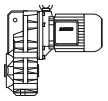


M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
30	9.5	470	190	1.4	6.34	IE5	**BF30-../S5E11LA6**	23.5	78	157	470	560	190	190	190	190	190	78	2400	-
30	9.5	470	190	1.4	6.34	IE5	**BF30-../S5E11MA6**	23.5	78	157	470	560	168	190	190	190	190	66	2400	-
30	9.5	370	240	1.2	8.07	IE5	**BF30-../S5E11LA6**	18.5	61	123	370	445	240	240	240	240	240	78	2650	-
30	9.5	370	240	1.2	8.07	IE5	**BF30-../S5E11MA6**	18.5	61	123	370	445	210	240	240	240	240	66	2650	-
30	9.5	300	295	1.1	9.99	IE5	**BF30-../S5E11LA6**	15	50	100	300	360	295	295	295	295	295	78	2850	-
30	9.5	300	295	1.1	9.99	IE5	**BF30-../S5E11MA6**	15	50	100	300	360	260	295	295	295	295	66	2850	-
30	9.5	230	385	0.94	12.91	IE5	**BF30-../S5E11LA6**	11.5	38.5	77	230	275	385	385	385	385	385	78	3050	-
30	9.5	230	385	0.94	12.91	IE5	**BF30-../S5E11MA6**	11.5	38.5	77	230	275	340	385	385	385	385	66	3050	-
30	9.5	187	480	0.84	16	IE5	**BF30-../S5E11LA6**	9.3	31	62	187	225	480	480	480	480	480	78	3250	-
30	9.5	187	480	0.84	16	IE5	**BF30-../S5E11MA6**	9.3	31	62	187	225	420	480	480	480	480	66	3250	-
30	9.5	169	520	0.9	17.65	IE5	**BF30-../S5E11LA6**	8.4	28	56	169	200	520	520	520	520	520	78	3300	-
30	9.5	169	520	0.9	17.65	IE5	**BF30-../S5E11MA6**	8.4	28	56	169	200	465	520	520	520	520	66	3300	-
30	9.5	154	580	0.86	19.41	IE5	**BF30-../S5E11LA6**	7.7	25.5	51	154	185	580	580	580	580	580	78	3400	-
30	9.5	154	580	0.86	19.41	IE5	**BF30-../S5E11MA6**	7.7	25.5	51	154	185	510	580	580	580	580	66	3400	-
30	9.5	510	176	1.9	5.87	IE5	**BF40-../S5E11LA6**	25.5	85	170	510	610	176	176	176	176	176	92	3550	-
30	9.5	510	176	1.9	5.87	IE5	**BF40-../S5E11MA6**	25.5	85	170	510	610	155	176	176	176	176	80	3550	-
30	9.5	390	225	1.6	7.62	IE5	**BF40-../S5E11LA6**	19.5	65	131	390	470	225	225	225	225	225	92	3900	-
30	9.5	390	225	1.6	7.62	IE5	**BF40-../S5E11MA6**	19.5	65	131	390	470	200	225	225	225	225	80	3900	-
30	9.5	315	280	1.5	9.48	IE5	**BF40-../S5E11LA6**	15.5	52	105	315	375	280	280	280	280	280	92	4150	-
30	9.5	315	280	1.5	9.48	IE5	**BF40-../S5E11MA6**	15.5	52	105	315	375	250	280	280	280	280	80	4150	-
30	9.5	250	350	1.3	11.79	IE5	**BF40-../S5E11LA6**	12.5	42	84	250	305	350	350	350	350	350	92	4450	-
30	9.5	250	350	1.3	11.79	IE5	**BF40-../S5E11MA6**	12.5	42	84	250	305	310	350	350	350	350	80	4450	-
30	9.5	199	450	1.2	15.02	IE5	**BF40-../S5E11LA6**	9.9	33	66	199	235	450	450	450	450	450	92	4800	-
30	9.5	199	450	1.2	15.02	IE5	**BF40-../S5E11MA6**	9.9	33	66	199	235	395	450	450	450	450	80	4800	-
30	9.5	172	520	1.2	17.35	IE5	**BF40-../S5E11LA6**	8.6	28.5	57	172	205	520	520	520	520	520	92	4950	-
30	9.5	172	520	1.2	17.35	IE5	**BF40-../S5E11MA6**	8.6	28.5	57	172	205	455	520	520	520	520	80	4950	-
30	9.5	157	570	1.2	19.09	IE5	**BF40-../S5E11LA6**	7.8	26	52	157	188	570	570	570	570	570	92	5100	-
30	9.5	157	570	1.2	19.09	IE5	**BF40-../S5E11MA6**	7.8	26	52	157	188	500	570	570	570	570	80	5100	-
30	9.5	138	640	1.1	21.6	IE5	**BF40-../S5E11LA6**	6.9	23	46	138	166	640	640	640	640	640	92	5200	-
30	9.5	138	640	1.1	21.6	IE5	**BF40-../S5E11MA6**	6.9	23	46	138	166	570	640	640	640	640	80	5200	-
30	9.5	126	710	1	23.77	IE5	**BF40-../S5E11LA6**	6.3	21	42	126	151	710	710	710	710	710	92	5400	-
30	9.5	126	710	1	23.77	IE5	**BF40-../S5E11MA6**	6.3	21	42	126	151	620	710	710	710	710	80	5400	-

BF-series shaft-mounted geared motors

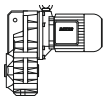
Selection - shaft-mounted geared motors - n_1 = 3000 $^1/_{min}$

MN = 30 Nm (PN = 9.5 kW)



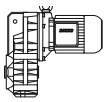
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
30	9.5	111	800	0.96	26.86	IE5	**BF40-../S5E11LA6**	5.5	18.5	37	111	134	800	800	800	800	800	92	5600	-
30	9.5	111	800	0.96	26.86	IE5	**BF40-../S5E11MA6**	5.5	18.5	37	111	134	710	800	800	800	800	80	5600	-
30	9.5	101	880	0.9	29.55	IE5	**BF40-../S5E11LA6**	5	16.5	33.5	101	121	880	880	880	880	880	92	5800	-
30	9.5	101	880	0.9	29.55	IE5	**BF40-../S5E11MA6**	5	16.5	33.5	101	121	780	880	880	880	880	80	5800	-
30	9.5	87	1020	0.83	34.21	IE5	**BF40-../S5E11LA6**	4.3	14.5	29	87	105	1020	1020	1020	1020	1020	92	6000	-
30	9.5	87	1020	0.83	34.21	IE5	**BF40-../S5E11MA6**	4.3	14.5	29	87	105	900	1020	1020	1020	1020	80	6000	-
30	9.5	385	230	2.4	7.71	IE5	**BF50-../S5E11LA6**	19	64	129	385	465	230	230	230	230	230	122	5100	-
30	9.5	385	230	2.4	7.71	IE5	**BF50-../S5E11MA6**	19	64	129	385	465	200	230	230	230	230	110	5100	-
30	9.5	280	320	2.1	10.68	IE5	**BF50-../S5E11LA6**	14	46.5	93	280	335	320	320	320	320	320	122	5600	-
30	9.5	280	320	2.1	10.68	IE5	**BF50-../S5E11MA6**	14	46.5	93	280	335	280	320	320	320	320	110	5600	-
30	9.5	200	435	1.8	14.65	IE5	**BF50-../S5E11LA6**	10	34	68	200	245	435	435	435	435	435	122	6100	-
30	9.5	200	435	1.8	14.65	IE5	**BF50-../S5E11MA6**	10	34	68	200	245	385	435	435	435	435	110	6100	-
30	9.5	179	500	1.9	16.7	IE5	**BF50-../S5E11LA6**	8.9	29.5	59	179	215	500	500	500	500	500	122	6200	-
30	9.5	179	500	1.9	16.7	IE5	**BF50-../S5E11MA6**	8.9	29.5	59	179	215	440	500	500	500	500	110	6200	-
30	9.5	160	560	1.8	18.68	IE5	**BF50-../S5E11LA6**	8	26.5	53	160	192	560	560	560	560	560	122	6400	-
30	9.5	160	560	1.8	18.68	IE5	**BF50-../S5E11MA6**	8	26.5	53	160	192	495	560	560	560	560	110	6400	-
30	9.5	129	690	1.6	23.14	IE5	**BF50-../S5E11LA6**	6.4	21.5	43	129	155	690	690	690	690	690	122	6800	-
30	9.5	129	690	1.6	23.14	IE5	**BF50-../S5E11MA6**	6.4	21.5	43	129	155	610	690	690	690	690	110	6800	-
30	9.5	115	770	1.5	25.88	IE5	**BF50-../S5E11LA6**	5.7	19	38.5	115	139	770	770	770	770	770	122	7100	-
30	9.5	115	770	1.5	25.88	IE5	**BF50-../S5E11MA6**	5.7	19	38.5	115	139	680	770	770	770	770	110	7100	-
30	9.5	94	950	1.3	31.73	IE5	**BF50-../S5E11LA6**	4.7	15.5	31.5	94	113	950	950	950	950	950	122	7500	-
30	9.5	94	950	1.3	31.73	IE5	**BF50-../S5E11MA6**	4.7	15.5	31.5	94	113	840	950	950	950	950	110	7500	-
30	9.5	84	1060	1.2	35.49	IE5	**BF50-../S5E11LA6**	4.2	14	28	84	101	1060	1060	1060	1060	1060	122	7800	-
30	9.5	84	1060	1.2	35.49	IE5	**BF50-../S5E11MA6**	4.2	14	28	84	101	940	1060	1060	1060	1060	110	7800	-
30	9.5	71	1260	1	42.15	IE5	**BF50-../S5E11LA6**	3.5	11.5	23.5	71	85	1260	1260	1260	1260	1260	122	8500	-
30	9.5	71	1260	1	42.15	IE5	**BF50-../S5E11MA6**	3.5	11.5	23.5	71	85	1110	1260	1260	1260	1260	110	8500	-
30	9.5	63	1410	0.92	47.14	IE5	**BF50-../S5E11LA6**	3.1	10.5	21	63	76	1410	1410	1410	1410	1410	122	8900	-
30	9.5	63	1410	0.92	47.14	IE5	**BF50-../S5E11MA6**	3.1	10.5	21	63	76	1240	1410	1410	1410	1410	110	8900	-
30	9.5	210	425	2.8	14.24	IE5	**BF60-../S5E11LA6**	10.5	35	70	210	250	425	425	425	425	425	153	7100	20000
30	9.5	210	425	2.8	14.24	IE5	**BF60-../S5E11MA6**	10.5	35	70	210	250	375	425	425	425	425	141	7100	20000
30	9.5	176	500	2.8	16.96	IE5	**BF60-../S5E11LA6**	8.8	29	58	176	210	500	500	500	500	500	153	7300	20600
30	9.5	176	500	2.8	16.96	IE5	**BF60-../S5E11MA6**	8.8	29	58	176	210	445	500	500	500	500	141	7300	20600
30	9.5	159	560	2.7	18.81	IE5	**BF60-../S5E11LA6**	7.9	26.5	53	159	191	560	560	560	560	560	153	7600	21500
30	9.5	159	560	2.7	18.81	IE5	**BF60-../S5E11MA6**	7.9	26.5	53	159	191	495	560	560	560	560	141	7600	21500
30	9.5	132	670	2.4	22.58	IE5	**BF60-../S5E11LA6**	6.6	22	44	132	159	670	670	670	670	670	153	8000	22600
30	9.5	132	670	2.4	22.58	IE5	**BF60-../S5E11MA6**	6.6	22	44	132	159	590	670	670	670	670	141	8000	22600
30	9.5	119	750	2.3	25.05	IE5	**BF60-../S5E11LA6**	5.9	19.5	39.5	119	143	750	750	750	750	750	153	8200	23200
30	9.5	119	750	2.3	25.05	IE5	**BF60-../S5E11MA6**	5.9	19.5	39.5	119	143	660	750	750	750	750	141	8200	23200
30	9.5	96	930	2	31.2	IE5	**BF60-../S5E11LA6**	4.8	16	32	96	115	930	930	930	930	930	153	8800	24900
30	9.5	96	930	2	31.2	IE5	**BF60-../S5E11MA6**	4.8	16	32	96	115	820	930	930	930	930	141	8800	24900
30	9.5	86	1030	1.9	34.62	IE5	**BF60-../S5E11LA6**	4.3	14	28.5	86	103	1030	1030	1030	1030	1030	153	9100	25700
30	9.5	86	1030	1.9	34.62	IE5	**BF60-../S5E11MA6**	4.3	14	28.5	86	103	910	1030	1030	1030	1030	141	9100	25700
30	9.5	72	1240	1.7	41.6	IE5	**BF60-../S5E11LA6**	3.6	12	24	72	86	1240	1240	1240	1240	1240	153	9600	27100
30	9.5	72	1240	1.7	41.6	IE5	**BF60-../S5E11MA6**	3.6	12	24	72	86	1100	1240	1240	1240	1240	141	9600	27100
30	9.5	64	1380	1.6	46.16	IE5	**BF60-../S5E11LA6**	3.2	10.5	21.5	64	77	1380	1380	1380	1380	1380	153	9900	28000
30	9.5	64	1380	1.6	46.16	IE5	**BF60-../S5E11MA6**	3.2	10.5	21.5	64	77	1220	1380	1380	1380	1380	141	9900	28000
30	9.5	55	1630	1.4	54.44	IE5	**BF60-../S5E11LA6**	2.7	9.1	18	55	66	1630	1630	1630	1630	1630	153	10500	29700
30	9.5	55	1630	1.4	54.44	IE5	**BF60-../S5E11MA6**	2.7	9.1	18	55	66	1440	1630	1630	1630	1630	141	10500	29700
30	9.5	49.5	1810	1.3	60.4	IE5	**BF60-../S5E11LA6**	2.4	8.2	16.5	49.5	59	1810	1810	1810	1810	1810	153	11100	31400
30	9.5	49.5	1810	1.3	60.4	IE5	**BF60-../S5E11MA6**	2.4	8.2	16.5	49.5	59	1600	1810	1810	1810	1810	141	11100	31400
30	9.5	41.5	2150	1.1	72.15	IE5	**BF60-../S5E11LA6**	2	6.9	13.5	41.5	49.5	2150	2150	2150	2150	2150	153	12000	34000
30	9.5	41.5	2150	1.1	72.15	IE5	**BF60-../S5E11MA6**	2	6.9	13.5	41.5	49.5	1910	2150	2150	2150	2150	141	12000	34000
30	9.5	37	2400	0.96	80.05	IE5	**BF60-../S5E11LA6**	1.8	6.2	12	37	44.5	2400	2400	2400	2400	2400	153	12600	35600
30	9.5	37	2400	0.96	80.05	IE5	**BF60-../S5E11MA6**	1.8	6.2	12	37	44.5	2100	2400	2400	2400	2400	141	12600	35600
30	9.5	32	2800	0.82	93.44	IE5	**BF60-../S5E11LA6**	1.6	5.3	10.5	32	38.5	2800	2800	2800	2800	2800	153	13500	38200
30	9.5	32	2800	0.82	93.44	IE5	**BF60-../S5E11MA6**	1.6	5.3	10.5	32	38.5	2450	2800	2800	2800	2800	141	13500	38200
30	9.5	48	1850	2.8	61.94	IE5	**BF70-../S5E11LA6**	2.4	8	16	48	58	1850	1850	1850	1850	1850	232	10800	37400
30	9.5	48	1850	2.8	61.94	IE5	**BF70-../S5E11MA6**	2.4	8	16	48	58	1640	1850	1850	1850	1850	220	10800	37400
30	9.5	41.5	2150	2.4	72.26	IE5	**BF70-../S5E11LA6**	2	6.9	13.5	41.5	49.5	2150	2150	2150	2150	2150	232	12000	39600
30	9.5	41.5	2150	2.4	72.26	IE5	**BF70-../S5E11MA6**	2	6.9	13.5	41.5	49.5	1910	2150	2150	2150	2150	220	12000	39600
30	9.5	36.5	2450	2.1	81.82	IE5	**BF70-../S5E11LA6**	1.8	6.1	12	36.5	43.5	2450	2450	2450	2450	2450	232	12800	41300
30	9.5	36.5	2450	2.1	81.82	IE5	**BF70-../S5E11MA6**	1.8	6.1	12	36.5	43.5	2150	2450	2450	2450	2450	220	12800	41300
30	9.5	31	2850	1.8	95.46	IE5	**BF70-../S5E11LA6**	1.5	5.2	10	31	37.5	2850	2850	2850	2850	2850	232	14000	43700
30	9.5	31	2850	1.8	95.46	IE5	**BF70-../S5E11MA6**	1.5	5.2	10	31	37.5	2500	2850	2850	2850	2850	220	14000	43700
30	9.5	28.5	3150	1.6	105.2	IE5	**BF70-../S5E11LA6**	1.4	4.7	9.5	28.5	34	3150	3150	3150	3150	3150	232	14700	45100
30	9.5	28.5	3150	1.6	105.2	IE5	**BF70-../S5E11MA6**	1.4	4.7	9.5	28.5	34	2750	3150	3150	3150	3150	220	14700	45100
30	9.5	24	3650	1.4	122.7	IE5	**BF70-../S5E11LA6**	1.2	4	8.1	24	29	3650	3650	3650	3650	3650	232	16100	47700
30	9.5	24	3650	1.4	122.7	IE5	**BF70-../S5E11MA6**	1.2	4	8.1	24	29	3250	3650	3650	3650	3650	220	16100	47700
30	9.5	22.5	3950	1.3	133	IE5	**BF70Z-../S5E11LA6**	1.1	3.7	7.5	22.5	27	3950	3950	3950	3950	3950	258	16100	47700
30	9.5	22.5	3950	1.3	133	IE5	**BF70Z-../S5E11MA6**	1.1	3.7	7.5	22.5	27	3500	3950	3950	3950	3950	247	16100	47700
30	9.5	19	4600	1.1	154	IE5	**BF70Z-../S5E11LA6**	0.95	3.2	6.4	19	23	4600	4600	4600	4600	4600	258	16100	47700
30	9.5	19	4600	1.1	154	IE5	**BF70Z-../S5E11MA6**	0.95	3.2	6.4	19	23	4050	4600	4600	4600	4600	247	16100	47700
30	9.5	16.5	5300	0.96	179.7	IE5	**BF70Z-../S5E11LA6**	0.8	2.7	5.5	16.5	20	5300	5300	5300	5300	5300	258	16100	47700
30	9.5	16.5	5300	0.96	179.7	IE5	**BF70Z-../S5E11MA6**	0.8	2.7	5.5	16.5	20	4750	5300	5300	5300	5300	247	16100	47700
30	9.5	15	5900	0.87	199.7	IE5	**BF70Z-../S5E11LA6**	0.75	2.5	5	15	18	5900	5900	5900	5900	5900	258	16100	47700
30	9.5	15	5900	0.87	199.7	IE5	**BF70Z-../S5E11MA6**	0.75	2.5	5	15	18	5200	5900	5900	5900	5900	247	16100	47700
30	9.5	27.5	3200	2.9	107.9	IE5	**BF80-../S5E11LA6**	1.3	4.6	9.2	27.5	33	3200	3200	3200	3200	3200	328	22400	72300
30	9.5	27.5	3200	2.9	107.9	IE5	**BF80-../S5E11MA6**	1.3	4.6	9.2	27.5	33	2850	3200	3200	3200	3200	316	22400	72300

MN = 30 Nm (PN = 9.5 kW)



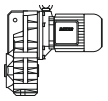
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
30	9.5	24.5	3650	2.6	122.4	IE5	**BF80-../S5E11LA6**	1.2	4	8.1	24.5	29	3650	3650	3650	3650	3650	328	24500	75000
30	9.5	24.5	3650	2.6	122.4	IE5	**BF80-../S5E11MA6**	1.2	4	8.1	24.5	29	3200	3650	3650	3650	3650	316	24500	75000
30	9.5	21	4150	2.3	139.7	IE5	**BF80-../S5E11LA6**	1	3.5	7.1	21	25.5	4150	4150	4150	4150	4150	328	26700	75000
30	9.5	21	4150	2.3	139.7	IE5	**BF80-../S5E11MA6**	1	3.5	7.1	21	25.5	3700	4150	4150	4150	4150	316	26700	75000
30	9.5	18.5	4750	2	158.5	IE5	**BF80-../S5E11LA6**	0.9	3.1	6.3	18.5	22.5	4750	4750	4750	4750	4750	328	29000	75000
30	9.5	18.5	4750	2	158.5	IE5	**BF80-../S5E11MA6**	0.9	3.1	6.3	18.5	22.5	4200	4750	4750	4750	4750	316	29000	75000
30	9.5	16	5500	1.7	184.5	IE5	**BF80-../S5E11LA6**	0.8	2.7	5.4	16	19.5	5500	5500	5500	5500	5500	328	31800	75000
30	9.5	16	5500	1.7	184.5	IE5	**BF80-../S5E11MA6**	0.8	2.7	5.4	16	19.5	4850	5500	5500	5500	5500	316	31800	75000
30	9.5	14	6200	1.5	209.4	IE5	**BF80-../S5E11LA6**	0.7	2.3	4.7	14	17	6200	6200	6200	6200	6200	328	34300	75000
30	9.5	14	6200	1.5	209.4	IE5	**BF80-../S5E11MA6**	0.7	2.3	4.7	14	17	5500	6200	6200	6200	6200	316	34300	75000
30	9.5	12.5	7100	1.3	237.1	IE5	**BF80-../S5E11LA6**	0.6	2.1	4.2	12.5	15	7100	7100	7100	7100	7100	328	36900	75000
30	9.5	12.5	7100	1.3	237.1	IE5	**BF80-../S5E11MA6**	0.6	2.1	4.2	12.5	15	6200	7100	7100	7100	7100	316	36900	75000
30	9.5	11	8000	1.2	269.1	IE5	**BF80-../S5E11LA6**	0.55	1.8	3.7	11	13	8000	8000	8000	8000	8000	328	39600	75000
30	9.5	11	8000	1.2	269.1	IE5	**BF80-../S5E11MA6**	0.55	1.8	3.7	11	13	7100	8000	8000	8000	8000	316	39600	75000
30	9.5	10	8700	1.2	291.7	IE5	**BF80Z-../S5E11LA6**	0.5	1.7	3.4	10	12	8700	8700	8700	8700	8700	375	39600	75000
30	9.5	10	8700	1.2	291.7	IE5	**BF80Z-../S5E11MA6**	0.5	1.7	3.4	10	12	7700	8700	8700	8700	8700	363	39600	75000
30	9.5	8.6	10400	1	347.3	IE5	**BF80Z-../S5E11LA6**	0.43	1.4	2.8	8.6	10	10400	10400	10400	10400	10400	375	39600	75000
30	9.5	8.6	10400	1	347.3	IE5	**BF80Z-../S5E11MA6**	0.43	1.4	2.8	8.6	10	9200	10400	10400	10400	10400	363	39600	75000
30	9.5	7.6	11800	0.89	394.2	IE5	**BF80Z-../S5E11LA6**	0.38	1.2	2.5	7.6	9.1	11800	11800	11800	11800	11800	375	39600	75000
30	9.5	7.6	11800	0.89	394.2	IE5	**BF80Z-../S5E11MA6**	0.38	1.2	2.5	7.6	9.1	10400	11800	11800	11800	11800	363	39600	75000
30	9.5	15	5900	2.8	198.8	IE5	**BF90-../S5E11LA6**	0.75	2.5	5	15	18	5900	5900	5900	5900	5900	581	36000	111300
30	9.5	15	5900	2.8	198.8	IE5	**BF90-../S5E11MA6**	0.75	2.5	5	15	18	5200	5900	5900	5900	5900	569	36000	111300
30	9.5	12.5	6900	2.4	232.6	IE5	**BF90-../S5E11LA6**	0.6	2.1	4.2	12.5	15	6900	6900	6900	6900	6900	581	39900	118300
30	9.5	12.5	6900	2.4	232.6	IE5	**BF90-../S5E11MA6**	0.6	2.1	4.2	12.5	15	6100	6900	6900	6900	6900	569	39900	118300
30	9.5	11.5	7700	2.2	259	IE5	**BF90-../S5E11LA6**	0.55	1.9	3.8	11.5	13.5	7700	7700	7700	7700	7700	581	42800	120000
30	9.5	11.5	7700	2.2	259	IE5	**BF90-../S5E11MA6**	0.55	1.9	3.8	11.5	13.5	6800	7700	7700	7700	7700	569	42800	120000
30	9.5	11	8000	2.3	269.8	IE5	**BF90Z-../S5E11LA6**	0.55	1.8	3.7	11	13	8000	8000	8000	8000	8000	641	42800	120000
30	9.5	11	8000	2.3	269.8	IE5	**BF90Z-../S5E11MA6**	0.55	1.8	3.7	11	13	7100	8000	8000	8000	8000	629	42800	120000
30	9.5	9.9	9000	2.1	300.4	IE5	**BF90Z-../S5E11LA6**	0.49	1.6	3.3	9.9	11.5	9000	9000	9000	9000	9000	641	42800	120000
30	9.5	9.9	9000	2.1	300.4	IE5	**BF90Z-../S5E11MA6**	0.49	1.6	3.3	9.9	11.5	7900	9000	9000	9000	9000	629	42800	120000
30	9.5	8.7	10300	1.8	343.6	IE5	**BF90Z-../S5E11LA6**	0.43	1.4	2.9	8.7	10	10300	10300	10300	10300	10300	641	42800	120000
30	9.5	8.7	10300	1.8	343.6	IE5	**BF90Z-../S5E11MA6**	0.43	1.4	2.9	8.7	10	9100	10300	10300	10300	10300	629	42800	120000
30	9.5	7.8	11400	1.6	382.6	IE5	**BF90Z-../S5E11LA6**	0.39	1.3	2.6	7.8	9.4	11400	11400	11400	11400	11400	641	42800	120000
30	9.5	7.8	11400	1.6	382.6	IE5	**BF90Z-../S5E11MA6**	0.39	1.3	2.6	7.8	9.4	10100	11400	11400	11400	11400	629	42800	120000
30	9.5	6.5	13700	1.4	456.7	IE5	**BF90Z-../S5E11LA6**	0.32	1	2.1	6.5	7.8	13700	13700	13700	13700	13700	641	42800	120000
30	9.5	6.5	13700	1.4	456.7	IE5	**BF90Z-../S5E11MA6**	0.32	1	2.1	6.5	7.8	12100	13700	13700	13700	13700	629	42800	120000
30	9.5	5.8	15200	1.2	508.5	IE5	**BF90Z-../S5E11LA6**	0.29	0.95	1.9	5.8	7	15200	15200	15200	15200	15200	641	42800	120000
30	9.5	5.8	15200	1.2	508.5	IE5	**BF90Z-../S5E11MA6**	0.29	0.95	1.9	5.8	7	13400	15200	15200	15200	15200	629	42800	120000
30	9.5	5	17700	1	591.1	IE5	**BF90Z-../S5E11LA6**	0.25	0.8	1.6	5	6	17700	17700	17700	17700	17700	641	42800	120000
30	9.5	5	17700	1	591.1	IE5	**BF90Z-../S5E11MA6**	0.25	0.8	1.6	5	6	15600	17700	17700	17700	17700	629	42800	120000
30	9.5	4.5	19700	0.94	658.1	IE5	**BF90Z-../S5E11LA6**	0.22	0.75	1.5	4.5	5.4	19700	19700	19700	19700	19700	641	42800	120000
30	9.5	4.5	19700	0.94	658.1	IE5	**BF90Z-../S5E11MA6**	0.22	0.75	1.5	4.5	5.4	17400	19700	19700	19700	19700	629	42800	120000
30	9.5	3.9	22500	0.81	759	IE5	**BF90Z-../S5E11LA6**	0.19	0.65	1.3	3.9	4.7	22500	22500	22500	22500	22500	641	42800	120000
30	9.5	3.9	22500	0.81	759	IE5	**BF90Z-../S5E11MA6**	0.19	0.65	1.3	3.9	4.7	20000	22500	22500	22500	22500	629	42800	120000

MN = 35 Nm (PN = 11 kW)



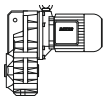
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
35	11	470	220	1.2	6.34	IE4	**BF30-../S4E11MA6**	23.5	78	157	470	560	168	190	220	220	220	66	2400	-
35	11	470	220	1.2	6.34	IE5	**BF30-../S5E11LA6**	23.5	78	157	470	560	220	220	220	220	220	78	2400	-
35	11	370	280	1	8.07	IE4	**BF30-../S4E11MA6**	18.5	61	123	370	445	210	240	280	280	280	66	2650	-
35	11	370	280	1	8.07	IE5	**BF30-../S5E11LA6**	18.5	61	123	370	445	280	280	280	280	280	78	2650	-
35	11	300	345	0.92	9.99	IE4	**BF30-../S4E11MA6**	15	50	100	300	360	260	295	345	345	345	66	2850	-
35	11	300	345	0.92	9.99	IE5	**BF30-../S5E11LA6**	15	50	100	300	360	345	345	345	345	345	78	2850	-
35	11	230	450	0.81	12.91	IE4	**BF30-../S4E11MA6**	11.5	38.5	77	230	275	340	385	450	450	450	66	3050	-
35	11	230	450	0.81	12.91	IE5	**BF30-../S5E11LA6**	11.5	38.5	77	230	275	450	450	450	450	450	78	3050	-
35	11	510	205	1.6	5.87	IE4	**BF40-../S4E11MA6**	25.5	85	170	510	610	155	176	205	205	205	80	3550	-
35	11	510	205	1.6	5.87	IE5	**BF40-../S5E11LA6**	25.5	85	170	510	610	205	205	205	205	205	92	3550	-
35	11	390	265	1.4	7.62	IE4	**BF40-../S4E11MA6**	19.5	65	131	390	470	200	225	265	265	265	80	3900	-
35	11	390	265	1.4	7.62	IE5	**BF40-../S5E11LA6**	19.5	65	131	390	470	265	265	265	265	265	92	3900	-
35	11	315	330	1.3	9.48	IE4	**BF40-../S4E11MA6**	15.5	52	105	315	375	250	280	330	330	330	80	4150	-
35	11	315	330	1.3	9.48	IE5	**BF40-../S5E11LA6**	15.5	52	105	315	375	330	330	330	330	330	92	4150	-
35	11	250	410	1.1	11.79	IE4	**BF40-../S4E11MA6**	12.5	42	84	250	305	310	350	410	410	410	80	4450	-
35	11	250	410	1.1	11.79	IE5	**BF40-../S5E11LA6**	12.5	42	84	250	305	410	410	410	410	410	92	4450	-
35	11	199	520	0.99	15.02	IE4	**BF40-../S4E11MA6**	9.9	33	66	199	235	395	450	520	520	520	80	4800	-
35	11	199	520	0.99	15.02	IE5	**BF40-../S5E11LA6**	9.9	33	66	199	235	520	520	520	520	520	92	4800	-
35	11	172	600	1	17.35	IE4	**BF40-../S4E11MA6**	8.6	28.5	57	172	205	455	520	600	600	600	80	4950	-
35	11	172	600	1	17.35	IE5	**BF40-../S5E11LA6**	8.6	28.5	57	172	205	600	600	600	600	600	92	4950	-
35	11	157	660	0.99	19.09	IE4	**BF40-../S4E11MA6**	7.8	26	52	157	188	500	570	660	660	660	80	5100	-
35	11	157	660	0.99	19.09	IE5	**BF40-../S5E11LA6**	7.8	26	52	157	188	660	660	660	660	660	92	5100	-
35	11	138	750	0.93	21.6	IE4	**BF40-../S4E11MA6**	6.9	23	46	138	166	570	640	750	750	750	80	5200	-
35	11	138	750	0.93	21.6	IE5	**BF40-../S5E11LA6**	6.9	23	46	138	166	750	750	750	750	750	92	5200	-
35	11	126	830	0.88	23.77	IE4	**BF40-../S4E11MA6**	6.3	21	42	126	151	620	710	830	830	830	80	5400	-

MN = 35 Nm (PN = 11 kW)



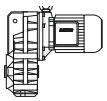
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
35	11	126	830	0.88	23.77	IE5	**BF40-../S5E11LA6**	6.3	21	42	126	151	830	830	830	830	830	92	5400	-
35	11	111	940	0.82	26.86	IE4	**BF40-../S4E11MA6**	5.5	18.5	37	111	134	710	800	940	940	940	80	5600	-
35	11	111	940	0.82	26.86	IE5	**BF40-../S5E11LA6**	5.5	18.5	37	111	134	940	940	940	940	940	92	5600	-
35	11	550	188	2.6	5.38	IE4	**BF50-../S4E11MA6**	27.5	92	185	550	660	142	161	188	188	188	110	4500	-
35	11	550	188	2.6	5.38	IE5	**BF50-../S5E11LA6**	27.5	92	185	550	660	188	188	188	188	188	122	4500	-
35	11	385	265	2.1	7.71	IE4	**BF50-../S4E11MA6**	19	64	129	385	465	200	230	265	265	265	110	5100	-
35	11	385	265	2.1	7.71	IE5	**BF50-../S5E11LA6**	19	64	129	385	465	265	265	265	265	265	122	5100	-
35	11	280	370	1.8	10.68	IE4	**BF50-../S4E11MA6**	14	46.5	93	280	335	280	320	370	370	370	110	5600	-
35	11	280	370	1.8	10.68	IE5	**BF50-../S5E11LA6**	14	46.5	93	280	335	370	370	370	370	370	122	5600	-
35	11	200	510	1.5	14.65	IE4	**BF50-../S4E11MA6**	10	34	68	200	245	385	435	510	510	510	110	6100	-
35	11	200	510	1.5	14.65	IE5	**BF50-../S5E11LA6**	10	34	68	200	245	510	510	510	510	510	122	6100	-
35	11	179	580	1.6	16.7	IE4	**BF50-../S4E11MA6**	8.9	29.5	59	179	215	440	500	580	580	580	110	6200	-
35	11	179	580	1.6	16.7	IE5	**BF50-../S5E11LA6**	8.9	29.5	59	179	215	580	580	580	580	580	122	6200	-
35	11	160	650	1.5	18.68	IE4	**BF50-../S4E11MA6**	8	26.5	53	160	192	495	560	650	650	650	110	6400	-
35	11	160	650	1.5	18.68	IE5	**BF50-../S5E11LA6**	8	26.5	53	160	192	650	650	650	650	650	122	6400	-
35	11	129	800	1.4	23.14	IE4	**BF50-../S4E11MA6**	6.4	21.5	43	129	155	610	690	800	800	800	110	6800	-
35	11	129	800	1.4	23.14	IE5	**BF50-../S5E11LA6**	6.4	21.5	43	129	155	800	800	800	800	800	122	6800	-
35	11	115	900	1.3	25.88	IE4	**BF50-../S4E11MA6**	5.7	19	38.5	115	139	680	770	900	900	900	110	7100	-
35	11	115	900	1.3	25.88	IE5	**BF50-../S5E11LA6**	5.7	19	38.5	115	139	900	900	900	900	900	122	7100	-
35	11	94	1110	1.1	31.73	IE4	**BF50-../S4E11MA6**	4.7	15.5	31.5	94	113	840	950	1110	1110	1110	110	7500	-
35	11	94	1110	1.1	31.73	IE5	**BF50-../S5E11LA6**	4.7	15.5	31.5	94	113	1110	1110	1110	1110	1110	122	7500	-
35	11	84	1240	1	35.49	IE4	**BF50-../S4E11MA6**	4.2	14	28	84	101	940	1060	1240	1240	1240	110	7800	-
35	11	84	1240	1	35.49	IE5	**BF50-../S5E11LA6**	4.2	14	28	84	101	1240	1240	1240	1240	1240	122	7800	-
35	11	71	1470	0.88	42.15	IE4	**BF50-../S4E11MA6**	3.5	11.5	23.5	71	85	1110	1260	1470	1470	1470	110	8500	-
35	11	71	1470	0.88	42.15	IE5	**BF50-../S5E11LA6**	3.5	11.5	23.5	71	85	1470	1470	1470	1470	1470	122	8500	-
35	11	290	360	2.8	10.31	IE4	**BF60-../S4E11MA6**	14.5	48	96	290	345	270	305	360	360	360	141	6500	18400
35	11	290	360	2.8	10.31	IE5	**BF60-../S5E11LA6**	14.5	48	96	290	345	360	360	360	360	360	153	6500	18400
35	11	210	495	2.4	14.24	IE4	**BF60-../S4E11MA6**	10.5	35	70	210	250	375	425	495	495	495	141	7100	20000
35	11	210	495	2.4	14.24	IE5	**BF60-../S5E11LA6**	10.5	35	70	210	250	495	495	495	495	495	153	7100	20000
35	11	176	590	2.4	16.96	IE4	**BF60-../S4E11MA6**	8.8	29	58	176	210	445	500	590	590	590	141	7300	20600
35	11	176	590	2.4	16.96	IE5	**BF60-../S5E11LA6**	8.8	29	58	176	210	590	590	590	590	590	153	7300	20600
35	11	159	650	2.3	18.81	IE4	**BF60-../S4E11MA6**	7.9	26.5	53	159	191	495	560	650	650	650	141	7600	21500
35	11	159	650	2.3	18.81	IE5	**BF60-../S5E11LA6**	7.9	26.5	53	159	191	650	650	650	650	650	153	7600	21500
35	11	132	790	2.1	22.58	IE4	**BF60-../S4E11MA6**	6.6	22	44	132	159	590	670	790	790	790	141	8000	22600
35	11	132	790	2.1	22.58	IE5	**BF60-../S5E11LA6**	6.6	22	44	132	159	790	790	790	790	790	153	8000	22600
35	11	119	870	2	25.05	IE4	**BF60-../S4E11MA6**	5.9	19.5	39.5	119	143	660	750	870	870	870	141	8200	23200
35	11	119	870	2	25.05	IE5	**BF60-../S5E11LA6**	5.9	19.5	39.5	119	143	870	870	870	870	870	153	8200	23200
35	11	96	1090	1.7	31.2	IE4	**BF60-../S4E11MA6**	4.8	16	32	96	115	820	930	1090	1090	1090	141	8800	24900
35	11	96	1090	1.7	31.2	IE5	**BF60-../S5E11LA6**	4.8	16	32	96	115	1090	1090	1090	1090	1090	153	8800	24900
35	11	86	1210	1.6	34.62	IE4	**BF60-../S4E11MA6**	4.3	14	28.5	86	103	910	1030	1210	1210	1210	141	9100	25700
35	11	86	1210	1.6	34.62	IE5	**BF60-../S5E11LA6**	4.3	14	28.5	86	103	1210	1210	1210	1210	1210	153	9100	25700
35	11	72	1450	1.4	41.6	IE4	**BF60-../S4E11MA6**	3.6	12	24	72	86	1100	1240	1450	1450	1450	141	9600	27100
35	11	72	1450	1.4	41.6	IE5	**BF60-../S5E11LA6**	3.6	12	24	72	86	1450	1450	1450	1450	1450	153	9600	27100
35	11	64	1610	1.4	46.16	IE4	**BF60-../S4E11MA6**	3.2	10.5	21.5	64	77	1220	1380	1610	1610	1610	141	9900	28000
35	11	64	1610	1.4	46.16	IE5	**BF60-../S5E11LA6**	3.2	10.5	21.5	64	77	1610	1610	1610	1610	1610	153	9900	28000
35	11	55	1900	1.2	54.44	IE4	**BF60-../S4E11MA6**	2.7	9.1	18	55	66	1440	1630	1900	1900	1900	141	10500	29700
35	11	55	1900	1.2	54.44	IE5	**BF60-../S5E11LA6**	2.7	9.1	18	55	66	1900	1900	1900	1900	1900	153	10500	29700
35	11	49.5	2100	1.1	60.4	IE4	**BF60-../S4E11MA6**	2.4	8.2	16.5	49.5	59	1600	1810	2100	2100	2100	141	11100	31400
35	11	49.5	2100	1.1	60.4	IE5	**BF60-../S5E11LA6**	2.4	8.2	16.5	49.5	59	2100	2100	2100	2100	2100	153	11100	31400
35	11	41.5	2500	0.91	72.15	IE4	**BF60-../S4E11MA6**	2	6.9	13.5	41.5	49.5	1910	2150	2500	2500	2500	141	12000	34000
35	11	41.5	2500	0.91	72.15	IE5	**BF60-../S5E11LA6**	2	6.9	13.5	41.5	49.5	2500	2500	2500	2500	2500	153	12000	34000
35	11	37	2800	0.82	80.05	IE4	**BF60-../S4E11MA6**	1.8	6.2	12	37	44.5	2100	2400	2800	2800	2800	141	12600	35600
35	11	37	2800	0.82	80.05	IE5	**BF60-../S5E11LA6**	1.8	6.2	12	37	44.5	2800	2800	2800	2800	2800	153	12600	35600
35	11	53	1950	2.7	55.79	IE4	**BF70-../S4E11MA6**	2.6	8.9	17.5	53	64	1470	1670	1950	1950	1950	220	10200	36000
35	11	53	1950	2.7	55.79	IE5	**BF70-../S5E11LA6**	2.6	8.9	17.5	53	64	1950	1950	1950	1950	1950	232	10200	36000
35	11	48	2150	2.4	61.94	IE4	**BF70-../S4E11MA6**	2.4	8	16	48	58	1640	1850	2150	2150	2150	220	10800	37400
35	11	48	2150	2.4	61.94	IE5	**BF70-../S5E11LA6**	2.4	8	16	48	58	2150	2150	2150	2150	2150	232	10800	37400
35	11	41.5	2500	2.1	72.26	IE4	**BF70-../S4E11MA6**	2	6.9	13.5	41.5	49.5	1910	2150	2500	2500	2500	220	12000	39600
35	11	41.5	2500	2.1	72.26	IE5	**BF70-../S5E11LA6**	2	6.9	13.5	41.5	49.5	2500	2500	2500	2500	2500	232	12000	39600
35	11	36.5	2850	1.8	81.82	IE4	**BF70-../S4E11MA6**	1.8	6.1	12	36.5	43.5	2150	2450	2850	2850	2850	220	12800	41300
35	11	36.5	2850	1.8	81.82	IE5	**BF70-../S5E11LA6**	1.8	6.1	12	36.5	43.5	2850	2850	2850	2850	2850	232	12800	41300
35	11	31	3300	1.6	95.46	IE4	**BF70-../S4E11MA6**	1.5	5.2	10	31	37.5	2500	2850	3300	3300	3300	220	14000	43700
35	11	31	3300	1.6	95.46	IE5	**BF70-../S5E11LA6**	1.5	5.2	10	31	37.5	3300	3300	3300	3300	3300	232	14000	43700
35	11	28.5	3650	1.4	105.2	IE4	**BF70-../S4E11MA6**	1.4	4.7	9.5	28.5	34	2750	3150	3650	3650	3650	220	14700	45100
35	11	28.5	3650	1.4	105.2	IE5	**BF70-../S5E11LA6**	1.4	4.7	9.5	28.5	34	3650	3650	3650	3650	3650	232	14700	45100
35	11	24	4250	1.2	122.7	IE4	**BF70-../S4E11MA6**	1.2	4	8.1	24	29	3250	3650	4250	4250	4250	220	16100	47700
35	11	24	4250	1.2	122.7	IE5	**BF70-../S5E11LA6**	1.2	4	8.1	24	29	4250	4250	4250	4250	4250	232	16100	47700
35	11	22.5	4650	1.1	133	IE4	**BF70Z-../S4E11MA6**	1.1	3.7	7.5	22.5	27	3500	3950	4650	4650	4650	247	16100	47700
35	11	22.5	4650	1.1	133	IE5	**BF70Z-../S5E11LA6**	1.1	3.7	7.5	22.5	27	4650	4650	4650	4650	4650	258	16100	47700
35	11	19	5300	0.96	154	IE4	**BF70Z-../S4E11MA6**	0.95	3.2	6.4	19	23	4050	4600	5300	5300	5300	247	16100	47700
35	11	19	5300	0.96	154	IE5	**BF70Z-../S5E11LA6**	0.95	3.2	6.4	19	23	5300	5300	5300	5300	5300	258	16100	47700
35	11	16.5	6200	0.83	179.7	IE4	**BF70Z-../S4E11MA6**	0.8	2.7	5.5	16.5	20	4750	5300	6200	6200	6200	247	16100	47700
35	11	16.5	6200	0.83	179.7	IE5	**BF70Z-../S5E11LA6**	0.8	2.7	5.5	16.5	20	6200	6200	6200	6200	6200	258	16100	47700
35	11	31.5	3300	2.9	94.38	IE4	**BF80-../S4E11MA6**	1.5	5.2	10.5	31.5	38	2500	2800	3300	3300	3300	316	20300	68500
35	11	31.5	3300	2.9	94.38	IE5	**BF80-../S5E11LA6**	1.5	5.2	10.5	31.5	38	3300	3300	3300	3300	3300	328	20300	68500
35	11	27.5	3750	2.5	107.9	IE4	**BF80-../S4E11MA6**	1.3	4.6	9.2	27.5	33	2850	3200	3750	3750	3750	316	22400	72300
35	11	27.5	3750	2.5	107.9	IE5	**BF80-../S5E11LA6**	1.3	4.6	9.2	27.5	33	3750	3750	3750	3750	3750	328	22400	72300
35	11	24.5	4250	2.2	122.4	IE4	**BF80-../S4E11MA6**	1.2	4	8.1	24.5	29	3200	3650	4250	4250	4250	316	24500	75000

MN = 35 Nm (PN = 11 kW)



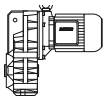
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
35	11	24.5	4250	2.2	122.4	IE5	**BF80-../S5E11LA6**	1.2	4	8.1	24.5	29	4250	4250	4250	4250	4250	328	24500	75000
35	11	21	4850	1.9	139.7	IE4	**BF80-../S4E11MA6**	1	3.5	7.1	21	25.5	3700	4150	4850	4850	4850	316	26700	75000
35	11	21	4850	1.9	139.7	IE5	**BF80-../S5E11LA6**	1	3.5	7.1	21	25.5	4850	4850	4850	4850	4850	328	26700	75000
35	11	18.5	5500	1.7	158.5	IE4	**BF80-../S4E11MA6**	0.9	3.1	6.3	18.5	22.5	4200	4750	5500	5500	5500	316	29000	75000
35	11	18.5	5500	1.7	158.5	IE5	**BF80-../S5E11LA6**	0.9	3.1	6.3	18.5	22.5	5500	5500	5500	5500	5500	328	29000	75000
35	11	16	6400	1.5	184.5	IE4	**BF80-../S4E11MA6**	0.8	2.7	5.4	16	19.5	4850	5500	6400	6400	6400	316	31800	75000
35	11	16	6400	1.5	184.5	IE5	**BF80-../S5E11LA6**	0.8	2.7	5.4	16	19.5	6400	6400	6400	6400	6400	328	31800	75000
35	11	14	7300	1.3	209.4	IE4	**BF80-../S4E11MA6**	0.7	2.3	4.7	14	17	5500	6200	7300	7300	7300	316	34300	75000
35	11	14	7300	1.3	209.4	IE5	**BF80-../S5E11LA6**	0.7	2.3	4.7	14	17	7300	7300	7300	7300	7300	328	34300	75000
35	11	12.5	8200	1.1	237.1	IE4	**BF80-../S4E11MA6**	0.6	2.1	4.2	12.5	15	6200	7100	8200	8200	8200	316	36900	75000
35	11	12.5	8200	1.1	237.1	IE5	**BF80-../S5E11LA6**	0.6	2.1	4.2	12.5	15	8200	8200	8200	8200	8200	328	36900	75000
35	11	11	9400	1	269.1	IE4	**BF80-../S4E11MA6**	0.55	1.8	3.7	11	13	7100	8000	9400	9400	9400	316	39600	75000
35	11	11	9400	1	269.1	IE5	**BF80-../S5E11LA6**	0.55	1.8	3.7	11	13	9400	9400	9400	9400	9400	328	39600	75000
35	11	10	10200	1	291.7	IE4	**BF80Z-../S4E11MA6**	0.5	1.7	3.4	10	12	7700	8700	10200	10200	10200	363	39600	75000
35	11	10	10200	1	291.7	IE5	**BF80Z-../S5E11LA6**	0.5	1.7	3.4	10	12	10200	10200	10200	10200	10200	375	39600	75000
35	11	8.6	12100	0.86	347.3	IE4	**BF80Z-../S4E11MA6**	0.43	1.4	2.8	8.6	10	9200	10400	12100	12100	12100	363	39600	75000
35	11	8.6	12100	0.86	347.3	IE5	**BF80Z-../S5E11LA6**	0.43	1.4	2.8	8.6	10	12100	12100	12100	12100	12100	375	39600	75000
35	11	16.5	6200	2.7	178.6	IE4	**BF90-../S4E11MA6**	0.8	2.7	5.5	16.5	20	4700	5300	6200	6200	6200	569	33400	106700
35	11	16.5	6200	2.7	178.6	IE5	**BF90-../S5E11LA6**	0.8	2.7	5.5	16.5	20	6200	6200	6200	6200	6200	581	33400	106700
35	11	15	6900	2.4	198.8	IE4	**BF90-../S4E11MA6**	0.75	2.5	5	15	18	5200	5900	6900	6900	6900	569	36000	111300
35	11	15	6900	2.4	198.8	IE5	**BF90-../S5E11LA6**	0.75	2.5	5	15	18	6900	6900	6900	6900	6900	581	36000	111300
35	11	12.5	8100	2.1	232.6	IE4	**BF90-../S4E11MA6**	0.6	2.1	4.2	12.5	15	6100	6900	8100	8100	8100	569	39900	118300
35	11	12.5	8100	2.1	232.6	IE5	**BF90-../S5E11LA6**	0.6	2.1	4.2	12.5	15	8100	8100	8100	8100	8100	581	39900	118300
35	11	11.5	9000	1.9	259	IE4	**BF90-../S4E11MA6**	0.55	1.9	3.8	11.5	13.5	6800	7700	9000	9000	9000	569	42800	120000
35	11	11.5	9000	1.9	259	IE5	**BF90-../S5E11LA6**	0.55	1.9	3.8	11.5	13.5	9000	9000	9000	9000	9000	581	42800	120000
35	11	11	9400	2	269.8	IE4	**BF90Z-../S4E11MA6**	0.55	1.8	3.7	11	13	7100	8000	9400	9400	9400	629	42800	120000
35	11	11	9400	2	269.8	IE5	**BF90Z-../S5E11LA6**	0.55	1.8	3.7	11	13	9400	9400	9400	9400	9400	641	42800	120000
35	11	9.9	10500	1.8	300.4	IE4	**BF90Z-../S4E11MA6**	0.49	1.6	3.3	9.9	11.5	7900	9000	10500	10500	10500	629	42800	120000
35	11	9.9	10500	1.8	300.4	IE5	**BF90Z-../S5E11LA6**	0.49	1.6	3.3	9.9	11.5	10500	10500	10500	10500	10500	641	42800	120000
35	11	8.7	12000	1.5	343.6	IE4	**BF90Z-../S4E11MA6**	0.43	1.4	2.9	8.7	10	9100	10300	12000	12000	12000	629	42800	120000
35	11	8.7	12000	1.5	343.6	IE5	**BF90Z-../S5E11LA6**	0.43	1.4	2.9	8.7	10	12000	12000	12000	12000	12000	641	42800	120000
35	11	7.8	13300	1.4	382.6	IE4	**BF90Z-../S4E11MA6**	0.39	1.3	2.6	7.8	9.4	10100	11400	13300	13300	13300	629	42800	120000
35	11	7.8	13300	1.4	382.6	IE5	**BF90Z-../S5E11LA6**	0.39	1.3	2.6	7.8	9.4	13300	13300	13300	13300	13300	641	42800	120000
35	11	6.5	15900	1.2	456.7	IE4	**BF90Z-../S4E11MA6**	0.32	1	2.1	6.5	7.8	12100	13700	15900	15900	15900	629	42800	120000
35	11	6.5	15900	1.2	456.7	IE5	**BF90Z-../S5E11LA6**	0.32	1	2.1	6.5	7.8	15900	15900	15900	15900	15900	641	42800	120000
35	11	5.8	17700	1	508.5	IE4	**BF90Z-../S4E11MA6**	0.29	0.95	1.9	5.8	7	13400	15200	17700	17700	17700	629	42800	120000
35	11	5.8	17700	1	508.5	IE5	**BF90Z-../S5E11LA6**	0.29	0.95	1.9	5.8	7	17700	17700	17700	17700	17700	641	42800	120000
35	11	5	20500	0.89	591.1	IE4	**BF90Z-../S4E11MA6**	0.25	0.8	1.6	5	6	15600	17700	20500	20500	20500	629	42800	120000
35	11	5	20500	0.89	591.1	IE5	**BF90Z-../S5E11LA6**	0.25	0.8	1.6	5	6	20500	20500	20500	20500	20500	641	42800	120000
35	11	4.5	23000	0.8	658.1	IE4	**BF90Z-../S4E11MA6**	0.22	0.75	1.5	4.5	5.4	17400	19700	23000	23000	23000	629	42800	120000
35	11	4.5	23000	0.8	658.1	IE5	**BF90Z-../S5E11LA6**	0.22	0.75	1.5	4.5	5.4	23000	23000	23000	23000	23000	641	42800	120000

MN = 48 Nm (PN = 15 kW)

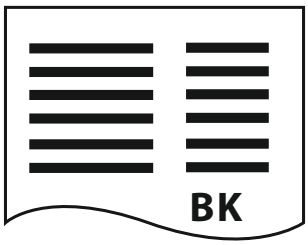


M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
48	15	470	300	0.86	6.34	IE5	**BF30-../S5E11LA6**	23.5	78	157	470	560	220	250	300	300	250	78	2400	-
48	15	510	280	1.2	5.87	IE5	**BF40-../S5E11LA6**	25.5	85	170	510	610	205	230	280	280	230	92	3550	-
48	15	390	365	1	7.62	IE5	**BF40-../S5E11LA6**	19.5	65	131	390	470	265	300	365	365	300	92	3900	-
48	15	315	455	0.91	9.48	IE5	**BF40-../S5E11LA6**	15.5	52	105	315	375	330	375	455	455	375	92	4150	-
48	15	250	560	0.82	11.79	IE5	**BF40-../S5E11LA6**	12.5	42	84	250	305	410	470	560	560	470	92	4450	-
48	15	550	255	1.9	5.38	IE5	**BF50-../S5E11LA6**	27.5	92	185	550	660	188	215	255	255	215	122	4500	-
48	15	385	370	1.5	7.71	IE5	**BF50-../S5E11LA6**	19	64	129	385	465	265	305	370	370	305	122	5100	-
48	15	280	510	1.3	10.68	IE5	**BF50-../S5E11LA6**	14	46.5	93	280	335	370	425	510	510	425	122	5600	-
48	15	200	700	1.1	14.65	IE5	**BF50-../S5E11LA6**	10	34	68	200	245	510	580	700	700	580	122	6100	-
48	15	179	800	1.2	16.7	IE5	**BF50-../S5E11LA6**	8.9	29.5	59	179	215	580	660	800	800	660	122	6200	-
48	15	160	890	1.1	18.68	IE5	**BF50-../S5E11LA6**	8	26.5	53	160	192	650	740	890	890	740	122	6400	-
48	15	129	1110	0.99	23.14	IE5	**BF50-../S5E11LA6**	6.4	21.5	43	129	155	800	920	1110	1110	920	122	6800	-
48	15	115	1240	0.93	25.88	IE5	**BF50-../S5E11LA6**	5.7	19	38.5	115	139	900	1030	1240	1240	1030	122	7100	-
48	15	94	1520	0.83	31.73	IE5	**BF50-../S5E11LA6**	4.7	15.5	31.5	94	113	1110	1260	1520	1520	1260	122	7500	-
48	15	570	250	3	5.22	IE5	**BF60-../S5E11LA6**	28.5	95	191	570	680	182	205	250	250	205	153	5200	14800
48	15	385	370	2.3	7.74	IE5	**BF60-../S5E11LA6**	19	64	129	385	465	270	305	370	370	305	153	6000	16900
48	15	290	490	2	10.31	IE5	**BF60-../S5E11LA6**	14.5	48	96	290	345	360	410	490	490	410	153	6500	18400
48	15	210	680	1.7	14.24	IE5	**BF60-../S5E11LA6**	10.5	35	70	210	250	495	560	680	680	560	153	7100	20000
48	15	176	810	1.8	16.96	IE5	**BF60-../S5E11LA6**	8.8	29	58	176	210	590	670	810	810	670	153	7300	20600
48	15	159	900	1.7	18.81	IE5	**BF60-../S5E11LA6**	7.9	26.5	53	159	191	650	750	900	900	750	153	7600	21500
48	15	132	1080	1.5	22.58	IE5	**BF60-../S5E11LA6**	6.6	22	44	132	159	790	900	1080	1080	900	153	8000	22600
48	15	119	1200	1.4	25.05	IE5	**BF60-../S5E11LA6**	5.9	19.5	39.5	119	143	870	1000	1200	1200	1000	153	8200	23200
48	15	96	1490	1.3	31.2	IE5	**BF60-../S5E11LA6**	4.8	16	32	96	115	1090	1240	1490	1490	1240	153	8800	24900
48	15	86	1660	1.2	34.62	IE5	**BF60-../S5E11LA6**	4.3	14	28.5	86	103	1210	1380	1660	1660	1380	153	9100	25700
48	15	72	1990	1.1	41.6	IE5	**BF60-../S5E11LA6**	3.6	12	24	72	86	1450	1660	1990	1990	1660	153	9600	27100
48	15	64	2200	0.99	46.16	IE5	**BF60-../S5E11LA6**	3.2	10.5	21.5	64	77	1610	1840	2200	2200	1840	153	9900	28000

MN = 48 Nm (PN = 15 kW)



M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
48	15	55	2600	0.88	54.44	IE5	**BF60-../S5E11LA6**	2.7	9.1	18	55	66	1900	2150	2600	2600	2150	153	10500	29700
48	15	81	1770	2.9	36.88	IE5	**BF70-../S5E11LA6**	4	13.5	27	81	97	1290	1470	1770	1770	1470	232	7900	31100
48	15	69	2050	2.5	43.02	IE5	**BF70-../S5E11LA6**	3.4	11.5	23	69	83	1500	1720	2050	2050	1720	232	8700	32800
48	15	62	2250	2.3	47.82	IE5	**BF70-../S5E11LA6**	3.1	10	20.5	62	75	1670	1910	2250	2250	1910	232	9100	34000
48	15	53	2650	1.9	55.79	IE5	**BF70-../S5E11LA6**	2.6	8.9	17.5	53	64	1950	2200	2650	2650	2200	232	10200	36000
48	15	48	2950	1.7	61.94	IE5	**BF70-../S5E11LA6**	2.4	8	16	48	58	2150	2450	2950	2950	2450	232	10800	37400
48	15	41.5	3450	1.5	72.26	IE5	**BF70-../S5E11LA6**	2	6.9	13.5	41.5	49.5	2500	2850	3450	3450	2850	232	12000	39600
48	15	36.5	3900	1.3	81.82	IE5	**BF70-../S5E11LA6**	1.8	6.1	12	36.5	43.5	2850	3250	3900	3900	3250	232	12800	41300
48	15	31	4550	1.1	95.46	IE5	**BF70-../S5E11LA6**	1.5	5.2	10	31	37.5	3300	3800	4550	4550	3800	232	14000	43700
48	15	28.5	5000	1	105.2	IE5	**BF70-../S5E11LA6**	1.4	4.7	9.5	28.5	34	3650	4200	5000	5000	4200	232	14700	45100
48	15	24	5800	0.88	122.7	IE5	**BF70-../S5E11LA6**	1.2	4	8.1	24	29	4250	4900	5800	5800	4900	232	16100	47700
48	15	22.5	6300	0.81	133	IE5	**BF70Z-../S5E11LA6**	1.1	3.7	7.5	22.5	27	4650	5300	6300	6300	5300	258	16100	47700
48	15	42.5	3350	2.8	69.86	IE5	**BF80-../S5E11LA6**	2.1	7.1	14	42.5	51	2400	2750	3350	3350	2750	328	15900	60600
48	15	36	3950	2.4	83.16	IE5	**BF80-../S5E11LA6**	1.8	6	12	36	43	2900	3300	3950	3950	3300	328	18400	65100
48	15	31.5	4500	2.1	94.38	IE5	**BF80-../S5E11LA6**	1.5	5.2	10.5	31.5	38	3300	3750	4500	4500	3750	328	20300	68500
48	15	27.5	5100	1.8	107.9	IE5	**BF80-../S5E11LA6**	1.3	4.6	9.2	27.5	33	3750	4300	5100	5100	4300	328	22400	72300
48	15	24.5	5800	1.6	122.4	IE5	**BF80-../S5E11LA6**	1.2	4	8.1	24.5	29	4250	4850	5800	5800	4850	328	24500	75000
48	15	21	6700	1.4	139.7	IE5	**BF80-../S5E11LA6**	1	3.5	7.1	21	25.5	4850	5500	6700	6700	5500	328	26700	75000
48	15	18.5	7600	1.2	158.5	IE5	**BF80-../S5E11LA6**	0.9	3.1	6.3	18.5	22.5	5500	6300	7600	7600	6300	328	29000	75000
48	15	16	8800	1.1	184.5	IE5	**BF80-../S5E11LA6**	0.8	2.7	5.4	16	19.5	6400	7300	8800	8800	7300	328	31800	75000
48	15	14	10000	0.95	209.4	IE5	**BF80-../S5E11LA6**	0.7	2.3	4.7	14	17	7300	8300	10000	10000	8300	328	34300	75000
48	15	12.5	11300	0.83	237.1	IE5	**BF80-../S5E11LA6**	0.6	2.1	4.2	12.5	15	8200	9400	11300	11300	9400	328	36900	75000
48	15	25	5700	2.9	119.7	IE5	**BF90-../S5E11LA6**	1.2	4.1	8.3	25	30	4150	4750	5700	5700	4750	581	24500	90800
48	15	21.5	6600	2.5	139.1	IE5	**BF90-../S5E11LA6**	1	3.5	7.1	21.5	25.5	4850	5500	6600	6600	5500	581	27700	96300
48	15	19	7400	2.3	154.8	IE5	**BF90-../S5E11LA6**	0.95	3.2	6.4	19	23	5400	6100	7400	7400	6100	581	30100	100800
48	15	16.5	8500	2	178.6	IE5	**BF90-../S5E11LA6**	0.8	2.7	5.5	16.5	20	6200	7100	8500	8500	7100	581	33400	106700
48	15	15	9500	1.8	198.8	IE5	**BF90-../S5E11LA6**	0.75	2.5	5	15	18	6900	7900	9500	9500	7900	581	36000	111300
48	15	12.5	11100	1.5	232.6	IE5	**BF90-../S5E11LA6**	0.6	2.1	4.2	12.5	15	8100	9300	11100	11100	9300	581	39900	118300
48	15	11.5	12400	1.4	259	IE5	**BF90-../S5E11LA6**	0.55	1.9	3.8	11.5	13.5	9000	10300	12400	12400	10300	581	42800	120000
48	15	11	12900	1.4	269.8	IE5	**BF90Z-../S5E11LA6**	0.55	1.8	3.7	11	13	9400	10700	12900	12900	10700	641	42800	120000
48	15	9.9	14400	1.3	300.4	IE5	**BF90Z-../S5E11LA6**	0.49	1.6	3.3	9.9	11.5	10500	12000	14400	14400	12000	641	42800	120000
48	15	8.7	16400	1.1	343.6	IE5	**BF90Z-../S5E11LA6**	0.43	1.4	2.9	8.7	10	12000	13700	16400	16400	13700	641	42800	120000
48	15	7.8	18300	1	382.6	IE5	**BF90Z-../S5E11LA6**	0.39	1.3	2.6	7.8	9.4	13300	15300	18300	18300	15300	641	42800	120000
48	15	6.5	21500	0.84	456.7	IE5	**BF90Z-../S5E11LA6**	0.32	1	2.1	6.5	7.8	15900	18200	21500	21500	18200	641	42800	120000



8

BK-series bevel-geared motors - Selection

Description of bevel-gear units 209
Sizes 209
Bauer service factors (f_B) for bevel-geared motors 209
Continuous operation without switching frequency Z ≤1/h 209
Switching duty 209
Bauer Service factor 209
Explanation of shock classification 210
Key to abbreviations 210
Selection tables, bevel-geared motors 210
Selection - bevel geared motors - n_1 = 1500 $^1/_{min}$ 211
Selection - bevel geared motors - n_1 = 3000 $^1/_{min}$ 233

Sizes

Bauer BK-series bevel-geared motors are normally supplied in ten frame sizes and with torques of 80 to 18,500 Nm. Higher torques are available on request. The gear unit is accommodated in a sturdy cast housing

Bauer service factors (f_B) for bevel-geared motors

Of the numerous factors influencing the total loading of a gear unit, the most important include:

- Mean torque (rated torque)
- Daily operating hours
- Severity of torque peaks (shock classification)
- Frequency of torque peaks (switching duty)

These factors can be represented in a simplified and practical manner by service factors. The tables and explanations below attempt to provide an objective description of the shock classification, rather than a classification of the driven machinery. Experience has shown that, in addition to the torque shocks caused by the driven machinery (M_x/M_N), above all the power transmission components (clutches, chains etc.) plus the mass ratios play a decisive role in this.

See Bauer special imprint SD32 for more information.

Continuous operation without switching frequency Z ≤1/h

Factor f_1 for shock classification and operating time

Shock classification	Operating hours per day t_d	>4 h	>8 h	>16 h
		≤8 h	≤16 h	≤24 h
I		0.8	1.0	1.2
II		1.05	1.25	1.45
III		1.45	1.55	1.7

Switching duty

Factor f_2 for shock classification and switching frequency

Switching frequency in single- shift operation t_d ≤8 h/d

Shock classification	1 <Z ≤100	100 <Z ≤1000	1000 <Z
I	0.95	1.1	1.15
II	1.2	1,35	1.4
III	1.55	1.6	1.6

Switching frequency in multiple- shift operation t_d >8 h/d

Shock classification	1 <Z ≤100	100 <Z ≤1000	1000 <Z
I	1.3	1.45	1.5
II	1.5	1.6	1.65
III	1.75	1.8	1.8

Bauer Service factor

Bauer service factor $f_B = f_1$ or $f_B = f_2$

For example: Shock classification II for Z = 100 switching operations per hour and multiple-shift operation yields a service factor $f_B = f_2 = 1.5$

Explanation of shock classification

Shock classification I:
Uniform without shock loads. All the following requirements must be satisfied:
- FI ≤1.3
- M_x/M_N ≤1.0
- Shock-absorbing power transmission components (e.g. highly resilient, zero-play coupling, φ N ≥5°)

Shock classification II:
Moderate shock loads. At least one of the following conditions applies:
- 1.3 <FI ≤4
- 1 <M_x/M_N ≤1.6
- Shock-neutral power transmission components (e.g. gear wheels, zero- playrigid coupling or resilient coupling with φ N <5°)

Shock classification III:
Heavy shock loads. At least one of the following conditions applies:
- FI >4
- 1.6 <M_x/M_N ≤2.0
- Shock-amplifying power transmission components (e.g. coupling with play or chain drive)

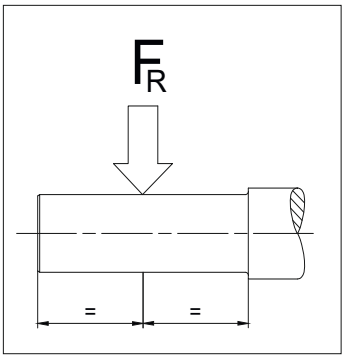
Key to abbreviations

Z	Switching duty number of switching operations per hour
t_d	Daily operating time in hours (h/d)
FI	Factor of inertia FI = (J_{ext} + J_{rot})/J_{rot}
J_{ext}	Mass moment of inertia of the machine to be driven, in relation to the motor's rotor shaft (kgm²)
J_{rot}	Mass moment of inertia of the motor rotor (kgm²)
M_x	Highest impact torque above the static torque which can occur during normal operation or in emergency situations
M_N	Required static load torque for the application
M_x/M_N	Relative torque - Factor
φ N	Torsional offset of the resilient coupling under rated torque

Selection tables, bevel-geared motors

Key to abbreviations

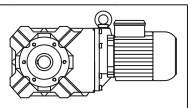
P	Rated output
n_2	Rated speed of the output shaft
i	Gear reduction ratio
M_2	Rated torque at the output shaft
f_B	Bauer service factor
F_{RN}	Maximum permissible radial force with normal bearings
F_{RV}	Maximum permissible radial force with reinforced bearings in each case with standard solid shaft (Code -.1 and -.2)



Use the selection tables to determine the size of geared motor required. The codes clearly define the Type of gear unit and output shaft (see chapter 12 "dimensional drawing bevel-geared motors").

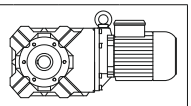
Motor power overload protection
Motor-power ratings, particularly in conjunction with four-stage and multi-stage gear units, are more than ample in some instances. Consequently, and in much the same way as with low-power motors, rated current is not a measure of gear loading and cannot be used to protect the gear unit against overloading. It is advisable to provide gears at risk from excessive load or blockage with a protective mechanism (e. g., slip clutch, slip hub, shear pin or an alternative).

MN = 0.76 Nm (PN = 12 kW)



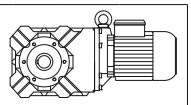
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
0.76	12	31	32	2.5	47.78	IE4	**BK06-../S4E04SA4-1**	3.1	10	20.5	31	37.5	32	32	32	32	32	7.6	1500	-
0.76	12	27.5	36.5	1.8	54.38	IE4	**BK06-../S4E04SA4-1**	2.7	9.1	18	27.5	33	36.5	36.5	36.5	36.5	36.5	7.6	1600	-
0.76	12	23.5	42.5	1.5	63.33	IE4	**BK06-../S4E04SA4-1**	2.3	7.8	15.5	23.5	28	42.5	42.5	42.5	42.5	42.5	7.6	1700	-
0.76	12	12	77	1.8	120.3	IE4	**BK10Z-../S4E04SA4-1**	1.2	4.1	8.3	12	14.5	77	77	77	77	77	21	7000	-
0.76	12	10	91	1.8	143.2	IE4	**BK10Z-../S4E04SA4-1**	1	3.4	6.9	10	12.5	91	91	91	91	91	21	7000	-
0.76	12	8.7	107	1.9	170.6	IE4	**BK10Z-../S4E04SA4-1**	0.85	2.9	5.8	8.7	10.5	107	107	107	107	107	21	7000	-
0.76	12	7.3	127	1.6	204.7	IE4	**BK10Z-../S4E04SA4-1**	0.7	2.4	4.8	7.3	8.7	127	127	127	127	127	21	7000	-
0.76	12	5.8	160	1.2	257.9	IE4	**BK10Z-../S4E04SA4-1**	0.55	1.9	3.8	5.8	6.9	160	160	160	160	160	21	7000	-
0.76	12	4.9	186	0.99	302.4	IE4	**BK10Z-../S4E04SA4-1**	0.49	1.6	3.3	4.9	5.9	186	186	186	186	186	21	7000	-
0.76	12	4.3	210	1	343.2	IE4	**BK10G06-../S4E04SA4-1**	0.43	1.4	2.9	4.3	5.2	210	210	210	210	210	25	7000	-
0.76	12	3.6	250	0.87	410.8	IE4	**BK10G06-../S4E04SA4-1**	0.36	1.2	2.4	3.6	4.3	250	250	250	250	250	25	7000	-
0.76	12	8.6	109	3	173.4	IE4	**BK20Z-../S4E04SA4-1**	0.85	2.8	5.7	8.6	10	109	109	109	109	109	31	8700	9000
0.76	12	7.2	129	2.6	207.5	IE4	**BK20Z-../S4E04SA4-1**	0.7	2.4	4.8	7.2	8.6	129	129	129	129	129	31	8700	9000
0.76	12	5.7	161	2	259.9	IE4	**BK20Z-../S4E04SA4-1**	0.55	1.9	3.8	5.7	6.9	161	161	161	161	161	31	8700	9000
0.76	12	5	183	1.7	298.2	IE4	**BK20Z-../S4E04SA4-1**	0.5	1.6	3.3	5	6	183	183	183	183	183	31	8700	9000
0.76	12	4	220	1.3	367.7	IE4	**BK20Z-../S4E04SA4-1**	0.4	1.3	2.7	4	4.8	220	220	220	220	220	31	8700	9000
0.76	12	4.1	220	1.6	359.1	IE4	**BK20G06-../S4E04SA4-1**	0.41	1.3	2.7	4.1	5	220	220	220	220	220	34	8700	9000
0.76	12	3.4	260	1.4	429.7	IE4	**BK20G06-../S4E04SA4-1**	0.34	1.1	2.3	3.4	4.1	260	260	260	260	260	34	8700	9000
0.76	12	3.1	290	1.2	480.4	IE4	**BK20G06-../S4E04SA4-1**	0.31	1	2	3.1	3.7	290	290	290	290	290	34	8700	9000
0.76	12	2.8	315	1.1	524.5	IE4	**BK20G06-../S4E04SA4-1**	0.28	0.95	1.9	2.8	3.4	315	315	315	315	315	34	8700	9000
0.76	12	2.3	375	0.95	630	IE4	**BK20G06-../S4E04SA4-1**	0.23	0.75	1.5	2.3	2.8	375	375	375	375	375	34	8700	9000
0.76	12	1.9	450	0.8	757	IE4	**BK20G06-../S4E04SA4-1**	0.19	0.65	1.3	1.9	2.3	450	450	450	450	450	34	8700	9000
0.76	12	3.1	285	1.7	471.5	IE4	**BK30G06-../S4E04SA4-1**	0.31	1	2.1	3.1	3.8	285	285	285	285	285	40	11200	12000
0.76	12	2.6	340	1.4	567	IE4	**BK30G06-../S4E04SA4-1**	0.26	0.85	1.7	2.6	3.1	340	340	340	340	340	40	11200	12000
0.76	12	2.2	390	1.2	652.5	IE4	**BK30G06-../S4E04SA4-1**	0.22	0.75	1.5	2.2	2.7	390	390	390	390	390	40	11200	12000
0.76	12	2	440	1.1	743	IE4	**BK30G06-../S4E04SA4-1**	0.2	0.65	1.3	2	2.4	440	440	440	440	440	40	11200	12000
0.76	12	1.8	480	1	810.9	IE4	**BK30G06-../S4E04SA4-1**	0.18	0.6	1.2	1.8	2.2	480	480	480	480	480	40	11200	12000
0.76	12	1.5	560	0.87	954.1	IE4	**BK30G06-../S4E04SA4-1**	0.15	0.5	1	1.5	1.8	560	560	560	560	560	40	11200	12000

MN = 1 Nm (PN = 0.157 kW)



M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
1	0.157	45	29.5	2.7	33.33	IE2	**BK06-../SHE04SA4-1**	4.5	15	30	45	54	22.5	25	29.5	29.5	29.5	7.6	1320	-
1	0.157	39	34	2.3	38.18	IE2	**BK06-../SHE04SA4-1**	3.9	13	26	39	47	26	29	34	34	34	7.6	1380	-
1	0.157	31	42.5	1.9	47.78	IE2	**BK06-../SHE04SA4-1**	3.1	10	20.5	31	37.5	32	36	42.5	42.5	42.5	7.6	1500	-
1	0.157	27.5	48	1.4	54.38	IE2	**BK06-../SHE04SA4-1**	2.7	9.1	18	27.5	33	36.5	41	48	48	48	7.6	1600	-
1	0.157	23.5	56	1.1	63.33	IE2	**BK06-../SHE04SA4-1**	2.3	7.8	15.5	23.5	28	42.5	47.5	56	56	56	7.6	1700	-
1	0.157	12	102	1.3	120.3	IE2	**BK10Z-../SHE04SA4-1**	1.2	4.1	8.3	12	14.5	77	86	102	102	102	21	7000	-
1	0.157	10	120	1.4	143.2	IE2	**BK10Z-../SHE04SA4-1**	1	3.4	6.9	10	12.5	91	102	120	120	120	21	7000	-
1	0.157	8.7	141	1.4	170.6	IE2	**BK10Z-../SHE04SA4-1**	0.85	2.9	5.8	8.7	10.5	107	120	141	141	141	21	7000	-
1	0.157	7.3	167	1.2	204.7	IE2	**BK10Z-../SHE04SA4-1**	0.7	2.4	4.8	7.3	8.7	127	142	167	167	167	21	7000	-
1	0.157	5.8	210	0.95	257.9	IE2	**BK10Z-../SHE04SA4-1**	0.55	1.9	3.8	5.8	6.9	160	179	210	210	210	21	7000	-
1	0.157	15	83	2.8	96.99	IE2	**BK20Z-../SHE04SA4-1**	1.5	5.1	10	15	18.5	63	70	83	83	83	31	8700	9000
1	0.157	10	121	2.7	144.5	IE2	**BK20Z-../SHE04SA4-1**	1	3.4	6.9	10	12	92	103	121	121	121	31	8700	9000
1	0.157	8.6	143	2.3	173.4	IE2	**BK20Z-../SHE04SA4-1**	0.85	2.8	5.7	8.6	10	109	122	143	143	143	31	8700	9000
1	0.157	7.2	170	1.9	207.5	IE2	**BK20Z-../SHE04SA4-1**	0.7	2.4	4.8	7.2	8.6	129	144	170	170	170	31	8700	9000
1	0.157	5.7	210	1.5	259.9	IE2	**BK20Z-../SHE04SA4-1**	0.55	1.9	3.8	5.7	6.9	161	181	210	210	210	31	8700	9000
1	0.157	5	240	1.3	298.2	IE2	**BK20Z-../SHE04SA4-1**	0.5	1.6	3.3	5	6	183	205	240	240	240	31	8700	9000
1	0.157	4	290	0.99	367.7	IE2	**BK20Z-../SHE04SA4-1**	0.4	1.3	2.7	4	4.8	220	250	290	290	290	31	8700	9000
1	0.157	4.1	290	1.2	359.1	IE2	**BK20G06-../SHE04SA4-1**	0.41	1.3	2.7	4.1	5	220	245	290	290	290	34	8700	9000
1	0.157	3.4	345	1	429.7	IE2	**BK20G06-../SHE04SA4-1**	0.34	1.1	2.3	3.4	4.1	260	290	345	345	345	34	8700	9000
1	0.157	3.1	385	0.93	480.4	IE2	**BK20G06-../SHE04SA4-1**	0.31	1	2	3.1	3.7	290	325	385	385	385	34	8700	9000
1	0.157	2.8	415	0.86	524.5	IE2	**BK20G06-../SHE04SA4-1**	0.28	0.95	1.9	2.8	3.4	315	355	415	415	415	34	8700	9000
1	0.157	3.1	375	1.3	471.5	IE2	**BK30G06-../SHE04SA4-1**	0.31	1	2.1	3.1	3.8	285	320	375	375	375	40	11200	12000
1	0.157	2.6	450	1.1	567	IE2	**BK30G06-../SHE04SA4-1**	0.26	0.85	1.7	2.6	3.1	340	380	450	450	450	40	11200	12000
1	0.157	2.2	510	0.95	652.5	IE2	**BK30G06-../SHE04SA4-1**	0.22	0.75	1.5	2.2	2.7	390	435	510	510	510	40	11200	12000
1	0.157	2	580	0.84	743	IE2	**BK30G06-../SHE04SA4-1**	0.2	0.65	1.3	2	2.4	440	495	580	580	580	40	11200	12000

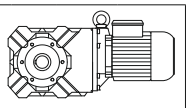
MN = 1.3 Nm (PN = 0.2 kW)



M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
1.3	0.2	56	30.5	2.6	26.36	IE5	**BK06-../S5E06MA4**	5.6	18.5	37.5	56	68	30.5	30.5	30.5	30.5	30.5	11	1230	-
1.3	0.2	45	38.5	2.1	33.33	IE5	**BK06-../S5E06MA4**	4.5	15	30	45	54	38.5	38.5	38.5	38.5	38.5	11	1320	-

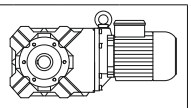
8

MN = 1.3 Nm (PN = 0.2 kW)



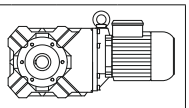
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
1.3	0.2	39	44.5	1.8	38.18	IE5	**BK06-../S5E06MA4**	3.9	13	26	39	47	44.5	44.5	44.5	44.5	44.5	11	1380	-
1.3	0.2	31	55	1.4	47.78	IE5	**BK06-../S5E06MA4**	3.1	10	20.5	31	37.5	55	55	55	55	55	11	1500	-
1.3	0.2	27.5	62	1.1	54.38	IE5	**BK06-../S5E06MA4**	2.7	9.1	18	27.5	33	62	62	62	62	62	11	1600	-
1.3	0.2	23.5	73	0.87	63.33	IE5	**BK06-../S5E06MA4**	2.3	7.8	15.5	23.5	28	73	73	73	73	73	11	1700	-
1.3	0.2	24	71	2.8	61.68	IE5	**BK10-../S5E06MA4**	2.4	8.1	16	24	29	71	71	71	71	71	23	7000	-
1.3	0.2	20.5	82	2.4	72.31	IE5	**BK10-../S5E06MA4**	2	6.9	13.5	20.5	24.5	82	82	82	82	82	23	7000	-
1.3	0.2	16.5	100	1.8	89.3	IE5	**BK10-../S5E06MA4**	1.6	5.5	11	16.5	20	100	100	100	100	100	23	7000	-
1.3	0.2	14.5	113	1.4	102.5	IE5	**BK10-../S5E06MA4**	1.4	4.8	9.7	14.5	17.5	113	113	113	113	113	23	7000	-
1.3	0.2	12	132	1	120.3	IE5	**BK10Z-../S5E06MA4**	1.2	4.1	8.3	12	14.5	132	132	132	132	132	24	7000	-
1.3	0.2	10	156	1	143.2	IE5	**BK10Z-../S5E06MA4**	1	3.4	6.9	10	12.5	156	156	156	156	156	24	7000	-
1.3	0.2	8.7	184	1.1	170.6	IE5	**BK10Z-../S5E06MA4**	0.85	2.9	5.8	8.7	10.5	184	184	184	184	184	24	7000	-
1.3	0.2	7.3	215	0.92	204.7	IE5	**BK10Z-../S5E06MA4**	0.7	2.4	4.8	7.3	8.7	215	215	215	215	215	24	7000	-
1.3	0.2	13.5	121	2.6	108.6	IE5	**BK20-../S5E06MA4**	1.3	4.6	9.2	13.5	16.5	121	121	121	121	121	33	8700	9000
1.3	0.2	15	108	2.1	96.99	IE5	**BK20Z-../S5E06MA4**	1.5	5.1	10	15	18.5	108	108	108	108	108	34	8700	9000
1.3	0.2	12	137	2.4	124.2	IE5	**BK20Z-../S5E06MA4**	1.2	4	8	12	14	137	137	137	137	137	34	8700	9000
1.3	0.2	10	157	2.1	144.5	IE5	**BK20Z-../S5E06MA4**	1	3.4	6.9	10	12	157	157	157	157	157	34	8700	9000
1.3	0.2	8.6	187	1.8	173.4	IE5	**BK20Z-../S5E06MA4**	0.85	2.8	5.7	8.6	10	187	187	187	187	187	34	8700	9000
1.3	0.2	7.2	220	1.5	207.5	IE5	**BK20Z-../S5E06MA4**	0.7	2.4	4.8	7.2	8.6	220	220	220	220	220	34	8700	9000
1.3	0.2	5.7	275	1.2	259.9	IE5	**BK20Z-../S5E06MA4**	0.55	1.9	3.8	5.7	6.9	275	275	275	275	275	34	8700	9000
1.3	0.2	5	310	0.99	298.2	IE5	**BK20Z-../S5E06MA4**	0.5	1.6	3.3	5	6	310	310	310	310	310	34	8700	9000
1.3	0.2	4.1	375	0.95	359.1	IE5	**BK20G06-../S5E06MA4**	0.41	1.3	2.7	4.1	5	375	375	375	375	375	38	8700	9000
1.3	0.2	3.4	445	0.8	429.7	IE5	**BK20G06-../S5E06MA4**	0.34	1.1	2.3	3.4	4.1	445	445	445	445	445	38	8700	9000
1.3	0.2	10	158	2.8	145.1	IE5	**BK30Z-../S5E06MA4**	1	3.4	6.8	10	12	158	158	158	158	158	41	11200	12000
1.3	0.2	8.1	199	2.3	184.8	IE5	**BK30Z-../S5E06MA4**	0.8	2.7	5.4	8.1	9.7	199	199	199	199	199	41	11200	12000
1.3	0.2	6.9	230	1.9	216.5	IE5	**BK30Z-../S5E06MA4**	0.65	2.3	4.6	6.9	8.3	230	230	230	230	230	41	11200	12000
1.3	0.2	5.8	270	1.7	255.3	IE5	**BK30Z-../S5E06MA4**	0.55	1.9	3.9	5.8	7	270	270	270	270	270	41	11200	12000
1.3	0.2	4.8	325	1.2	308.3	IE5	**BK30Z-../S5E06MA4**	0.48	1.6	3.2	4.8	5.8	325	325	325	325	325	41	11200	12000
1.3	0.2	3.9	400	1	380.7	IE5	**BK30Z-../S5E06MA4**	0.39	1.3	2.6	3.9	4.7	400	400	400	400	400	41	11200	12000
1.3	0.2	3.3	455	0.83	441.3	IE5	**BK30Z-../S5E06MA4**	0.33	1.1	2.2	3.3	4	455	455	455	455	455	41	11200	12000
1.3	0.2	3.1	490	1	471.5	IE5	**BK30G06-../S5E06MA4**	0.31	1	2.1	3.1	3.8	490	490	490	490	490	44	11200	12000
1.3	0.2	2.6	580	0.84	567	IE5	**BK30G06-../S5E06MA4**	0.26	0.85	1.7	2.6	3.1	580	580	580	580	580	44	11200	12000
1.3	0.2	6	255	3	246.6	IE5	**BK40Z-../S5E06MA4**	0.6	2	4	6	7.2	255	255	255	255	255	64	11700	17000
1.3	0.2	5.1	305	2.2	289.8	IE5	**BK40Z-../S5E06MA4**	0.5	1.7	3.4	5.1	6.2	305	305	305	305	305	64	11700	17000
1.3	0.2	4.3	365	1.6	348.7	IE5	**BK40Z-../S5E06MA4**	0.43	1.4	2.8	4.3	5.1	365	365	365	365	365	64	11700	17000
1.3	0.2	3.4	445	1.3	430	IE5	**BK40Z-../S5E06MA4**	0.34	1.1	2.3	3.4	4.1	445	445	445	445	445	64	11700	17000
1.3	0.2	3	500	1.7	487.3	IE5	**BK40G10-../S5E06MA4**	0.3	1	2	3	3.6	500	500	500	500	500	68	11700	17000
1.3	0.2	2.7	550	1.5	540	IE5	**BK40G10-../S5E06MA4**	0.27	0.9	1.8	2.7	3.3	550	550	550	550	550	68	11700	17000
1.3	0.2	2.2	670	1.3	660.2	IE5	**BK40G10-../S5E06MA4**	0.22	0.75	1.5	2.2	2.7	670	670	670	670	670	68	11700	17000
1.3	0.2	1.9	770	1.1	756.7	IE5	**BK40G10-../S5E06MA4**	0.19	0.65	1.3	1.9	2.3	770	770	770	770	770	68	11700	17000
1.3	0.2	1.7	850	1	838.4	IE5	**BK40G10-../S5E06MA4**	0.17	0.55	1.1	1.7	2.1	850	850	850	850	850	68	11700	17000
1.3	0.2	1.5	1000	0.84	998.3	IE5	**BK40G10-../S5E06MA4**	0.15	0.5	1	1.5	1.8	1000	1000	1000	1000	1000	68	11700	17000
1.3	0.2	4.5	345	2.9	328.2	IE5	**BK50Z-../S5E06MA4**	0.45	1.5	3	4.5	5.4	345	345	345	345	345	92	14100	26000
1.3	0.2	3.6	430	1.9	414.8	IE5	**BK50Z-../S5E06MA4**	0.36	1.2	2.4	3.6	4.3	430	430	430	430	430	92	14100	26000
1.3	0.2	3.2	485	2.4	465.1	IE5	**BK50G10-../S5E06MA4**	0.32	1	2.1	3.2	3.8	485	485	485	485	485	96	14100	111000
1.3	0.2	2.9	530	2.2	513.4	IE5	**BK50G10-../S5E06MA4**	0.29	0.95	1.9	2.9	3.5	530	530	530	530	530	96	14100	111000
1.3	0.2	2.6	580	2	568.6	IE5	**BK50G10-../S5E06MA4**	0.26	0.85	1.7	2.6	3.1	580	580	580	580	580	96	14100	111000
1.3	0.2	2.3	670	1.7	651.7	IE5	**BK50G10-../S5E06MA4**	0.23	0.75	1.5	2.3	2.7	670	670	670	670	670	96	14100	111000
1.3	0.2	2	730	1.6	722.2	IE5	**BK50G10-../S5E06MA4**	0.2	0.65	1.3	2	2.4	730	730	730	730	730	96	14100	111000
1.3	0.2	1.7	870	1.3	859.8	IE5	**BK50G10-../S5E06MA4**	0.17	0.55	1.1	1.7	2	870	870	870	870	870	96	14100	111000
1.3	0.2	1.4	1030	1.1	1024	IE5	**BK50G10-../S5E06MA4**	0.14	0.48	0.95	1.4	1.7	1030	1030	1030	1030	1030	96	14100	111000
1.3	0.2	1.2	1230	0.93	1230	IE5	**BK50G10-../S5E06MA4**	0.12	0.4	0.8	1.2	1.4	1230	1230	1230	1230	1230	96	14100	111000
1.3	0.2	1	1390	0.83	1398	IE5	**BK50G10-../S5E06MA4**	0.1	0.35	0.7	1	1.2	1390	1390	1390	1390	1390	96	14100	111000
1.3	0.2	1.9	970	2.6	752.1	IE5	**BK60G20-../S5E06MA4**	0.19	0.65	1.3	1.9	2.3	970	970	970	970	970	123	16600	34000
1.3	0.2	1.6	1150	2.2	887.8	IE5	**BK60G20-../S5E06MA4**	0.16	0.55	1.1	1.6	2	1150	1150	1150	1150	1150	123	16600	34000
1.3	0.2	1.4	1320	1.9	1016	IE5	**BK60G20-../S5E06MA4**	0.14	0.49	0.95	1.4	1.7	1320	1320	1320	1320	1320	123	16600	34000
1.3	0.2	1.1	1710	1.5	1322	IE5	**BK60G20-../S5E06MA4**	0.11	0.37	0.75	1.1	1.3	1710	1710	1710	1710	1710	123	16600	34000
1.3	0.2	0.9	2100	1.2	1618	IE5	**BK60G20-../S5E06MA4**	0.09	0.3	0.6	0.9	1.1	2100	2100	2100	2100	2100	123	16600	34000
1.3	0.2	0.8	2350	1.1	1810	IE5	**BK60G20-../S5E06MA4**	0.08	0.27	0.55	0.8	0.95	2350	2350	2350	2350	2350	123	16600	34000
1.3	0.2	0.7	2600	0.96	2010	IE5	**BK60G20-../S5E06MA4**	0.07	0.24	0.49	0.7	0.85	2600	2600	2600	2600	2600	123	16600	34000
1.3	0.2	0.6	3050	0.81	2371	IE5	**BK60G20-../S5E06MA4**	0.06	0.21	0.42	0.6	0.75	3050	3050	3050	3050	3050	123	16600	34000
1.3	0.2	1	1890	3	1457	IE5	**BK70G20-../S5E06MA4**	0.1	0.34	0.65	1	1.2	1890	1890	1890	1890	1890	201	24100	50000
1.3	0.2	0.85	2200	2.6	1696	IE5	**BK70G20-../S5E06MA4**	0.085	0.29	0.55	0.85	1	2200	2200	2200	2200	2200	201	24100	50000
1.3	0.2	0.7	2650	2.1	2040	IE5	**BK70G20-../S5E06MA4**	0.07	0.24	0.49	0.7	0.85	2650	2650	2650	2650	2650	201	24100	50000
1.3	0.2	0.55	3350	1.7	2578	IE5	**BK70G20-../S5E06MA4**	0.055	0.19	0.38	0.55	0.65	3350	3350	3350	3350	3350	201	24100	50000
1.3	0.2	0.49	3950	1.4	3041	IE5	**BK70G20-../S5E06MA4**	0.049	0.16	0.32	0.49	0.55	3950	3950	3950	3950	3950	201	24100	50000
1.3	0.2	0.42	4550	1.3	3505	IE5	**BK70G20-../S5E06MA4**	0.042	0.14	0.28	0.42	0.5	4550	4550	4550	4550	4550	201	24100	50000
1.3	0.2	0.38	5000	1.1	3894	IE5	**BK70G20-../S5E06MA4**	0.038	0.12	0.25	0.38	0.46	5000	5000	5000	5000	5000	201	24100	50000
1.3	0.2	0.33	5800	0.97	4531	IE5	**BK70G20-../S5E06MA4**	0.033	0.11	0.22	0.33	0.39	5800	5800	5800	5800	5800	201	24100	50000
1.3	0.2	0.27	7000	0.81	5436	IE5	**BK70G20-../S5E06MA4**	0.027	0.09	0.18	0.27	0.33	7000	7000	7000	7000	7000	201	24100	50000

MN = 1.6 Nm (PN = 0.25 kW)



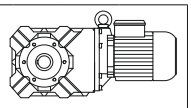
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
1.6	0.25	69	31	2.6	21.54	IE4	**BK06-../S4E06MA4**	6.9	23	46	69	83	31	31	31	31	31	11	1150	-
1.6	0.25	56	37.5	2.1	26.36	IE4	**BK06-../S4E06MA4**	5.6	18.5	37.5	56	68	37.5	37.5	37.5	37.5	37.5	11	1230	-
1.6	0.25	45	47.5	1.7	33.33	IE4	**BK06-../S4E06MA4**	4.5	15	30	45	54	47.5	47.5	47.5	47.5	47.5	11	1320	-
1.6	0.25	39	54	1.5	38.18	IE4	**BK06-../S4E06MA4**	3.9	13	26	39	47	54	54	54	54	54	11	1380	-
1.6	0.25	31	68	1.2	47.78	IE4	**BK06-../S4E06MA4**	3.1	10	20.5	31	37.5	68	68	68	68	68	11	1500	-
1.6	0.25	27.5	77	0.88	54.38	IE4	**BK06-../S4E06MA4**	2.7	9.1	18	27.5	33	77	77	77	77	77	11	1600	-
1.6	0.25	30.5	69	2.9	48.96	IE4	**BK10-../S4E06MA4**	3	10	20	30.5	36.5	69	69	69	69	69	23	6400	-
1.6	0.25	24	87	2.3	61.68	IE4	**BK10-../S4E06MA4**	2.4	8.1	16	24	29	87	87	87	87	87	23	7000	-
1.6	0.25	20.5	101	2	72.31	IE4	**BK10-../S4E06MA4**	2	6.9	13.5	20.5	24.5	101	101	101	101	101	23	7000	-
1.6	0.25	16.5	124	1.4	89.3	IE4	**BK10-../S4E06MA4**	1.6	5.5	11	16.5	20	124	124	124	124	124	23	7000	-
1.6	0.25	14.5	139	1.1	102.5	IE4	**BK10-../S4E06MA4**	1.4	4.8	9.7	14.5	17.5	139	139	139	139	139	23	7000	-
1.6	0.25	12	163	0.84	120.3	IE4	**BK10Z-../S4E06MA4**	1.2	4.1	8.3	12	14.5	163	163	163	163	163	24	7000	-
1.6	0.25	10	192	0.85	143.2	IE4	**BK10Z-../S4E06MA4**	1	3.4	6.9	10	12.5	192	192	192	192	192	24	7000	-
1.6	0.25	8.7	225	0.88	170.6	IE4	**BK10Z-../S4E06MA4**	0.85	2.9	5.8	8.7	10.5	225	225	225	225	225	24	7000	-
1.6	0.25	17	122	2.7	88.12	IE4	**BK20-../S4E06MA4**	1.7	5.6	11	17	20	122	122	122	122	122	33	8000	9000
1.6	0.25	13.5	149	2.1	108.6	IE4	**BK20-../S4E06MA4**	1.3	4.6	9.2	13.5	16.5	149	149	149	149	149	33	8700	9000
1.6	0.25	15	133	1.7	96.99	IE4	**BK20Z-../S4E06MA4**	1.5	5.1	10	15	18.5	133	133	133	133	133	34	8700	9000
1.6	0.25	12	168	2	124.2	IE4	**BK20Z-../S4E06MA4**	1.2	4	8	12	14	168	168	168	168	168	34	8700	9000
1.6	0.25	10	194	1.7	144.5	IE4	**BK20Z-../S4E06MA4**	1	3.4	6.9	10	12	194	194	194	194	194	34	8700	9000
1.6	0.25	8.6	230	1.4	173.4	IE4	**BK20Z-../S4E06MA4**	0.85	2.8	5.7	8.6	10	230	230	230	230	230	34	8700	9000
1.6	0.25	7.2	270	1.2	207.5	IE4	**BK20Z-../S4E06MA4**	0.7	2.4	4.8	7.2	8.6	270	270	270	270	270	34	8700	9000
1.6	0.25	5.7	340	0.97	259.9	IE4	**BK20Z-../S4E06MA4**	0.55	1.9	3.8	5.7	6.9	340	340	340	340	340	34	8700	9000
1.6	0.25	5	385	0.8	298.2	IE4	**BK20Z-../S4E06MA4**	0.5	1.6	3.3	5	6	385	385	385	385	385	34	8700	9000
1.6	0.25	12	168	2.7	123.9	IE4	**BK30Z-../S4E06MA4**	1.2	4	8	12	14.5	168	168	168	168	168	41	11200	12000
1.6	0.25	10	195	2.3	145.1	IE4	**BK30Z-../S4E06MA4**	1	3.4	6.8	10	12	195	195	195	195	195	41	11200	12000
1.6	0.25	8.1	245	1.8	184.8	IE4	**BK30Z-../S4E06MA4**	0.8	2.7	5.4	8.1	9.7	245	245	245	245	245	41	11200	12000
1.6	0.25	6.9	280	1.6	216.5	IE4	**BK30Z-../S4E06MA4**	0.65	2.3	4.6	6.9	8.3	280	280	280	280	280	41	11200	12000
1.6	0.25	5.8	330	1.3	255.3	IE4	**BK30Z-../S4E06MA4**	0.55	1.9	3.9	5.8	7	330	330	330	330	330	41	11200	12000
1.6	0.25	4.8	400	0.95	308.3	IE4	**BK30Z-../S4E06MA4**	0.48	1.6	3.2	4.8	5.8	400	400	400	400	400	41	11200	12000
1.6	0.25	3.9	490	0.81	380.7	IE4	**BK30Z-../S4E06MA4**	0.39	1.3	2.6	3.9	4.7	490	490	490	490	490	41	11200	12000
1.6	0.25	3.1	600	0.81	471.5	IE4	**BK30G06-../S4E06MA4**	0.31	1	2.1	3.1	3.8	600	600	600	600	600	44	11200	12000
1.6	0.25	7	275	2.8	211.5	IE4	**BK40Z-../S4E06MA4**	0.7	2.3	4.7	7	8.5	275	275	275	275	275	64	11700	17000
1.6	0.25	6	315	2.4	246.6	IE4	**BK40Z-../S4E06MA4**	0.6	2	4	6	7.2	315	315	315	315	315	64	11700	17000
1.6	0.25	5.1	375	1.8	289.8	IE4	**BK40Z-../S4E06MA4**	0.5	1.7	3.4	5.1	6.2	375	375	375	375	375	64	11700	17000
1.6	0.25	4.3	450	1.3	348.7	IE4	**BK40Z-../S4E06MA4**	0.43	1.4	2.8	4.3	5.1	450	450	450	450	450	64	11700	17000
1.6	0.25	3.4	550	1	430	IE4	**BK40Z-../S4E06MA4**	0.34	1.1	2.3	3.4	4.1	550	550	550	550	550	64	11700	17000
1.6	0.25	3	620	1.4	487.3	IE4	**BK40G10-../S4E06MA4**	0.3	1	2	3	3.6	620	620	620	620	620	68	11700	17000
1.6	0.25	2.7	680	1.2	540	IE4	**BK40G10-../S4E06MA4**	0.27	0.9	1.8	2.7	3.3	680	680	680	680	680	68	11700	17000
1.6	0.25	2.2	830	1	660.2	IE4	**BK40G10-../S4E06MA4**	0.22	0.75	1.5	2.2	2.7	830	830	830	830	830	68	11700	17000
1.6	0.25	1.9	950	0.89	756.7	IE4	**BK40G10-../S4E06MA4**	0.19	0.65	1.3	1.9	2.3	950	950	950	950	950	68	11700	17000
1.6	0.25	1.7	1050	0.81	838.4	IE4	**BK40G10-../S4E06MA4**	0.17	0.55	1.1	1.7	2.1	1050	1050	1050	1050	1050	68	11700	17000
1.6	0.25	4.5	425	2.4	328.2	IE4	**BK50Z-../S4E06MA4**	0.45	1.5	3	4.5	5.4	425	425	425	425	425	92	14100	26000
1.6	0.25	3.6	530	1.6	414.8	IE4	**BK50Z-../S4E06MA4**	0.36	1.2	2.4	3.6	4.3	530	530	530	530	530	92	14100	26000
1.6	0.25	3.2	590	1.9	465.1	IE4	**BK50G10-../S4E06MA4**	0.32	1	2.1	3.2	3.8	590	590	590	590	590	96	14100	111000
1.6	0.25	2.9	650	1.8	513.4	IE4	**BK50G10-../S4E06MA4**	0.29	0.95	1.9	2.9	3.5	650	650	650	650	650	96	14100	111000
1.6	0.25	2.6	720	1.6	568.6	IE4	**BK50G10-../S4E06MA4**	0.26	0.85	1.7	2.6	3.1	720	720	720	720	720	96	14100	111000
1.6	0.25	2.3	820	1.4	651.7	IE4	**BK50G10-../S4E06MA4**	0.23	0.75	1.5	2.3	2.7	820	820	820	820	820	96	14100	111000
1.6	0.25	2	910	1.3	722.2	IE4	**BK50G10-../S4E06MA4**	0.2	0.65	1.3	2	2.4	910	910	910	910	910	96	14100	111000
1.6	0.25	1.7	1070	1.1	859.8	IE4	**BK50G10-../S4E06MA4**	0.17	0.55	1.1	1.7	2	1070	1070	1070	1070	1070	96	14100	111000
1.6	0.25	1.4	1270	0.9	1024	IE4	**BK50G10-../S4E06MA4**	0.14	0.48	0.95	1.4	1.7	1270	1270	1270	1270	1270	96	14100	111000
1.6	0.25	2.4	990	2.5	621.5	IE4	**BK60G20-../S4E06MA4**	0.24	0.8	1.6	2.4	2.8	990	990	990	990	990	123	16600	34000
1.6	0.25	1.9	1200	2.1	752.1	IE4	**BK60G20-../S4E06MA4**	0.19	0.65	1.3	1.9	2.3	1200	1200	1200	1200	1200	123	16600	34000
1.6	0.25	1.6	1420	1.8	887.8	IE4	**BK60G20-../S4E06MA4**	0.16	0.55	1.1	1.6	2	1420	1420	1420	1420	1420	123	16600	34000
1.6	0.25	1.4	1620	1.5	1016	IE4	**BK60G20-../S4E06MA4**	0.14	0.49	0.95	1.4	1.7	1620	1620	1620	1620	1620	123	16600	34000
1.6	0.25	1.1	2100	1.2	1322	IE4	**BK60G20-../S4E06MA4**	0.11	0.37	0.75	1.1	1.3	2100	2100	2100	2100	2100	123	16600	34000
1.6	0.25	0.9	2550	0.97	1618	IE4	**BK60G20-../S4E06MA4**	0.09	0.3	0.6	0.9	1.1	2550	2550	2550	2550	2550	123	16600	34000
1.6	0.25	0.8	2850	0.86	1810	IE4	**BK60G20-../S4E06MA4**	0.08	0.27	0.55	0.8	0.95	2850	2850	2850	2850	2850	123	16600	34000
1.6	0.25	1.1	2000	2.8	1280	IE4	**BK70G20-../S4E06MA4**	0.11	0.39	0.75	1.1	1.4	2000	2000	2000	2000	2000	201	24100	50000
1.6	0.25	1	2300	2.4	1457	IE4	**BK70G20-../S4E06MA4**	0.1	0.34	0.65	1	1.2	2300	2300	2300	2300	2300	201	24100	50000
1.6	0.25	0.85	2700	2.1	1696	IE4	**BK70G20-../S4E06MA4**	0.085	0.29	0.55	0.85	1	2700	2700	2700	2700	2700	201	24100	50000
1.6	0.25	0.7	3250	1.7	2040	IE4	**BK70G20-../S4E06MA4**	0.07	0.24	0.49	0.7	0.85	3250	3250	3250	3250	3250	201	24100	50000
1.6	0.25	0.55	4100	1.4	2578	IE4	**BK70G20-../S4E06MA4**	0.055	0.19	0.38	0.55	0.65	4100	4100	4100	4100	4100	201	24100	50000
1.6	0.25	0.49	4850	1.2	3041	IE4	**BK70G20-../S4E06MA4**	0.049	0.16	0.32	0.49	0.55	4850	4850	4850	4850	4850	201	24100	50000
1.6	0.25	0.42	5600	1	3505	IE4	**BK70G20-../S4E06MA4**	0.042	0.14	0.28	0.42	0.5	5600	5600	5600	5600	5600	201	24100	50000
1.6	0.25	0.38	6200	0.91	3894	IE4	**BK70G20-../S4E06MA4**	0.038	0.12	0.25	0.38	0.46	6200	6200	6200	6200	6200	201	24100	50000

MN = 2.4 Nm (PN = 0.37 kW)



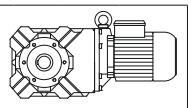
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
2.4	0.37	98	33	2.4	15.29	IE4	**BK06-../S4E06LA4**	9.8	32.5	65	98	117	33	33	33	33	33	11	1020	-
2.4	0.37	98	33	2.4	15.29	IE1	**BK06-../SSE06MA4**	9.8	32.5	65	98	117	25	27.5	30.5	33	33	11	1020	-
2.4	0.37	83	38.5	2.1	18	IE4	**BK06-../S4E06LA4**	8.3	27.5	55	83	100	38.5	38.5	38.5	38.5	38.5	11	1080	-
2.4	0.37	83	38.5	2.1	18	IE1	**BK06-../SSE06MA4**	8.3	27.5	55	83	100	29	32	35.5	38.5	38.5	11	1080	-
2.4	0.37	69	46.5	1.7	21.54	IE4	**BK06-../S4E06LA4**	6.9	23	46	69	83	46.5	46.5	46.5	46.5	46.5	11	1150	-
2.4	0.37	69	46.5	1.7	21.54	IE1	**BK06-../SSE06MA4**	6.9	23	46	69	83	34.5	38.5	42.5	46.5	46.5	11	1150	-
2.4	0.37	56	56	1.4	26.36	IE4	**BK06-../S4E06LA4**	5.6	18.5	37.5	56	68	56	56	56	56	56	11	1230	-
2.4	0.37	56	56	1.4	26.36	IE1	**BK06-../SSE06MA4**	5.6	18.5	37.5	56	68	42.5	47	52	56	56	11	1230	-
2.4	0.37	45	71	1.1	33.33	IE4	**BK06-../S4E06LA4**	4.5	15	30	45	54	71	71	71	71	71	11	1320	-
2.4	0.37	45	71	1.1	33.33	IE1	**BK06-../SSE06MA4**	4.5	15	30	45	54	53	59	65	71	71	11	1320	-
2.4	0.37	39	82	0.97	38.18	IE4	**BK06-../S4E06LA4**	3.9	13	26	39	47	82	82	82	82	82	11	1380	-
2.4	0.37	39	82	0.97	38.18	IE1	**BK06-../SSE06MA4**	3.9	13	26	39	47	61	68	75	82	82	11	1380	-
2.4	0.37	43.5	73	2.7	34.25	IE1	**BK10-../SSE06MA4**	4.3	14.5	29	43.5	52	55	61	67	73	73	23	5600	-
2.4	0.37	43.5	73	2.7	34.25	IE4	**BK10-../S4E06LA4**	4.3	14.5	29	43.5	52	73	73	73	73	73	23	5600	-
2.4	0.37	36.5	88	2.3	40.79	IE1	**BK10-../SSE06MA4**	3.6	12	24.5	36.5	44	66	73	80	88	88	23	6000	-
2.4	0.37	36.5	88	2.3	40.79	IE4	**BK10-../S4E06LA4**	3.6	12	24.5	36.5	44	88	88	88	88	88	23	6000	-
2.4	0.37	30.5	104	1.9	48.96	IE4	**BK10-../S4E06LA4**	3	10	20	30.5	36.5	104	104	104	104	104	23	6400	-
2.4	0.37	30.5	104	1.9	48.96	IE1	**BK10-../SSE06MA4**	3	10	20	30.5	36.5	78	87	95	104	104	23	6400	-
2.4	0.37	24	131	1.5	61.68	IE4	**BK10-../S4E06LA4**	2.4	8.1	16	24	29	131	131	131	131	131	23	7000	-
2.4	0.37	24	131	1.5	61.68	IE1	**BK10-../SSE06MA4**	2.4	8.1	16	24	29	98	109	120	131	131	23	7000	-
2.4	0.37	20.5	152	1.3	72.31	IE1	**BK10-../SSE06MA4**	2	6.9	13.5	20.5	24.5	114	127	139	152	152	23	7000	-
2.4	0.37	20.5	152	1.3	72.31	IE4	**BK10-../S4E06LA4**	2	6.9	13.5	20.5	24.5	152	152	152	152	152	23	7000	-
2.4	0.37	16.5	186	0.95	89.3	IE4	**BK10-../S4E06LA4**	1.6	5.5	11	16.5	20	186	186	186	186	186	23	7000	-
2.4	0.37	16.5	186	0.95	89.3	IE1	**BK10-../SSE06MA4**	1.6	5.5	11	16.5	20	139	155	170	186	186	23	7000	-
2.4	0.37	29	109	3	51.22	IE4	**BK20-../S4E06LA4**	2.9	9.7	19.5	29	35	109	109	109	109	109	33	6300	9000
2.4	0.37	29	109	3	51.22	IE1	**BK20-../SSE06MA4**	2.9	9.7	19.5	29	35	82	91	100	109	109	33	6300	9000
2.4	0.37	24	130	2.5	61.3	IE1	**BK20-../SSE06MA4**	2.4	8.1	16	24	29	98	109	120	130	130	33	6500	9000
2.4	0.37	24	130	2.5	61.3	IE4	**BK20-../S4E06LA4**	2.4	8.1	16	24	29	130	130	130	130	130	33	6500	9000
2.4	0.37	19.5	162	2	76.79	IE1	**BK20-../SSE06MA4**	1.9	6.5	13	19.5	23	121	135	148	162	162	33	7500	9000
2.4	0.37	19.5	162	2	76.79	IE4	**BK20-../S4E06LA4**	1.9	6.5	13	19.5	23	162	162	162	162	162	33	7500	9000
2.4	0.37	17	183	1.8	88.12	IE4	**BK20-../S4E06LA4**	1.7	5.6	11	17	20	183	183	183	183	183	33	8000	9000
2.4	0.37	17	183	1.8	88.12	IE1	**BK20-../SSE06MA4**	1.7	5.6	11	17	20	137	153	168	183	183	33	8000	9000
2.4	0.37	13.5	220	1.4	108.6	IE1	**BK20-../SSE06MA4**	1.3	4.6	9.2	13.5	16.5	168	186	205	220	220	33	8700	9000
2.4	0.37	13.5	220	1.4	108.6	IE4	**BK20-../S4E06LA4**	1.3	4.6	9.2	13.5	16.5	220	220	220	220	220	33	8700	9000
2.4	0.37	15	200	1.1	96.99	IE1	**BK20Z-../SSE06MA4**	1.5	5.1	10	15	18.5	150	166	183	200	200	34	8700	9000
2.4	0.37	15	200	1.1	96.99	IE4	**BK20Z-../S4E06LA4**	1.5	5.1	10	15	18.5	200	200	200	200	200	34	8700	9000
2.4	0.37	12	250	1.3	124.2	IE4	**BK20Z-../S4E06LA4**	1.2	4	8	12	14	250	250	250	250	250	34	8700	9000
2.4	0.37	12	250	1.3	124.2	IE1	**BK20Z-../SSE06MA4**	1.2	4	8	12	14	190	210	230	250	250	34	8700	9000
2.4	0.37	10	290	1.1	144.5	IE1	**BK20Z-../SSE06MA4**	1	3.4	6.9	10	12	215	240	265	290	290	34	8700	9000
2.4	0.37	10	290	1.1	144.5	IE4	**BK20Z-../S4E06LA4**	1	3.4	6.9	10	12	290	290	290	290	290	34	8700	9000
2.4	0.37	8.6	345	0.96	173.4	IE4	**BK20Z-../S4E06LA4**	0.85	2.8	5.7	8.6	10	345	345	345	345	345	34	8700	9000
2.4	0.37	8.6	345	0.96	173.4	IE1	**BK20Z-../SSE06MA4**	0.85	2.8	5.7	8.6	10	255	285	315	345	345	34	8700	9000
2.4	0.37	7.2	405	0.81	207.5	IE4	**BK20Z-../S4E06LA4**	0.7	2.4	4.8	7.2	8.6	405	405	405	405	405	34	8700	9000
2.4	0.37	7.2	405	0.81	207.5	IE1	**BK20Z-../SSE06MA4**	0.7	2.4	4.8	7.2	8.6	305	340	370	405	405	34	8700	9000
2.4	0.37	20.5	149	3	71.56	IE4	**BK30-../S4E06LA4**	2	6.9	13.5	20.5	25	149	149	149	149	149	39	9700	12000
2.4	0.37	20.5	149	3	71.56	IE1	**BK30-../SSE06MA4**	2	6.9	13.5	20.5	25	112	124	136	149	149	39	9700	12000
2.4	0.37	16.5	182	2.5	88.38	IE4	**BK30-../S4E06LA4**	1.6	5.6	11	16.5	20	182	182	182	182	182	39	10600	12000
2.4	0.37	16.5	182	2.5	88.38	IE1	**BK30-../SSE06MA4**	1.6	5.6	11	16.5	20	136	152	167	182	182	39	10600	12000
2.4	0.37	14.5	205	2.2	102.4	IE4	**BK30-../S4E06LA4**	1.4	4.8	9.7	14.5	17.5	205	205	205	205	205	39	11200	12000
2.4	0.37	14.5	205	2.2	102.4	IE1	**BK30-../SSE06MA4**	1.4	4.8	9.7	14.5	17.5	156	174	191	205	205	39	11200	12000
2.4	0.37	12	250	1.8	123.9	IE1	**BK30Z-../SSE06MA4**	1.2	4	8	12	14.5	189	210	230	250	250	41	11200	12000
2.4	0.37	12	250	1.8	123.9	IE4	**BK30Z-../S4E06LA4**	1.2	4	8	12	14.5	250	250	250	250	250	41	11200	12000
2.4	0.37	10	290	1.5	145.1	IE1	**BK30Z-../SSE06MA4**	1	3.4	6.8	10	12	215	240	265	290	290	41	11200	12000
2.4	0.37	10	290	1.5	145.1	IE4	**BK30Z-../S4E06LA4**	1	3.4	6.8	10	12	290	290	290	290	290	41	11200	12000
2.4	0.37	8.1	365	1.2	184.8	IE4	**BK30Z-../S4E06LA4**	0.8	2.7	5.4	8.1	9.7	365	365	365	365	365	41	11200	12000
2.4	0.37	8.1	365	1.2	184.8	IE1	**BK30Z-../SSE06MA4**	0.8	2.7	5.4	8.1	9.7	275	305	335	365	365	41	11200	12000
2.4	0.37	6.9	425	1.1	216.5	IE1	**BK30Z-../SSE06MA4**	0.65	2.3	4.6	6.9	8.3	315	355	390	425	425	41	11200	12000
2.4	0.37	6.9	425	1.1	216.5	IE4	**BK30Z-../S4E06LA4**	0.65	2.3	4.6	6.9	8.3	425	425	425	425	425	41	11200	12000
2.4	0.37	5.8	500	0.9	255.3	IE4	**BK30Z-../S4E06LA4**	0.55	1.9	3.9	5.8	7	500	500	500	500	500	41	11200	12000
2.4	0.37	5.8	500	0.9	255.3	IE1	**BK30Z-../SSE06MA4**	0.55	1.9	3.9	5.8	7	375	415	460	500	500	41	11200	12000
2.4	0.37	10	285	2.7	143	IE1	**BK40Z-../SSE06MA4**	1	3.4	6.9	10	12.5	215	240	260	285	285	64	11700	17000
2.4	0.37	10	285	2.7	143	IE4	**BK40Z-../S4E06LA4**	1	3.4	6.9	10	12.5	285	285	285	285	285	64	11700	17000
2.4	0.37	8.8	335	2.3	169	IE4	**BK40Z-../S4E06LA4**	0.85	2.9	5.9	8.8	10.5	335	335	335	335	335	64	11700	17000
2.4	0.37	8.8	335	2.3	169	IE1	**BK40Z-../SSE06MA4**	0.85	2.9	5.9	8.8	10.5	250	280	305	335	335	64	11700	17000
2.4	0.37	7	415	1.9	211.5	IE4	**BK40Z-../S4E06LA4**	0.7	2.3	4.7	7	8.5	415	415	415	415	415	64	11700	17000
2.4	0.37	7	415	1.9	211.5	IE1	**BK40Z-../SSE06MA4**	0.7	2.3	4.7	7	8.5	310	345	380	415	415	64	11700	17000
2.4	0.37	6	475	1.6	246.6	IE4	**BK40Z-../S4E06LA4**	0.6	2	4	6	7.2	475	475	475	475	475	64	11700	17000
2.4	0.37	6	475	1.6	246.6	IE1	**BK40Z-../SSE06MA4**	0.6	2	4	6	7.2	355	395	435	475	475	64	11700	17000
2.4	0.37	5.1	560	1.2	289.8	IE1	**BK40Z-../SSE06MA4**	0.5	1.7	3.4	5.1	6.2	420	465	510	560	560	64	11700	17000
2.4	0.37	5.1	560	1.2	289.8	IE4	**BK40Z-../S4E06LA4**	0.5	1.7	3.4	5.1	6.2	560	560	560	560	560	64	11700	17000
2.4	0.37	4.3	670	0.86	348.7	IE4	**BK40Z-../S4E06LA4**	0.43	1.4	2.8	4.3	5.1	670	670	670	670	670	64	11700	17000
2.4	0.37	4.3	670	0.86	348.7	IE1	**BK40Z-../SSE06MA4**	0.43	1.4	2.8	4.3	5.1	500	560	620	670	670	64	11700	17000
2.4	0.37	3	930	0.91	487.3	IE4	**BK40G10-../S4E06LA4**	0.3	1	2	3	3.6	930	930	930	930	930	68	11700	17000
2.4	0.37	3	930	0.91	487.3	IE1	**BK40G10-../SSE06MA4**	0.3	1	2	3	3.6	700	780	850	930	930	68	11700	17000
2.4	0.37	2.7	1030	0.82	540	IE4	**BK40G10-../S4E06LA4**	0.27	0.9	1.8	2.7	3.3	1030	1030	1030	1030	1030	68	11700	17000
2.4	0.37	2.7	1030	0.82	540	IE1	**BK40G10-../SSE06MA4**	0.27	0.9	1.8	2.7	3.3	770	860	940	1030	1030	68	11700	17000
2.4	0.37	7.2	405	2.6	206.8	IE4	**BK50Z-../S4E06LA4**	0.7	2.4	4.8	7.2	8.7	405	405	405	405	405	92	14100	26000
2.4	0.37	7.2	405	2.6	206.8	IE1	**BK50Z-../SSE06MA4**	0.7	2.4	4.8	7.2	8.7	305	335	370	405	405	92	14100	26000

MN = 2.4 Nm (PN = 0.37 kW)



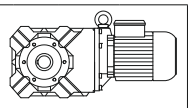
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
2.4	0.37	5.6	510	2	264.5	IE4	**BK50Z-../S4E06LA4**	0.55	1.8	3.7	5.6	6.8	510	510	510	510	510	92	14100	26000
2.4	0.37	5.6	510	2	264.5	IE1	**BK50Z-../SSE06MA4**	0.55	1.8	3.7	5.6	6.8	385	425	470	510	510	92	14100	26000
2.4	0.37	4.5	630	1.6	328.2	IE4	**BK50Z-../S4E06LA4**	0.45	1.5	3	4.5	5.4	630	630	630	630	630	92	14100	26000
2.4	0.37	4.5	630	1.6	328.2	IE1	**BK50Z-../SSE06MA4**	0.45	1.5	3	4.5	5.4	475	530	580	630	630	92	14100	26000
2.4	0.37	3.6	790	1.1	414.8	IE1	**BK50Z-../SSE06MA4**	0.36	1.2	2.4	3.6	4.3	590	660	730	790	790	92	14100	26000
2.4	0.37	3.6	790	1.1	414.8	IE4	**BK50Z-../S4E06LA4**	0.36	1.2	2.4	3.6	4.3	790	790	790	790	790	92	14100	26000
2.4	0.37	3.2	890	1.3	465.1	IE4	**BK50G10-../S4E06LA4**	0.32	1	2.1	3.2	3.8	890	890	890	890	890	96	14100	111000
2.4	0.37	3.2	890	1.3	465.1	IE1	**BK50G10-../SSE06MA4**	0.32	1	2.1	3.2	3.8	670	740	820	890	890	96	14100	111000
2.4	0.37	2.9	980	1.2	513.4	IE4	**BK50G10-../S4E06LA4**	0.29	0.95	1.9	2.9	3.5	980	980	980	980	980	96	14100	111000
2.4	0.37	2.9	980	1.2	513.4	IE1	**BK50G10-../SSE06MA4**	0.29	0.95	1.9	2.9	3.5	730	820	900	980	980	96	14100	111000
2.4	0.37	2.6	1080	1.1	568.6	IE1	**BK50G10-../SSE06MA4**	0.26	0.85	1.7	2.6	3.1	810	900	990	1080	1080	96	14100	111000
2.4	0.37	2.6	1080	1.1	568.6	IE4	**BK50G10-../S4E06LA4**	0.26	0.85	1.7	2.6	3.1	1080	1080	1080	1080	1080	96	14100	111000
2.4	0.37	2.3	1230	0.93	651.7	IE4	**BK50G10-../S4E06LA4**	0.23	0.75	1.5	2.3	2.7	1230	1230	1230	1230	1230	96	14100	111000
2.4	0.37	2.3	1230	0.93	651.7	IE1	**BK50G10-../SSE06MA4**	0.23	0.75	1.5	2.3	2.7	920	1030	1130	1230	1230	96	14100	111000
2.4	0.37	2	1360	0.84	722.2	IE1	**BK50G10-../SSE06MA4**	0.2	0.65	1.3	2	2.4	1020	1130	1250	1360	1360	96	14100	111000
2.4	0.37	2	1360	0.84	722.2	IE4	**BK50G10-../S4E06LA4**	0.2	0.65	1.3	2	2.4	1360	1360	1360	1360	1360	96	14100	111000
2.4	0.37	2.4	1490	1.7	621.5	IE4	**BK60G20-../S4E06LA4**	0.24	0.8	1.6	2.4	2.8	1490	1490	1490	1490	1490	123	16600	34000
2.4	0.37	2.4	1490	1.7	621.5	IE1	**BK60G20-../SSE06MA4**	0.24	0.8	1.6	2.4	2.8	1110	1240	1360	1490	1490	123	16600	34000
2.4	0.37	1.9	1800	1.4	752.1	IE1	**BK60G20-../SSE06MA4**	0.19	0.65	1.3	1.9	2.3	1350	1500	1650	1800	1800	123	16600	34000
2.4	0.37	1.9	1800	1.4	752.1	IE4	**BK60G20-../S4E06LA4**	0.19	0.65	1.3	1.9	2.3	1800	1800	1800	1800	1800	123	16600	34000
2.4	0.37	1.6	2100	1.2	887.8	IE1	**BK60G20-../SSE06MA4**	0.16	0.55	1.1	1.6	2	1590	1770	1950	2100	2100	123	16600	34000
2.4	0.37	1.6	2100	1.2	887.8	IE4	**BK60G20-../S4E06LA4**	0.16	0.55	1.1	1.6	2	2100	2100	2100	2100	2100	123	16600	34000
2.4	0.37	1.4	2400	1	1016	IE1	**BK60G20-../SSE06MA4**	0.14	0.49	0.95	1.4	1.7	1820	2000	2200	2400	2400	123	16600	34000
2.4	0.37	1.4	2400	1	1016	IE4	**BK60G20-../S4E06LA4**	0.14	0.49	0.95	1.4	1.7	2400	2400	2400	2400	2400	123	16600	34000
2.4	0.37	1.7	2000	2.8	847.7	IE4	**BK70G20-../S4E06LA4**	0.17	0.55	1.1	1.7	2.1	2000	2000	2000	2000	2000	201	24100	50000
2.4	0.37	1.7	2000	2.8	847.7	IE1	**BK70G20-../SSE06MA4**	0.17	0.55	1.1	1.7	2.1	1520	1690	1860	2000	2000	201	24100	50000
2.4	0.37	1.5	2300	2.5	964.6	IE4	**BK70G20-../S4E06LA4**	0.15	0.5	1	1.5	1.8	2300	2300	2300	2300	2300	201	24100	50000
2.4	0.37	1.5	2300	2.5	964.6	IE1	**BK70G20-../SSE06MA4**	0.15	0.5	1	1.5	1.8	1730	1920	2100	2300	2300	201	24100	50000
2.4	0.37	1.3	2700	2.1	1139	IE1	**BK70G20-../SSE06MA4**	0.13	0.43	0.85	1.3	1.5	2050	2250	2500	2700	2700	201	24100	50000
2.4	0.37	1.3	2700	2.1	1139	IE4	**BK70G20-../S4E06LA4**	0.13	0.43	0.85	1.3	1.5	2700	2700	2700	2700	2700	201	24100	50000
2.4	0.37	1.1	3050	1.9	1280	IE4	**BK70G20-../S4E06LA4**	0.11	0.39	0.75	1.1	1.4	3050	3050	3050	3050	3050	201	24100	50000
2.4	0.37	1.1	3050	1.9	1280	IE1	**BK70G20-../SSE06MA4**	0.11	0.39	0.75	1.1	1.4	2300	2550	2800	3050	3050	201	24100	50000
2.4	0.37	1	3450	1.6	1457	IE4	**BK70G20-../S4E06LA4**	0.1	0.34	0.65	1	1.2	3450	3450	3450	3450	3450	201	24100	50000
2.4	0.37	1	3450	1.6	1457	IE1	**BK70G20-../SSE06MA4**	0.1	0.34	0.65	1	1.2	2600	2900	3200	3450	3450	201	24100	50000
2.4	0.37	0.85	4050	1.4	1696	IE1	**BK70G20-../SSE06MA4**	0.085	0.29	0.55	0.85	1	3050	3350	3700	4050	4050	201	24100	50000
2.4	0.37	0.85	4050	1.4	1696	IE4	**BK70G20-../S4E06LA4**	0.085	0.29	0.55	0.85	1	4050	4050	4050	4050	4050	201	24100	50000
2.4	0.37	0.7	4850	1.2	2040	IE1	**BK70G20-../SSE06MA4**	0.07	0.24	0.49	0.7	0.85	3650	4050	4450	4850	4850	201	24100	50000
2.4	0.37	0.7	4850	1.2	2040	IE4	**BK70G20-../S4E06LA4**	0.07	0.24	0.49	0.7	0.85	4850	4850	4850	4850	4850	201	24100	50000
2.4	0.37	0.55	6100	0.92	2578	IE1	**BK70G20-../SSE06MA4**	0.055	0.19	0.38	0.55	0.65	4600	5100	5600	6100	6100	201	24100	50000
2.4	0.37	0.55	6100	0.92	2578	IE4	**BK70G20-../S4E06LA4**	0.055	0.19	0.38	0.55	0.65	6100	6100	6100	6100	6100	201	24100	50000

MN = 2.6 Nm (PN = 0.4 kW)



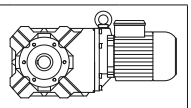
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
2.6	0.4	128	27.5	2.9	11.67	IE4	**BK06-../S4E06LA4**	12.5	42.5	85	128	154	26.5	27.5	27.5	27.5	27.5	11	930	-
2.6	0.4	98	36	2.2	15.29	IE4	**BK06-../S4E06LA4**	9.8	32.5	65	98	117	34.5	36	36	36	36	11	1020	-
2.6	0.4	83	42	1.9	18	IE4	**BK06-../S4E06LA4**	8.3	27.5	55	83	100	40.5	42	42	42	42	11	1080	-
2.6	0.4	69	50	1.6	21.54	IE4	**BK06-../S4E06LA4**	6.9	23	46	69	83	48	50	50	50	50	11	1150	-
2.6	0.4	56	61	1.3	26.36	IE4	**BK06-../S4E06LA4**	5.6	18.5	37.5	56	68	59	61	61	61	61	11	1230	-
2.6	0.4	45	77	1	33.33	IE4	**BK06-../S4E06LA4**	4.5	15	30	45	54	74	77	77	77	77	11	1320	-
2.6	0.4	39	89	0.9	38.18	IE4	**BK06-../S4E06LA4**	3.9	13	26	39	47	85	89	89	89	89	11	1380	-
2.6	0.4	52	67	3	28.76	IE4	**BK10-../S4E06LA4**	5.2	17	34.5	52	62	64	67	67	67	67	23	5200	-
2.6	0.4	43.5	80	2.5	34.25	IE4	**BK10-../S4E06LA4**	4.3	14.5	29	43.5	52	77	80	80	80	80	23	5600	-
2.6	0.4	36.5	95	2.1	40.79	IE4	**BK10-../S4E06LA4**	3.6	12	24.5	36.5	44	91	95	95	95	95	23	6000	-
2.6	0.4	30.5	113	1.8	48.96	IE4	**BK10-../S4E06LA4**	3	10	20	30.5	36.5	108	113	113	113	113	23	6400	-
2.6	0.4	24	142	1.4	61.68	IE4	**BK10-../S4E06LA4**	2.4	8.1	16	24	29	137	142	142	142	142	23	7000	-
2.6	0.4	20.5	165	1.2	72.31	IE4	**BK10-../S4E06LA4**	2	6.9	13.5	20.5	24.5	159	165	165	165	165	23	7000	-
2.6	0.4	16.5	200	0.88	89.3	IE4	**BK10-../S4E06LA4**	1.6	5.5	11	16.5	20	194	200	200	200	200	23	7000	-
2.6	0.4	29	118	2.8	51.22	IE4	**BK20-../S4E06LA4**	2.9	9.7	19.5	29	35	113	118	118	118	118	33	6300	9000
2.6	0.4	24	141	2.3	61.3	IE4	**BK20-../S4E06LA4**	2.4	8.1	16	24	29	136	141	141	141	141	33	6500	9000
2.6	0.4	19.5	175	1.9	76.79	IE4	**BK20-../S4E06LA4**	1.9	6.5	13	19.5	23	168	175	175	175	175	33	7500	9000
2.6	0.4	17	199	1.7	88.12	IE4	**BK20-../S4E06LA4**	1.7	5.6	11	17	20	191	199	199	199	199	33	8000	9000
2.6	0.4	13.5	240	1.3	108.6	IE4	**BK20-../S4E06LA4**	1.3	4.6	9.2	13.5	16.5	230	240	240	240	240	33	8700	9000
2.6	0.4	15	215	1.1	96.99	IE4	**BK20Z-../S4E06LA4**	1.5	5.1	10	15	18.5	205	215	215	215	215	34	8700	9000
2.6	0.4	12	270	1.2	124.2	IE4	**BK20Z-../S4E06LA4**	1.2	4	8	12	14	260	270	270	270	270	34	8700	9000
2.6	0.4	10	315	1	144.5	IE4	**BK20Z-../S4E06LA4**	1	3.4	6.9	10	12	300	315	315	315	315	34	8700	9000
2.6	0.4	8.6	370	0.88	173.4	IE4	**BK20Z-../S4E06LA4**	0.85	2.8	5.7	8.6	10	355	370	370	370	370	34	8700	9000
2.6	0.4	20.5	161	2.8	71.56	IE4	**BK30-../S4E06LA4**	2	6.9	13.5	20.5	25	155	161	161	161	161	39	9700	12000
2.6	0.4	16.5	197	2.3	88.38	IE4	**BK30-../S4E06LA4**	1.6	5.6	11	16.5	20	190	197	197	197	197	39	10600	12000
2.6	0.4	14.5	225	2	102.4	IE4	**BK30-../S4E06LA4**	1.4	4.8	9.7	14.5	17.5	215	225	225	225	225	39	11200	12000
2.6	0.4	12	270	1.6	123.9	IE4	**BK30Z-../S4E06LA4**	1.2	4	8	12	14.5	260	270	270	270	270	41	11200	12000

MN = 2.6 Nm (PN = 0.4 kW)



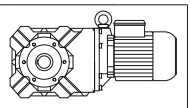
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
2.6	0.4	10	315	1.4	145.1	IE4	**BK30Z-../S4E06LA4**	1	3.4	6.8	10	12	300	315	315	315	315	41	11200	12000
2.6	0.4	8.1	395	1.1	184.8	IE4	**BK30Z-../S4E06LA4**	0.8	2.7	5.4	8.1	9.7	380	395	395	395	395	41	11200	12000
2.6	0.4	6.9	460	0.97	216.5	IE4	**BK30Z-../S4E06LA4**	0.65	2.3	4.6	6.9	8.3	440	460	460	460	460	41	11200	12000
2.6	0.4	5.8	540	0.83	255.3	IE4	**BK30Z-../S4E06LA4**	0.55	1.9	3.9	5.8	7	520	540	540	540	540	41	11200	12000
2.6	0.4	12.5	260	3	118.2	IE4	**BK40Z-../S4E06LA4**	1.2	4.2	8.4	12.5	15	250	260	260	260	260	64	11700	17000
2.6	0.4	10	310	2.5	143	IE4	**BK40Z-../S4E06LA4**	1	3.4	6.9	10	12.5	300	310	310	310	310	64	11700	17000
2.6	0.4	8.8	360	2.1	169	IE4	**BK40Z-../S4E06LA4**	0.85	2.9	5.9	8.8	10.5	350	360	360	360	360	64	11700	17000
2.6	0.4	7	450	1.7	211.5	IE4	**BK40Z-../S4E06LA4**	0.7	2.3	4.7	7	8.5	430	450	450	450	450	64	11700	17000
2.6	0.4	6	510	1.5	246.6	IE4	**BK40Z-../S4E06LA4**	0.6	2	4	6	7.2	495	510	510	510	510	64	11700	17000
2.6	0.4	5.1	610	1.1	289.8	IE4	**BK40Z-../S4E06LA4**	0.5	1.7	3.4	5.1	6.2	580	610	610	610	610	64	11700	17000
2.6	0.4	3	1010	0.84	487.3	IE4	**BK40G10-../S4E06LA4**	0.3	1	2	3	3.6	970	1010	1010	1010	1010	68	11700	17000
2.6	0.4	7.2	440	2.4	206.8	IE4	**BK50Z-../S4E06LA4**	0.7	2.4	4.8	7.2	8.7	420	440	440	440	440	92	14100	26000
2.6	0.4	5.6	550	1.9	264.5	IE4	**BK50Z-../S4E06LA4**	0.55	1.8	3.7	5.6	6.8	530	550	550	550	550	92	14100	26000
2.6	0.4	4.5	690	1.5	328.2	IE4	**BK50Z-../S4E06LA4**	0.45	1.5	3	4.5	5.4	660	690	690	690	690	92	14100	26000
2.6	0.4	3.6	860	0.97	414.8	IE4	**BK50Z-../S4E06LA4**	0.36	1.2	2.4	3.6	4.3	820	860	860	860	860	92	14100	26000
2.6	0.4	3.2	970	1.2	465.1	IE4	**BK50G10-../S4E06LA4**	0.32	1	2.1	3.2	3.8	930	970	970	970	970	96	14100	111000
2.6	0.4	2.9	1060	1.1	513.4	IE4	**BK50G10-../S4E06LA4**	0.29	0.95	1.9	2.9	3.5	1020	1060	1060	1060	1060	96	14100	111000
2.6	0.4	2.6	1170	0.98	568.6	IE4	**BK50G10-../S4E06LA4**	0.26	0.85	1.7	2.6	3.1	1130	1170	1170	1170	1170	96	14100	111000
2.6	0.4	2.3	1340	0.86	651.7	IE4	**BK50G10-../S4E06LA4**	0.23	0.75	1.5	2.3	2.7	1280	1340	1340	1340	1340	96	14100	111000
2.6	0.4	2.4	1610	1.5	621.5	IE4	**BK60G20-../S4E06LA4**	0.24	0.8	1.6	2.4	2.8	1550	1610	1610	1610	1610	123	16600	34000
2.6	0.4	1.9	1950	1.3	752.1	IE4	**BK60G20-../S4E06LA4**	0.19	0.65	1.3	1.9	2.3	1880	1950	1950	1950	1950	123	16600	34000
2.6	0.4	1.6	2300	1.1	887.8	IE4	**BK60G20-../S4E06LA4**	0.16	0.55	1.1	1.6	2	2200	2300	2300	2300	2300	123	16600	34000
2.6	0.4	1.4	2600	0.95	1016	IE4	**BK60G20-../S4E06LA4**	0.14	0.49	0.95	1.4	1.7	2500	2600	2600	2600	2600	123	16600	34000
2.6	0.4	1.7	2200	2.6	847.7	IE4	**BK70G20-../S4E06LA4**	0.17	0.55	1.1	1.7	2.1	2100	2200	2200	2200	2200	201	24100	50000
2.6	0.4	1.5	2500	2.3	964.6	IE4	**BK70G20-../S4E06LA4**	0.15	0.5	1	1.5	1.8	2400	2500	2500	2500	2500	201	24100	50000
2.6	0.4	1.3	2950	1.9	1139	IE4	**BK70G20-../S4E06LA4**	0.13	0.43	0.85	1.3	1.5	2800	2950	2950	2950	2950	201	24100	50000
2.6	0.4	1.1	3300	1.7	1280	IE4	**BK70G20-../S4E06LA4**	0.11	0.39	0.75	1.1	1.4	3200	3300	3300	3300	3300	201	24100	50000
2.6	0.4	1	3750	1.5	1457	IE4	**BK70G20-../S4E06LA4**	0.1	0.34	0.65	1	1.2	3600	3750	3750	3750	3750	201	24100	50000
2.6	0.4	0.85	4400	1.3	1696	IE4	**BK70G20-../S4E06LA4**	0.085	0.29	0.55	0.85	1	4200	4400	4400	4400	4400	201	24100	50000
2.6	0.4	0.7	5300	1.1	2040	IE4	**BK70G20-../S4E06LA4**	0.07	0.24	0.49	0.7	0.85	5100	5300	5300	5300	5300	201	24100	50000
2.6	0.4	0.55	6700	0.85	2578	IE4	**BK70G20-../S4E06LA4**	0.055	0.19	0.38	0.55	0.65	6400	6700	6700	6700	6700	201	24100	50000

MN = 3.5 Nm (PN = 0.55 kW)



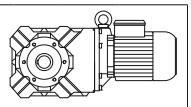
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
3.5	0.55	154	31	2.6	9.71	IE1	**BK06-../SSE06LA4**	15	51	102	154	185	22	25.5	31	31	31	11	880	-
3.5	0.55	128	37.5	2.1	11.67	IE1	**BK06-../SSE06LA4**	12.5	42.5	85	128	154	26.5	31	37.5	37.5	37.5	11	930	-
3.5	0.55	98	48.5	1.6	15.29	IE1	**BK06-../SSE06LA4**	9.8	32.5	65	98	117	34.5	40	48.5	48.5	48.5	11	1020	-
3.5	0.55	83	56	1.4	18	IE1	**BK06-../SSE06LA4**	8.3	27.5	55	83	100	40.5	46.5	56	56	56	11	1080	-
3.5	0.55	69	67	1.2	21.54	IE1	**BK06-../SSE06LA4**	6.9	23	46	69	83	48	56	67	67	67	11	1150	-
3.5	0.55	56	83	0.96	26.36	IE1	**BK06-../SSE06LA4**	5.6	18.5	37.5	56	68	59	68	83	83	83	11	1230	-
3.5	0.55	125	38	3	11.93	IE1	**BK10-../SSE06LA4**	12.5	41.5	83	125	150	27	31.5	38	38	38	23	3100	-
3.5	0.55	88	53	2.6	16.92	IE1	**BK10-../SSE06LA4**	8.8	29.5	59	88	106	38	44	53	53	53	23	3700	-
3.5	0.55	66	71	2.8	22.65	IE1	**BK10-../SSE06LA4**	6.6	22	44	66	79	50	59	71	71	71	23	4650	-
3.5	0.55	52	90	2.2	28.76	IE1	**BK10-../SSE06LA4**	5.2	17	34.5	52	62	64	75	90	90	90	23	5200	-
3.5	0.55	43.5	107	1.9	34.25	IE1	**BK10-../SSE06LA4**	4.3	14.5	29	43.5	52	77	89	107	107	107	23	5600	-
3.5	0.55	36.5	128	1.6	40.79	IE1	**BK10-../SSE06LA4**	3.6	12	24.5	36.5	44	91	106	128	128	128	23	6000	-
3.5	0.55	30.5	152	1.3	48.96	IE1	**BK10-../SSE06LA4**	3	10	20	30.5	36.5	108	126	152	152	152	23	6400	-
3.5	0.55	24	192	1	61.68	IE1	**BK10-../SSE06LA4**	2.4	8.1	16	24	29	137	159	192	192	192	23	7000	-
3.5	0.55	20.5	220	0.9	72.31	IE1	**BK10-../SSE06LA4**	2	6.9	13.5	20.5	24.5	159	184	220	220	220	23	7000	-
3.5	0.55	40.5	115	2.9	36.69	IE1	**BK20-../SSE06LA4**	4	13.5	27	40.5	49	82	95	115	115	115	33	5400	9000
3.5	0.55	35	134	2.5	42.7	IE1	**BK20-../SSE06LA4**	3.5	11.5	23	35	42	96	111	134	134	134	33	5800	9000
3.5	0.55	29	159	2.1	51.22	IE1	**BK20-../SSE06LA4**	2.9	9.7	19.5	29	35	113	132	159	159	159	33	6300	9000
3.5	0.55	24	190	1.7	61.3	IE1	**BK20-../SSE06LA4**	2.4	8.1	16	24	29	136	158	190	190	190	33	6500	9000
3.5	0.55	19.5	235	1.4	76.79	IE1	**BK20-../SSE06LA4**	1.9	6.5	13	19.5	23	168	195	235	235	235	33	7500	9000
3.5	0.55	17	265	1.2	88.12	IE1	**BK20-../SSE06LA4**	1.7	5.6	11	17	20	191	220	265	265	265	33	8000	9000
3.5	0.55	13.5	325	0.96	108.6	IE1	**BK20-../SSE06LA4**	1.3	4.6	9.2	13.5	16.5	230	270	325	325	325	33	8700	9000
3.5	0.55	12	365	0.89	124.2	IE1	**BK20Z-../SSE06LA4**	1.2	4	8	12	14	260	305	365	365	365	34	8700	9000
3.5	0.55	29.5	154	2.9	50.27	IE1	**BK30-../SSE06LA4**	2.9	9.9	19.5	29.5	35.5	110	128	154	154	154	39	8300	12000
3.5	0.55	25	182	2.5	59.27	IE1	**BK30-../SSE06LA4**	2.5	8.4	16.5	25	30	130	151	182	182	182	39	8900	12000
3.5	0.55	20.5	215	2.1	71.56	IE1	**BK30-../SSE06LA4**	2	6.9	13.5	20.5	25	155	180	215	215	215	39	9700	12000
3.5	0.55	16.5	265	1.7	88.38	IE1	**BK30-../SSE06LA4**	1.6	5.6	11	16.5	20	190	220	265	265	265	39	10600	12000
3.5	0.55	14.5	300	1.5	102.4	IE1	**BK30-../SSE06LA4**	1.4	4.8	9.7	14.5	17.5	215	250	300	300	300	39	11200	12000
3.5	0.55	12	365	1.2	123.9	IE1	**BK30Z-../SSE06LA4**	1.2	4	8	12	14.5	260	305	365	365	365	41	11200	12000
3.5	0.55	10	425	1.1	145.1	IE1	**BK30Z-../SSE06LA4**	1	3.4	6.8	10	12	300	350	425	425	425	41	11200	12000
3.5	0.55	8.1	530	0.84	184.8	IE1	**BK30Z-../SSE06LA4**	0.8	2.7	5.4	8.1	9.7	380	440	530	530	530	41	11200	12000
3.5	0.55	12.5	350	2.2	118.2	IE1	**BK40Z-../SSE06LA4**	1.2	4.2	8.4	12.5	15	250	290	350	350	350	64	11700	17000
3.5	0.55	10	420	1.9	143	IE1	**BK40Z-../SSE06LA4**	1	3.4	6.9	10	12.5	300	345	420	420	420	64	11700	17000

MN = 3.5 Nm (PN = 0.55 kW)



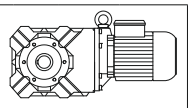
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
3.5	0.55	8.8	490	1.6	169	IE1	**BK40Z-../SSE06LA4**	0.85	2.9	5.9	8.8	10.5	350	405	490	490	490	64	11700	17000
3.5	0.55	7	600	1.3	211.5	IE1	**BK40Z-../SSE06LA4**	0.7	2.3	4.7	7	8.5	430	500	600	600	600	64	11700	17000
3.5	0.55	6	690	1.1	246.6	IE1	**BK40Z-../SSE06LA4**	0.6	2	4	6	7.2	495	570	690	690	690	64	11700	17000
3.5	0.55	5.1	820	0.83	289.8	IE1	**BK40Z-../SSE06LA4**	0.5	1.7	3.4	5.1	6.2	580	680	820	820	820	64	11700	17000
3.5	0.55	9.7	445	2.4	153.3	IE1	**BK50Z-../SSE06LA4**	0.95	3.2	6.5	9.7	11.5	315	365	445	445	445	92	14100	26000
3.5	0.55	7.2	590	1.8	206.8	IE1	**BK50Z-../SSE06LA4**	0.7	2.4	4.8	7.2	8.7	420	490	590	590	590	92	14100	26000
3.5	0.55	5.6	740	1.4	264.5	IE1	**BK50Z-../SSE06LA4**	0.55	1.8	3.7	5.6	6.8	530	620	740	740	740	92	14100	26000
3.5	0.55	4.5	930	1.1	328.2	IE1	**BK50Z-../SSE06LA4**	0.45	1.5	3	4.5	5.4	660	770	930	930	930	92	14100	26000
3.5	0.55	3.2	1300	0.88	465.1	IE1	**BK50G10-../SSE06LA4**	0.32	1	2.1	3.2	3.8	930	1080	1300	1300	1300	96	14100	111000
3.5	0.55	2.9	1430	0.8	513.4	IE1	**BK50G10-../SSE06LA4**	0.29	0.95	1.9	2.9	3.5	1020	1190	1430	1430	1430	96	14100	111000
3.5	0.55	2.4	2150	1.1	621.5	IE1	**BK60G20-../SSE06LA4**	0.24	0.8	1.6	2.4	2.8	1550	1800	2150	2150	2150	123	16600	34000
3.5	0.55	1.9	2600	0.95	752.1	IE1	**BK60G20-../SSE06LA4**	0.19	0.65	1.3	1.9	2.3	1880	2150	2600	2600	2600	123	16600	34000
3.5	0.55	1.6	3100	0.8	887.8	IE1	**BK60G20-../SSE06LA4**	0.16	0.55	1.1	1.6	2	2200	2550	3100	3100	3100	123	16600	34000
3.5	0.55	1.7	2950	1.9	847.7	IE1	**BK70G20-../SSE06LA4**	0.17	0.55	1.1	1.7	2.1	2100	2450	2950	2950	2950	201	24100	50000
3.5	0.55	1.5	3350	1.7	964.6	IE1	**BK70G20-../SSE06LA4**	0.15	0.5	1	1.5	1.8	2400	2750	3350	3350	3350	201	24100	50000
3.5	0.55	1.3	3950	1.4	1139	IE1	**BK70G20-../SSE06LA4**	0.13	0.43	0.85	1.3	1.5	2800	3300	3950	3950	3950	201	24100	50000
3.5	0.55	1.1	4450	1.3	1280	IE1	**BK70G20-../SSE06LA4**	0.11	0.39	0.75	1.1	1.4	3200	3700	4450	4450	4450	201	24100	50000
3.5	0.55	1	5000	1.1	1457	IE1	**BK70G20-../SSE06LA4**	0.1	0.34	0.65	1	1.2	3600	4200	5000	5000	5000	201	24100	50000
3.5	0.55	0.85	5900	0.96	1696	IE1	**BK70G20-../SSE06LA4**	0.085	0.29	0.55	0.85	1	4200	4900	5900	5900	5900	201	24100	50000
3.5	0.55	0.7	7100	0.8	2040	IE1	**BK70G20-../SSE06LA4**	0.07	0.24	0.49	0.7	0.85	5100	5900	7100	7100	7100	201	24100	50000

MN = 5 Nm (PN = 0.78 kW)



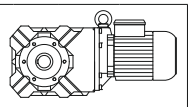
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
5	0.78	205	33	2.2	7.25	IE4	**BK06-../S4E08MA4**	20.5	68	137	205	245	33	33	33	33	33	15	800	-
5	0.78	154	44.5	1.8	9.71	IE4	**BK06-../S4E08MA4**	15	51	102	154	185	44.5	44.5	44.5	44.5	44.5	15	880	-
5	0.78	128	53	1.5	11.67	IE4	**BK06-../S4E08MA4**	12.5	42.5	85	128	154	53	53	53	53	53	15	930	-
5	0.78	98	69	1.1	15.29	IE4	**BK06-../S4E08MA4**	9.8	32.5	65	98	117	69	69	69	69	69	15	1020	-
5	0.78	83	81	0.99	18	IE4	**BK06-../S4E08MA4**	8.3	27.5	55	83	100	81	81	81	81	81	15	1080	-
5	0.78	69	96	0.83	21.54	IE4	**BK06-../S4E08MA4**	6.9	23	46	69	83	96	96	96	96	96	15	1150	-
5	0.78	159	43	2.7	9.4	IE4	**BK08-../S4E08MA4**	15.5	53	106	159	191	43	43	43	43	43	27	2700	-
5	0.78	125	54	2.1	11.93	IE4	**BK08-../S4E08MA4**	12.5	41.5	83	125	150	54	54	54	54	54	27	3100	-
5	0.78	88	76	1.8	16.92	IE4	**BK08-../S4E08MA4**	8.8	29.5	59	88	106	76	76	76	76	76	27	3700	-
5	0.78	80	83	2.4	18.52	IE4	**BK08-../S4E08MA4**	8	26.5	53	80	97	83	83	83	83	83	27	4300	-
5	0.78	66	101	2	22.65	IE4	**BK08-../S4E08MA4**	6.6	22	44	66	79	101	101	101	101	101	27	4650	-
5	0.78	52	129	1.5	28.76	IE4	**BK08-../S4E08MA4**	5.2	17	34.5	52	62	129	129	129	129	129	27	5200	-
5	0.78	43.5	154	1.3	34.25	IE4	**BK08-../S4E08MA4**	4.3	14.5	29	43.5	52	154	154	154	154	154	27	5600	-
5	0.78	36.5	183	1.1	40.79	IE4	**BK08-../S4E08MA4**	3.6	12	24.5	36.5	44	183	183	183	183	183	27	6000	-
5	0.78	30.5	215	0.92	48.96	IE4	**BK08-../S4E08MA4**	3	10	20	30.5	36.5	215	215	215	215	215	27	6400	-
5	0.78	159	43	2.7	9.4	IE4	**BK10-../S4E08MA4**	15.5	53	106	159	191	43	43	43	43	43	27	2700	-
5	0.78	125	54	2.1	11.93	IE4	**BK10-../S4E08MA4**	12.5	41.5	83	125	150	54	54	54	54	54	27	3100	-
5	0.78	88	76	1.8	16.92	IE4	**BK10-../S4E08MA4**	8.8	29.5	59	88	106	76	76	76	76	76	27	3700	-
5	0.78	80	83	2.4	18.52	IE4	**BK10-../S4E08MA4**	8	26.5	53	80	97	83	83	83	83	83	27	4300	-
5	0.78	66	101	2	22.65	IE4	**BK10-../S4E08MA4**	6.6	22	44	66	79	101	101	101	101	101	27	4650	-
5	0.78	52	129	1.5	28.76	IE4	**BK10-../S4E08MA4**	5.2	17	34.5	52	62	129	129	129	129	129	27	5200	-
5	0.78	43.5	154	1.3	34.25	IE4	**BK10-../S4E08MA4**	4.3	14.5	29	43.5	52	154	154	154	154	154	27	5600	-
5	0.78	36.5	183	1.1	40.79	IE4	**BK10-../S4E08MA4**	3.6	12	24.5	36.5	44	183	183	183	183	183	27	6000	-
5	0.78	30.5	215	0.92	48.96	IE4	**BK10-../S4E08MA4**	3	10	20	30.5	36.5	215	215	215	215	215	27	6400	-
5	0.78	86	79	2.9	17.42	IE4	**BK17-../S4E08MA4**	8.6	28.5	57	86	103	79	79	79	79	79	36	3250	9000
5	0.78	61	109	3	24.29	IE4	**BK17-../S4E08MA4**	6.1	20.5	41	61	74	109	109	109	109	109	36	4500	9000
5	0.78	52	128	2.6	28.66	IE4	**BK17-../S4E08MA4**	5.2	17	34.5	52	62	128	128	128	128	128	36	4850	9000
5	0.78	40.5	165	2	36.69	IE4	**BK17-../S4E08MA4**	4	13.5	27	40.5	49	165	165	165	165	165	36	5400	9000
5	0.78	35	192	1.7	42.7	IE4	**BK17-../S4E08MA4**	3.5	11.5	23	35	42	192	192	192	192	192	36	5800	9000
5	0.78	29	225	1.4	51.22	IE4	**BK17-../S4E08MA4**	2.9	9.7	19.5	29	35	225	225	225	225	225	36	6300	9000
5	0.78	24	270	1.2	61.3	IE4	**BK17-../S4E08MA4**	2.4	8.1	16	24	29	270	270	270	270	270	36	6500	9000
5	0.78	19.5	335	0.98	76.79	IE4	**BK17-../S4E08MA4**	1.9	6.5	13	19.5	23	335	335	335	335	335	36	7500	9000
5	0.78	17	380	0.86	88.12	IE4	**BK17-../S4E08MA4**	1.7	5.6	11	17	20	380	380	380	380	380	36	8000	9000
5	0.78	86	79	2.9	17.42	IE4	**BK20-../S4E08MA4**	8.6	28.5	57	86	103	79	79	79	79	79	36	3250	9000
5	0.78	61	109	3	24.29	IE4	**BK20-../S4E08MA4**	6.1	20.5	41	61	74	109	109	109	109	109	36	4500	9000
5	0.78	52	128	2.6	28.66	IE4	**BK20-../S4E08MA4**	5.2	17	34.5	52	62	128	128	128	128	128	36	4850	9000
5	0.78	40.5	165	2	36.69	IE4	**BK20-../S4E08MA4**	4	13.5	27	40.5	49	165	165	165	165	165	36	5400	9000
5	0.78	35	192	1.7	42.7	IE4	**BK20-../S4E08MA4**	3.5	11.5	23	35	42	192	192	192	192	192	36	5800	9000
5	0.78	29	225	1.4	51.22	IE4	**BK20-../S4E08MA4**	2.9	9.7	19.5	29	35	225	225	225	225	225	36	6300	9000
5	0.78	24	270	1.2	61.3	IE4	**BK20-../S4E08MA4**	2.4	8.1	16	24	29	270	270	270	270	270	36	6500	9000
5	0.78	19.5	335	0.98	76.79	IE4	**BK20-../S4E08MA4**	1.9	6.5	13	19.5	23	335	335	335	335	335	36	7500	9000
5	0.78	17	380	0.86	88.12	IE4	**BK20-../S4E08MA4**	1.7	5.6	11	17	20	380	380	380	380	380	36	8000	9000
5	0.78	44.5	151	3	33.7	IE4	**BK30-../S4E08MA4**	4.4	14.5	29.5	44.5	53	151	151	151	151	151	42	7000	12000
5	0.78	34.5	190	2.4	42.89	IE4	**BK30-../S4E08MA4**	3.4	11.5	23	34.5	41.5	190	190	190	190	190	42	7800	12000

MN = 5 Nm (PN = 0.78 kW)



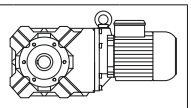
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
5	0.78	29.5	220	2	50.27	IE4	**BK30-../S4E08MA4**	2.9	9.9	19.5	29.5	35.5	220	220	220	220	220	42	8300	12000
5	0.78	25	260	1.7	59.27	IE4	**BK30-../S4E08MA4**	2.5	8.4	16.5	25	30	260	260	260	260	260	42	8900	12000
5	0.78	20.5	310	1.4	71.56	IE4	**BK30-../S4E08MA4**	2	6.9	13.5	20.5	25	310	310	310	310	310	42	9700	12000
5	0.78	16.5	380	1.2	88.38	IE4	**BK30-../S4E08MA4**	1.6	5.6	11	16.5	20	380	380	380	380	380	42	10600	12000
5	0.78	14.5	435	1	102.4	IE4	**BK30-../S4E08MA4**	1.4	4.8	9.7	14.5	17.5	435	435	435	435	435	42	11200	12000
5	0.78	12	520	0.85	123.9	IE4	**BK30Z-../S4E08MA4**	1.2	4	8	12	14.5	520	520	520	520	520	45	11200	12000
5	0.78	25	260	3	59.66	IE4	**BK40-../S4E08MA4**	2.5	8.3	16.5	25	30	260	260	260	260	260	63	9100	17000
5	0.78	21	300	2.6	70.11	IE4	**BK40-../S4E08MA4**	2.1	7.1	14	21	25.5	300	300	300	300	300	63	9800	17000
5	0.78	17.5	365	2.1	84.36	IE4	**BK40-../S4E08MA4**	1.7	5.9	11.5	17.5	21	365	365	365	365	365	63	10700	17000
5	0.78	14	440	1.8	104	IE4	**BK40-../S4E08MA4**	1.4	4.8	9.6	14	17	440	440	440	440	440	63	11700	17000
5	0.78	12.5	500	1.6	118.2	IE4	**BK40Z-../S4E08MA4**	1.2	4.2	8.4	12.5	15	500	500	500	500	500	67	11700	17000
5	0.78	10	600	1.3	143	IE4	**BK40Z-../S4E08MA4**	1	3.4	6.9	10	12.5	600	600	600	600	600	67	11700	17000
5	0.78	8.8	700	1.1	169	IE4	**BK40Z-../S4E08MA4**	0.85	2.9	5.9	8.8	10.5	700	700	700	700	700	67	11700	17000
5	0.78	7	860	0.9	211.5	IE4	**BK40Z-../S4E08MA4**	0.7	2.3	4.7	7	8.5	860	860	860	860	860	67	11700	17000
5	0.78	15.5	405	2.6	95.29	IE4	**BK50-../S4E08MA4**	1.5	5.2	10	15.5	18.5	405	405	405	405	405	91	14100	26000
5	0.78	12.5	490	2.1	115.4	IE4	**BK50Z-../S4E08MA4**	1.2	4.3	8.6	12.5	15.5	490	490	490	490	490	96	14100	26000
5	0.78	9.7	630	1.7	153.3	IE4	**BK50Z-../S4E08MA4**	0.95	3.2	6.5	9.7	11.5	630	630	630	630	630	96	14100	26000
5	0.78	7.2	840	1.2	206.8	IE4	**BK50Z-../S4E08MA4**	0.7	2.4	4.8	7.2	8.7	840	840	840	840	840	96	14100	26000
5	0.78	5.6	1070	0.98	264.5	IE4	**BK50Z-../S4E08MA4**	0.55	1.8	3.7	5.6	6.8	1070	1070	1070	1070	1070	96	14100	26000
5	0.78	9.7	760	3	153.7	IE4	**BK60Z-../S4E08MA4**	0.95	3.2	6.5	9.7	11.5	760	760	760	760	760	119	16600	34000
5	0.78	8.1	910	2.5	183.2	IE4	**BK60Z-../S4E08MA4**	0.8	2.7	5.4	8.1	9.8	910	910	910	910	910	119	16600	34000
5	0.78	7.3	1020	2.2	205	IE4	**BK60Z-../S4E08MA4**	0.7	2.4	4.8	7.3	8.7	1020	1020	1020	1020	1020	119	16600	34000
5	0.78	6.2	1190	1.9	239.7	IE4	**BK60Z-../S4E08MA4**	0.6	2	4.1	6.2	7.5	1190	1190	1190	1190	1190	119	16600	34000
5	0.78	5.5	1340	1.7	268.2	IE4	**BK60Z-../S4E08MA4**	0.55	1.8	3.7	5.5	6.7	1340	1340	1340	1340	1340	119	16600	34000
5	0.78	4.7	1580	1.4	317.7	IE4	**BK60Z-../S4E08MA4**	0.47	1.5	3.1	4.7	5.6	1580	1580	1580	1580	1580	119	16600	34000
5	0.78	4.2	1770	1.3	355.5	IE4	**BK60Z-../S4E08MA4**	0.42	1.4	2.8	4.2	5	1770	1770	1770	1770	1770	119	16600	34000
5	0.78	3.6	2050	1.1	411.5	IE4	**BK60Z-../S4E08MA4**	0.36	1.2	2.4	3.6	4.3	2050	2050	2050	2050	2050	119	16600	34000
5	0.78	3.2	2300	1	460.4	IE4	**BK60Z-../S4E08MA4**	0.32	1	2.1	3.2	3.9	2300	2300	2300	2300	2300	119	16600	34000
5	0.78	3	2450	0.92	498	IE4	**BK60Z-../S4E08MA4**	0.3	1	2	3	3.6	2450	2450	2450	2450	2450	119	16600	34000
5	0.78	2.6	2750	0.83	557.2	IE4	**BK60Z-../S4E08MA4**	0.26	0.85	1.7	2.6	3.2	2750	2750	2750	2750	2750	119	16600	34000
5	0.78	2.4	3100	0.8	621.5	IE4	**BK60G20-../S4E08MA4**	0.24	0.8	1.6	2.4	2.8	3100	3100	3100	3100	3100	126	16600	34000
5	0.78	3.9	1890	2.7	379.9	IE4	**BK70Z-../S4E08MA4**	0.39	1.3	2.6	3.9	4.7	1890	1890	1890	1890	1890	207	24100	50000
5	0.78	3.4	2150	2.4	432.1	IE4	**BK70Z-../S4E08MA4**	0.34	1.1	2.3	3.4	4.1	2150	2150	2150	2150	2150	207	24100	50000
5	0.78	2.9	2500	2.1	501.8	IE4	**BK70Z-../S4E08MA4**	0.29	0.95	1.9	2.9	3.5	2500	2500	2500	2500	2500	207	24100	50000
5	0.78	2.6	2850	1.8	570.8	IE4	**BK70Z-../S4E08MA4**	0.26	0.85	1.7	2.6	3.1	2850	2850	2850	2850	2850	207	24100	50000
5	0.78	2.3	3200	1.6	644.9	IE4	**BK70Z-../S4E08MA4**	0.23	0.75	1.5	2.3	2.7	3200	3200	3200	3200	3200	207	24100	50000
5	0.78	2	3650	1.4	733.6	IE4	**BK70Z-../S4E08MA4**	0.2	0.65	1.3	2	2.4	3650	3650	3650	3650	3650	207	24100	50000
5	0.78	1.7	4200	1.3	847.7	IE4	**BK70G20-../S4E08MA4**	0.17	0.55	1.1	1.7	2.1	4200	4200	4200	4200	4200	205	24100	50000
5	0.78	1.5	4800	1.2	964.6	IE4	**BK70G20-../S4E08MA4**	0.15	0.5	1	1.5	1.8	4800	4800	4800	4800	4800	205	24100	50000
5	0.78	1.3	5600	1	1139	IE4	**BK70G20-../S4E08MA4**	0.13	0.43	0.85	1.3	1.5	5600	5600	5600	5600	5600	205	24100	50000
5	0.78	1.1	6400	0.89	1280	IE4	**BK70G20-../S4E08MA4**	0.11	0.39	0.75	1.1	1.4	6400	6400	6400	6400	6400	205	24100	50000
5	0.78	1.9	3750	3	756.3	IE4	**BK80G40-../S4E08MA4**	0.19	0.65	1.3	1.9	2.3	3750	3750	3750	3750	3750	347	30000	75000
5	0.78	1.7	4200	2.7	847.2	IE4	**BK80G40-../S4E08MA4**	0.17	0.55	1.1	1.7	2.1	4200	4200	4200	4200	4200	347	30000	75000
5	0.78	1.5	4800	2.4	963	IE4	**BK80G40-../S4E08MA4**	0.15	0.5	1	1.5	1.8	4800	4800	4800	4800	4800	347	30000	75000
5	0.78	1.3	5300	2.1	1079	IE4	**BK80G40-../S4E08MA4**	0.13	0.46	0.9	1.3	1.6	5300	5300	5300	5300	5300	347	30000	75000
5	0.78	1.1	6500	1.8	1307	IE4	**BK80G40-../S4E08MA4**	0.11	0.38	0.75	1.1	1.3	6500	6500	6500	6500	6500	347	30000	75000
5	0.78	1	7100	1.6	1425	IE4	**BK80G40-../S4E08MA4**	0.1	0.35	0.7	1	1.2	7100	7100	7100	7100	7100	347	30000	75000
5	0.78	0.9	7900	1.5	1583	IE4	**BK80G40-../S4E08MA4**	0.09	0.31	0.6	0.9	1.1	7900	7900	7900	7900	7900	347	30000	75000
5	0.78	0.8	8800	1.3	1775	IE4	**BK80G40-../S4E08MA4**	0.08	0.28	0.55	0.8	1	8800	8800	8800	8800	8800	347	30000	75000
5	0.78	0.65	11000	1	2205	IE4	**BK80G40-../S4E08MA4**	0.065	0.22	0.45	0.65	0.8	11000	11000	11000	11000	11000	347	30000	75000
5	0.78	0.6	12200	0.94	2449	IE4	**BK80G40-../S4E08MA4**	0.06	0.2	0.4	0.6	0.7	12200	12200	12200	12200	12200	347	30000	75000
5	0.78	0.5	14000	0.82	2811	IE4	**BK80G40-../S4E08MA4**	0.05	0.17	0.35	0.5	0.6	14000	14000	14000	14000	14000	347	30000	75000
5	0.78	1.1	6800	2.7	1363	IE4	**BK90G50-../S4E08MA4**	0.11	0.36	0.7	1.1	1.3	6800	6800	6800	6800	6800	620	49400	120000
5	0.78	0.9	7800	2.3	1579	IE4	**BK90G50-../S4E08MA4**	0.09	0.31	0.6	0.9	1.1	7800	7800	7800	7800	7800	620	49400	120000
5	0.78	0.8	9000	2.1	1803	IE4	**BK90G50-../S4E08MA4**	0.08	0.27	0.55	0.8	0.95	9000	9000	9000	9000	9000	620	49400	120000
5	0.78	0.7	10000	1.8	2016	IE4	**BK90G50-../S4E08MA4**	0.07	0.24	0.49	0.7	0.85	10000	10000	10000	10000	10000	620	49400	120000
5	0.78	0.5	13800	1.3	2764	IE4	**BK90G50-../S4E08MA4**	0.05	0.18	0.36	0.5	0.65	13800	13800	13800	13800	13800	620	49400	120000
5	0.78	0.48	15300	1.2	3065	IE4	**BK90G50-../S4E08MA4**	0.048	0.16	0.32	0.48	0.55	15300	15300	15300	15300	15300	620	49400	120000
5	0.78	0.4	18300	1	3672	IE4	**BK90G50-../S4E08MA4**	0.04	0.13	0.27	0.4	0.49	18300	18300	18300	18300	18300	620	49400	120000
5	0.78	0.36	20000	0.91	4070	IE4	**BK90G50-../S4E08MA4**	0.036	0.12	0.24	0.36	0.44	20000	20000	20000	20000	20000	620	49400	120000

MN = 7 Nm (PN = 1.1 kW)



M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
7	1.1	205	46.5	1.6	7.25	IE3	**BK06-../SPE08LA4**	20.5	68	137	205	245	43	46.5	46.5	46.5	46.5	16	800	-
7	1.1	154	62	1.3	9.71	IE3	**BK06-../SPE08LA4**	15	51	102	154	185	58	62	62	62	62	16	880	-
7	1.1	128	75	1.1	11.67	IE3	**BK06-../SPE08LA4**	12.5	42.5	85	128	154	69	75	75	75	75	16	930	-
7	1.1	98	97	0.82	15.29	IE3	**BK06-../SPE08LA4**	9.8	32.5	65	98	117	90	97	97	97	97	16	1020	-
7	1.1	245	38.5	2.7	6.02	IE3	**BK08-../SPE08LA4**	24.5	83	166	245	295	35.5	38.5	38.5	38.5	38.5	28	2100	-

MN = 7 Nm (PN = 1.1 kW)

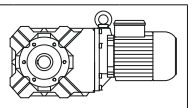


M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
7	1.1	195	49	2.3	7.68	IE3	**BK08-../SPE08LA4**	19.5	65	130	195	230	45.5	49	49	49	49	28	2400	-
7	1.1	159	60	1.9	9.4	IE3	**BK08-../SPE08LA4**	15.5	53	106	159	191	56	60	60	60	60	28	2700	-
7	1.1	140	67	2.7	10.7	IE3	**BK08-../SPE08LA4**	14	46.5	93	140	168	62	67	67	67	67	28	3500	-
7	1.1	125	76	1.5	11.93	IE3	**BK08-../SPE08LA4**	12.5	41.5	83	125	150	71	76	76	76	76	28	3100	-
7	1.1	103	91	2.2	14.5	IE3	**BK08-../SPE08LA4**	10	34	68	103	124	84	91	91	91	91	28	3900	-
7	1.1	88	106	1.3	16.92	IE3	**BK08-../SPE08LA4**	8.8	29.5	59	88	106	98	106	106	106	106	28	3700	-
7	1.1	80	116	1.7	18.52	IE3	**BK08-../SPE08LA4**	8	26.5	53	80	97	108	116	116	116	116	28	4300	-
7	1.1	66	142	1.4	22.65	IE3	**BK08-../SPE08LA4**	6.6	22	44	66	79	132	142	142	142	142	28	4650	-
7	1.1	52	181	1.1	28.76	IE3	**BK08-../SPE08LA4**	5.2	17	34.5	52	62	168	181	181	181	181	28	5200	-
7	1.1	43.5	215	0.93	34.25	IE3	**BK08-../SPE08LA4**	4.3	14.5	29	43.5	52	200	215	215	215	215	28	5600	-
7	1.1	245	38.5	2.7	6.02	IE3	**BK10-../SPE08LA4**	24.5	83	166	245	295	35.5	38.5	38.5	38.5	38.5	28	2100	-
7	1.1	195	49	2.3	7.68	IE3	**BK10-../SPE08LA4**	19.5	65	130	195	230	45.5	49	49	49	49	28	2400	-
7	1.1	159	60	1.9	9.4	IE3	**BK10-../SPE08LA4**	15.5	53	106	159	191	56	60	60	60	60	28	2700	-
7	1.1	140	67	2.7	10.7	IE3	**BK10-../SPE08LA4**	14	46.5	93	140	168	62	67	67	67	67	28	3500	-
7	1.1	125	76	1.5	11.93	IE3	**BK10-../SPE08LA4**	12.5	41.5	83	125	150	71	76	76	76	76	28	3100	-
7	1.1	103	91	2.2	14.5	IE3	**BK10-../SPE08LA4**	10	34	68	103	124	84	91	91	91	91	28	3900	-
7	1.1	88	106	1.3	16.92	IE3	**BK10-../SPE08LA4**	8.8	29.5	59	88	106	98	106	106	106	106	28	3700	-
7	1.1	80	116	1.7	18.52	IE3	**BK10-../SPE08LA4**	8	26.5	53	80	97	108	116	116	116	116	28	4300	-
7	1.1	66	142	1.4	22.65	IE3	**BK10-../SPE08LA4**	6.6	22	44	66	79	132	142	142	142	142	28	4650	-
7	1.1	52	181	1.1	28.76	IE3	**BK10-../SPE08LA4**	5.2	17	34.5	52	62	168	181	181	181	181	28	5200	-
7	1.1	43.5	215	0.93	34.25	IE3	**BK10-../SPE08LA4**	4.3	14.5	29	43.5	52	200	215	215	215	215	28	5600	-
7	1.1	86	110	2.1	17.42	IE3	**BK17-../SPE08LA4**	8.6	28.5	57	86	103	103	110	110	110	110	38	3250	9000
7	1.1	77	122	2.7	19.39	IE3	**BK17-../SPE08LA4**	7.7	25.5	51	77	92	113	122	122	122	122	38	4050	9000
7	1.1	61	153	2.2	24.29	IE3	**BK17-../SPE08LA4**	6.1	20.5	41	61	74	142	153	153	153	153	38	4500	9000
7	1.1	52	180	1.8	28.66	IE3	**BK17-../SPE08LA4**	5.2	17	34.5	52	62	167	180	180	180	180	38	4850	9000
7	1.1	40.5	230	1.4	36.69	IE3	**BK17-../SPE08LA4**	4	13.5	27	40.5	49	210	230	230	230	230	38	5400	9000
7	1.1	35	265	1.2	42.7	IE3	**BK17-../SPE08LA4**	3.5	11.5	23	35	42	245	265	265	265	265	38	5800	9000
7	1.1	29	315	1	51.22	IE3	**BK17-../SPE08LA4**	2.9	9.7	19.5	29	35	295	315	315	315	315	38	6300	9000
7	1.1	24	380	0.86	61.3	IE3	**BK17-../SPE08LA4**	2.4	8.1	16	24	29	350	380	380	380	380	38	6500	9000
7	1.1	86	110	2.1	17.42	IE3	**BK20-../SPE08LA4**	8.6	28.5	57	86	103	103	110	110	110	110	38	3250	9000
7	1.1	77	122	2.7	19.39	IE3	**BK20-../SPE08LA4**	7.7	25.5	51	77	92	113	122	122	122	122	38	4050	9000
7	1.1	61	153	2.2	24.29	IE3	**BK20-../SPE08LA4**	6.1	20.5	41	61	74	142	153	153	153	153	38	4500	9000
7	1.1	52	180	1.8	28.66	IE3	**BK20-../SPE08LA4**	5.2	17	34.5	52	62	167	180	180	180	180	38	4850	9000
7	1.1	40.5	230	1.4	36.69	IE3	**BK20-../SPE08LA4**	4	13.5	27	40.5	49	210	230	230	230	230	38	5400	9000
7	1.1	35	265	1.2	42.7	IE3	**BK20-../SPE08LA4**	3.5	11.5	23	35	42	245	265	265	265	265	38	5800	9000
7	1.1	29	315	1	51.22	IE3	**BK20-../SPE08LA4**	2.9	9.7	19.5	29	35	295	315	315	315	315	38	6300	9000
7	1.1	24	380	0.86	61.3	IE3	**BK20-../SPE08LA4**	2.4	8.1	16	24	29	350	380	380	380	380	38	6500	9000
7	1.1	71	132	2.4	20.85	IE3	**BK30-../SPE08LA4**	7.1	23.5	47.5	71	86	123	132	132	132	132	44	5000	12000
7	1.1	52	181	2.5	28.76	IE3	**BK30-../SPE08LA4**	5.2	17	34.5	52	62	168	181	181	181	181	44	6500	12000
7	1.1	44.5	210	2.1	33.7	IE3	**BK30-../SPE08LA4**	4.4	14.5	29.5	44.5	53	197	210	210	210	210	44	7000	12000
7	1.1	34.5	265	1.7	42.89	IE3	**BK30-../SPE08LA4**	3.4	11.5	23	34.5	41.5	245	265	265	265	265	44	7800	12000
7	1.1	29.5	305	1.5	50.27	IE3	**BK30-../SPE08LA4**	2.9	9.9	19.5	29.5	35.5	285	305	305	305	305	44	8300	12000
7	1.1	25	365	1.2	59.27	IE3	**BK30-../SPE08LA4**	2.5	8.4	16.5	25	30	335	365	365	365	365	44	8900	12000
7	1.1	20.5	435	1	71.56	IE3	**BK30-../SPE08LA4**	2	6.9	13.5	20.5	25	400	435	435	435	435	44	9700	12000
7	1.1	16.5	530	0.85	88.38	IE3	**BK30-../SPE08LA4**	1.6	5.6	11	16.5	20	490	530	530	530	530	44	10600	12000
7	1.1	36.5	255	3	40.88	IE3	**BK40-../SPE08LA4**	3.6	12	24	36.5	44	235	255	255	255	255	64	7600	17000
7	1.1	29	315	2.5	51.18	IE3	**BK40-../SPE08LA4**	2.9	9.7	19.5	29	35	290	315	315	315	315	64	8400	17000
7	1.1	25	365	2.1	59.66	IE3	**BK40-../SPE08LA4**	2.5	8.3	16.5	25	30	340	365	365	365	365	64	9100	17000
7	1.1	21	425	1.8	70.11	IE3	**BK40-../SPE08LA4**	2.1	7.1	14	21	25.5	395	425	425	425	425	64	9800	17000
7	1.1	17.5	510	1.5	84.36	IE3	**BK40-../SPE08LA4**	1.7	5.9	11.5	17.5	21	475	510	510	510	510	64	10700	17000
7	1.1	14	610	1.3	104	IE3	**BK40-../SPE08LA4**	1.4	4.8	9.6	14	17	570	610	610	610	610	64	11700	17000
7	1.1	12.5	700	1.1	118.2	IE3	**BK40Z-../SPE08LA4**	1.2	4.2	8.4	12.5	15	650	700	700	700	700	69	11700	17000
7	1.1	10	840	0.93	143	IE3	**BK40Z-../SPE08LA4**	1	3.4	6.9	10	12.5	780	840	840	840	840	69	11700	17000
7	1.1	24.5	370	2.8	60.76	IE3	**BK50-../SPE08LA4**	2.4	8.2	16	24.5	29.5	345	370	370	370	370	93	11400	26000
7	1.1	19.5	455	2.3	75.4	IE3	**BK50-../SPE08LA4**	1.9	6.6	13	19.5	23.5	425	455	455	455	455	93	12600	26000
7	1.1	15.5	570	1.8	95.29	IE3	**BK50-../SPE08LA4**	1.5	5.2	10	15.5	18.5	530	570	570	570	570	93	14100	26000
7	1.1	12.5	680	1.5	115.4	IE3	**BK50Z-../SPE08LA4**	1.2	4.3	8.6	12.5	15.5	630	680	680	680	680	98	14100	26000
7	1.1	9.7	890	1.2	153.3	IE3	**BK50Z-../SPE08LA4**	0.95	3.2	6.5	9.7	11.5	820	890	890	890	890	98	14100	26000
7	1.1	7.2	1180	0.88	206.8	IE3	**BK50Z-../SPE08LA4**	0.7	2.4	4.8	7.2	8.7	1100	1180	1180	1180	1180	98	14100	26000
7	1.1	9.7	1070	2.1	153.7	IE3	**BK60Z-../SPE08LA4**	0.95	3.2	6.5	9.7	11.5	990	1070	1070	1070	1070	120	16600	34000
7	1.1	8.1	1280	1.8	183.2	IE3	**BK60Z-../SPE08LA4**	0.8	2.7	5.4	8.1	9.8	1190	1280	1280	1280	1280	120	16600	34000
7	1.1	7.3	1430	1.6	205	IE3	**BK60Z-../SPE08LA4**	0.7	2.4	4.8	7.3	8.7	1330	1430	1430	1430	1430	120	16600	34000
7	1.1	6.2	1670	1.4	239.7	IE3	**BK60Z-../SPE08LA4**	0.6	2	4.1	6.2	7.5	1550	1670	1670	1670	1670	120	16600	34000
7	1.1	5.5	1870	1.2	268.2	IE3	**BK60Z-../SPE08LA4**	0.55	1.8	3.7	5.5	6.7	1740	1870	1870	1870	1870	120	16600	34000
7	1.1	4.7	2200	1	317.7	IE3	**BK60Z-../SPE08LA4**	0.47	1.5	3.1	4.7	5.6	2050	2200	2200	2200	2200	120	16600	34000
7	1.1	4.2	2450	0.92	355.5	IE3	**BK60Z-../SPE08LA4**	0.42	1.4	2.8	4.2	5	2300	2450	2450	2450	2450	120	16600	34000
7	1.1	3.6	2850	0.8	411.5	IE3	**BK60Z-../SPE08LA4**	0.36	1.2	2.4	3.6	4.3	2650	2850	2850	2850	2850	120	16600	34000
7	1.1	5.8	1800	2.9	257.3	IE3	**BK70Z-../SPE08LA4**	0.55	1.9	3.8	5.8	6.9	1670	1800	1800	1800	1800	208	24100	50000
7	1.1	5.1	2050	2.5	293.3	IE3	**BK70Z-../SPE08LA4**	0.5	1.7	3.4	5.1	6.1	1900	2050	2050	2050	2050	208	24100	50000
7	1.1	4.4	2300	2.2	333.6	IE3	**BK70Z-../SPE08LA4**	0.44	1.4	2.9	4.4	5.3	2150	2300	2300	2300	2300	208	24100	50000
7	1.1	3.9	2650	2	379.9	IE3	**BK70Z-../SPE08LA4**	0.39	1.3	2.6	3.9	4.7	2450	2650	2650	2650	2650	208	24100	50000
7	1.1	3.4	3000	1.7	432.1	IE3	**BK70Z-../SPE08LA4**	0.34	1.1	2.3	3.4	4.1	2800	3000	3000	3000	3000	208	24100	50000
7	1.1	2.9	3500	1.5	501.8	IE3	**BK70Z-../SPE08LA4**	0.29	0.95	1.9	2.9	3.5	3250	3500	3500	3500	3500	208	24100	50000
7	1.1	2.6	3950	1.3	570.8	IE3	**BK70Z-../SPE08LA4**	0.26	0.85	1.7	2.6	3.1	3700	3950	3950	3950	3950	208	24100	50000
7	1.1	2.3	4500	1.2	644.9	IE3	**BK70Z-../SPE08LA4**	0.23	0.75	1.5	2.3	2.7	4150	4500	4500	4500	4500	208	24100	50000

BK-series bevel geared motors

Selection - bevel geared motors - n_1 = 1500 $^1/_{min}$

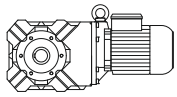
MN = 7 Nm (PN = 1.1 kW)



M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
7	1.1	2	5100	1	733.6	IE3	**BK70Z-../SPE08LA4**	0.2	0.65	1.3	2	2.4	4750	5100	5100	5100	5100	208	24100	50000
7	1.1	1.7	5900	0.96	847.7	IE3	**BK70G20-../SPE08LA4**	0.17	0.55	1.1	1.7	2.1	5500	5900	5900	5900	5900	206	24100	50000
7	1.1	1.5	6700	0.84	964.6	IE3	**BK70G20-../SPE08LA4**	0.15	0.5	1	1.5	1.8	6200	6700	6700	6700	6700	206	24100	50000
7	1.1	2.4	4250	2.7	607.8	IE3	**BK80G40-../SPE08LA4**	0.24	0.8	1.6	2.4	2.9	3950	4250	4250	4250	4250	348	30000	75000
7	1.1	2.2	4750	2.4	680.9	IE3	**BK80G40-../SPE08LA4**	0.22	0.7	1.4	2.2	2.6	4400	4750	4750	4750	4750	348	30000	75000
7	1.1	1.9	5200	2.2	756.3	IE3	**BK80G40-../SPE08LA4**	0.19	0.65	1.3	1.9	2.3	4900	5200	5200	5200	5200	348	30000	75000
7	1.1	1.7	5900	1.9	847.2	IE3	**BK80G40-../SPE08LA4**	0.17	0.55	1.1	1.7	2.1	5500	5900	5900	5900	5900	348	30000	75000
7	1.1	1.5	6700	1.7	963	IE3	**BK80G40-../SPE08LA4**	0.15	0.5	1	1.5	1.8	6200	6700	6700	6700	6700	348	30000	75000
7	1.1	1.3	7500	1.5	1079	IE3	**BK80G40-../SPE08LA4**	0.13	0.46	0.9	1.3	1.6	7000	7500	7500	7500	7500	348	30000	75000
7	1.1	1.1	9100	1.3	1307	IE3	**BK80G40-../SPE08LA4**	0.11	0.38	0.75	1.1	1.3	8400	9100	9100	9100	9100	348	30000	75000
7	1.1	1	9900	1.2	1425	IE3	**BK80G40-../SPE08LA4**	0.1	0.35	0.7	1	1.2	9200	9900	9900	9900	9900	348	30000	75000
7	1.1	0.9	11000	1	1583	IE3	**BK80G40-../SPE08LA4**	0.09	0.31	0.6	0.9	1.1	10200	11000	11000	11000	11000	348	30000	75000
7	1.1	0.8	12400	0.93	1775	IE3	**BK80G40-../SPE08LA4**	0.08	0.28	0.55	0.8	1	11500	12400	12400	12400	12400	348	30000	75000
7	1.1	1.7	6100	3	882.3	IE3	**BK90G50-../SPE08LA4**	0.17	0.55	1.1	1.7	2	5700	6100	6100	6100	6100	621	49400	120000
7	1.1	1.4	7000	2.6	1008	IE3	**BK90G50-../SPE08LA4**	0.14	0.49	0.95	1.4	1.7	6500	7000	7000	7000	7000	621	49400	120000
7	1.1	1.3	7800	2.3	1127	IE3	**BK90G50-../SPE08LA4**	0.13	0.44	0.85	1.3	1.5	7300	7800	7800	7800	7800	621	49400	120000
7	1.1	1.1	9500	1.9	1363	IE3	**BK90G50-../SPE08LA4**	0.11	0.36	0.7	1.1	1.3	8800	9500	9500	9500	9500	621	49400	120000
7	1.1	0.9	11000	1.7	1579	IE3	**BK90G50-../SPE08LA4**	0.09	0.31	0.6	0.9	1.1	10200	11000	11000	11000	11000	621	49400	120000
7	1.1	0.8	12600	1.5	1803	IE3	**BK90G50-../SPE08LA4**	0.08	0.27	0.55	0.8	0.95	11700	12600	12600	12600	12600	621	49400	120000
7	1.1	0.7	14100	1.3	2016	IE3	**BK90G50-../SPE08LA4**	0.07	0.24	0.49	0.7	0.85	13100	14100	14100	14100	14100	621	49400	120000
7	1.1	0.5	19300	0.96	2764	IE3	**BK90G50-../SPE08LA4**	0.05	0.18	0.36	0.5	0.65	17900	19300	19300	19300	19300	621	49400	120000
7	1.1	0.48	21000	0.86	3065	IE3	**BK90G50-../SPE08LA4**	0.048	0.16	0.32	0.48	0.55	19900	21000	21000	21000	21000	621	49400	120000

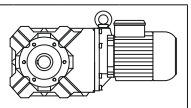
8

MN = 10 Nm (PN = 1.55 kW)



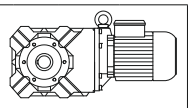
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
10	1.55	205	66	1.1	7.25	IE1	**BK06-../SSE08LA4**	20.5	68	137	205	245	43	53	66	66	66	16	800	-
10	1.55	154	89	0.9	9.71	IE1	**BK06-../SSE08LA4**	15	51	102	154	185	58	71	89	89	89	16	880	-
10	1.55	335	40.5	2.3	4.44	IE1	**BK08-../SSE08LA4**	33.5	112	225	335	405	26.5	32.5	40.5	40.5	40.5	28	1900	-
10	1.55	245	55	1.9	6.02	IE1	**BK08-../SSE08LA4**	24.5	83	166	245	295	35.5	44	55	55	55	28	2100	-
10	1.55	195	70	1.6	7.68	IE1	**BK08-../SSE08LA4**	19.5	65	130	195	230	45.5	56	70	70	70	28	2400	-
10	1.55	159	86	1.3	9.4	IE1	**BK08-../SSE08LA4**	15.5	53	106	159	191	56	69	86	86	86	28	2700	-
10	1.55	140	96	1.9	10.7	IE1	**BK08-../SSE08LA4**	14	46.5	93	140	168	62	77	96	96	96	28	3500	-
10	1.55	125	109	1	11.93	IE1	**BK08-../SSE08LA4**	12.5	41.5	83	125	150	71	87	109	109	109	28	3100	-
10	1.55	103	130	1.5	14.5	IE1	**BK08-../SSE08LA4**	10	34	68	103	124	84	104	130	130	130	28	3900	-
10	1.55	88	152	0.89	16.92	IE1	**BK08-../SSE08LA4**	8.8	29.5	59	88	106	98	121	152	152	152	28	3700	-
10	1.55	80	166	1.2	18.52	IE1	**BK08-../SSE08LA4**	8	26.5	53	80	97	108	133	166	166	166	28	4300	-
10	1.55	66	200	0.98	22.65	IE1	**BK08-../SSE08LA4**	6.6	22	44	66	79	132	163	200	200	200	28	4650	-
10	1.55	335	40.5	2.3	4.44	IE1	**BK10-../SSE08LA4**	33.5	112	225	335	405	26.5	32.5	40.5	40.5	40.5	28	1900	-
10	1.55	335	40.5	2.3	4.44	IE4	**BK10-../S4E09SA4**	33.5	112	225	335	405	34.5	40.5	40.5	40.5	40.5	32	1900	-
10	1.55	245	55	1.9	6.02	IE4	**BK10-../S4E09SA4**	24.5	83	166	245	295	47	55	55	55	55	32	2100	-
10	1.55	245	55	1.9	6.02	IE1	**BK10-../SSE08LA4**	24.5	83	166	245	295	35.5	44	55	55	55	28	2100	-
10	1.55	195	70	1.6	7.68	IE4	**BK10-../S4E09SA4**	19.5	65	130	195	230	60	70	70	70	70	32	2400	-
10	1.55	195	70	1.6	7.68	IE1	**BK10-../SSE08LA4**	19.5	65	130	195	230	45.5	56	70	70	70	28	2400	-
10	1.55	159	86	1.3	9.4	IE4	**BK10-../S4E09SA4**	15.5	53	106	159	191	73	86	86	86	86	32	2700	-
10	1.55	159	86	1.3	9.4	IE1	**BK10-../SSE08LA4**	15.5	53	106	159	191	56	69	86	86	86	28	2700	-
10	1.55	140	96	1.9	10.7	IE1	**BK10-../SSE08LA4**	14	46.5	93	140	168	62	77	96	96	96	28	3500	-
10	1.55	140	96	1.9	10.7	IE4	**BK10-../S4E09SA4**	14	46.5	93	140	168	81	96	96	96	96	32	3500	-
10	1.55	125	109	1	11.93	IE4	**BK10-../S4E09SA4**	12.5	41.5	83	125	150	93	109	109	109	109	32	3100	-
10	1.55	125	109	1	11.93	IE1	**BK10-../SSE08LA4**	12.5	41.5	83	125	150	71	87	109	109	109	28	3100	-
10	1.55	103	130	1.5	14.5	IE1	**BK10-../SSE08LA4**	10	34	68	103	124	84	104	130	130	130	28	3900	-
10	1.55	103	130	1.5	14.5	IE4	**BK10-../S4E09SA4**	10	34	68	103	124	110	130	130	130	130	32	3900	-
10	1.55	88	152	0.89	16.92	IE4	**BK10-../S4E09SA4**	8.8	29.5	59	88	106	129	152	152	152	152	32	3700	-
10	1.55	88	152	0.89	16.92	IE1	**BK10-../SSE08LA4**	8.8	29.5	59	88	106	98	121	152	152	152	28	3700	-
10	1.55	80	166	1.2	18.52	IE4	**BK10-../S4E09SA4**	8	26.5	53	80	97	141	166	166	166	166	32	4300	-
10	1.55	80	166	1.2	18.52	IE1	**BK10-../SSE08LA4**	8	26.5	53	80	97	108	133	166	166	166	28	4300	-
10	1.55	66	200	0.98	22.65	IE1	**BK10-../SSE08LA4**	6.6	22	44	66	79	132	163	200	200	200	28	4650	-
10	1.55	66	200	0.98	22.65	IE4	**BK10-../S4E09SA4**	6.6	22	44	66	79	173	200	200	200	200	32	4650	-
10	1.55	151	91	2.5	9.91	IE4	**BK17-../S4E09SA4**	15	50	100	151	181	77	91	91	91	91	42	1910	8300
10	1.55	151	91	2.5	9.91	IE1	**BK17-../SSE08LA4**	15	50	100	151	181	59	72	91	91	91	38	1910	8300
10	1.55	134	100	3	11.14	IE4	**BK17-../S4E09SA4**	13	44.5	89	134	161	85	100	100	100	100	42	3300	8100
10	1.55	134	100	3	11.14	IE1	**BK17-../SSE08LA4**	13	44.5	89	134	161	65	80	100	100	100	38	3300	8100
10	1.55	128	107	2.1	11.69	IE1	**BK17-../SSE08LA4**	12.5	42.5	85	128	153	69	86	107	107	107	38	2400	8800
10	1.55	128	107	2.1	11.69	IE4	**BK17-../S4E09SA4**	12.5	42.5	85	128	153	91	107	107	107	107	42	2400	8800
10	1.55	101	132	2.5	14.75	IE4	**BK17-../S4E09SA4**	10	33.5	67	101	122	112	132	132	132	132	42	3650	9000
10	1.55	101	132	2.5	14.75	IE1	**BK17-../SSE08LA4**	10	33.5	67	101	122	86	106	132	132	132	38	3650	9000
10	1.55	86	158	1.5	17.42	IE4	**BK17-../S4E09SA4**	8.6	28.5	57	86	103	134	158	158	158	158	42	3250	9000
10	1.55	86	158	1.5	17.42	IE1	**BK17-../SSE08LA4**	8.6	28.5	57	86	103	103	126	158	158	158	38	3250	9000
10	1.55	77	174	1.9	19.39	IE1	**BK17-../SSE08LA4**	7.7	25.5	51	77	92	113	139	174	174	174	38	4050	9000
10	1.55	77	174	1.9	19.39	IE4	**BK17-../S4E09SA4**	7.7	25.5	51	77	92	148	174	174	174	174	42	4050	9000
10	1.55	61	215	1.5	24.29	IE4	**BK17-../S4E09SA4**	6.1	20.5	41	61	74	185	215	215	215	215	42	4500	9000

MN = 10 Nm (PN = 1.55 kW)



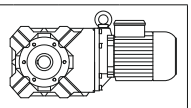
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
10	1.55	61	215	1.5	24.29	IE1	**BK17-../SSE08LA4**	6.1	20.5	41	61	74	142	174	215	215	215	38	4500	9000
10	1.55	52	255	1.3	28.66	IE1	**BK17-../SSE08LA4**	5.2	17	34.5	52	62	167	205	255	255	255	38	4850	9000
10	1.55	52	255	1.3	28.66	IE4	**BK17-../S4E09SA4**	5.2	17	34.5	52	62	215	255	255	255	255	42	4850	9000
10	1.55	40.5	330	1	36.69	IE4	**BK17-../S4E09SA4**	4	13.5	27	40.5	49	280	330	330	330	330	42	5400	9000
10	1.55	40.5	330	1	36.69	IE1	**BK17-../SSE08LA4**	4	13.5	27	40.5	49	210	260	330	330	330	38	5400	9000
10	1.55	35	380	0.86	42.7	IE4	**BK17-../S4E09SA4**	3.5	11.5	23	35	42	325	380	380	380	380	42	5800	9000
10	1.55	35	380	0.86	42.7	IE1	**BK17-../SSE08LA4**	3.5	11.5	23	35	42	245	305	380	380	380	38	5800	9000
10	1.55	151	91	2.5	9.91	IE4	**BK20-../S4E09SA4**	15	50	100	151	181	77	91	91	91	91	42	1910	8300
10	1.55	151	91	2.5	9.91	IE1	**BK20-../SSE08LA4**	15	50	100	151	181	59	72	91	91	91	38	1910	8300
10	1.55	134	100	3	11.14	IE4	**BK20-../S4E09SA4**	13	44.5	89	134	161	85	100	100	100	100	42	3300	8100
10	1.55	134	100	3	11.14	IE1	**BK20-../SSE08LA4**	13	44.5	89	134	161	65	80	100	100	100	38	3300	8100
10	1.55	128	107	2.1	11.69	IE4	**BK20-../S4E09SA4**	12.5	42.5	85	128	153	91	107	107	107	107	42	2400	8800
10	1.55	128	107	2.1	11.69	IE1	**BK20-../SSE08LA4**	12.5	42.5	85	128	153	69	86	107	107	107	38	2400	8800
10	1.55	101	132	2.5	14.75	IE4	**BK20-../S4E09SA4**	10	33.5	67	101	122	112	132	132	132	132	42	3650	9000
10	1.55	101	132	2.5	14.75	IE1	**BK20-../SSE08LA4**	10	33.5	67	101	122	86	106	132	132	132	38	3650	9000
10	1.55	86	158	1.5	17.42	IE4	**BK20-../S4E09SA4**	8.6	28.5	57	86	103	134	158	158	158	158	42	3250	9000
10	1.55	86	158	1.5	17.42	IE1	**BK20-../SSE08LA4**	8.6	28.5	57	86	103	103	126	158	158	158	38	3250	9000
10	1.55	77	174	1.9	19.39	IE1	**BK20-../SSE08LA4**	7.7	25.5	51	77	92	113	139	174	174	174	38	4050	9000
10	1.55	77	174	1.9	19.39	IE4	**BK20-../S4E09SA4**	7.7	25.5	51	77	92	148	174	174	174	174	42	4050	9000
10	1.55	61	215	1.5	24.29	IE4	**BK20-../S4E09SA4**	6.1	20.5	41	61	74	185	215	215	215	215	42	4500	9000
10	1.55	61	215	1.5	24.29	IE1	**BK20-../SSE08LA4**	6.1	20.5	41	61	74	142	174	215	215	215	38	4500	9000
10	1.55	52	255	1.3	28.66	IE4	**BK20-../S4E09SA4**	5.2	17	34.5	52	62	215	255	255	255	255	42	4850	9000
10	1.55	52	255	1.3	28.66	IE1	**BK20-../SSE08LA4**	5.2	17	34.5	52	62	167	205	255	255	255	38	4850	9000
10	1.55	40.5	330	1	36.69	IE1	**BK20-../SSE08LA4**	4	13.5	27	40.5	49	210	260	330	330	330	38	5400	9000
10	1.55	40.5	330	1	36.69	IE4	**BK20-../S4E09SA4**	4	13.5	27	40.5	49	280	330	330	330	330	42	5400	9000
10	1.55	35	380	0.86	42.7	IE1	**BK20-../SSE08LA4**	3.5	11.5	23	35	42	245	305	380	380	380	38	5800	9000
10	1.55	35	380	0.86	42.7	IE4	**BK20-../S4E09SA4**	3.5	11.5	23	35	42	325	380	380	380	380	42	5800	9000
10	1.55	125	109	2.9	11.93	IE4	**BK30-../S4E09SA4**	12.5	41.5	83	125	150	93	109	109	109	109	48	3650	12000
10	1.55	125	109	2.9	11.93	IE1	**BK30-../SSE08LA4**	12.5	41.5	83	125	150	71	87	109	109	109	44	3650	12000
10	1.55	107	127	2.5	13.98	IE4	**BK30-../S4E09SA4**	10.5	35.5	71	107	128	108	127	127	127	127	48	4050	12000
10	1.55	107	127	2.5	13.98	IE1	**BK30-../SSE08LA4**	10.5	35.5	71	107	128	82	101	127	127	127	44	4050	12000
10	1.55	83	161	2.8	17.95	IE4	**BK30-../S4E09SA4**	8.3	27.5	55	83	100	137	161	161	161	161	48	5300	12000
10	1.55	83	161	2.8	17.95	IE1	**BK30-../SSE08LA4**	8.3	27.5	55	83	100	105	129	161	161	161	44	5300	12000
10	1.55	71	189	1.7	20.85	IE4	**BK30-../S4E09SA4**	7.1	23.5	47.5	71	86	161	189	189	189	189	48	5000	12000
10	1.55	71	189	1.7	20.85	IE1	**BK30-../SSE08LA4**	7.1	23.5	47.5	71	86	123	151	189	189	189	44	5000	12000
10	1.55	64	205	2.2	23.2	IE4	**BK30-../S4E09SA4**	6.4	21.5	43	64	77	177	205	205	205	205	48	5900	12000
10	1.55	64	205	2.2	23.2	IE1	**BK30-../SSE08LA4**	6.4	21.5	43	64	77	135	167	205	205	205	44	5900	12000
10	1.55	52	255	1.7	28.76	IE1	**BK30-../SSE08LA4**	5.2	17	34.5	52	62	168	205	255	255	255	44	6500	12000
10	1.55	52	255	1.7	28.76	IE4	**BK30-../S4E09SA4**	5.2	17	34.5	52	62	220	255	255	255	255	48	6500	12000
10	1.55	44.5	300	1.5	33.7	IE4	**BK30-../S4E09SA4**	4.4	14.5	29.5	44.5	53	255	300	300	300	300	48	7000	12000
10	1.55	44.5	300	1.5	33.7	IE1	**BK30-../SSE08LA4**	4.4	14.5	29.5	44.5	53	197	240	300	300	300	44	7000	12000
10	1.55	34.5	380	1.2	42.89	IE1	**BK30-../SSE08LA4**	3.4	11.5	23	34.5	41.5	245	305	380	380	380	44	7800	12000
10	1.55	34.5	380	1.2	42.89	IE4	**BK30-../S4E09SA4**	3.4	11.5	23	34.5	41.5	320	380	380	380	380	48	7800	12000
10	1.55	29.5	440	1	50.27	IE4	**BK30-../S4E09SA4**	2.9	9.9	19.5	29.5	35.5	375	440	440	440	440	48	8300	12000
10	1.55	29.5	440	1	50.27	IE1	**BK30-../SSE08LA4**	2.9	9.9	19.5	29.5	35.5	285	350	440	440	440	44	8300	12000
10	1.55	25	520	0.86	59.27	IE1	**BK30-../SSE08LA4**	2.5	8.4	16.5	25	30	335	415	520	520	520	44	8900	12000
10	1.55	25	520	0.86	59.27	IE4	**BK30-../S4E09SA4**	2.5	8.4	16.5	25	30	440	520	520	520	520	48	8900	12000
10	1.55	52	255	3	28.59	IE4	**BK40-../S4E09SA4**	5.2	17	34.5	52	62	215	255	255	255	255	68	6300	17000
10	1.55	52	255	3	28.59	IE1	**BK40-../SSE08LA4**	5.2	17	34.5	52	62	167	205	255	255	255	64	6300	17000
10	1.55	43	310	2.5	34.61	IE4	**BK40-../S4E09SA4**	4.3	14	28.5	43	52	260	310	310	310	310	68	6900	17000
10	1.55	43	310	2.5	34.61	IE1	**BK40-../SSE08LA4**	4.3	14	28.5	43	52	200	245	310	310	310	64	6900	17000
10	1.55	36.5	365	2.1	40.88	IE4	**BK40-../S4E09SA4**	3.6	12	24	36.5	44	310	365	365	365	365	68	7600	17000
10	1.55	36.5	365	2.1	40.88	IE1	**BK40-../SSE08LA4**	3.6	12	24	36.5	44	235	290	365	365	365	64	7600	17000
10	1.55	29	450	1.7	51.18	IE4	**BK40-../S4E09SA4**	2.9	9.7	19.5	29	35	380	450	450	450	450	68	8400	17000
10	1.55	29	450	1.7	51.18	IE1	**BK40-../SSE08LA4**	2.9	9.7	19.5	29	35	290	360	450	450	450	64	8400	17000
10	1.55	25	520	1.5	59.66	IE1	**BK40-../SSE08LA4**	2.5	8.3	16.5	25	30	340	420	520	520	520	64	9100	17000
10	1.55	25	520	1.5	59.66	IE4	**BK40-../S4E09SA4**	2.5	8.3	16.5	25	30	445	520	520	520	520	68	9100	17000
10	1.55	21	600	1.3	70.11	IE4	**BK40-../S4E09SA4**	2.1	7.1	14	21	25.5	510	600	600	600	600	68	9800	17000
10	1.55	21	600	1.3	70.11	IE1	**BK40-../SSE08LA4**	2.1	7.1	14	21	25.5	395	485	600	600	600	64	9800	17000
10	1.55	17.5	730	1.1	84.36	IE4	**BK40-../S4E09SA4**	1.7	5.9	11.5	17.5	21	620	730	730	730	730	68	10700	17000
10	1.55	17.5	730	1.1	84.36	IE1	**BK40-../SSE08LA4**	1.7	5.9	11.5	17.5	21	475	580	730	730	730	64	10700	17000
10	1.55	14	880	0.88	104	IE4	**BK40-../S4E09SA4**	1.4	4.8	9.6	14	17	750	880	880	880	880	68	11700	17000
10	1.55	14	880	0.88	104	IE1	**BK40-../SSE08LA4**	1.4	4.8	9.6	14	17	570	700	880	880	880	64	11700	17000
10	1.55	31.5	420	2.5	47.5	IE1	**BK50-../SSE08LA4**	3.1	10.5	21	31.5	37.5	270	335	420	420	420	93	10100	25700
10	1.55	31.5	420	2.5	47.5	IE4	**BK50-../S4E09SA4**	3.1	10.5	21	31.5	37.5	355	420	420	420	420	96	10100	25700
10	1.55	24.5	530	2	60.76	IE4	**BK50-../S4E09SA4**	2.4	8.2	16	24.5	29.5	450	530	530	530	530	96	11400	26000
10	1.55	24.5	530	2	60.76	IE1	**BK50-../SSE08LA4**	2.4	8.2	16	24.5	29.5	345	425	530	530	530	93	11400	26000
10	1.55	19.5	650	1.6	75.4	IE4	**BK50-../S4E09SA4**	1.9	6.6	13	19.5	23.5	550	650	650	650	650	96	12600	26000
10	1.55	19.5	650	1.6	75.4	IE1	**BK50-../SSE08LA4**	1.9	6.6	13	19.5	23.5	425	520	650	650	650	93	12600	26000
10	1.55	15.5	810	1.3	95.29	IE4	**BK50-../S4E09SA4**	1.5	5.2	10	15.5	18.5	690	810	810	810	810	96	14100	26000
10	1.55	15.5	810	1.3	95.29	IE1	**BK50-../SSE08LA4**	1.5	5.2	10	15.5	18.5	530	650	810	810	810	93	14100	26000
10	1.55	12.5	980	1.1	115.4	IE4	**BK50Z-../S4E09SA4**	1.2	4.3	8.6	12.5	15.5	830	980	980	980	980	101	14100	26000
10	1.55	12.5	980	1.1	115.4	IE1	**BK50Z-../SSE08LA4**	1.2	4.3	8.6	12.5	15.5	630	780	980	980	980	98	14100	26000
10	1.55	9.7	1270	0.83	153.3	IE4	**BK50Z-../S4E09SA4**	0.95	3.2	6.5	9.7	11.5	1080	1270	1270	1270	1270	101	14100	26000
10	1.55	9.7	1270	0.83	153.3	IE1	**BK50Z-../SSE08LA4**	0.95	3.2	6.5	9.7	11.5	820	1010	1270	1270	1270	98	14100	26000
10	1.55	19	780	2.9	78.13	IE4	**BK60-../S4E09SA4**	1.9	6.3	12.5	19	23	660	780	780	780	780	105	11900	34000
10	1.55	17	870	2.6	87.41	IE4	**BK60-../S4E09SA4**	1.7	5.7	11	17	20.5	740	870	870	870	870	105	12900	34000

MN = 10 Nm (PN = 1.55 kW)



M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
10	1.55	14.5	1010	2.3	101.2	IE4	**BK60-../S4E09SA4**	1.4	4.9	9.8	14.5	17.5	860	1010	1010	1010	1010	105	13900	34000
10	1.55	13	1130	2	113.2	IE4	**BK60-../S4E09SA4**	1.3	4.4	8.8	13	15.5	960	1130	1130	1130	1130	105	15000	34000
10	1.55	12	1220	1.9	122.5	IE4	**BK60-../S4E09SA4**	1.2	4	8.1	12	14.5	1040	1220	1220	1220	1220	105	15500	34000
10	1.55	10.5	1370	1.7	137	IE4	**BK60-../S4E09SA4**	1	3.6	7.2	10.5	13	1160	1370	1370	1370	1370	105	16600	34000
10	1.55	9.7	1530	1.5	153.7	IE1	**BK60Z-../SSE08LA4**	0.95	3.2	6.5	9.7	11.5	990	1220	1530	1530	1530	120	16600	34000
10	1.55	9.7	1530	1.5	153.7	IE4	**BK60Z-../S4E09SA4**	0.95	3.2	6.5	9.7	11.5	1300	1530	1530	1530	1530	124	16600	34000
10	1.55	8.1	1830	1.3	183.2	IE1	**BK60Z-../SSE08LA4**	0.8	2.7	5.4	8.1	9.8	1190	1460	1830	1830	1830	120	16600	34000
10	1.55	8.1	1830	1.3	183.2	IE4	**BK60Z-../S4E09SA4**	0.8	2.7	5.4	8.1	9.8	1550	1830	1830	1830	1830	124	16600	34000
10	1.55	7.3	2050	1.1	205	IE4	**BK60Z-../S4E09SA4**	0.7	2.4	4.8	7.3	8.7	1740	2050	2050	2050	2050	124	16600	34000
10	1.55	7.3	2050	1.1	205	IE1	**BK60Z-../SSE08LA4**	0.7	2.4	4.8	7.3	8.7	1330	1640	2050	2050	2050	120	16600	34000
10	1.55	6.2	2350	0.96	239.7	IE1	**BK60Z-../SSE08LA4**	0.6	2	4.1	6.2	7.5	1550	1910	2350	2350	2350	120	16600	34000
10	1.55	6.2	2350	0.96	239.7	IE4	**BK60Z-../S4E09SA4**	0.6	2	4.1	6.2	7.5	2000	2350	2350	2350	2350	124	16600	34000
10	1.55	5.5	2650	0.86	268.2	IE4	**BK60Z-../S4E09SA4**	0.55	1.8	3.7	5.5	6.7	2250	2650	2650	2650	2650	124	16600	34000
10	1.55	5.5	2650	0.86	268.2	IE1	**BK60Z-../SSE08LA4**	0.55	1.8	3.7	5.5	6.7	1740	2100	2650	2650	2650	120	16600	34000
10	1.55	8.5	1750	3	175.7	IE4	**BK70-../S4E09SA4**	0.85	2.8	5.6	8.5	10	1490	1750	1750	1750	1750	191	24100	50000
10	1.55	7.8	1900	2.7	190.4	IE1	**BK70Z-../SSE08LA4**	0.75	2.6	5.2	7.8	9.4	1230	1520	1900	1900	1900	208	24100	50000
10	1.55	7.8	1900	2.7	190.4	IE4	**BK70Z-../S4E09SA4**	0.75	2.6	5.2	7.8	9.4	1610	1900	1900	1900	1900	212	24100	50000
10	1.55	6.6	2250	2.3	226.2	IE1	**BK70Z-../SSE08LA4**	0.65	2.2	4.4	6.6	7.9	1470	1800	2250	2250	2250	208	24100	50000
10	1.55	6.6	2250	2.3	226.2	IE4	**BK70Z-../S4E09SA4**	0.65	2.2	4.4	6.6	7.9	1920	2250	2250	2250	2250	212	24100	50000
10	1.55	5.8	2550	2	257.3	IE1	**BK70Z-../SSE08LA4**	0.55	1.9	3.8	5.8	6.9	1670	2050	2550	2550	2550	208	24100	50000
10	1.55	5.8	2550	2	257.3	IE4	**BK70Z-../S4E09SA4**	0.55	1.9	3.8	5.8	6.9	2150	2550	2550	2550	2550	212	24100	50000
10	1.55	5.1	2900	1.8	293.3	IE4	**BK70Z-../S4E09SA4**	0.5	1.7	3.4	5.1	6.1	2450	2900	2900	2900	2900	212	24100	50000
10	1.55	5.1	2900	1.8	293.3	IE1	**BK70Z-../SSE08LA4**	0.5	1.7	3.4	5.1	6.1	1900	2300	2900	2900	2900	208	24100	50000
10	1.55	4.4	3300	1.6	333.6	IE1	**BK70Z-../SSE08LA4**	0.44	1.4	2.9	4.4	5.3	2150	2650	3300	3300	3300	208	24100	50000
10	1.55	4.4	3300	1.6	333.6	IE4	**BK70Z-../S4E09SA4**	0.44	1.4	2.9	4.4	5.3	2800	3300	3300	3300	3300	212	24100	50000
10	1.55	3.9	3750	1.4	379.9	IE4	**BK70Z-../S4E09SA4**	0.39	1.3	2.6	3.9	4.7	3200	3750	3750	3750	3750	212	24100	50000
10	1.55	3.9	3750	1.4	379.9	IE1	**BK70Z-../SSE08LA4**	0.39	1.3	2.6	3.9	4.7	2450	3000	3750	3750	3750	208	24100	50000
10	1.55	3.4	4300	1.2	432.1	IE4	**BK70Z-../S4E09SA4**	0.34	1.1	2.3	3.4	4.1	3650	4300	4300	4300	4300	212	24100	50000
10	1.55	3.4	4300	1.2	432.1	IE1	**BK70Z-../SSE08LA4**	0.34	1.1	2.3	3.4	4.1	2800	3450	4300	4300	4300	208	24100	50000
10	1.55	2.9	5000	1	501.8	IE4	**BK70Z-../S4E09SA4**	0.29	0.95	1.9	2.9	3.5	4250	5000	5000	5000	5000	212	24100	50000
10	1.55	2.9	5000	1	501.8	IE1	**BK70Z-../SSE08LA4**	0.29	0.95	1.9	2.9	3.5	3250	4000	5000	5000	5000	208	24100	50000
10	1.55	2.6	5700	0.91	570.8	IE4	**BK70Z-../S4E09SA4**	0.26	0.85	1.7	2.6	3.1	4850	5700	5700	5700	5700	212	24100	50000
10	1.55	2.6	5700	0.91	570.8	IE1	**BK70Z-../SSE08LA4**	0.26	0.85	1.7	2.6	3.1	3700	4550	5700	5700	5700	208	24100	50000
10	1.55	2.3	6400	0.81	644.9	IE4	**BK70Z-../S4E09SA4**	0.23	0.75	1.5	2.3	2.7	5400	6400	6400	6400	6400	212	24100	50000
10	1.55	2.3	6400	0.81	644.9	IE1	**BK70Z-../SSE08LA4**	0.23	0.75	1.5	2.3	2.7	4150	5100	6400	6400	6400	208	24100	50000
10	1.55	3.8	3850	3	389	IE4	**BK80Z-../S4E09SA4**	0.38	1.2	2.5	3.8	4.6	3300	3850	3850	3850	3850	341	30000	75000
10	1.55	3.4	4350	2.6	435.7	IE4	**BK80Z-../S4E09SA4**	0.34	1.1	2.2	3.4	4.1	3700	4350	4350	4350	4350	341	30000	75000
10	1.55	3	4950	2.3	499.5	IE4	**BK80Z-../S4E09SA4**	0.3	1	2	3	3.6	4200	4950	4950	4950	4950	341	30000	75000
10	1.55	2.6	5500	2.1	559.5	IE4	**BK80Z-../S4E09SA4**	0.26	0.85	1.7	2.6	3.2	4750	5500	5500	5500	5500	341	30000	75000
10	1.55	2.4	6000	1.9	607.8	IE4	**BK80G40-../S4E09SA4**	0.24	0.8	1.6	2.4	2.9	5100	6000	6000	6000	6000	352	30000	75000
10	1.55	2.4	6000	1.9	607.8	IE1	**BK80G40-../SSE08LA4**	0.24	0.8	1.6	2.4	2.9	3950	4850	6000	6000	6000	348	30000	75000
10	1.55	2.2	6800	1.7	680.9	IE1	**BK80G40-../SSE08LA4**	0.22	0.7	1.4	2.2	2.6	4400	5400	6800	6800	6800	348	30000	75000
10	1.55	2.2	6800	1.7	680.9	IE4	**BK80G40-../S4E09SA4**	0.22	0.7	1.4	2.2	2.6	5700	6800	6800	6800	6800	352	30000	75000
10	1.55	1.9	7500	1.5	756.3	IE4	**BK80G40-../S4E09SA4**	0.19	0.65	1.3	1.9	2.3	6400	7500	7500	7500	7500	352	30000	75000
10	1.55	1.9	7500	1.5	756.3	IE1	**BK80G40-../SSE08LA4**	0.19	0.65	1.3	1.9	2.3	4900	6000	7500	7500	7500	348	30000	75000
10	1.55	1.7	8400	1.4	847.2	IE1	**BK80G40-../SSE08LA4**	0.17	0.55	1.1	1.7	2.1	5500	6700	8400	8400	8400	348	30000	75000
10	1.55	1.7	8400	1.4	847.2	IE4	**BK80G40-../S4E09SA4**	0.17	0.55	1.1	1.7	2.1	7200	8400	8400	8400	8400	352	30000	75000
10	1.55	1.5	9600	1.2	963	IE4	**BK80G40-../S4E09SA4**	0.15	0.5	1	1.5	1.8	8100	9600	9600	9600	9600	352	30000	75000
10	1.55	1.5	9600	1.2	963	IE1	**BK80G40-../SSE08LA4**	0.15	0.5	1	1.5	1.8	6200	7700	9600	9600	9600	348	30000	75000
10	1.55	1.3	10700	1.1	1079	IE1	**BK80G40-../SSE08LA4**	0.13	0.46	0.9	1.3	1.6	7000	8600	10700	10700	10700	348	30000	75000
10	1.55	1.3	10700	1.1	1079	IE4	**BK80G40-../S4E09SA4**	0.13	0.46	0.9	1.3	1.6	9100	10700	10700	10700	10700	352	30000	75000
10	1.55	1.1	13000	0.88	1307	IE1	**BK80G40-../SSE08LA4**	0.11	0.38	0.75	1.1	1.3	8400	10400	13000	13000	13000	348	30000	75000
10	1.55	1.1	13000	0.88	1307	IE4	**BK80G40-../S4E09SA4**	0.11	0.38	0.75	1.1	1.3	11100	13000	13000	13000	13000	352	30000	75000
10	1.55	1	14200	0.81	1425	IE1	**BK80G40-../SSE08LA4**	0.1	0.35	0.7	1	1.2	9200	11400	14200	14200	14200	348	30000	75000
10	1.55	1	14200	0.81	1425	IE4	**BK80G40-../S4E09SA4**	0.1	0.35	0.7	1	1.2	12100	14200	14200	14200	14200	352	30000	75000
10	1.55	2.3	6300	2.9	637.7	IE4	**BK90Z-../S4E09SA4**	0.23	0.75	1.5	2.3	2.8	5400	6300	6300	6300	6300	614	49400	120000
10	1.55	2.1	7100	2.6	713.5	IE4	**BK90Z-../S4E09SA4**	0.21	0.7	1.4	2.1	2.5	6000	7100	7100	7100	7100	614	49400	120000
10	1.55	1.8	8200	2.3	821	IE4	**BK90G50-../S4E09SA4**	0.18	0.6	1.2	1.8	2.1	6900	8200	8200	8200	8200	625	49400	120000
10	1.55	1.8	8200	2.3	821	IE1	**BK90G50-../SSE08LA4**	0.18	0.6	1.2	1.8	2.1	5300	6500	8200	8200	8200	621	49400	120000
10	1.55	1.7	8800	2.1	882.3	IE4	**BK90G50-../S4E09SA4**	0.17	0.55	1.1	1.7	2	7400	8800	8800	8800	8800	625	49400	120000
10	1.55	1.7	8800	2.1	882.3	IE1	**BK90G50-../SSE08LA4**	0.17	0.55	1.1	1.7	2	5700	7000	8800	8800	8800	621	49400	120000
10	1.55	1.4	10000	1.8	1008	IE1	**BK90G50-../SSE08LA4**	0.14	0.49	0.95	1.4	1.7	6500	8000	10000	10000	10000	621	49400	120000
10	1.55	1.4	10000	1.8	1008	IE4	**BK90G50-../S4E09SA4**	0.14	0.49	0.95	1.4	1.7	8500	10000	10000	10000	10000	625	49400	120000
10	1.55	1.3	11200	1.6	1127	IE4	**BK90G50-../S4E09SA4**	0.13	0.44	0.85	1.3	1.5	9500	11200	11200	11200	11200	625	49400	120000
10	1.55	1.3	11200	1.6	1127	IE1	**BK90G50-../SSE08LA4**	0.13	0.44	0.85	1.3	1.5	7300	9000	11200	11200	11200	621	49400	120000
10	1.55	1.1	13600	1.4	1363	IE1	**BK90G50-../SSE08LA4**	0.11	0.36	0.7	1.1	1.3	8800	10900	13600	13600	13600	621	49400	120000
10	1.55	1.1	13600	1.4	1363	IE4	**BK90G50-../S4E09SA4**	0.11	0.36	0.7	1.1	1.3	11500	13600	13600	13600	13600	625	49400	120000
10	1.55	0.9	15700	1.2	1579	IE1	**BK90G50-../SSE08LA4**	0.09	0.31	0.6	0.9	1.1	10200	12600	15700	15700	15700	621	49400	120000
10	1.55	0.9	15700	1.2	1579	IE4	**BK90G50-../S4E09SA4**	0.09	0.31	0.6	0.9	1.1	13400	15700	15700	15700	15700	625	49400	120000
10	1.55	0.8	18000	1	1803	IE1	**BK90G50-../SSE08LA4**	0.08	0.27	0.55	0.8	0.95	11700	14400	18000	18000	18000	621	49400	120000
10	1.55	0.8	18000	1	1803	IE4	**BK90G50-../S4E09SA4**	0.08	0.27	0.55	0.8	0.95	15300	18000	18000	18000	18000	625	49400	120000
10	1.55	0.7	20000	0.92	2016	IE1	**BK90G50-../SSE08LA4**	0.07	0.24	0.49	0.7	0.85	13100	16100	20000	20000	20000	621	49400	120000
10	1.55	0.7	20000	0.92	2016	IE4	**BK90G50-../S4E09SA4**	0.07	0.24	0.49	0.7	0.85	17100	20000	20000	20000	20000	625	49400	120000

MN = 14 Nm (PN = 2.2 kW)

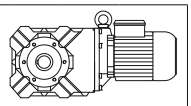


M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
14	2.2	335	57	1.7	4.44	IE2	**BK10-../SHE09SA4**	33.5	112	225	335	405	34.5	40.5	57	57	57	32	1900	-
14	2.2	335	57	1.7	4.44	IE5	**BK10-../S5E09XA4**	33.5	112	225	335	405	53	57	57	57	57	40	1900	-
14	2.2	245	77	1.4	6.02	IE5	**BK10-../S5E09XA4**	24.5	83	166	245	295	71	77	77	77	77	40	2100	-
14	2.2	245	77	1.4	6.02	IE2	**BK10-../SHE09SA4**	24.5	83	166	245	295	47	55	77	77	77	32	2100	-
14	2.2	195	98	1.2	7.68	IE5	**BK10-../S5E09XA4**	19.5	65	130	195	230	91	98	98	98	98	40	2400	-
14	2.2	195	98	1.2	7.68	IE2	**BK10-../SHE09SA4**	19.5	65	130	195	230	60	70	98	98	98	32	2400	-
14	2.2	159	121	0.95	9.4	IE5	**BK10-../S5E09XA4**	15.5	53	106	159	191	112	121	121	121	121	40	2700	-
14	2.2	159	121	0.95	9.4	IE2	**BK10-../SHE09SA4**	15.5	53	106	159	191	73	86	121	121	121	32	2700	-
14	2.2	140	134	1.3	10.7	IE5	**BK10-../S5E09XA4**	14	46.5	93	140	168	125	134	134	134	134	40	3500	-
14	2.2	140	134	1.3	10.7	IE2	**BK10-../SHE09SA4**	14	46.5	93	140	168	81	96	134	134	134	32	3500	-
14	2.2	103	182	1.1	14.5	IE5	**BK10-../S5E09XA4**	10	34	68	103	124	169	182	182	182	182	40	3900	-
14	2.2	103	182	1.1	14.5	IE2	**BK10-../SHE09SA4**	10	34	68	103	124	110	130	182	182	182	32	3900	-
14	2.2	80	230	0.86	18.52	IE2	**BK10-../SHE09SA4**	8	26.5	53	80	97	141	166	230	230	230	32	4300	-
14	2.2	80	230	0.86	18.52	IE5	**BK10-../S5E09XA4**	8	26.5	53	80	97	215	230	230	230	230	40	4300	-
14	2.2	245	77	2.8	6.02	IE5	**BK17-../S5E09XA4**	24.5	83	166	245	295	71	77	77	77	77	50	580	6800
14	2.2	245	77	2.8	6.02	IE2	**BK17-../SHE09SA4**	24.5	83	166	245	295	47	55	77	77	77	42	580	6800
14	2.2	189	101	2.3	7.91	IE2	**BK17-../SHE09SA4**	18.5	63	126	189	225	61	72	101	101	101	42	1330	7600
14	2.2	189	101	2.3	7.91	IE5	**BK17-../S5E09XA4**	18.5	63	126	189	225	94	101	101	101	101	50	1330	7600
14	2.2	151	127	1.8	9.91	IE5	**BK17-../S5E09XA4**	15	50	100	151	181	118	127	127	127	127	50	1910	8300
14	2.2	151	127	1.8	9.91	IE2	**BK17-../SHE09SA4**	15	50	100	151	181	77	91	127	127	127	42	1910	8300
14	2.2	134	140	2.1	11.14	IE5	**BK17-../S5E09XA4**	13	44.5	89	134	161	130	140	140	140	140	50	3300	8100
14	2.2	134	140	2.1	11.14	IE2	**BK17-../SHE09SA4**	13	44.5	89	134	161	85	100	140	140	140	42	3300	8100
14	2.2	128	150	1.5	11.69	IE2	**BK17-../SHE09SA4**	12.5	42.5	85	128	153	91	107	150	150	150	42	2400	8800
14	2.2	128	150	1.5	11.69	IE5	**BK17-../S5E09XA4**	12.5	42.5	85	128	153	139	150	150	150	150	50	2400	8800
14	2.2	101	185	1.8	14.75	IE5	**BK17-../S5E09XA4**	10	33.5	67	101	122	172	185	185	185	185	50	3650	9000
14	2.2	101	185	1.8	14.75	IE2	**BK17-../SHE09SA4**	10	33.5	67	101	122	112	132	185	185	185	42	3650	9000
14	2.2	86	220	1	17.42	IE2	**BK17-../SHE09SA4**	8.6	28.5	57	86	103	134	158	220	220	220	42	3250	9000
14	2.2	86	220	1	17.42	IE5	**BK17-../S5E09XA4**	8.6	28.5	57	86	103	205	220	220	220	220	50	3250	9000
14	2.2	77	240	1.4	19.39	IE5	**BK17-../S5E09XA4**	7.7	25.5	51	77	92	225	240	240	240	240	50	4050	9000
14	2.2	77	240	1.4	19.39	IE2	**BK17-../SHE09SA4**	7.7	25.5	51	77	92	148	174	240	240	240	42	4050	9000
14	2.2	61	305	1.1	24.29	IE2	**BK17-../SHE09SA4**	6.1	20.5	41	61	74	185	215	305	305	305	42	4500	9000
14	2.2	61	305	1.1	24.29	IE5	**BK17-../S5E09XA4**	6.1	20.5	41	61	74	280	305	305	305	305	50	4500	9000
14	2.2	52	360	0.91	28.66	IE2	**BK17-../SHE09SA4**	5.2	17	34.5	52	62	215	255	360	360	360	42	4850	9000
14	2.2	52	360	0.91	28.66	IE5	**BK17-../S5E09XA4**	5.2	17	34.5	52	62	335	360	360	360	360	50	4850	9000
14	2.2	245	77	2.8	6.02	IE2	**BK20-../SHE09SA4**	24.5	83	166	245	295	47	55	77	77	77	42	580	6800
14	2.2	245	77	2.8	6.02	IE5	**BK20-../S5E09XA4**	24.5	83	166	245	295	71	77	77	77	77	50	580	6800
14	2.2	189	101	2.3	7.91	IE2	**BK20-../SHE09SA4**	18.5	63	126	189	225	61	72	101	101	101	42	1330	7600
14	2.2	189	101	2.3	7.91	IE5	**BK20-../S5E09XA4**	18.5	63	126	189	225	94	101	101	101	101	50	1330	7600
14	2.2	151	127	1.8	9.91	IE5	**BK20-../S5E09XA4**	15	50	100	151	181	118	127	127	127	127	50	1910	8300
14	2.2	151	127	1.8	9.91	IE2	**BK20-../SHE09SA4**	15	50	100	151	181	77	91	127	127	127	42	1910	8300
14	2.2	134	140	2.1	11.14	IE5	**BK20-../S5E09XA4**	13	44.5	89	134	161	130	140	140	140	140	50	3300	8100
14	2.2	134	140	2.1	11.14	IE2	**BK20-../SHE09SA4**	13	44.5	89	134	161	85	100	140	140	140	42	3300	8100
14	2.2	128	150	1.5	11.69	IE5	**BK20-../S5E09XA4**	12.5	42.5	85	128	153	139	150	150	150	150	50	2400	8800
14	2.2	128	150	1.5	11.69	IE2	**BK20-../SHE09SA4**	12.5	42.5	85	128	153	91	107	150	150	150	42	2400	8800
14	2.2	101	185	1.8	14.75	IE2	**BK20-../SHE09SA4**	10	33.5	67	101	122	112	132	185	185	185	42	3650	9000
14	2.2	101	185	1.8	14.75	IE5	**BK20-../S5E09XA4**	10	33.5	67	101	122	172	185	185	185	185	50	3650	9000
14	2.2	86	220	1	17.42	IE5	**BK20-../S5E09XA4**	8.6	28.5	57	86	103	205	220	220	220	220	50	3250	9000
14	2.2	86	220	1	17.42	IE2	**BK20-../SHE09SA4**	8.6	28.5	57	86	103	134	158	220	220	220	42	3250	9000
14	2.2	77	240	1.4	19.39	IE2	**BK20-../SHE09SA4**	7.7	25.5	51	77	92	148	174	240	240	240	42	4050	9000
14	2.2	77	240	1.4	19.39	IE5	**BK20-../S5E09XA4**	7.7	25.5	51	77	92	225	240	240	240	240	50	4050	9000
14	2.2	61	305	1.1	24.29	IE5	**BK20-../S5E09XA4**	6.1	20.5	41	61	74	280	305	305	305	305	50	4500	9000
14	2.2	61	305	1.1	24.29	IE2	**BK20-../SHE09SA4**	6.1	20.5	41	61	74	185	215	305	305	305	42	4500	9000
14	2.2	52	360	0.91	28.66	IE2	**BK20-../SHE09SA4**	5.2	17	34.5	52	62	215	255	360	360	360	42	4850	9000
14	2.2	52	360	0.91	28.66	IE5	**BK20-../S5E09XA4**	5.2	17	34.5	52	62	335	360	360	360	360	50	4850	9000
14	2.2	245	77	2.7	6.02	IE5	**BK30-../S5E09XA4**	24.5	83	166	245	295	71	77	77	77	77	56	1690	9600
14	2.2	245	77	2.7	6.02	IE2	**BK30-../SHE09SA4**	24.5	83	166	245	295	47	55	77	77	77	48	1690	9600
14	2.2	200	95	2.8	7.45	IE5	**BK30-../S5E09XA4**	20	67	134	200	240	89	95	95	95	95	56	2200	10400
14	2.2	200	95	2.8	7.45	IE2	**BK30-../SHE09SA4**	20	67	134	200	240	58	68	95	95	95	48	2200	10400
14	2.2	155	124	2.6	9.63	IE5	**BK30-../S5E09XA4**	15.5	51	103	155	186	115	124	124	124	124	56	3150	11500
14	2.2	155	124	2.6	9.63	IE2	**BK30-../SHE09SA4**	15.5	51	103	155	186	75	88	124	124	124	48	3150	11500
14	2.2	131	143	2.9	11.39	IE2	**BK30-../SHE09SA4**	13	43.5	87	131	158	87	102	143	143	143	48	4150	11000
14	2.2	131	143	2.9	11.39	IE5	**BK30-../S5E09XA4**	13	43.5	87	131	158	133	143	143	143	143	56	4150	11000
14	2.2	125	153	2.1	11.93	IE5	**BK30-../S5E09XA4**	12.5	41.5	83	125	150	142	153	153	153	153	56	3650	12000
14	2.2	125	153	2.1	11.93	IE2	**BK30-../SHE09SA4**	12.5	41.5	83	125	150	93	109	153	153	153	48	3650	12000
14	2.2	107	178	1.8	13.98	IE5	**BK30-../S5E09XA4**	10.5	35.5	71	107	128	165	178	178	178	178	56	4050	12000
14	2.2	107	178	1.8	13.98	IE2	**BK30-../SHE09SA4**	10.5	35.5	71	107	128	108	127	178	178	178	48	4050	12000
14	2.2	103	182	2.5	14.5	IE5	**BK30-../S5E09XA4**	10	34	68	103	124	169	182	182	182	182	56	4900	12000
14	2.2	103	182	2.5	14.5	IE2	**BK30-../SHE09SA4**	10	34	68	103	124	110	130	182	182	182	48	4900	12000
14	2.2	83	225	2	17.95	IE2	**BK30-../SHE09SA4**	8.3	27.5	55	83	100	137	161	225	225	225	48	5300	12000
14	2.2	83	225	2	17.95	IE5	**BK30-../S5E09XA4**	8.3	27.5	55	83	100	210	225	225	225	225	56	5300	12000
14	2.2	71	265	1.2	20.85	IE2	**BK30-../SHE09SA4**	7.1	23.5	47.5	71	86	161	189	265	265	265	48	5000	12000
14	2.2	71	265	1.2	20.85	IE5	**BK30-../S5E09XA4**	7.1	23.5	47.5	71	86	245	265	265	265	265	56	5000	12000
14	2.2	64	290	1.5	23.2	IE5	**BK30-../S5E09XA4**	6.4	21.5	43	64	77	270	290	290	290	290	56	5900	12000
14	2.2	64	290	1.5	23.2	IE2	**BK30-../SHE09SA4**	6.4	21.5	43	64	77	177	205	290	290	290	48	5900	12000
14	2.2	52	360	1.2	28.76	IE2	**BK30-../SHE09SA4**	5.2	17	34.5	52	62	220	255	360	360	360	48	6500	12000
14	2.2	52	360	1.2	28.76	IE5	**BK30-../S5E09XA4**	5.2	17	34.5	52	62	335	360	360	360	360	56	6500	12000
14	2.2	44.5	420	1.1	33.7	IE5	**BK30-../S5E09XA4**	4.4	14.5	29.5	44.5	53	390	420	420	420	420	56	7000	12000
14	2.2	44.5	420	1.1	33.7	IE2	**BK30-../SHE09SA4**	4.4	14.5	29.5	44.5	53	255	300	420	420	420	48	7000	12000
14	2.2	34.5	530	0.84	42.89	IE5	**BK30-../S5E09XA4**	3.4	11.5	23	34.5	41.5	495	530	530	530	530	56	7800	12000

BK-series bevel geared motors

Selection - bevel geared motors - n_1 = 1500 $^1/_{min}$

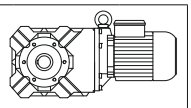
MN = 14 Nm (PN = 2.2 kW)



M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
14	2.2	34.5	530	0.84	42.89	IE2	**BK30-../SHE09SA4**	3.4	11.5	23	34.5	41.5	320	380	530	530	530	48	7800	12000
14	2.2	66	280	2.8	22.44	IE5	**BK40-../S5E09XA4**	6.6	22	44.5	66	80	260	280	280	280	280	76	5500	16500
14	2.2	66	280	2.8	22.44	IE2	**BK40-../SHE09SA4**	6.6	22	44.5	66	80	171	200	280	280	280	68	5500	16500
14	2.2	52	360	2.2	28.59	IE5	**BK40-../S5E09XA4**	5.2	17	34.5	52	62	330	360	360	360	360	76	6300	17000
14	2.2	52	360	2.2	28.59	IE2	**BK40-../SHE09SA4**	5.2	17	34.5	52	62	215	255	360	360	360	68	6300	17000
14	2.2	43	435	1.8	34.61	IE5	**BK40-../S5E09XA4**	4.3	14	28.5	43	52	400	435	435	435	435	76	6900	17000
14	2.2	43	435	1.8	34.61	IE2	**BK40-../SHE09SA4**	4.3	14	28.5	43	52	260	310	435	435	435	68	6900	17000
14	2.2	36.5	510	1.5	40.88	IE5	**BK40-../S5E09XA4**	3.6	12	24	36.5	44	475	510	510	510	510	76	7600	17000
14	2.2	36.5	510	1.5	40.88	IE2	**BK40-../SHE09SA4**	3.6	12	24	36.5	44	310	365	510	510	510	68	7600	17000
14	2.2	29	630	1.2	51.18	IE5	**BK40-../S5E09XA4**	2.9	9.7	19.5	29	35	580	630	630	630	630	76	8400	17000
14	2.2	29	630	1.2	51.18	IE2	**BK40-../SHE09SA4**	2.9	9.7	19.5	29	35	380	450	630	630	630	68	8400	17000
14	2.2	25	730	1.1	59.66	IE2	**BK40-../SHE09SA4**	2.5	8.3	16.5	25	30	445	520	730	730	730	68	9100	17000
14	2.2	25	730	1.1	59.66	IE5	**BK40-../S5E09XA4**	2.5	8.3	16.5	25	30	680	730	730	730	730	76	9100	17000
14	2.2	21	850	0.91	70.11	IE5	**BK40-../S5E09XA4**	2.1	7.1	14	21	25.5	790	850	850	850	850	76	9800	17000
14	2.2	21	850	0.91	70.11	IE2	**BK40-../SHE09SA4**	2.1	7.1	14	21	25.5	510	600	850	850	850	68	9800	17000
14	2.2	42.5	440	2.4	35.21	IE5	**BK50-../S5E09XA4**	4.2	14	28	42.5	51	410	440	440	440	440	104	8700	23100
14	2.2	42.5	440	2.4	35.21	IE2	**BK50-../SHE09SA4**	4.2	14	28	42.5	51	265	315	440	440	440	96	8700	23100
14	2.2	31.5	590	1.8	47.5	IE5	**BK50-../S5E09XA4**	3.1	10.5	21	31.5	37.5	540	590	590	590	590	104	10100	25700
14	2.2	31.5	590	1.8	47.5	IE2	**BK50-../SHE09SA4**	3.1	10.5	21	31.5	37.5	355	420	590	590	590	96	10100	25700
14	2.2	24.5	740	1.4	60.76	IE2	**BK50-../SHE09SA4**	2.4	8.2	16	24.5	29.5	450	530	740	740	740	96	11400	26000
14	2.2	24.5	740	1.4	60.76	IE5	**BK50-../S5E09XA4**	2.4	8.2	16	24.5	29.5	690	740	740	740	740	104	11400	26000
14	2.2	19.5	910	1.1	75.4	IE2	**BK50-../SHE09SA4**	1.9	6.6	13	19.5	23.5	550	650	910	910	910	96	12600	26000
14	2.2	19.5	910	1.1	75.4	IE5	**BK50-../S5E09XA4**	1.9	6.6	13	19.5	23.5	850	910	910	910	910	104	12600	26000
14	2.2	15.5	1140	0.92	95.29	IE2	**BK50-../SHE09SA4**	1.5	5.2	10	15.5	18.5	690	810	1140	1140	1140	96	14100	26000
14	2.2	15.5	1140	0.92	95.29	IE5	**BK50-../S5E09XA4**	1.5	5.2	10	15.5	18.5	1060	1140	1140	1140	1140	104	14100	26000
14	2.2	25	820	2.8	58.95	IE2	**BK60-../SHE09SA4**	2.5	8.4	16.5	25	30.5	500	580	820	820	820	105	9900	31500
14	2.2	25	820	2.8	58.95	IE5	**BK60-../S5E09XA4**	2.5	8.4	16.5	25	30.5	760	820	820	820	820	113	9900	31500
14	2.2	22.5	920	2.5	65.95	IE2	**BK60-../SHE09SA4**	2.2	7.5	15	22.5	27	560	650	920	920	920	105	10900	33000
14	2.2	22.5	920	2.5	65.95	IE5	**BK60-../S5E09XA4**	2.2	7.5	15	22.5	27	850	920	920	920	920	113	10900	33000
14	2.2	19	1090	2.1	78.13	IE5	**BK60-../S5E09XA4**	1.9	6.3	12.5	19	23	1010	1090	1090	1090	1090	113	11900	34000
14	2.2	19	1090	2.1	78.13	IE2	**BK60-../SHE09SA4**	1.9	6.3	12.5	19	23	660	780	1090	1090	1090	105	11900	34000
14	2.2	17	1220	1.9	87.41	IE2	**BK60-../SHE09SA4**	1.7	5.7	11	17	20.5	740	870	1220	1220	1220	105	12900	34000
14	2.2	17	1220	1.9	87.41	IE5	**BK60-../S5E09XA4**	1.7	5.7	11	17	20.5	1130	1220	1220	1220	1220	113	12900	34000
14	2.2	14.5	1410	1.6	101.2	IE5	**BK60-../S5E09XA4**	1.4	4.9	9.8	14.5	17.5	1310	1410	1410	1410	1410	113	13900	34000
14	2.2	14.5	1410	1.6	101.2	IE2	**BK60-../SHE09SA4**	1.4	4.9	9.8	14.5	17.5	860	1010	1410	1410	1410	105	13900	34000
14	2.2	13	1580	1.5	113.2	IE2	**BK60-../SHE09SA4**	1.3	4.4	8.8	13	15.5	960	1130	1580	1580	1580	105	15000	34000
14	2.2	13	1580	1.5	113.2	IE5	**BK60-../S5E09XA4**	1.3	4.4	8.8	13	15.5	1470	1580	1580	1580	1580	113	15000	34000
14	2.2	12	1710	1.3	122.5	IE2	**BK60-../SHE09SA4**	1.2	4	8.1	12	14.5	1040	1220	1710	1710	1710	105	15500	34000
14	2.2	12	1710	1.3	122.5	IE5	**BK60-../S5E09XA4**	1.2	4	8.1	12	14.5	1590	1710	1710	1710	1710	113	15500	34000
14	2.2	10.5	1910	1.2	137	IE5	**BK60-../S5E09XA4**	1	3.6	7.2	10.5	13	1780	1910	1910	1910	1910	113	16600	34000
14	2.2	10.5	1910	1.2	137	IE2	**BK60-../SHE09SA4**	1	3.6	7.2	10.5	13	1160	1370	1910	1910	1910	105	16600	34000
14	2.2	9.7	2150	1.1	153.7	IE2	**BK60Z-../SHE09SA4**	0.95	3.2	6.5	9.7	11.5	1300	1530	2150	2150	2150	124	16600	34000
14	2.2	9.7	2150	1.1	153.7	IE5	**BK60Z-../S5E09XA4**	0.95	3.2	6.5	9.7	11.5	1990	2150	2150	2150	2150	132	16600	34000
14	2.2	8.1	2550	0.9	183.2	IE5	**BK60Z-../S5E09XA4**	0.8	2.7	5.4	8.1	9.8	2350	2550	2550	2550	2550	132	16600	34000
14	2.2	8.1	2550	0.9	183.2	IE2	**BK60Z-../SHE09SA4**	0.8	2.7	5.4	8.1	9.8	1550	1830	2550	2550	2550	124	16600	34000
14	2.2	7.3	2850	0.8	205	IE2	**BK60Z-../SHE09SA4**	0.7	2.4	4.8	7.3	8.7	1740	2050	2850	2850	2850	124	16600	34000
14	2.2	7.3	2850	0.8	205	IE5	**BK60Z-../S5E09XA4**	0.7	2.4	4.8	7.3	8.7	2650	2850	2850	2850	2850	132	16600	34000
14	2.2	10.5	1910	2.7	136.7	IE5	**BK70-../S5E09XA4**	1	3.6	7.3	10.5	13	1770	1910	1910	1910	1910	199	20700	50000
14	2.2	10.5	1910	2.7	136.7	IE2	**BK70-../SHE09SA4**	1	3.6	7.3	10.5	13	1160	1360	1910	1910	1910	191	20700	50000
14	2.2	9.7	2150	2.4	154.4	IE5	**BK70-../S5E09XA4**	0.95	3.2	6.4	9.7	11.5	2000	2150	2150	2150	2150	199	21900	50000
14	2.2	9.7	2150	2.4	154.4	IE2	**BK70-../SHE09SA4**	0.95	3.2	6.4	9.7	11.5	1310	1540	2150	2150	2150	191	21900	50000
14	2.2	8.5	2450	2.1	175.7	IE2	**BK70-../SHE09SA4**	0.85	2.8	5.6	8.5	10	1490	1750	2450	2450	2450	191	24100	50000
14	2.2	8.5	2450	2.1	175.7	IE5	**BK70-../S5E09XA4**	0.85	2.8	5.6	8.5	10	2250	2450	2450	2450	2450	199	24100	50000
14	2.2	7.8	2650	2	190.4	IE2	**BK70Z-../SHE09SA4**	0.75	2.6	5.2	7.8	9.4	1610	1900	2650	2650	2650	212	24100	50000
14	2.2	7.8	2650	2	190.4	IE5	**BK70Z-../S5E09XA4**	0.75	2.6	5.2	7.8	9.4	2450	2650	2650	2650	2650	220	24100	50000
14	2.2	6.6	3150	1.6	226.2	IE5	**BK70Z-../S5E09XA4**	0.65	2.2	4.4	6.6	7.9	2900	3150	3150	3150	3150	220	24100	50000
14	2.2	6.6	3150	1.6	226.2	IE2	**BK70Z-../SHE09SA4**	0.65	2.2	4.4	6.6	7.9	1920	2250	3150	3150	3150	212	24100	50000
14	2.2	5.8	3600	1.4	257.3	IE2	**BK70Z-../SHE09SA4**	0.55	1.9	3.8	5.8	6.9	2150	2550	3600	3600	3600	212	24100	50000
14	2.2	5.8	3600	1.4	257.3	IE5	**BK70Z-../S5E09XA4**	0.55	1.9	3.8	5.8	6.9	3300	3600	3600	3600	3600	220	24100	50000
14	2.2	5.1	4100	1.3	293.3	IE5	**BK70Z-../S5E09XA4**	0.5	1.7	3.4	5.1	6.1	3800	4100	4100	4100	4100	220	24100	50000
14	2.2	5.1	4100	1.3	293.3	IE2	**BK70Z-../SHE09SA4**	0.5	1.7	3.4	5.1	6.1	2450	2900	4100	4100	4100	212	24100	50000
14	2.2	4.4	4650	1.1	333.6	IE5	**BK70Z-../S5E09XA4**	0.44	1.4	2.9	4.4	5.3	4300	4650	4650	4650	4650	220	24100	50000
14	2.2	4.4	4650	1.1	333.6	IE2	**BK70Z-../SHE09SA4**	0.44	1.4	2.9	4.4	5.3	2800	3300	4650	4650	4650	212	24100	50000
14	2.2	3.9	5300	0.98	379.9	IE5	**BK70Z-../S5E09XA4**	0.39	1.3	2.6	3.9	4.7	4900	5300	5300	5300	5300	220	24100	50000
14	2.2	3.9	5300	0.98	379.9	IE2	**BK70Z-../SHE09SA4**	0.39	1.3	2.6	3.9	4.7	3200	3750	5300	5300	5300	212	24100	50000
14	2.2	3.4	6000	0.86	432.1	IE5	**BK70Z-../S5E09XA4**	0.34	1.1	2.3	3.4	4.1	5600	6000	6000	6000	6000	220	24100	50000
14	2.2	3.4	6000	0.86	432.1	IE2	**BK70Z-../SHE09SA4**	0.34	1.1	2.3	3.4	4.1	3650	4300	6000	6000	6000	212	24100	50000
14	2.2	4.9	4200	2.7	300.6	IE2	**BK80Z-../SHE09SA4**	0.49	1.6	3.3	4.9	5.9	2550	3000	4200	4200	4200	341	30000	75000
14	2.2	4.9	4200	2.7	300.6	IE5	**BK80Z-../S5E09XA4**	0.49	1.6	3.3	4.9	5.9	3900	4200	4200	4200	4200	349	30000	75000
14	2.2	4.4	4700	2.4	336.7	IE5	**BK80Z-../S5E09XA4**	0.44	1.4	2.9	4.4	5.3	4350	4700	4700	4700	4700	349	30000	75000
14	2.2	4.4	4700	2.4	336.7	IE2	**BK80Z-../SHE09SA4**	0.44	1.4	2.9	4.4	5.3	2850	3350	4700	4700	4700	341	30000	75000
14	2.2	3.8	5400	2.1	389	IE2	**BK80Z-../SHE09SA4**	0.38	1.2	2.5	3.8	4.6	3300	3850	5400	5400	5400	341	30000	75000
14	2.2	3.8	5400	2.1	389	IE5	**BK80Z-../S5E09XA4**	0.38	1.2	2.5	3.8	4.6	5000	5400	5400	5400	5400	349	30000	75000
14	2.2	3.4	6000	1.9	435.7	IE2	**BK80Z-../SHE09SA4**	0.34	1.1	2.2	3.4	4.1	3700	4350	6000	6000	6000	341	30000	75000
14	2.2	3.4	6000	1.9	435.7	IE5	**BK80Z-../S5E09XA4**	0.34	1.1	2.2	3.4	4.1	5600	6000	6000	6000	6000	349	30000	75000
14	2.2	3	6900	1.6	499.5	IE2	**BK80Z-../SHE09SA4**	0.3	1	2	3	3.6	4200	4950	6900	6900	6900	341	30000	75000
14	2.2	3	6900	1.6	499.5	IE5	**BK80Z-../S5E09XA4**	0.3	1	2	3	3.6	6400	6900	6900	6900	6900	349	30000	75000

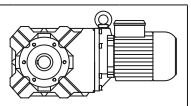
8

MN = 14 Nm (PN = 2.2 kW)



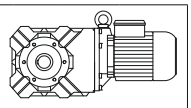
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
14	2.2	2.6	7800	1.5	559.5	IE5	**BK80Z-../S5E09XA4**	0.26	0.85	1.7	2.6	3.2	7200	7800	7800	7800	7800	349	30000	75000
14	2.2	2.6	7800	1.5	559.5	IE2	**BK80Z-../SHE09SA4**	0.26	0.85	1.7	2.6	3.2	4750	5500	7800	7800	7800	341	30000	75000
14	2.2	2.4	8500	1.4	607.8	IE5	**BK80G40-../S5E09XA4**	0.24	0.8	1.6	2.4	2.9	7900	8500	8500	8500	8500	360	30000	75000
14	2.2	2.4	8500	1.4	607.8	IE2	**BK80G40-../SHE09SA4**	0.24	0.8	1.6	2.4	2.9	5100	6000	8500	8500	8500	352	30000	75000
14	2.2	2.2	9500	1.2	680.9	IE2	**BK80G40-../SHE09SA4**	0.22	0.7	1.4	2.2	2.6	5700	6800	9500	9500	9500	352	30000	75000
14	2.2	2.2	9500	1.2	680.9	IE5	**BK80G40-../S5E09XA4**	0.22	0.7	1.4	2.2	2.6	8800	9500	9500	9500	9500	360	30000	75000
14	2.2	1.9	10500	1.1	756.3	IE5	**BK80G40-../S5E09XA4**	0.19	0.65	1.3	1.9	2.3	9800	10500	10500	10500	10500	360	30000	75000
14	2.2	1.9	10500	1.1	756.3	IE2	**BK80G40-../SHE09SA4**	0.19	0.65	1.3	1.9	2.3	6400	7500	10500	10500	10500	352	30000	75000
14	2.2	1.7	11800	0.97	847.2	IE2	**BK80G40-../SHE09SA4**	0.17	0.55	1.1	1.7	2.1	7200	8400	11800	11800	11800	352	30000	75000
14	2.2	1.7	11800	0.97	847.2	IE5	**BK80G40-../S5E09XA4**	0.17	0.55	1.1	1.7	2.1	11000	11800	11800	11800	11800	360	30000	75000
14	2.2	1.5	13400	0.85	963	IE2	**BK80G40-../SHE09SA4**	0.15	0.5	1	1.5	1.8	8100	9600	13400	13400	13400	352	30000	75000
14	2.2	1.5	13400	0.85	963	IE5	**BK80G40-../S5E09XA4**	0.15	0.5	1	1.5	1.8	12500	13400	13400	13400	13400	360	30000	75000
14	2.2	3.4	6000	3	435.3	IE5	**BK90Z-../S5E09XA4**	0.34	1.1	2.2	3.4	4.1	5600	6000	6000	6000	6000	622	49400	120000
14	2.2	3.4	6000	3	435.3	IE2	**BK90Z-../SHE09SA4**	0.34	1.1	2.2	3.4	4.1	3700	4350	6000	6000	6000	614	49400	120000
14	2.2	3	6900	2.6	499.2	IE5	**BK90Z-../S5E09XA4**	0.3	1	2	3	3.6	6400	6900	6900	6900	6900	622	49400	120000
14	2.2	3	6900	2.6	499.2	IE2	**BK90Z-../SHE09SA4**	0.3	1	2	3	3.6	4200	4950	6900	6900	6900	614	49400	120000
14	2.2	2.6	7800	2.4	558.5	IE5	**BK90Z-../S5E09XA4**	0.26	0.85	1.7	2.6	3.2	7200	7800	7800	7800	7800	622	49400	120000
14	2.2	2.6	7800	2.4	558.5	IE2	**BK90Z-../SHE09SA4**	0.26	0.85	1.7	2.6	3.2	4700	5500	7800	7800	7800	614	49400	120000
14	2.2	2.3	8900	2.1	637.7	IE2	**BK90Z-../SHE09SA4**	0.23	0.75	1.5	2.3	2.8	5400	6300	8900	8900	8900	614	49400	120000
14	2.2	2.3	8900	2.1	637.7	IE5	**BK90Z-../S5E09XA4**	0.23	0.75	1.5	2.3	2.8	8200	8900	8900	8900	8900	622	49400	120000
14	2.2	2.1	9900	1.9	713.5	IE5	**BK90Z-../S5E09XA4**	0.21	0.7	1.4	2.1	2.5	9200	9900	9900	9900	9900	622	49400	120000
14	2.2	2.1	9900	1.9	713.5	IE2	**BK90Z-../SHE09SA4**	0.21	0.7	1.4	2.1	2.5	6000	7100	9900	9900	9900	614	49400	120000
14	2.2	1.8	11400	1.6	821	IE5	**BK90G50-../S5E09XA4**	0.18	0.6	1.2	1.8	2.1	10600	11400	11400	11400	11400	633	49400	120000
14	2.2	1.8	11400	1.6	821	IE2	**BK90G50-../SHE09SA4**	0.18	0.6	1.2	1.8	2.1	6900	8200	11400	11400	11400	625	49400	120000
14	2.2	1.7	12300	1.5	882.3	IE5	**BK90G50-../S5E09XA4**	0.17	0.55	1.1	1.7	2	11400	12300	12300	12300	12300	633	49400	120000
14	2.2	1.7	12300	1.5	882.3	IE2	**BK90G50-../SHE09SA4**	0.17	0.55	1.1	1.7	2	7400	8800	12300	12300	12300	625	49400	120000
14	2.2	1.4	14100	1.3	1008	IE2	**BK90G50-../SHE09SA4**	0.14	0.49	0.95	1.4	1.7	8500	10000	14100	14100	14100	625	49400	120000
14	2.2	1.4	14100	1.3	1008	IE5	**BK90G50-../S5E09XA4**	0.14	0.49	0.95	1.4	1.7	13100	14100	14100	14100	14100	633	49400	120000
14	2.2	1.3	15700	1.2	1127	IE5	**BK90G50-../S5E09XA4**	0.13	0.44	0.85	1.3	1.5	14600	15700	15700	15700	15700	633	49400	120000
14	2.2	1.3	15700	1.2	1127	IE2	**BK90G50-../SHE09SA4**	0.13	0.44	0.85	1.3	1.5	9500	11200	15700	15700	15700	625	49400	120000
14	2.2	1.1	19000	0.97	1363	IE2	**BK90G50-../SHE09SA4**	0.11	0.36	0.7	1.1	1.3	11500	13600	19000	19000	19000	625	49400	120000
14	2.2	1.1	19000	0.97	1363	IE5	**BK90G50-../S5E09XA4**	0.11	0.36	0.7	1.1	1.3	17700	19000	19000	19000	19000	633	49400	120000
14	2.2	0.9	22000	0.84	1579	IE5	**BK90G50-../S5E09XA4**	0.09	0.31	0.6	0.9	1.1	20500	22000	22000	22000	22000	633	49400	120000
14	2.2	0.9	22000	0.84	1579	IE2	**BK90G50-../SHE09SA4**	0.09	0.31	0.6	0.9	1.1	13400	15700	22000	22000	22000	625	49400	120000

MN = 19 Nm (PN = 3 kW)



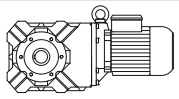
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
19	3	315	82	2.3	4.73	IE4	**BK30-../S4E11SA6**	31.5	105	210	315	380	82	82	82	82	82	65	1550	8800
19	3	245	105	2	6.02	IE4	**BK30-../S4E11SA6**	24.5	83	166	245	295	105	105	105	105	105	65	1690	9600
19	3	200	130	2	7.45	IE4	**BK30-../S4E11SA6**	20	67	134	200	240	130	130	130	130	130	65	2200	10400
19	3	155	168	1.9	9.63	IE4	**BK30-../S4E11SA6**	15.5	51	103	155	186	168	168	168	168	168	65	3150	11500
19	3	131	194	2.1	11.39	IE4	**BK30-../S4E11SA6**	13	43.5	87	131	158	194	194	194	194	194	65	4150	11000
19	3	125	205	1.5	11.93	IE4	**BK30-../S4E11SA6**	12.5	41.5	83	125	150	205	205	205	205	205	65	3650	12000
19	3	107	240	1.3	13.98	IE4	**BK30-../S4E11SA6**	10.5	35.5	71	107	128	240	240	240	240	240	65	4050	12000
19	3	103	245	1.8	14.5	IE4	**BK30-../S4E11SA6**	10	34	68	103	124	245	245	245	245	245	65	4900	12000
19	3	83	305	1.5	17.95	IE4	**BK30-../S4E11SA6**	8.3	27.5	55	83	100	305	305	305	305	305	65	5300	12000
19	3	64	395	1.1	23.2	IE4	**BK30-../S4E11SA6**	6.4	21.5	43	64	77	395	395	395	395	395	65	5900	12000
19	3	52	490	0.92	28.76	IE4	**BK30-../S4E11SA6**	5.2	17	34.5	52	62	490	490	490	490	490	65	6500	12000
19	3	161	162	3	9.31	IE4	**BK40-../S4E11SA6**	16	53	107	161	193	162	162	162	162	162	90	1040	11200
19	3	126	205	2.4	11.86	IE4	**BK40-../S4E11SA6**	12.5	42	84	126	151	205	205	205	205	205	90	1770	12200
19	3	83	305	2.5	18.05	IE4	**BK40-../S4E11SA6**	8.3	27.5	55	83	99	305	305	305	305	305	90	4900	15300
19	3	66	380	2	22.44	IE4	**BK40-../S4E11SA6**	6.6	22	44.5	66	80	380	380	380	380	380	90	5500	16500
19	3	52	485	1.6	28.59	IE4	**BK40-../S4E11SA6**	5.2	17	34.5	52	62	485	485	485	485	485	90	6300	17000
19	3	43	590	1.3	34.61	IE4	**BK40-../S4E11SA6**	4.3	14	28.5	43	52	590	590	590	590	590	90	6900	17000
19	3	36.5	690	1.1	40.88	IE4	**BK40-../S4E11SA6**	3.6	12	24	36.5	44	690	690	690	690	690	90	7600	17000
19	3	83	305	2.3	17.92	IE4	**BK50-../S4E11SA6**	8.3	27.5	55	83	100	305	305	305	305	305	120	4600	16800
19	3	56	450	2.3	26.51	IE4	**BK50-../S4E11SA6**	5.6	18.5	37.5	56	67	450	450	450	450	450	120	7800	21200
19	3	42.5	600	1.7	35.21	IE4	**BK50-../S4E11SA6**	4.2	14	28	42.5	51	600	600	600	600	600	120	8700	23100
19	3	31.5	800	1.3	47.5	IE4	**BK50-../S4E11SA6**	3.1	10.5	21	31.5	37.5	800	800	800	800	800	120	10100	25700
19	3	24.5	1010	1	60.76	IE4	**BK50-../S4E11SA6**	2.4	8.2	16	24.5	29.5	1010	1010	1010	1010	1010	120	11400	26000
19	3	19.5	1240	0.84	75.4	IE4	**BK50-../S4E11SA6**	1.9	6.6	13	19.5	23.5	1240	1240	1240	1240	1240	120	12600	26000
19	3	33	850	2.7	45.05	IE4	**BK60-../S4E11SA6**	3.3	11	22	33	39.5	850	850	850	850	850	130	8200	28300
19	3	29.5	950	2.4	50.4	IE4	**BK60-../S4E11SA6**	2.9	9.9	19.5	29.5	35.5	950	950	950	950	950	130	9100	29800
19	3	25	1120	2.1	58.95	IE4	**BK60-../S4E11SA6**	2.5	8.4	16.5	25	30.5	1120	1120	1120	1120	1120	130	9900	31500
19	3	22.5	1250	1.8	65.95	IE4	**BK60-../S4E11SA6**	2.2	7.5	15	22.5	27	1250	1250	1250	1250	1250	130	10900	33000
19	3	19	1480	1.5	78.13	IE4	**BK60-../S4E11SA6**	1.9	6.3	12.5	19	23	1480	1480	1480	1480	1480	130	11900	34000
19	3	17	1660	1.4	87.41	IE4	**BK60-../S4E11SA6**	1.7	5.7	11	17	20.5	1660	1660	1660	1660	1660	130	12900	34000
19	3	14.5	1920	1.2	101.2	IE4	**BK60-../S4E11SA6**	1.4	4.9	9.8	14.5	17.5	1920	1920	1920	1920	1920	130	13900	34000
19	3	13	2150	1.1	113.2	IE4	**BK60-../S4E11SA6**	1.3	4.4	8.8	13	15.5	2150	2150	2150	2150	2150	130	15000	34000
19	3	12	2300	0.99	122.5	IE4	**BK60-../S4E11SA6**	1.2	4	8.1	12	14.5	2300	2300	2300	2300	2300	130	15500	34000
19	3	10.5	2600	0.88	137	IE4	**BK60-../S4E11SA6**	1	3.6	7.2	10.5	13	2600	2600	2600	2600	2600	130	16600	34000

MN = 19 Nm (PN = 3 kW)



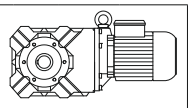
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
19	3	16	1720	3	90.96	IE4	**BK70-../S4E11SA6**	1.6	5.4	10.5	16	19.5	1720	1720	1720	1720	1720	209	15300	49900
19	3	14	1960	2.6	103.5	IE4	**BK70-../S4E11SA6**	1.4	4.8	9.6	14	17	1960	1960	1960	1960	1960	209	17200	50000
19	3	12	2250	2.3	120.2	IE4	**BK70-../S4E11SA6**	1.2	4.1	8.3	12	14.5	2250	2250	2250	2250	2250	209	18600	50000
19	3	10.5	2550	2	136.7	IE4	**BK70-../S4E11SA6**	1	3.6	7.3	10.5	13	2550	2550	2550	2550	2550	209	20700	50000
19	3	9.7	2900	1.8	154.4	IE4	**BK70-../S4E11SA6**	0.95	3.2	6.4	9.7	11.5	2900	2900	2900	2900	2900	209	21900	50000
19	3	8.5	3300	1.6	175.7	IE4	**BK70-../S4E11SA6**	0.85	2.8	5.6	8.5	10	3300	3300	3300	3300	3300	209	24100	50000
19	3	7.8	3600	1.4	190.4	IE4	**BK70Z-../S4E11SA6**	0.75	2.6	5.2	7.8	9.4	3600	3600	3600	3600	3600	236	24100	50000
19	3	6.6	4250	1.2	226.2	IE4	**BK70Z-../S4E11SA6**	0.65	2.2	4.4	6.6	7.9	4250	4250	4250	4250	4250	236	24100	50000
19	3	5.8	4850	1.1	257.3	IE4	**BK70Z-../S4E11SA6**	0.55	1.9	3.8	5.8	6.9	4850	4850	4850	4850	4850	236	24100	50000
19	3	5.1	5500	0.93	293.3	IE4	**BK70Z-../S4E11SA6**	0.5	1.7	3.4	5.1	6.1	5500	5500	5500	5500	5500	236	24100	50000
19	3	4.4	6300	0.82	333.6	IE4	**BK70Z-../S4E11SA6**	0.44	1.4	2.9	4.4	5.3	6300	6300	6300	6300	6300	236	24100	50000
19	3	7.5	3750	3	198.9	IE4	**BK80Z-../S4E11SA6**	0.75	2.5	5	7.5	9	3750	3750	3750	3750	3750	366	30000	75000
19	3	6.6	4250	2.7	226.1	IE4	**BK80Z-../S4E11SA6**	0.65	2.2	4.4	6.6	7.9	4250	4250	4250	4250	4250	366	30000	75000
19	3	5.9	4800	2.4	253.3	IE4	**BK80Z-../S4E11SA6**	0.55	1.9	3.9	5.9	7.1	4800	4800	4800	4800	4800	366	30000	75000
19	3	4.9	5700	2	300.6	IE4	**BK80Z-../S4E11SA6**	0.49	1.6	3.3	4.9	5.9	5700	5700	5700	5700	5700	366	30000	75000
19	3	4.4	6300	1.8	336.7	IE4	**BK80Z-../S4E11SA6**	0.44	1.4	2.9	4.4	5.3	6300	6300	6300	6300	6300	366	30000	75000
19	3	3.8	7300	1.6	389	IE4	**BK80Z-../S4E11SA6**	0.38	1.2	2.5	3.8	4.6	7300	7300	7300	7300	7300	366	30000	75000
19	3	3.4	8200	1.4	435.7	IE4	**BK80Z-../S4E11SA6**	0.34	1.1	2.2	3.4	4.1	8200	8200	8200	8200	8200	366	30000	75000
19	3	3	9400	1.2	499.5	IE4	**BK80Z-../S4E11SA6**	0.3	1	2	3	3.6	9400	9400	9400	9400	9400	366	30000	75000
19	3	2.6	10600	1.1	559.5	IE4	**BK80Z-../S4E11SA6**	0.26	0.85	1.7	2.6	3.2	10600	10600	10600	10600	10600	366	30000	75000
19	3	2.4	11500	1	607.8	IE4	**BK80G40-../S4E11SA6**	0.24	0.8	1.6	2.4	2.9	11500	11500	11500	11500	11500	374	30000	75000
19	3	2.2	12900	0.89	680.9	IE4	**BK80G40-../S4E11SA6**	0.22	0.7	1.4	2.2	2.6	12900	12900	12900	12900	12900	374	30000	75000
19	3	1.9	14300	0.8	756.3	IE4	**BK80G40-../S4E11SA6**	0.19	0.65	1.3	1.9	2.3	14300	14300	14300	14300	14300	374	30000	75000
19	3	4.5	6200	2.9	330.7	IE4	**BK90Z-../S4E11SA6**	0.45	1.5	3	4.5	5.4	6200	6200	6200	6200	6200	632	49400	120000
19	3	3.8	7300	2.5	389.1	IE4	**BK90Z-../S4E11SA6**	0.38	1.2	2.5	3.8	4.6	7300	7300	7300	7300	7300	632	49400	120000
19	3	3.4	8200	2.2	435.3	IE4	**BK90Z-../S4E11SA6**	0.34	1.1	2.2	3.4	4.1	8200	8200	8200	8200	8200	632	49400	120000
19	3	3	9400	2	499.2	IE4	**BK90Z-../S4E11SA6**	0.3	1	2	3	3.6	9400	9400	9400	9400	9400	632	49400	120000
19	3	2.6	10600	1.7	558.5	IE4	**BK90Z-../S4E11SA6**	0.26	0.85	1.7	2.6	3.2	10600	10600	10600	10600	10600	632	49400	120000
19	3	2.3	12100	1.5	637.7	IE4	**BK90Z-../S4E11SA6**	0.23	0.75	1.5	2.3	2.8	12100	12100	12100	12100	12100	632	49400	120000
19	3	2.1	13500	1.4	713.5	IE4	**BK90Z-../S4E11SA6**	0.21	0.7	1.4	2.1	2.5	13500	13500	13500	13500	13500	632	49400	120000
19	3	1.8	15500	1.2	821	IE4	**BK90G50-../S4E11SA6**	0.18	0.6	1.2	1.8	2.1	15500	15500	15500	15500	15500	648	49400	120000
19	3	1.7	16700	1.1	882.3	IE4	**BK90G50-../S4E11SA6**	0.17	0.55	1.1	1.7	2	16700	16700	16700	16700	16700	648	49400	120000
19	3	1.4	19100	0.97	1008	IE4	**BK90G50-../S4E11SA6**	0.14	0.49	0.95	1.4	1.7	19100	19100	19100	19100	19100	648	49400	120000
19	3	1.3	21000	0.86	1127	IE4	**BK90G50-../S4E11SA6**	0.13	0.44	0.85	1.3	1.5	21000	21000	21000	21000	21000	648	49400	120000

MN = 20 Nm (PN = 3.1 kW)



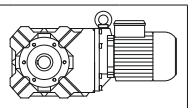
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
20	3.1	335	81	1.2	4.44	IE3	**BK10-../SPE09XA4**	33.5	112	225	335	405	53	65	81	81	81	40	1900	-
20	3.1	245	110	0.95	6.02	IE3	**BK10-../SPE09XA4**	24.5	83	166	245	295	71	88	110	110	110	40	2100	-
20	3.1	195	141	0.81	7.68	IE3	**BK10-../SPE09XA4**	19.5	65	130	195	230	91	113	141	141	141	40	2400	-
20	3.1	140	192	0.94	10.7	IE3	**BK10-../SPE09XA4**	14	46.5	93	140	168	125	154	192	192	192	40	3500	-
20	3.1	330	83	2.3	4.54	IE3	**BK17-../SPE09XA4**	33	110	220	330	395	54	66	83	83	83	50	520	6100
20	3.1	245	110	1.9	6.02	IE3	**BK17-../SPE09XA4**	24.5	83	166	245	295	71	88	110	110	110	50	580	6800
20	3.1	189	145	1.6	7.91	IE3	**BK17-../SPE09XA4**	18.5	63	126	189	225	94	116	145	145	145	50	1330	7600
20	3.1	151	182	1.3	9.91	IE3	**BK17-../SPE09XA4**	15	50	100	151	181	118	145	182	182	182	50	1910	8300
20	3.1	134	200	1.5	11.14	IE3	**BK17-../SPE09XA4**	13	44.5	89	134	161	130	160	200	200	200	50	3300	8100
20	3.1	128	215	1.1	11.69	IE3	**BK17-../SPE09XA4**	12.5	42.5	85	128	153	139	172	215	215	215	50	2400	8800
20	3.1	101	265	1.2	14.75	IE3	**BK17-../SPE09XA4**	10	33.5	67	101	122	172	210	265	265	265	50	3650	9000
20	3.1	77	345	0.95	19.39	IE3	**BK17-../SPE09XA4**	7.7	25.5	51	77	92	225	275	345	345	345	50	4050	9000
20	3.1	330	83	2.3	4.54	IE3	**BK20-../SPE09XA4**	33	110	220	330	395	54	66	83	83	83	50	520	6100
20	3.1	245	110	1.9	6.02	IE3	**BK20-../SPE09XA4**	24.5	83	166	245	295	71	88	110	110	110	50	580	6800
20	3.1	189	145	1.6	7.91	IE3	**BK20-../SPE09XA4**	18.5	63	126	189	225	94	116	145	145	145	50	1330	7600
20	3.1	151	182	1.3	9.91	IE3	**BK20-../SPE09XA4**	15	50	100	151	181	118	145	182	182	182	50	1910	8300
20	3.1	134	200	1.5	11.14	IE3	**BK20-../SPE09XA4**	13	44.5	89	134	161	130	160	200	200	200	50	3300	8100
20	3.1	128	215	1.1	11.69	IE3	**BK20-../SPE09XA4**	12.5	42.5	85	128	153	139	172	215	215	215	50	2400	8800
20	3.1	101	265	1.2	14.75	IE3	**BK20-../SPE09XA4**	10	33.5	67	101	122	172	210	265	265	265	50	3650	9000
20	3.1	77	345	0.95	19.39	IE3	**BK20-../SPE09XA4**	7.7	25.5	51	77	92	225	275	345	345	345	50	4050	9000
20	3.1	315	87	2.2	4.73	IE3	**BK30-../SPE09XA4**	31.5	105	210	315	380	56	69	87	87	87	56	1550	8800
20	3.1	245	110	1.9	6.02	IE3	**BK30-../SPE09XA4**	24.5	83	166	245	295	71	88	110	110	110	56	1690	9600
20	3.1	200	137	1.9	7.45	IE3	**BK30-../SPE09XA4**	20	67	134	200	240	89	109	137	137	137	56	2200	10400
20	3.1	155	177	1.8	9.63	IE3	**BK30-../SPE09XA4**	15.5	51	103	155	186	115	141	177	177	177	56	3150	11500
20	3.1	131	205	2	11.39	IE3	**BK30-../SPE09XA4**	13	43.5	87	131	158	133	164	205	205	205	56	4150	11000
20	3.1	125	215	1.5	11.93	IE3	**BK30-../SPE09XA4**	12.5	41.5	83	125	150	142	175	215	215	215	56	3650	12000
20	3.1	107	250	1.3	13.98	IE3	**BK30-../SPE09XA4**	10.5	35.5	71	107	128	165	200	250	250	250	56	4050	12000
20	3.1	103	260	1.7	14.5	IE3	**BK30-../SPE09XA4**	10	34	68	103	124	169	205	260	260	260	56	4900	12000
20	3.1	83	320	1.4	17.95	IE3	**BK30-../SPE09XA4**	8.3	27.5	55	83	100	210	255	320	320	320	56	5300	12000
20	3.1	71	375	0.84	20.85	IE3	**BK30-../SPE09XA4**	7.1	23.5	47.5	71	86	245	300	375	375	375	56	5000	12000
20	3.1	64	415	1.1	23.2	IE3	**BK30-../SPE09XA4**	6.4	21.5	43	64	77	270	330	415	415	415	56	5900	12000
20	3.1	52	510	0.87	28.76	IE3	**BK30-../SPE09XA4**	5.2	17	34.5	52	62	335	410	510	510	510	56	6500	12000

MN = 20 Nm (PN = 3.1 kW)



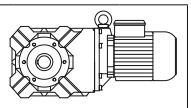
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
20	3.1	161	171	2.9	9.31	IE3	**BK40-../SPE09XA4**	16	53	107	161	193	111	137	171	171	171	76	1040	11200
20	3.1	126	215	2.2	11.86	IE3	**BK40-../SPE09XA4**	12.5	42	84	126	151	141	174	215	215	215	76	1770	12200
20	3.1	103	260	3	14.5	IE3	**BK40-../SPE09XA4**	10	34	68	103	124	169	205	260	260	260	76	4500	14300
20	3.1	83	320	2.4	18.05	IE3	**BK40-../SPE09XA4**	8.3	27.5	55	83	99	210	255	320	320	320	76	4900	15300
20	3.1	66	400	1.9	22.44	IE3	**BK40-../SPE09XA4**	6.6	22	44.5	66	80	260	320	400	400	400	76	5500	16500
20	3.1	52	510	1.5	28.59	IE3	**BK40-../SPE09XA4**	5.2	17	34.5	52	62	330	410	510	510	510	76	6300	17000
20	3.1	43	620	1.3	34.61	IE3	**BK40-../SPE09XA4**	4.3	14	28.5	43	52	400	495	620	620	620	76	6900	17000
20	3.1	36.5	730	1.1	40.88	IE3	**BK40-../SPE09XA4**	3.6	12	24	36.5	44	475	580	730	730	730	76	7600	17000
20	3.1	29	900	0.87	51.18	IE3	**BK40-../SPE09XA4**	2.9	9.7	19.5	29	35	580	720	900	900	900	76	8400	17000
20	3.1	83	325	2.2	17.92	IE3	**BK50-../SPE09XA4**	8.3	27.5	55	83	100	210	260	325	325	325	104	4600	16800
20	3.1	77	345	3	19.33	IE3	**BK50-../SPE09XA4**	7.7	25.5	51	77	93	225	275	345	345	345	104	6900	19200
20	3.1	56	475	2.2	26.51	IE3	**BK50-../SPE09XA4**	5.6	18.5	37.5	56	67	310	380	475	475	475	104	7800	21200
20	3.1	42.5	630	1.7	35.21	IE3	**BK50-../SPE09XA4**	4.2	14	28	42.5	51	410	500	630	630	630	104	8700	23100
20	3.1	31.5	840	1.2	47.5	IE3	**BK50-../SPE09XA4**	3.1	10.5	21	31.5	37.5	540	670	840	840	840	104	10100	25700
20	3.1	24.5	1060	0.98	60.76	IE3	**BK50-../SPE09XA4**	2.4	8.2	16	24.5	29.5	690	850	1060	1060	1060	104	11400	26000
20	3.1	19.5	1310	0.8	75.4	IE3	**BK50-../SPE09XA4**	1.9	6.6	13	19.5	23.5	850	1040	1310	1310	1310	104	12600	26000
20	3.1	39.5	750	3	37.8	IE3	**BK60-../SPE09XA4**	3.9	13	26	39.5	47.5	490	600	750	750	750	113	7300	26500
20	3.1	33	900	2.6	45.05	IE3	**BK60-../SPE09XA4**	3.3	11	22	33	39.5	580	720	900	900	900	113	8200	28300
20	3.1	29.5	1000	2.3	50.4	IE3	**BK60-../SPE09XA4**	2.9	9.9	19.5	29.5	35.5	650	800	1000	1000	1000	113	9100	29800
20	3.1	25	1170	2	58.95	IE3	**BK60-../SPE09XA4**	2.5	8.4	16.5	25	30.5	760	940	1170	1170	1170	113	9900	31500
20	3.1	22.5	1310	1.7	65.95	IE3	**BK60-../SPE09XA4**	2.2	7.5	15	22.5	27	850	1050	1310	1310	1310	113	10900	33000
20	3.1	19	1560	1.5	78.13	IE3	**BK60-../SPE09XA4**	1.9	6.3	12.5	19	23	1010	1250	1560	1560	1560	113	11900	34000
20	3.1	17	1740	1.3	87.41	IE3	**BK60-../SPE09XA4**	1.7	5.7	11	17	20.5	1130	1390	1740	1740	1740	113	12900	34000
20	3.1	14.5	2000	1.1	101.2	IE3	**BK60-../SPE09XA4**	1.4	4.9	9.8	14.5	17.5	1310	1610	2000	2000	2000	113	13900	34000
20	3.1	13	2250	1	113.2	IE3	**BK60-../SPE09XA4**	1.3	4.4	8.8	13	15.5	1470	1810	2250	2250	2250	113	15000	34000
20	3.1	12	2450	0.94	122.5	IE3	**BK60-../SPE09XA4**	1.2	4	8.1	12	14.5	1590	1960	2450	2450	2450	113	15500	34000
20	3.1	10.5	2700	0.84	137	IE3	**BK60-../SPE09XA4**	1	3.6	7.2	10.5	13	1780	2150	2700	2700	2700	113	16600	34000
20	3.1	16	1810	2.9	90.96	IE3	**BK70-../SPE09XA4**	1.6	5.4	10.5	16	19.5	1180	1450	1810	1810	1810	199	15300	49900
20	3.1	14	2050	2.5	103.5	IE3	**BK70-../SPE09XA4**	1.4	4.8	9.6	14	17	1340	1650	2050	2050	2050	199	17200	50000
20	3.1	12	2400	2.2	120.2	IE3	**BK70-../SPE09XA4**	1.2	4.1	8.3	12	14.5	1560	1920	2400	2400	2400	199	18600	50000
20	3.1	10.5	2700	1.9	136.7	IE3	**BK70-../SPE09XA4**	1	3.6	7.3	10.5	13	1770	2150	2700	2700	2700	199	20700	50000
20	3.1	9.7	3050	1.7	154.4	IE3	**BK70-../SPE09XA4**	0.95	3.2	6.4	9.7	11.5	2000	2450	3050	3050	3050	199	21900	50000
20	3.1	8.5	3500	1.5	175.7	IE3	**BK70-../SPE09XA4**	0.85	2.8	5.6	8.5	10	2250	2800	3500	3500	3500	199	24100	50000
20	3.1	7.8	3800	1.4	190.4	IE3	**BK70Z-../SPE09XA4**	0.75	2.6	5.2	7.8	9.4	2450	3000	3800	3800	3800	220	24100	50000
20	3.1	6.6	4500	1.1	226.2	IE3	**BK70Z-../SPE09XA4**	0.65	2.2	4.4	6.6	7.9	2900	3600	4500	4500	4500	220	24100	50000
20	3.1	5.8	5100	1	257.3	IE3	**BK70Z-../SPE09XA4**	0.55	1.9	3.8	5.8	6.9	3300	4100	5100	5100	5100	220	24100	50000
20	3.1	5.1	5800	0.89	293.3	IE3	**BK70Z-../SPE09XA4**	0.5	1.7	3.4	5.1	6.1	3800	4650	5800	5800	5800	220	24100	50000
20	3.1	7.5	3950	2.9	198.9	IE3	**BK80Z-../SPE09XA4**	0.75	2.5	5	7.5	9	2550	3150	3950	3950	3950	349	30000	75000
20	3.1	6.6	4500	2.5	226.1	IE3	**BK80Z-../SPE09XA4**	0.65	2.2	4.4	6.6	7.9	2900	3600	4500	4500	4500	349	30000	75000
20	3.1	5.9	5000	2.3	253.3	IE3	**BK80Z-../SPE09XA4**	0.55	1.9	3.9	5.9	7.1	3250	4050	5000	5000	5000	349	30000	75000
20	3.1	4.9	6000	1.9	300.6	IE3	**BK80Z-../SPE09XA4**	0.49	1.6	3.3	4.9	5.9	3900	4800	6000	6000	6000	349	30000	75000
20	3.1	4.4	6700	1.7	336.7	IE3	**BK80Z-../SPE09XA4**	0.44	1.4	2.9	4.4	5.3	4350	5300	6700	6700	6700	349	30000	75000
20	3.1	3.8	7700	1.5	389	IE3	**BK80Z-../SPE09XA4**	0.38	1.2	2.5	3.8	4.6	5000	6200	7700	7700	7700	349	30000	75000
20	3.1	3.4	8700	1.3	435.7	IE3	**BK80Z-../SPE09XA4**	0.34	1.1	2.2	3.4	4.1	5600	6900	8700	8700	8700	349	30000	75000
20	3.1	3	9900	1.2	499.5	IE3	**BK80Z-../SPE09XA4**	0.3	1	2	3	3.6	6400	7900	9900	9900	9900	349	30000	75000
20	3.1	2.6	11100	1	559.5	IE3	**BK80Z-../SPE09XA4**	0.26	0.85	1.7	2.6	3.2	7200	8900	11100	11100	11100	349	30000	75000
20	3.1	2.4	12100	0.95	607.8	IE3	**BK80G40-../SPE09XA4**	0.24	0.8	1.6	2.4	2.9	7900	9700	12100	12100	12100	360	30000	75000
20	3.1	2.2	13600	0.84	680.9	IE3	**BK80G40-../SPE09XA4**	0.22	0.7	1.4	2.2	2.6	8800	10800	13600	13600	13600	360	30000	75000
20	3.1	4.5	6600	2.8	330.7	IE3	**BK90Z-../SPE09XA4**	0.45	1.5	3	4.5	5.4	4250	5200	6600	6600	6600	622	49400	120000
20	3.1	3.8	7700	2.4	389.1	IE3	**BK90Z-../SPE09XA4**	0.38	1.2	2.5	3.8	4.6	5000	6200	7700	7700	7700	622	49400	120000
20	3.1	3.4	8700	2.1	435.3	IE3	**BK90Z-../SPE09XA4**	0.34	1.1	2.2	3.4	4.1	5600	6900	8700	8700	8700	622	49400	120000
20	3.1	3	9900	1.9	499.2	IE3	**BK90Z-../SPE09XA4**	0.3	1	2	3	3.6	6400	7900	9900	9900	9900	622	49400	120000
20	3.1	2.6	11100	1.7	558.5	IE3	**BK90Z-../SPE09XA4**	0.26	0.85	1.7	2.6	3.2	7200	8900	11100	11100	11100	622	49400	120000
20	3.1	2.3	12700	1.5	637.7	IE3	**BK90Z-../SPE09XA4**	0.23	0.75	1.5	2.3	2.8	8200	10200	12700	12700	12700	622	49400	120000
20	3.1	2.1	14200	1.3	713.5	IE3	**BK90Z-../SPE09XA4**	0.21	0.7	1.4	2.1	2.5	9200	11400	14200	14200	14200	622	49400	120000
20	3.1	1.8	16400	1.1	821	IE3	**BK90G50-../SPE09XA4**	0.18	0.6	1.2	1.8	2.1	10600	13100	16400	16400	16400	633	49400	120000
20	3.1	1.7	17600	1	882.3	IE3	**BK90G50-../SPE09XA4**	0.17	0.55	1.1	1.7	2	11400	14100	17600	17600	17600	633	49400	120000
20	3.1	1.4	20000	0.92	1008	IE3	**BK90G50-../SPE09XA4**	0.14	0.49	0.95	1.4	1.7	13100	16100	20000	20000	20000	633	49400	120000
20	3.1	1.3	22500	0.82	1127	IE3	**BK90G50-../SPE09XA4**	0.13	0.44	0.85	1.3	1.5	14600	18000	22500	22500	22500	633	49400	120000

MN = 25.5 Nm (PN = 4 kW)



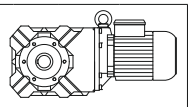
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
25.5	4	315	110	1.7	4.73	IE3	**BK30-../SPE11SA6**	31.5	105	210	315	380	82	95	110	110	110	65	1550	8800
25.5	4	245	141	1.5	6.02	IE3	**BK30-../SPE11SA6**	24.5	83	166	245	295	105	121	141	141	141	65	1690	9600
25.5	4	200	174	1.5	7.45	IE3	**BK30-../SPE11SA6**	20	67	134	200	240	130	150	174	174	174	65	2200	10400
25.5	4	155	225	1.4	9.63	IE3	**BK30-../SPE11SA6**	15.5	51	103	155	186	168	194	225	225	225	65	3150	11500
25.5	4	131	260	1.6	11.39	IE3	**BK30-../SPE11SA6**	13	43.5	87	131	158	194	225	260	260	260	65	4150	11000
25.5	4	125	275	1.1	11.93	IE3	**BK30-../SPE11SA6**	12.5	41.5	83	125	150	205	240	275	275	275	65	3650	12000
25.5	4	107	320	0.99	13.98	IE3	**BK30-../SPE11SA6**	10.5	35.5	71	107	128	240	275	320	320	320	65	4050	12000
25.5	4	103	330	1.4	14.5	IE3	**BK30-../SPE11SA6**	10	34	68	103	124	245	285	330	330	330	65	4900	12000

MN = 25.5 Nm (PN = 4 kW)



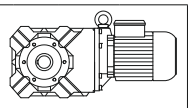
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
25.5	4	83	410	1.1	17.95	IE3	**BK30-../SPE11SA6**	8.3	27.5	55	83	100	305	355	410	410	410	65	5300	12000
25.5	4	64	530	0.85	23.2	IE3	**BK30-../SPE11SA6**	6.4	21.5	43	64	77	395	455	530	530	530	65	5900	12000
25.5	4	200	175	2.8	7.49	IE3	**BK40-../SPE11SA6**	20	66	133	200	240	130	151	175	175	175	90	750	10500
25.5	4	161	215	2.2	9.31	IE3	**BK40-../SPE11SA6**	16	53	107	161	193	162	188	215	215	215	90	1040	11200
25.5	4	134	255	2.8	11.17	IE3	**BK40-../SPE11SA6**	13	44.5	89	134	161	191	220	255	255	255	90	4100	13100
25.5	4	126	275	1.8	11.86	IE3	**BK40-../SPE11SA6**	12.5	42	84	126	151	205	240	275	275	275	90	1770	12200
25.5	4	103	330	2.3	14.5	IE3	**BK40-../SPE11SA6**	10	34	68	103	124	245	285	330	330	330	90	4500	14300
25.5	4	83	410	1.9	18.05	IE3	**BK40-../SPE11SA6**	8.3	27.5	55	83	99	305	355	410	410	410	90	4900	15300
25.5	4	66	510	1.5	22.44	IE3	**BK40-../SPE11SA6**	6.6	22	44.5	66	80	380	440	510	510	510	90	5500	16500
25.5	4	52	650	1.2	28.59	IE3	**BK40-../SPE11SA6**	5.2	17	34.5	52	62	485	560	650	650	650	90	6300	17000
25.5	4	43	790	0.98	34.61	IE3	**BK40-../SPE11SA6**	4.3	14	28.5	43	52	590	680	790	790	790	90	6900	17000
25.5	4	36.5	930	0.83	40.88	IE3	**BK40-../SPE11SA6**	3.6	12	24	36.5	44	690	800	930	930	930	90	7600	17000
25.5	4	83	415	1.7	17.92	IE3	**BK50-../SPE11SA6**	8.3	27.5	55	83	100	305	355	415	415	415	120	4600	16800
25.5	4	77	440	2.4	19.33	IE3	**BK50-../SPE11SA6**	7.7	25.5	51	77	93	330	380	440	440	440	120	6900	19200
25.5	4	56	600	1.7	26.51	IE3	**BK50-../SPE11SA6**	5.6	18.5	37.5	56	67	450	520	600	600	600	120	7800	21200
25.5	4	42.5	800	1.3	35.21	IE3	**BK50-../SPE11SA6**	4.2	14	28	42.5	51	600	690	800	800	800	120	8700	23100
25.5	4	31.5	1070	0.97	47.5	IE3	**BK50-../SPE11SA6**	3.1	10.5	21	31.5	37.5	800	930	1070	1070	1070	120	10100	25700
25.5	4	44	860	2.7	33.78	IE3	**BK60-../SPE11SA6**	4.4	14.5	29.5	44	53	640	740	860	860	860	130	6500	25200
25.5	4	39.5	960	2.4	37.8	IE3	**BK60-../SPE11SA6**	3.9	13	26	39.5	47.5	710	830	960	960	960	130	7300	26500
25.5	4	33	1140	2	45.05	IE3	**BK60-../SPE11SA6**	3.3	11	22	33	39.5	850	990	1140	1140	1140	130	8200	28300
25.5	4	29.5	1280	1.8	50.4	IE3	**BK60-../SPE11SA6**	2.9	9.9	19.5	29.5	35.5	950	1100	1280	1280	1280	130	9100	29800
25.5	4	25	1500	1.5	58.95	IE3	**BK60-../SPE11SA6**	2.5	8.4	16.5	25	30.5	1120	1290	1500	1500	1500	130	9900	31500
25.5	4	22.5	1680	1.4	65.95	IE3	**BK60-../SPE11SA6**	2.2	7.5	15	22.5	27	1250	1450	1680	1680	1680	130	10900	33000
25.5	4	19	1990	1.2	78.13	IE3	**BK60-../SPE11SA6**	1.9	6.3	12.5	19	23	1480	1710	1990	1990	1990	130	11900	34000
25.5	4	17	2200	1	87.41	IE3	**BK60-../SPE11SA6**	1.7	5.7	11	17	20.5	1660	1920	2200	2200	2200	130	12900	34000
25.5	4	14.5	2550	0.89	101.2	IE3	**BK60-../SPE11SA6**	1.4	4.9	9.8	14.5	17.5	1920	2200	2550	2550	2550	130	13900	34000
25.5	4	13	2850	0.8	113.2	IE3	**BK60-../SPE11SA6**	1.3	4.4	8.8	13	15.5	2150	2450	2850	2850	2850	130	15000	34000
25.5	4	21	1790	2.9	70.23	IE3	**BK70-../SPE11SA6**	2.1	7.1	14	21	25.5	1330	1540	1790	1790	1790	209	12500	44800
25.5	4	18.5	2000	2.6	79.89	IE3	**BK70-../SPE11SA6**	1.8	6.2	12.5	18.5	22.5	1510	1750	2000	2000	2000	209	14300	47600
25.5	4	16	2300	2.2	90.96	IE3	**BK70-../SPE11SA6**	1.6	5.4	10.5	16	19.5	1720	2000	2300	2300	2300	209	15300	49900
25.5	4	14	2600	2	103.5	IE3	**BK70-../SPE11SA6**	1.4	4.8	9.6	14	17	1960	2250	2600	2600	2600	209	17200	50000
25.5	4	12	3050	1.7	120.2	IE3	**BK70-../SPE11SA6**	1.2	4.1	8.3	12	14.5	2250	2600	3050	3050	3050	209	18600	50000
25.5	4	10.5	3450	1.5	136.7	IE3	**BK70-../SPE11SA6**	1	3.6	7.3	10.5	13	2550	3000	3450	3450	3450	209	20700	50000
25.5	4	9.7	3900	1.3	154.4	IE3	**BK70-../SPE11SA6**	0.95	3.2	6.4	9.7	11.5	2900	3350	3900	3900	3900	209	21900	50000
25.5	4	8.5	4450	1.2	175.7	IE3	**BK70-../SPE11SA6**	0.85	2.8	5.6	8.5	10	3300	3850	4450	4450	4450	209	24100	50000
25.5	4	7.8	4850	1.1	190.4	IE3	**BK70Z-../SPE11SA6**	0.75	2.6	5.2	7.8	9.4	3600	4150	4850	4850	4850	236	24100	50000
25.5	4	6.6	5700	0.9	226.2	IE3	**BK70Z-../SPE11SA6**	0.65	2.2	4.4	6.6	7.9	4250	4950	5700	5700	5700	236	24100	50000
25.5	4	9.7	3900	2.7	153.1	IE3	**BK80-../SPE11SA6**	0.95	3.2	6.5	9.7	11.5	2900	3350	3900	3900	3900	324	27200	75000
25.5	4	8.7	4350	2.4	171.5	IE3	**BK80-../SPE11SA6**	0.85	2.9	5.8	8.7	10	3250	3750	4350	4350	4350	324	30000	75000
25.5	4	8.4	4500	2.5	177.6	IE3	**BK80Z-../SPE11SA6**	0.8	2.8	5.6	8.4	10	3350	3900	4500	4500	4500	366	30000	75000
25.5	4	7.5	5000	2.3	198.9	IE3	**BK80Z-../SPE11SA6**	0.75	2.5	5	7.5	9	3750	4350	5000	5000	5000	366	30000	75000
25.5	4	6.6	5700	2	226.1	IE3	**BK80Z-../SPE11SA6**	0.65	2.2	4.4	6.6	7.9	4250	4950	5700	5700	5700	366	30000	75000
25.5	4	5.9	6400	1.8	253.3	IE3	**BK80Z-../SPE11SA6**	0.55	1.9	3.9	5.9	7.1	4800	5500	6400	6400	6400	366	30000	75000
25.5	4	4.9	7600	1.5	300.6	IE3	**BK80Z-../SPE11SA6**	0.49	1.6	3.3	4.9	5.9	5700	6600	7600	7600	7600	366	30000	75000
25.5	4	4.4	8500	1.3	336.7	IE3	**BK80Z-../SPE11SA6**	0.44	1.4	2.9	4.4	5.3	6300	7400	8500	8500	8500	366	30000	75000
25.5	4	3.8	9900	1.2	389	IE3	**BK80Z-../SPE11SA6**	0.38	1.2	2.5	3.8	4.6	7300	8500	9900	9900	9900	366	30000	75000
25.5	4	3.4	11100	1	435.7	IE3	**BK80Z-../SPE11SA6**	0.34	1.1	2.2	3.4	4.1	8200	9500	11100	11100	11100	366	30000	75000
25.5	4	3	12700	0.9	499.5	IE3	**BK80Z-../SPE11SA6**	0.3	1	2	3	3.6	9400	10900	12700	12700	12700	366	30000	75000
25.5	4	2.6	14200	0.81	559.5	IE3	**BK80Z-../SPE11SA6**	0.26	0.85	1.7	2.6	3.2	10600	12300	14200	14200	14200	366	30000	75000
25.5	4	5.7	6600	2.8	262.5	IE3	**BK90Z-../SPE11SA6**	0.55	1.9	3.8	5.7	6.8	4950	5700	6600	6600	6600	632	49400	120000
25.5	4	5	7500	2.5	295.6	IE3	**BK90Z-../SPE11SA6**	0.5	1.6	3.3	5	6	5600	6500	7500	7500	7500	632	49400	120000
25.5	4	4.5	8400	2.2	330.7	IE3	**BK90Z-../SPE11SA6**	0.45	1.5	3	4.5	5.4	6200	7200	8400	8400	8400	632	49400	120000
25.5	4	3.8	9900	1.9	389.1	IE3	**BK90Z-../SPE11SA6**	0.38	1.2	2.5	3.8	4.6	7300	8500	9900	9900	9900	632	49400	120000
25.5	4	3.4	11100	1.7	435.3	IE3	**BK90Z-../SPE11SA6**	0.34	1.1	2.2	3.4	4.1	8200	9500	11100	11100	11100	632	49400	120000
25.5	4	3	12700	1.5	499.2	IE3	**BK90Z-../SPE11SA6**	0.3	1	2	3	3.6	9400	10900	12700	12700	12700	632	49400	120000
25.5	4	2.6	14200	1.3	558.5	IE3	**BK90Z-../SPE11SA6**	0.26	0.85	1.7	2.6	3.2	10600	12200	14200	14200	14200	632	49400	120000
25.5	4	2.3	16200	1.1	637.7	IE3	**BK90Z-../SPE11SA6**	0.23	0.75	1.5	2.3	2.8	12100	14000	16200	16200	16200	632	49400	120000
25.5	4	2.1	18100	1	713.5	IE3	**BK90Z-../SPE11SA6**	0.21	0.7	1.4	2.1	2.5	13500	15600	18100	18100	18100	632	49400	120000
25.5	4	1.8	20500	0.88	821	IE3	**BK90G50-../SPE11SA6**	0.18	0.6	1.2	1.8	2.1	15500	18000	20500	20500	20500	648	49400	120000
25.5	4	1.7	22000	0.82	882.3	IE3	**BK90G50-../SPE11SA6**	0.17	0.55	1.1	1.7	2	16700	19400	22000	22000	22000	648	49400	120000

MN = 26.5 Nm (PN = 4 kW)



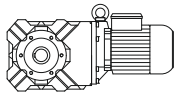
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
26.5	4	315	115	1.7	4.73	IE5	**BK30-../S5E11MA6**	31.5	105	210	315	380	115	115	115	115	115	65	1550	8800
26.5	4	245	146	1.4	6.02	IE5	**BK30-../S5E11MA6**	24.5	83	166	245	295	146	146	146	146	146	65	1690	9600
26.5	4	200	181	1.5	7.45	IE5	**BK30-../S5E11MA6**	20	67	134	200	240	181	181	181	181	181	65	2200	10400
26.5	4	155	230	1.4	9.63	IE5	**BK30-../S5E11MA6**	15.5	51	103	155	186	230	230	230	230	230	65	3150	11500
26.5	4	131	270	1.5	11.39	IE5	**BK30-../S5E11MA6**	13	43.5	87	131	158	270	270	270	270	270	65	4150	11000
26.5	4	125	290	1.1	11.93	IE5	**BK30-../S5E11MA6**	12.5	41.5	83	125	150	290	290	290	290	290	65	3650	12000

MN = 26.5 Nm (PN = 4 kW)



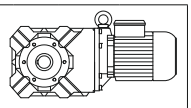
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
26.5	4	107	335	0.95	13.98	IE5	**BK30-../S5E11MA6**	10.5	35.5	71	107	128	335	335	335	335	335	65	4050	12000
26.5	4	103	345	1.3	14.5	IE5	**BK30-../S5E11MA6**	10	34	68	103	124	345	345	345	345	345	65	4900	12000
26.5	4	83	425	1.1	17.95	IE5	**BK30-../S5E11MA6**	8.3	27.5	55	83	100	425	425	425	425	425	65	5300	12000
26.5	4	64	550	0.81	23.2	IE5	**BK30-../S5E11MA6**	6.4	21.5	43	64	77	550	550	550	550	550	65	5900	12000
26.5	4	200	182	2.7	7.49	IE5	**BK40-../S5E11MA6**	20	66	133	200	240	182	182	182	182	182	90	750	10500
26.5	4	161	225	2.2	9.31	IE5	**BK40-../S5E11MA6**	16	53	107	161	193	225	225	225	225	225	90	1040	11200
26.5	4	134	265	2.7	11.17	IE5	**BK40-../S5E11MA6**	13	44.5	89	134	161	265	265	265	265	265	90	4100	13100
26.5	4	126	285	1.7	11.86	IE5	**BK40-../S5E11MA6**	12.5	42	84	126	151	285	285	285	285	285	90	1770	12200
26.5	4	103	345	2.3	14.5	IE5	**BK40-../S5E11MA6**	10	34	68	103	124	345	345	345	345	345	90	4500	14300
26.5	4	83	430	1.8	18.05	IE5	**BK40-../S5E11MA6**	8.3	27.5	55	83	99	430	430	430	430	430	90	4900	15300
26.5	4	66	530	1.5	22.44	IE5	**BK40-../S5E11MA6**	6.6	22	44.5	66	80	530	530	530	530	530	90	5500	16500
26.5	4	52	680	1.1	28.59	IE5	**BK40-../S5E11MA6**	5.2	17	34.5	52	62	680	680	680	680	680	90	6300	17000
26.5	4	43	820	0.94	34.61	IE5	**BK40-../S5E11MA6**	4.3	14	28.5	43	52	820	820	820	820	820	90	6900	17000
26.5	4	36.5	970	0.8	40.88	IE5	**BK40-../S5E11MA6**	3.6	12	24	36.5	44	970	970	970	970	970	90	7600	17000
26.5	4	83	430	1.7	17.92	IE5	**BK50-../S5E11MA6**	8.3	27.5	55	83	100	430	430	430	430	430	120	4600	16800
26.5	4	77	460	2.3	19.33	IE5	**BK50-../S5E11MA6**	7.7	25.5	51	77	93	460	460	460	460	460	120	6900	19200
26.5	4	56	630	1.7	26.51	IE5	**BK50-../S5E11MA6**	5.6	18.5	37.5	56	67	630	630	630	630	630	120	7800	21200
26.5	4	42.5	830	1.3	35.21	IE5	**BK50-../S5E11MA6**	4.2	14	28	42.5	51	830	830	830	830	830	120	8700	23100
26.5	4	31.5	1120	0.94	47.5	IE5	**BK50-../S5E11MA6**	3.1	10.5	21	31.5	37.5	1120	1120	1120	1120	1120	120	10100	25700
26.5	4	44	890	2.6	33.78	IE5	**BK60-../S5E11MA6**	4.4	14.5	29.5	44	53	890	890	890	890	890	130	6500	25200
26.5	4	39.5	1000	2.3	37.8	IE5	**BK60-../S5E11MA6**	3.9	13	26	39.5	47.5	1000	1000	1000	1000	1000	130	7300	26500
26.5	4	33	1190	1.9	45.05	IE5	**BK60-../S5E11MA6**	3.3	11	22	33	39.5	1190	1190	1190	1190	1190	130	8200	28300
26.5	4	29.5	1330	1.7	50.4	IE5	**BK60-../S5E11MA6**	2.9	9.9	19.5	29.5	35.5	1330	1330	1330	1330	1330	130	9100	29800
26.5	4	25	1560	1.5	58.95	IE5	**BK60-../S5E11MA6**	2.5	8.4	16.5	25	30.5	1560	1560	1560	1560	1560	130	9900	31500
26.5	4	22.5	1740	1.3	65.95	IE5	**BK60-../S5E11MA6**	2.2	7.5	15	22.5	27	1740	1740	1740	1740	1740	130	10900	33000
26.5	4	19	2050	1.1	78.13	IE5	**BK60-../S5E11MA6**	1.9	6.3	12.5	19	23	2050	2050	2050	2050	2050	130	11900	34000
26.5	4	17	2300	0.99	87.41	IE5	**BK60-../S5E11MA6**	1.7	5.7	11	17	20.5	2300	2300	2300	2300	2300	130	12900	34000
26.5	4	14.5	2650	0.86	101.2	IE5	**BK60-../S5E11MA6**	1.4	4.9	9.8	14.5	17.5	2650	2650	2650	2650	2650	130	13900	34000
26.5	4	21	1860	2.8	70.23	IE5	**BK70-../S5E11MA6**	2.1	7.1	14	21	25.5	1860	1860	1860	1860	1860	209	12500	44800
26.5	4	18.5	2100	2.5	79.89	IE5	**BK70-../S5E11MA6**	1.8	6.2	12.5	18.5	22.5	2100	2100	2100	2100	2100	209	14300	47600
26.5	4	16	2400	2.2	90.96	IE5	**BK70-../S5E11MA6**	1.6	5.4	10.5	16	19.5	2400	2400	2400	2400	2400	209	15300	49900
26.5	4	14	2700	1.9	103.5	IE5	**BK70-../S5E11MA6**	1.4	4.8	9.6	14	17	2700	2700	2700	2700	2700	209	17200	50000
26.5	4	12	3150	1.6	120.2	IE5	**BK70-../S5E11MA6**	1.2	4.1	8.3	12	14.5	3150	3150	3150	3150	3150	209	18600	50000
26.5	4	10.5	3600	1.4	136.7	IE5	**BK70-../S5E11MA6**	1	3.6	7.3	10.5	13	3600	3600	3600	3600	3600	209	20700	50000
26.5	4	9.7	4050	1.3	154.4	IE5	**BK70-../S5E11MA6**	0.95	3.2	6.4	9.7	11.5	4050	4050	4050	4050	4050	209	21900	50000
26.5	4	8.5	4650	1.1	175.7	IE5	**BK70-../S5E11MA6**	0.85	2.8	5.6	8.5	10	4650	4650	4650	4650	4650	209	24100	50000
26.5	4	7.8	5000	1	190.4	IE5	**BK70Z-../S5E11MA6**	0.75	2.6	5.2	7.8	9.4	5000	5000	5000	5000	5000	236	24100	50000
26.5	4	6.6	5900	0.87	226.2	IE5	**BK70Z-../S5E11MA6**	0.65	2.2	4.4	6.6	7.9	5900	5900	5900	5900	5900	236	24100	50000
26.5	4	11	3450	3	131.6	IE5	**BK80-../S5E11MA6**	1.1	3.7	7.5	11	13.5	3450	3450	3450	3450	3450	324	24900	75000
26.5	4	9.7	4050	2.6	153.1	IE5	**BK80-../S5E11MA6**	0.95	3.2	6.5	9.7	11.5	4050	4050	4050	4050	4050	324	27200	75000
26.5	4	8.7	4500	2.3	171.5	IE5	**BK80-../S5E11MA6**	0.85	2.9	5.8	8.7	10	4500	4500	4500	4500	4500	324	30000	75000
26.5	4	8.4	4700	2.4	177.6	IE5	**BK80Z-../S5E11MA6**	0.8	2.8	5.6	8.4	10	4700	4700	4700	4700	4700	366	30000	75000
26.5	4	7.5	5200	2.2	198.9	IE5	**BK80Z-../S5E11MA6**	0.75	2.5	5	7.5	9	5200	5200	5200	5200	5200	366	30000	75000
26.5	4	6.6	5900	1.9	226.1	IE5	**BK80Z-../S5E11MA6**	0.65	2.2	4.4	6.6	7.9	5900	5900	5900	5900	5900	366	30000	75000
26.5	4	5.9	6700	1.7	253.3	IE5	**BK80Z-../S5E11MA6**	0.55	1.9	3.9	5.9	7.1	6700	6700	6700	6700	6700	366	30000	75000
26.5	4	4.9	7900	1.4	300.6	IE5	**BK80Z-../S5E11MA6**	0.49	1.6	3.3	4.9	5.9	7900	7900	7900	7900	7900	366	30000	75000
26.5	4	4.4	8900	1.3	336.7	IE5	**BK80Z-../S5E11MA6**	0.44	1.4	2.9	4.4	5.3	8900	8900	8900	8900	8900	366	30000	75000
26.5	4	3.8	10300	1.1	389	IE5	**BK80Z-../S5E11MA6**	0.38	1.2	2.5	3.8	4.6	10300	10300	10300	10300	10300	366	30000	75000
26.5	4	3.4	11500	1	435.7	IE5	**BK80Z-../S5E11MA6**	0.34	1.1	2.2	3.4	4.1	11500	11500	11500	11500	11500	366	30000	75000
26.5	4	3	13200	0.87	499.5	IE5	**BK80Z-../S5E11MA6**	0.3	1	2	3	3.6	13200	13200	13200	13200	13200	366	30000	75000
26.5	4	6.3	6200	3	234.6	IE5	**BK90Z-../S5E11MA6**	0.6	2.1	4.2	6.3	7.6	6200	6200	6200	6200	6200	632	49400	120000
26.5	4	5.7	6900	2.7	262.5	IE5	**BK90Z-../S5E11MA6**	0.55	1.9	3.8	5.7	6.8	6900	6900	6900	6900	6900	632	49400	120000
26.5	4	5	7800	2.4	295.6	IE5	**BK90Z-../S5E11MA6**	0.5	1.6	3.3	5	6	7800	7800	7800	7800	7800	632	49400	120000
26.5	4	4.5	8700	2.1	330.7	IE5	**BK90Z-../S5E11MA6**	0.45	1.5	3	4.5	5.4	8700	8700	8700	8700	8700	632	49400	120000
26.5	4	3.8	10300	1.8	389.1	IE5	**BK90Z-../S5E11MA6**	0.38	1.2	2.5	3.8	4.6	10300	10300	10300	10300	10300	632	49400	120000
26.5	4	3.4	11500	1.6	435.3	IE5	**BK90Z-../S5E11MA6**	0.34	1.1	2.2	3.4	4.1	11500	11500	11500	11500	11500	632	49400	120000
26.5	4	3	13200	1.4	499.2	IE5	**BK90Z-../S5E11MA6**	0.3	1	2	3	3.6	13200	13200	13200	13200	13200	632	49400	120000
26.5	4	2.6	14800	1.2	558.5	IE5	**BK90Z-../S5E11MA6**	0.26	0.85	1.7	2.6	3.2	14800	14800	14800	14800	14800	632	49400	120000
26.5	4	2.3	16800	1.1	637.7	IE5	**BK90Z-../S5E11MA6**	0.23	0.75	1.5	2.3	2.8	16800	16800	16800	16800	16800	632	49400	120000
26.5	4	2.1	18900	0.98	713.5	IE5	**BK90Z-../S5E11MA6**	0.21	0.7	1.4	2.1	2.5	18900	18900	18900	18900	18900	632	49400	120000
26.5	4	1.8	21500	0.85	821	IE5	**BK90G50-../S5E11MA6**	0.18	0.6	1.2	1.8	2.1	21500	21500	21500	21500	21500	648	49400	120000

MN = 35 Nm (PN = 5.5 kW)



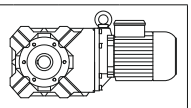
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
35	5.5	315	152	1.3	4.73	IE5	**BK30-../S5E11LA6**	31.5	105	210	315	380	152	152	152	152	152	76	1550	8800
35	5.5	315	152	1.3	4.73	IE4	**BK30-../S4E11MA6**	31.5	105	210	315	380	115	130	152	152	152	65	1550	8800
35	5.5	245	193	1.1	6.02	IE4	**BK30-../S4E11MA6**	24.5	83	166	245	295	146	166	193	193	193	65	1690	9600
35	5.5	245	193	1.1	6.02	IE5	**BK30-../S5E11LA6**	24.5	83	166	245	295	193	193	193	193	193	76	1690	9600
35	5.5	200	235	1.1	7.45	IE4	**BK30-../S4E11MA6**	20	67	134	200	240	181	205	235	235	235	65	2200	10400

MN = 35 Nm (PN = 5.5 kW)



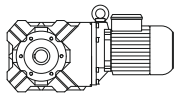
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
35	5.5	200	235	1.1	7.45	IE5	**BK30-../S5E11LA6**	20	67	134	200	240	235	235	235	235	235	76	2200	10400
35	5.5	155	310	1	9.63	IE5	**BK30-../S5E11LA6**	15.5	51	103	155	186	310	310	310	310	310	76	3150	11500
35	5.5	155	310	1	9.63	IE4	**BK30-../S4E11MA6**	15.5	51	103	155	186	230	265	310	310	310	65	3150	11500
35	5.5	131	355	1.2	11.39	IE4	**BK30-../S4E11MA6**	13	43.5	87	131	158	270	305	355	355	355	65	4150	11000
35	5.5	131	355	1.2	11.39	IE5	**BK30-../S5E11LA6**	13	43.5	87	131	158	355	355	355	355	355	76	4150	11000
35	5.5	125	380	0.83	11.93	IE5	**BK30-../S5E11LA6**	12.5	41.5	83	125	150	380	380	380	380	380	76	3650	12000
35	5.5	125	380	0.83	11.93	IE4	**BK30-../S4E11MA6**	12.5	41.5	83	125	150	290	325	380	380	380	65	3650	12000
35	5.5	103	455	0.99	14.5	IE4	**BK30-../S4E11MA6**	10	34	68	103	124	345	390	455	455	455	65	4900	12000
35	5.5	103	455	0.99	14.5	IE5	**BK30-../S5E11LA6**	10	34	68	103	124	455	455	455	455	455	76	4900	12000
35	5.5	83	560	0.8	17.95	IE5	**BK30-../S5E11LA6**	8.3	27.5	55	83	100	560	560	560	560	560	76	5300	12000
35	5.5	83	560	0.8	17.95	IE4	**BK30-../S4E11MA6**	8.3	27.5	55	83	100	425	480	560	560	560	65	5300	12000
35	5.5	320	149	2.9	4.63	IE4	**BK40-../S4E11MA6**	32	107	215	320	385	112	127	149	149	149	90	430	8900
35	5.5	320	149	2.9	4.63	IE5	**BK40-../S5E11LA6**	32	107	215	320	385	149	149	149	149	149	102	430	8900
35	5.5	245	193	2.4	6.02	IE5	**BK40-../S5E11LA6**	24.5	83	166	245	295	193	193	193	193	193	102	470	9800
35	5.5	245	193	2.4	6.02	IE4	**BK40-../S4E11MA6**	24.5	83	166	245	295	146	166	193	193	193	90	470	9800
35	5.5	200	240	2	7.49	IE4	**BK40-../S4E11MA6**	20	66	133	200	240	182	205	240	240	240	90	750	10500
35	5.5	200	240	2	7.49	IE5	**BK40-../S5E11LA6**	20	66	133	200	240	240	240	240	240	240	102	750	10500
35	5.5	161	295	1.6	9.31	IE5	**BK40-../S5E11LA6**	16	53	107	161	193	295	295	295	295	295	102	1040	11200
35	5.5	161	295	1.6	9.31	IE4	**BK40-../S4E11MA6**	16	53	107	161	193	225	255	295	295	295	90	1040	11200
35	5.5	134	350	2	11.17	IE5	**BK40-../S5E11LA6**	13	44.5	89	134	161	350	350	350	350	350	102	4100	13100
35	5.5	134	350	2	11.17	IE4	**BK40-../S4E11MA6**	13	44.5	89	134	161	265	300	350	350	350	90	4100	13100
35	5.5	126	380	1.3	11.86	IE5	**BK40-../S5E11LA6**	12.5	42	84	126	151	380	380	380	380	380	102	1770	12200
35	5.5	126	380	1.3	11.86	IE4	**BK40-../S4E11MA6**	12.5	42	84	126	151	285	325	380	380	380	90	1770	12200
35	5.5	103	455	1.7	14.5	IE5	**BK40-../S5E11LA6**	10	34	68	103	124	455	455	455	455	455	102	4500	14300
35	5.5	103	455	1.7	14.5	IE4	**BK40-../S4E11MA6**	10	34	68	103	124	345	390	455	455	455	90	4500	14300
35	5.5	83	560	1.4	18.05	IE4	**BK40-../S4E11MA6**	8.3	27.5	55	83	99	430	485	560	560	560	90	4900	15300
35	5.5	83	560	1.4	18.05	IE5	**BK40-../S5E11LA6**	8.3	27.5	55	83	99	560	560	560	560	560	102	4900	15300
35	5.5	66	700	1.1	22.44	IE4	**BK40-../S4E11MA6**	6.6	22	44.5	66	80	530	600	700	700	700	90	5500	16500
35	5.5	66	700	1.1	22.44	IE5	**BK40-../S5E11LA6**	6.6	22	44.5	66	80	700	700	700	700	700	102	5500	16500
35	5.5	52	900	0.87	28.59	IE4	**BK40-../S4E11MA6**	5.2	17	34.5	52	62	680	770	900	900	900	90	6300	17000
35	5.5	52	900	0.87	28.59	IE5	**BK40-../S5E11LA6**	5.2	17	34.5	52	62	900	900	900	900	900	102	6300	17000
35	5.5	154	305	3	9.73	IE4	**BK50-../S4E11MA6**	15	51	102	154	184	230	260	305	305	305	120	5400	15400
35	5.5	154	305	3	9.73	IE5	**BK50-../S5E11LA6**	15	51	102	154	184	305	305	305	305	305	132	5400	15400
35	5.5	150	320	2.5	10	IE4	**BK50-../S4E11MA6**	15	50	100	150	180	240	275	320	320	320	120	1220	13200
35	5.5	150	320	2.5	10	IE5	**BK50-../S5E11LA6**	15	50	100	150	180	320	320	320	320	320	132	1220	13200
35	5.5	107	435	2.4	13.95	IE4	**BK50-../S4E11MA6**	10.5	35.5	71	107	129	330	375	435	435	435	120	6100	17400
35	5.5	107	435	2.4	13.95	IE5	**BK50-../S5E11LA6**	10.5	35.5	71	107	129	435	435	435	435	435	132	6100	17400
35	5.5	83	570	1.3	17.92	IE4	**BK50-../S4E11MA6**	8.3	27.5	55	83	100	430	485	570	570	570	120	4600	16800
35	5.5	83	570	1.3	17.92	IE5	**BK50-../S5E11LA6**	8.3	27.5	55	83	100	570	570	570	570	570	132	4600	16800
35	5.5	77	600	1.7	19.33	IE5	**BK50-../S5E11LA6**	7.7	25.5	51	77	93	600	600	600	600	600	132	6900	19200
35	5.5	77	600	1.7	19.33	IE4	**BK50-../S4E11MA6**	7.7	25.5	51	77	93	460	520	600	600	600	120	6900	19200
35	5.5	56	830	1.3	26.51	IE4	**BK50-../S4E11MA6**	5.6	18.5	37.5	56	67	630	710	830	830	830	120	7800	21200
35	5.5	56	830	1.3	26.51	IE5	**BK50-../S5E11LA6**	5.6	18.5	37.5	56	67	830	830	830	830	830	132	7800	21200
35	5.5	42.5	1100	0.95	35.21	IE4	**BK50-../S4E11MA6**	4.2	14	28	42.5	51	830	950	1100	1100	1100	120	8700	23100
35	5.5	42.5	1100	0.95	35.21	IE5	**BK50-../S5E11LA6**	4.2	14	28	42.5	51	1100	1100	1100	1100	1100	132	8700	23100
35	5.5	61	850	2.7	24.45	IE4	**BK60-../S4E11MA6**	6.1	20	40.5	61	73	640	730	850	850	850	130	4850	22000
35	5.5	61	850	2.7	24.45	IE5	**BK60-../S5E11LA6**	6.1	20	40.5	61	73	850	850	850	850	850	142	4850	22000
35	5.5	54	950	2.4	27.36	IE5	**BK60-../S5E11LA6**	5.4	18	36.5	54	65	950	950	950	950	950	142	5600	23200
35	5.5	54	950	2.4	27.36	IE4	**BK60-../S4E11MA6**	5.4	18	36.5	54	65	720	820	950	950	950	130	5600	23200
35	5.5	44	1180	1.9	33.78	IE4	**BK60-../S4E11MA6**	4.4	14.5	29.5	44	53	890	1010	1180	1180	1180	130	6500	25200
35	5.5	44	1180	1.9	33.78	IE5	**BK60-../S5E11LA6**	4.4	14.5	29.5	44	53	1180	1180	1180	1180	1180	142	6500	25200
35	5.5	39.5	1320	1.7	37.8	IE5	**BK60-../S5E11LA6**	3.9	13	26	39.5	47.5	1320	1320	1320	1320	1320	142	7300	26500
35	5.5	39.5	1320	1.7	37.8	IE4	**BK60-../S4E11MA6**	3.9	13	26	39.5	47.5	1000	1130	1320	1320	1320	130	7300	26500
35	5.5	33	1570	1.5	45.05	IE4	**BK60-../S4E11MA6**	3.3	11	22	33	39.5	1190	1350	1570	1570	1570	130	8200	28300
35	5.5	33	1570	1.5	45.05	IE5	**BK60-../S5E11LA6**	3.3	11	22	33	39.5	1570	1570	1570	1570	1570	142	8200	28300
35	5.5	29.5	1760	1.3	50.4	IE5	**BK60-../S5E11LA6**	2.9	9.9	19.5	29.5	35.5	1760	1760	1760	1760	1760	142	9100	29800
35	5.5	29.5	1760	1.3	50.4	IE4	**BK60-../S4E11MA6**	2.9	9.9	19.5	29.5	35.5	1330	1510	1760	1760	1760	130	9100	29800
35	5.5	25	2050	1.1	58.95	IE4	**BK60-../S4E11MA6**	2.5	8.4	16.5	25	30.5	1560	1760	2050	2050	2050	130	9900	31500
35	5.5	25	2050	1.1	58.95	IE5	**BK60-../S5E11LA6**	2.5	8.4	16.5	25	30.5	2050	2050	2050	2050	2050	142	9900	31500
35	5.5	22.5	2300	1	65.95	IE4	**BK60-../S4E11MA6**	2.2	7.5	15	22.5	27	1740	1970	2300	2300	2300	130	10900	33000
35	5.5	22.5	2300	1	65.95	IE5	**BK60-../S5E11LA6**	2.2	7.5	15	22.5	27	2300	2300	2300	2300	2300	142	10900	33000
35	5.5	19	2700	0.84	78.13	IE4	**BK60-../S4E11MA6**	1.9	6.3	12.5	19	23	2050	2300	2700	2700	2700	130	11900	34000
35	5.5	19	2700	0.84	78.13	IE5	**BK60-../S5E11LA6**	1.9	6.3	12.5	19	23	2700	2700	2700	2700	2700	142	11900	34000
35	5.5	27.5	1890	2.7	54.15	IE4	**BK70-../S4E11MA6**	2.7	9.2	18	27.5	33	1430	1620	1890	1890	1890	209	9900	40200
35	5.5	27.5	1890	2.7	54.15	IE5	**BK70-../S5E11LA6**	2.7	9.2	18	27.5	33	1890	1890	1890	1890	1890	221	9900	40200
35	5.5	24	2150	2.4	61.6	IE4	**BK70-../S4E11MA6**	2.4	8.1	16	24	29	1630	1840	2150	2150	2150	209	11500	42800
35	5.5	24	2150	2.4	61.6	IE5	**BK70-../S5E11LA6**	2.4	8.1	16	24	29	2150	2150	2150	2150	2150	221	11500	42800
35	5.5	21	2450	2.1	70.23	IE5	**BK70-../S5E11LA6**	2.1	7.1	14	21	25.5	2450	2450	2450	2450	2450	221	12500	44800
35	5.5	21	2450	2.1	70.23	IE4	**BK70-../S4E11MA6**	2.1	7.1	14	21	25.5	1860	2100	2450	2450	2450	209	12500	44800
35	5.5	18.5	2750	1.9	79.89	IE4	**BK70-../S4E11MA6**	1.8	6.2	12.5	18.5	22.5	2100	2350	2750	2750	2750	209	14300	47600
35	5.5	18.5	2750	1.9	79.89	IE5	**BK70-../S5E11LA6**	1.8	6.2	12.5	18.5	22.5	2750	2750	2750	2750	2750	221	14300	47600
35	5.5	16	3150	1.6	90.96	IE4	**BK70-../S4E11MA6**	1.6	5.4	10.5	16	19.5	2400	2700	3150	3150	3150	209	15300	49900
35	5.5	16	3150	1.6	90.96	IE5	**BK70-../S5E11LA6**	1.6	5.4	10.5	16	19.5	3150	3150	3150	3150	3150	221	15300	49900
35	5.5	14	3600	1.4	103.5	IE5	**BK70-../S5E11LA6**	1.4	4.8	9.6	14	17	3600	3600	3600	3600	3600	221	17200	50000
35	5.5	14	3600	1.4	103.5	IE4	**BK70-../S4E11MA6**	1.4	4.8	9.6	14	17	2700	3100	3600	3600	3600	209	17200	50000
35	5.5	12	4200	1.2	120.2	IE5	**BK70-../S5E11LA6**	1.2	4.1	8.3	12	14.5	4200	4200	4200	4200	4200	221	18600	50000
35	5.5	12	4200	1.2	120.2	IE4	**BK70-../S4E11MA6**	1.2	4.1	8.3	12	14.5	3150	3600	4200	4200	4200	209	18600	50000
35	5.5	10.5	4750	1.1	136.7	IE5	**BK70-../S5E11LA6**	1	3.6	7.3	10.5	13	4750	4750	4750	4750	4750	221	20700	50000
35	5.5	10.5	4750	1.1	136.7	IE4	**BK70-../S4E11MA6**	1	3.6	7.3	10.5	13	3600	4100	4750	4750	4750	209	20700	50000

MN = 35 Nm (PN = 5.5 kW)



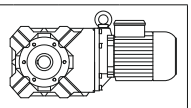
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
35	5.5	9.7	5400	0.96	154.4	IE4	**BK70-../S4E11MA6**	0.95	3.2	6.4	9.7	11.5	4050	4600	5400	5400	5400	209	21900	50000
35	5.5	9.7	5400	0.96	154.4	IE5	**BK70-../S5E11LA6**	0.95	3.2	6.4	9.7	11.5	5400	5400	5400	5400	5400	221	21900	50000
35	5.5	8.5	6100	0.85	175.7	IE5	**BK70-../S5E11LA6**	0.85	2.8	5.6	8.5	10	6100	6100	6100	6100	6100	221	24100	50000
35	5.5	8.5	6100	0.85	175.7	IE4	**BK70-../S4E11MA6**	0.85	2.8	5.6	8.5	10	4650	5200	6100	6100	6100	209	24100	50000
35	5.5	14.5	3550	2.9	102.5	IE4	**BK80-../S4E11MA6**	1.4	4.8	9.7	14.5	17.5	2700	3050	3550	3550	3550	324	20500	75000
35	5.5	14.5	3550	2.9	102.5	IE5	**BK80-../S5E11LA6**	1.4	4.8	9.7	14.5	17.5	3550	3550	3550	3550	3550	336	20500	75000
35	5.5	12.5	4100	2.6	117.5	IE5	**BK80-../S5E11LA6**	1.2	4.2	8.5	12.5	15	4100	4100	4100	4100	4100	336	22300	75000
35	5.5	12.5	4100	2.6	117.5	IE4	**BK80-../S4E11MA6**	1.2	4.2	8.5	12.5	15	3100	3500	4100	4100	4100	324	22300	75000
35	5.5	11	4600	2.3	131.6	IE4	**BK80-../S4E11MA6**	1.1	3.7	7.5	11	13.5	3450	3900	4600	4600	4600	324	24900	75000
35	5.5	11	4600	2.3	131.6	IE5	**BK80-../S5E11LA6**	1.1	3.7	7.5	11	13.5	4600	4600	4600	4600	4600	336	24900	75000
35	5.5	9.7	5300	2	153.1	IE5	**BK80-../S5E11LA6**	0.95	3.2	6.5	9.7	11.5	5300	5300	5300	5300	5300	336	27200	75000
35	5.5	9.7	5300	2	153.1	IE4	**BK80-../S4E11MA6**	0.95	3.2	6.5	9.7	11.5	4050	4550	5300	5300	5300	324	27200	75000
35	5.5	8.7	6000	1.7	171.5	IE5	**BK80-../S5E11LA6**	0.85	2.9	5.8	8.7	10	6000	6000	6000	6000	6000	336	30000	75000
35	5.5	8.7	6000	1.7	171.5	IE4	**BK80-../S4E11MA6**	0.85	2.9	5.8	8.7	10	4500	5100	6000	6000	6000	324	30000	75000
35	5.5	8.4	6200	1.9	177.6	IE5	**BK80Z-../S5E11LA6**	0.8	2.8	5.6	8.4	10	6200	6200	6200	6200	6200	378	30000	75000
35	5.5	8.4	6200	1.9	177.6	IE4	**BK80Z-../S4E11MA6**	0.8	2.8	5.6	8.4	10	4700	5300	6200	6200	6200	366	30000	75000
35	5.5	7.5	6900	1.7	198.9	IE4	**BK80Z-../S4E11MA6**	0.75	2.5	5	7.5	9	5200	5900	6900	6900	6900	366	30000	75000
35	5.5	7.5	6900	1.7	198.9	IE5	**BK80Z-../S5E11LA6**	0.75	2.5	5	7.5	9	6900	6900	6900	6900	6900	378	30000	75000
35	5.5	6.6	7900	1.5	226.1	IE5	**BK80Z-../S5E11LA6**	0.65	2.2	4.4	6.6	7.9	7900	7900	7900	7900	7900	378	30000	75000
35	5.5	6.6	7900	1.5	226.1	IE4	**BK80Z-../S4E11MA6**	0.65	2.2	4.4	6.6	7.9	5900	6700	7900	7900	7900	366	30000	75000
35	5.5	5.9	8800	1.3	253.3	IE4	**BK80Z-../S4E11MA6**	0.55	1.9	3.9	5.9	7.1	6700	7500	8800	8800	8800	366	30000	75000
35	5.5	5.9	8800	1.3	253.3	IE5	**BK80Z-../S5E11LA6**	0.55	1.9	3.9	5.9	7.1	8800	8800	8800	8800	8800	378	30000	75000
35	5.5	4.9	10500	1.1	300.6	IE4	**BK80Z-../S4E11MA6**	0.49	1.6	3.3	4.9	5.9	7900	9000	10500	10500	10500	366	30000	75000
35	5.5	4.9	10500	1.1	300.6	IE5	**BK80Z-../S5E11LA6**	0.49	1.6	3.3	4.9	5.9	10500	10500	10500	10500	10500	378	30000	75000
35	5.5	4.4	11700	0.98	336.7	IE5	**BK80Z-../S5E11LA6**	0.44	1.4	2.9	4.4	5.3	11700	11700	11700	11700	11700	378	30000	75000
35	5.5	4.4	11700	0.98	336.7	IE4	**BK80Z-../S4E11MA6**	0.44	1.4	2.9	4.4	5.3	8900	10100	11700	11700	11700	366	30000	75000
35	5.5	3.8	13600	0.84	389	IE5	**BK80Z-../S5E11LA6**	0.38	1.2	2.5	3.8	4.6	13600	13600	13600	13600	13600	378	30000	75000
35	5.5	3.8	13600	0.84	389	IE4	**BK80Z-../S4E11MA6**	0.38	1.2	2.5	3.8	4.6	10300	11600	13600	13600	13600	366	30000	75000
35	5.5	8.5	6100	3	174.7	IE4	**BK90Z-../S4E11MA6**	0.85	2.8	5.7	8.5	10	4600	5200	6100	6100	6100	632	49400	120000
35	5.5	8.5	6100	3	174.7	IE5	**BK90Z-../S5E11LA6**	0.85	2.8	5.7	8.5	10	6100	6100	6100	6100	6100	643	49400	120000
35	5.5	7.6	6800	2.7	195.4	IE4	**BK90Z-../S4E11MA6**	0.75	2.5	5.1	7.6	9.2	5100	5800	6800	6800	6800	632	49400	120000
35	5.5	7.6	6800	2.7	195.4	IE5	**BK90Z-../S5E11LA6**	0.75	2.5	5.1	7.6	9.2	6800	6800	6800	6800	6800	643	49400	120000
35	5.5	6.3	8200	2.3	234.6	IE4	**BK90Z-../S4E11MA6**	0.6	2.1	4.2	6.3	7.6	6200	7000	8200	8200	8200	632	49400	120000
35	5.5	6.3	8200	2.3	234.6	IE5	**BK90Z-../S5E11LA6**	0.6	2.1	4.2	6.3	7.6	8200	8200	8200	8200	8200	643	49400	120000
35	5.5	5.7	9100	2	262.5	IE4	**BK90Z-../S4E11MA6**	0.55	1.9	3.8	5.7	6.8	6900	7800	9100	9100	9100	632	49400	120000
35	5.5	5.7	9100	2	262.5	IE5	**BK90Z-../S5E11LA6**	0.55	1.9	3.8	5.7	6.8	9100	9100	9100	9100	9100	643	49400	120000
35	5.5	5	10300	1.8	295.6	IE4	**BK90Z-../S4E11MA6**	0.5	1.6	3.3	5	6	7800	8800	10300	10300	10300	632	49400	120000
35	5.5	5	10300	1.8	295.6	IE5	**BK90Z-../S5E11LA6**	0.5	1.6	3.3	5	6	10300	10300	10300	10300	10300	643	49400	120000
35	5.5	4.5	11500	1.6	330.7	IE5	**BK90Z-../S5E11LA6**	0.45	1.5	3	4.5	5.4	11500	11500	11500	11500	11500	643	49400	120000
35	5.5	4.5	11500	1.6	330.7	IE4	**BK90Z-../S4E11MA6**	0.45	1.5	3	4.5	5.4	8700	9900	11500	11500	11500	632	49400	120000
35	5.5	3.8	13600	1.4	389.1	IE5	**BK90Z-../S5E11LA6**	0.38	1.2	2.5	3.8	4.6	13600	13600	13600	13600	13600	643	49400	120000
35	5.5	3.8	13600	1.4	389.1	IE4	**BK90Z-../S4E11MA6**	0.38	1.2	2.5	3.8	4.6	10300	11600	13600	13600	13600	632	49400	120000
35	5.5	3.4	15200	1.2	435.3	IE4	**BK90Z-../S4E11MA6**	0.34	1.1	2.2	3.4	4.1	11500	13000	15200	15200	15200	632	49400	120000
35	5.5	3.4	15200	1.2	435.3	IE5	**BK90Z-../S5E11LA6**	0.34	1.1	2.2	3.4	4.1	15200	15200	15200	15200	15200	643	49400	120000
35	5.5	3	17400	1.1	499.2	IE4	**BK90Z-../S4E11MA6**	0.3	1	2	3	3.6	13200	14900	17400	17400	17400	632	49400	120000
35	5.5	3	17400	1.1	499.2	IE5	**BK90Z-../S5E11LA6**	0.3	1	2	3	3.6	17400	17400	17400	17400	17400	643	49400	120000
35	5.5	2.6	19500	0.95	558.5	IE4	**BK90Z-../S4E11MA6**	0.26	0.85	1.7	2.6	3.2	14800	16700	19500	19500	19500	632	49400	120000
35	5.5	2.6	19500	0.95	558.5	IE5	**BK90Z-../S5E11LA6**	0.26	0.85	1.7	2.6	3.2	19500	19500	19500	19500	19500	643	49400	120000
35	5.5	2.3	22000	0.83	637.7	IE4	**BK90Z-../S4E11MA6**	0.23	0.75	1.5	2.3	2.8	16800	19100	22000	22000	22000	632	49400	120000
35	5.5	2.3	22000	0.83	637.7	IE5	**BK90Z-../S5E11LA6**	0.23	0.75	1.5	2.3	2.8	22000	22000	22000	22000	22000	643	49400	120000

MN = 48 Nm (PN = 7.5 kW)



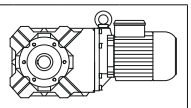
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
48	7.5	315	205	0.93	4.73	IE3	**BK30-../SPE11LA6**	31.5	105	210	315	380	152	174	205	205	205	76	1550	8800
48	7.5	200	325	0.81	7.45	IE3	**BK30-../SPE11LA6**	20	67	134	200	240	235	270	325	325	325	76	2200	10400
48	7.5	131	490	0.84	11.39	IE3	**BK30-../SPE11LA6**	13	43.5	87	131	158	355	410	490	490	490	76	4150	11000
48	7.5	320	200	2.1	4.63	IE3	**BK40-../SPE11LA6**	32	107	215	320	385	149	170	200	200	200	102	430	8900
48	7.5	245	265	1.8	6.02	IE3	**BK40-../SPE11LA6**	24.5	83	166	245	295	193	220	265	265	265	102	470	9800
48	7.5	200	330	1.5	7.49	IE3	**BK40-../SPE11LA6**	20	66	133	200	240	240	275	330	330	330	102	750	10500
48	7.5	161	410	1.2	9.31	IE3	**BK40-../SPE11LA6**	16	53	107	161	193	295	340	410	410	410	102	1040	11200
48	7.5	134	480	1.5	11.17	IE3	**BK40-../SPE11LA6**	13	44.5	89	134	161	350	400	480	480	480	102	4100	13100
48	7.5	126	520	0.94	11.86	IE3	**BK40-../SPE11LA6**	12.5	42	84	126	151	380	435	520	520	520	102	1770	12200
48	7.5	103	620	1.2	14.5	IE3	**BK40-../SPE11LA6**	10	34	68	103	124	455	520	620	620	620	102	4500	14300
48	7.5	83	770	1	18.05	IE3	**BK40-../SPE11LA6**	8.3	27.5	55	83	99	560	640	770	770	770	102	4900	15300
48	7.5	66	960	0.8	22.44	IE3	**BK40-../SPE11LA6**	6.6	22	44.5	66	80	700	800	960	960	960	102	5500	16500
48	7.5	205	320	2.5	7.29	IE3	**BK50-../SPE11LA6**	20.5	68	137	205	245	230	265	320	320	320	132	620	111000
48	7.5	154	420	2.2	9.73	IE3	**BK50-../SPE11LA6**	15	51	102	154	184	305	350	420	420	420	132	5400	15400
48	7.5	150	440	1.8	10	IE3	**BK50-../SPE11LA6**	15	50	100	150	180	320	365	440	440	440	132	1220	13200
48	7.5	107	600	1.7	13.95	IE3	**BK50-../SPE11LA6**	10.5	35.5	71	107	129	435	500	600	600	600	132	6100	17400
48	7.5	83	780	0.92	17.92	IE3	**BK50-../SPE11LA6**	8.3	27.5	55	83	100	570	650	780	780	780	132	4600	16800
48	7.5	77	830	1.3	19.33	IE3	**BK50-../SPE11LA6**	7.7	25.5	51	77	93	600	690	830	830	830	132	6900	19200

MN = 48 Nm (PN = 7.5 kW)



M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
48	7.5	56	1140	0.92	26.51	IE3	**BK50-../SPE11LA6**	5.6	18.5	37.5	56	67	830	950	1140	1140	1140	132	7800	21200
48	7.5	108	660	3	13.85	IE3	**BK60-../SPE11LA6**	10.5	36	72	108	129	480	550	660	660	660	142	3850	18000
48	7.5	104	690	2.8	14.41	IE3	**BK60-../SPE11LA6**	10	34.5	69	104	124	500	570	690	690	690	142	3650	18600
48	7.5	93	770	2.6	16.05	IE3	**BK60-../SPE11LA6**	9.3	31	62	93	112	560	640	770	770	770	142	4050	18800
48	7.5	81	880	2.4	18.36	IE3	**BK60-../SPE11LA6**	8.1	27	54	81	98	640	730	880	880	880	142	4000	19900
48	7.5	73	980	2.3	20.54	IE3	**BK60-../SPE11LA6**	7.3	24	48.5	73	87	710	820	980	980	980	142	4400	20600
48	7.5	61	1170	2	24.45	IE3	**BK60-../SPE11LA6**	6.1	20	40.5	61	73	850	970	1170	1170	1170	142	4850	22000
48	7.5	54	1310	1.8	27.36	IE3	**BK60-../SPE11LA6**	5.4	18	36.5	54	65	950	1090	1310	1310	1310	142	5600	23200
48	7.5	44	1620	1.4	33.78	IE3	**BK60-../SPE11LA6**	4.4	14.5	29.5	44	53	1180	1350	1620	1620	1620	142	6500	25200
48	7.5	39.5	1810	1.3	37.8	IE3	**BK60-../SPE11LA6**	3.9	13	26	39.5	47.5	1320	1510	1810	1810	1810	142	7300	26500
48	7.5	33	2150	1.1	45.05	IE3	**BK60-../SPE11LA6**	3.3	11	22	33	39.5	1570	1800	2150	2150	2150	142	8200	28300
48	7.5	29.5	2400	0.95	50.4	IE3	**BK60-../SPE11LA6**	2.9	9.9	19.5	29.5	35.5	1760	2000	2400	2400	2400	142	9100	29800
48	7.5	25	2800	0.81	58.95	IE3	**BK60-../SPE11LA6**	2.5	8.4	16.5	25	30.5	2050	2350	2800	2800	2800	142	9900	31500
48	7.5	48.5	1480	3	30.9	IE3	**BK70-../SPE11LA6**	4.8	16	32	48.5	58	1080	1230	1480	1480	1480	221	7500	33600
48	7.5	42.5	1680	2.8	35.15	IE3	**BK70-../SPE11LA6**	4.2	14	28	42.5	51	1230	1400	1680	1680	1680	221	8000	35000
48	7.5	37	1920	2.5	40.08	IE3	**BK70-../SPE11LA6**	3.7	12	24.5	37	44.5	1400	1600	1920	1920	1920	221	8300	36300
48	7.5	32.5	2150	2.3	45.59	IE3	**BK70-../SPE11LA6**	3.2	10.5	21.5	32.5	39	1590	1820	2150	2150	2150	221	9000	37900
48	7.5	27.5	2550	2	54.15	IE3	**BK70-../SPE11LA6**	2.7	9.2	18	27.5	33	1890	2150	2550	2550	2550	221	9900	40200
48	7.5	24	2950	1.8	61.6	IE3	**BK70-../SPE11LA6**	2.4	8.1	16	24	29	2150	2450	2950	2950	2950	221	11500	42800
48	7.5	21	3350	1.5	70.23	IE3	**BK70-../SPE11LA6**	2.1	7.1	14	21	25.5	2450	2800	3350	3350	3350	221	12500	44800
48	7.5	18.5	3800	1.4	79.89	IE3	**BK70-../SPE11LA6**	1.8	6.2	12.5	18.5	22.5	2750	3150	3800	3800	3800	221	14300	47600
48	7.5	16	4350	1.2	90.96	IE3	**BK70-../SPE11LA6**	1.6	5.4	10.5	16	19.5	3150	3600	4350	4350	4350	221	15300	49900
48	7.5	14	4950	1	103.5	IE3	**BK70-../SPE11LA6**	1.4	4.8	9.6	14	17	3600	4100	4950	4950	4950	221	17200	50000
48	7.5	12	5700	0.9	120.2	IE3	**BK70-../SPE11LA6**	1.2	4.1	8.3	12	14.5	4200	4800	5700	5700	5700	221	18600	50000
48	7.5	21	3350	2.8	70.72	IE3	**BK80-../SPE11LA6**	2.1	7	14	21	25	2450	2800	3350	3350	3350	336	16600	68700
48	7.5	18.5	3800	2.6	79.22	IE3	**BK80-../SPE11LA6**	1.8	6.3	12.5	18.5	22.5	2750	3150	3800	3800	3800	336	17600	71300
48	7.5	16	4350	2.3	91.53	IE3	**BK80-../SPE11LA6**	1.6	5.4	10.5	16	19.5	3200	3650	4350	4350	4350	336	18300	74200
48	7.5	14.5	4900	2.1	102.5	IE3	**BK80-../SPE11LA6**	1.4	4.8	9.7	14.5	17.5	3550	4100	4900	4900	4900	336	20500	75000
48	7.5	12.5	5600	1.9	117.5	IE3	**BK80-../SPE11LA6**	1.2	4.2	8.5	12.5	15	4100	4700	5600	5600	5600	336	22300	75000
48	7.5	11	6300	1.7	131.6	IE3	**BK80-../SPE11LA6**	1.1	3.7	7.5	11	13.5	4600	5200	6300	6300	6300	336	24900	75000
48	7.5	9.7	7300	1.4	153.1	IE3	**BK80-../SPE11LA6**	0.95	3.2	6.5	9.7	11.5	5300	6100	7300	7300	7300	336	27200	75000
48	7.5	8.7	8200	1.3	171.5	IE3	**BK80-../SPE11LA6**	0.85	2.9	5.8	8.7	10	6000	6800	8200	8200	8200	336	30000	75000
48	7.5	8.4	8500	1.3	177.6	IE3	**BK80Z-../SPE11LA6**	0.8	2.8	5.6	8.4	10	6200	7100	8500	8500	8500	378	30000	75000
48	7.5	7.5	9500	1.2	198.9	IE3	**BK80Z-../SPE11LA6**	0.75	2.5	5	7.5	9	6900	7900	9500	9500	9500	378	30000	75000
48	7.5	6.6	10800	1.1	226.1	IE3	**BK80Z-../SPE11LA6**	0.65	2.2	4.4	6.6	7.9	7900	9000	10800	10800	10800	378	30000	75000
48	7.5	5.9	12100	0.95	253.3	IE3	**BK80Z-../SPE11LA6**	0.55	1.9	3.9	5.9	7.1	8800	10100	12100	12100	12100	378	30000	75000
48	7.5	4.9	14400	0.8	300.6	IE3	**BK80Z-../SPE11LA6**	0.49	1.6	3.3	4.9	5.9	10500	12000	14400	14400	14400	378	30000	75000
48	7.5	8.5	8300	2.2	174.7	IE3	**BK90Z-../SPE11LA6**	0.85	2.8	5.7	8.5	10	6100	6900	8300	8300	8300	643	49400	120000
48	7.5	7.6	9300	2	195.4	IE3	**BK90Z-../SPE11LA6**	0.75	2.5	5.1	7.6	9.2	6800	7800	9300	9300	9300	643	49400	120000
48	7.5	6.3	11200	1.6	234.6	IE3	**BK90Z-../SPE11LA6**	0.6	2.1	4.2	6.3	7.6	8200	9300	11200	11200	11200	643	49400	120000
48	7.5	5.7	12600	1.5	262.5	IE3	**BK90Z-../SPE11LA6**	0.55	1.9	3.8	5.7	6.8	9100	10500	12600	12600	12600	643	49400	120000
48	7.5	5	14100	1.3	295.6	IE3	**BK90Z-../SPE11LA6**	0.5	1.6	3.3	5	6	10300	11800	14100	14100	14100	643	49400	120000
48	7.5	4.5	15800	1.2	330.7	IE3	**BK90Z-../SPE11LA6**	0.45	1.5	3	4.5	5.4	11500	13200	15800	15800	15800	643	49400	120000
48	7.5	3.8	18600	0.99	389.1	IE3	**BK90Z-../SPE11LA6**	0.38	1.2	2.5	3.8	4.6	13600	15500	18600	18600	18600	643	49400	120000
48	7.5	3.4	20500	0.89	435.3	IE3	**BK90Z-../SPE11LA6**	0.34	1.1	2.2	3.4	4.1	15200	17400	20500	20500	20500	643	49400	120000

MN = 0.65 Nm (PN = 0.2 kW)



M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
0.65	0.2	62	27.5	2.9	47.78	IE5	**BK06-../S5E04SA4-1**	3.1	10	20.5	62	75	27.5	27.5	27.5	27.5	27.5	7.6	1500	-
0.65	0.2	55	31	2.2	54.38	IE5	**BK06-../S5E04SA4-1**	2.7	9.1	18	55	66	31	31	31	31	31	7.6	1600	-
0.65	0.2	47	36.5	1.7	63.33	IE5	**BK06-../S5E04SA4-1**	2.3	7.8	15.5	47	56	36.5	36.5	36.5	36.5	36.5	7.6	1700	-
0.65	0.2	24.5	66	2.1	120.3	IE5	**BK10Z-../S5E04SA4-1**	1.2	4.1	8.3	24.5	29.5	66	66	66	66	66	21	7000	-
0.65	0.2	20.5	78	2.1	143.2	IE5	**BK10Z-../S5E04SA4-1**	1	3.4	6.9	20.5	25	78	78	78	78	78	21	7000	-
0.65	0.2	17.5	92	2.2	170.6	IE5	**BK10Z-../S5E04SA4-1**	0.85	2.9	5.8	17.5	21	92	92	92	92	92	21	7000	-
0.65	0.2	14.5	109	1.8	204.7	IE5	**BK10Z-../S5E04SA4-1**	0.7	2.4	4.8	14.5	17.5	109	109	109	109	109	21	7000	-
0.65	0.2	11.5	137	1.5	257.9	IE5	**BK10Z-../S5E04SA4-1**	0.55	1.9	3.8	11.5	13.5	137	137	137	137	137	21	7000	-
0.65	0.2	9.9	159	1.2	302.4	IE5	**BK10Z-../S5E04SA4-1**	0.49	1.6	3.3	9.9	11.5	159	159	159	159	159	21	7000	-
0.65	0.2	8	196	0.84	373.4	IE5	**BK10Z-../S5E04SA4-1**	0.4	1.3	2.6	8	9.6	196	196	196	196	196	21	7000	-
0.65	0.2	8.7	181	1.2	343.2	IE5	**BK10G06-../S5E04SA4-1**	0.43	1.4	2.9	8.7	10	181	181	181	181	181	25	7000	-
0.65	0.2	7.3	215	1	410.8	IE5	**BK10G06-../S5E04SA4-1**	0.36	1.2	2.4	7.3	8.7	215	215	215	215	215	25	7000	-
0.65	0.2	6.5	235	0.92	459.2	IE5	**BK10G06-../S5E04SA4-1**	0.32	1	2.1	6.5	7.8	235	235	235	235	235	25	7000	-
0.65	0.2	5.9	260	0.84	501.4	IE5	**BK10G06-../S5E04SA4-1**	0.29	0.95	1.9	5.9	7.1	260	260	260	260	260	25	7000	-
0.65	0.2	14	110	3	207.5	IE5	**BK20Z-../S5E04SA4-1**	0.7	2.4	4.8	14	17	110	110	110	110	110	31	8700	9000
0.65	0.2	11.5	138	2.4	259.9	IE5	**BK20Z-../S5E04SA4-1**	0.55	1.9	3.8	11.5	13.5	138	138	138	138	138	31	8700	9000
0.65	0.2	10	157	2	298.2	IE5	**BK20Z-../S5E04SA4-1**	0.5	1.6	3.3	10	12	157	157	157	157	157	31	8700	9000
0.65	0.2	8.1	191	1.5	367.7	IE5	**BK20Z-../S5E04SA4-1**	0.4	1.3	2.7	8.1	9.7	191	191	191	191	191	31	8700	9000
0.65	0.2	8.3	189	1.9	359.1	IE5	**BK20G06-../S5E04SA4-1**	0.41	1.3	2.7	8.3	10	189	189	189	189	189	34	8700	9000
0.65	0.2	6.9	220	1.6	429.7	IE5	**BK20G06-../S5E04SA4-1**	0.34	1.1	2.3	6.9	8.3	220	220	220	220	220	34	8700	9000
0.65	0.2	6.2	250	1.4	480.4	IE5	**BK20G06-../S5E04SA4-1**	0.31	1	2	6.2	7.4	250	250	250	250	250	34	8700	9000
0.65	0.2	5.7	270	1.3	524.5	IE5	**BK20G06-../S5E04SA4-1**	0.28	0.95	1.9	5.7	6.8	270	270	270	270	270	34	8700	9000
0.65	0.2	4.7	320	1.1	630	IE5	**BK20G06-../S5E04SA4-1**	0.23	0.75	1.5	4.7	5.7	320	320	320	320	320	34	8700	9000
0.65	0.2	3.9	385	0.93	757	IE5	**BK20G06-../S5E04SA4-1**	0.19	0.65	1.3	3.9	4.7	385	385	385	385	385	34	8700	9000
0.65	0.2	3.3	450	0.8	891.2	IE5	**BK20G06-../S5E04SA4-1**	0.16	0.55	1.1	3.3	4	450	450	450	450	450	34	8700	9000
0.65	0.2	6.3	245	2	471.5	IE5	**BK30G06-../S5E04SA4-1**	0.31	1	2.1	6.3	7.6	245	245	245	245	245	40	11200	12000
0.65	0.2	5.2	290	1.7	567	IE5	**BK30G06-../S5E04SA4-1**	0.26	0.85	1.7	5.2	6.3	290	290	290	290	290	40	11200	12000
0.65	0.2	4.5	335	1.5	652.5	IE5	**BK30G06-../S5E04SA4-1**	0.22	0.75	1.5	4.5	5.5	335	335	335	335	335	40	11200	12000
0.65	0.2	4	375	1.3	743	IE5	**BK30G06-../S5E04SA4-1**	0.2	0.65	1.3	4	4.8	375	375	375	375	375	40	11200	12000
0.65	0.2	3.6	410	1.2	810.9	IE5	**BK30G06-../S5E04SA4-1**	0.18	0.6	1.2	3.6	4.4	410	410	410	410	410	40	11200	12000
0.65	0.2	3.1	480	1	954.1	IE5	**BK30G06-../S5E04SA4-1**	0.15	0.5	1	3.1	3.7	480	480	480	480	480	40	11200	12000
0.65	0.2	2.6	570	0.85	1142	IE5	**BK30G06-../S5E04SA4-1**	0.13	0.43	0.85	2.6	3.1	570	570	570	570	570	40	11200	12000

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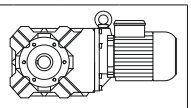
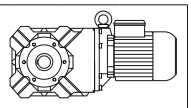


M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
0.8	0.25	78	27	2.9	38.18	IE5	**BK06-../S5E04SA4-1**	3.9	13	26	78	94	26	27	27	27	27	7.6	1380	-
0.8	0.25	62	34	2.4	47.78	IE5	**BK06-../S5E04SA4-1**	3.1	10	20.5	62	75	32	34	34	34	34	7.6	1500	-
0.8	0.25	55	38.5	1.8	54.38	IE5	**BK06-../S5E04SA4-1**	2.7	9.1	18	55	66	36.5	38.5	38.5	38.5	38.5	7.6	1600	-
0.8	0.25	47	45	1.4	63.33	IE5	**BK06-../S5E04SA4-1**	2.3	7.8	15.5	47	56	42.5	45	45	45	45	7.6	1700	-
0.8	0.25	24.5	81	1.7	120.3	IE5	**BK10Z-../S5E04SA4-1**	1.2	4.1	8.3	24.5	29.5	77	81	81	81	81	21	7000	-
0.8	0.25	20.5	96	1.7	143.2	IE5	**BK10Z-../S5E04SA4-1**	1	3.4	6.9	20.5	25	91	96	96	96	96	21	7000	-
0.8	0.25	17.5	113	1.8	170.6	IE5	**BK10Z-../S5E04SA4-1**	0.85	2.9	5.8	17.5	21	107	113	113	113	113	21	7000	-
0.8	0.25	14.5	134	1.5	204.7	IE5	**BK10Z-../S5E04SA4-1**	0.7	2.4	4.8	14.5	17.5	127	134	134	134	134	21	7000	-
0.8	0.25	11.5	169	1.2	257.9	IE5	**BK10Z-../S5E04SA4-1**	0.55	1.9	3.8	11.5	13.5	160	169	169	169	169	21	7000	-
0.8	0.25	9.9	195	0.94	302.4	IE5	**BK10Z-../S5E04SA4-1**	0.49	1.6	3.3	9.9	11.5	186	195	195	195	195	21	7000	-
0.8	0.25	8.7	220	0.98	343.2	IE5	**BK10G06-../S5E04SA4-1**	0.43	1.4	2.9	8.7	10	210	220	220	220	220	25	7000	-
0.8	0.25	7.3	265	0.83	410.8	IE5	**BK10G06-../S5E04SA4-1**	0.36	1.2	2.4	7.3	8.7	250	265	265	265	265	25	7000	-
0.8	0.25	17	115	2.9	173.4	IE5	**BK20Z-../S5E04SA4-1**	0.85	2.8	5.7	17	20.5	109	115	115	115	115	31	8700	9000
0.8	0.25	14	136	2.4	207.5	IE5	**BK20Z-../S5E04SA4-1**	0.7	2.4	4.8	14	17	129	136	136	136	136	31	8700	9000
0.8	0.25	11.5	170	1.9	259.9	IE5	**BK20Z-../S5E04SA4-1**	0.55	1.9	3.8	11.5	13.5	161	170	170	170	170	31	8700	9000
0.8	0.25	10	193	1.6	298.2	IE5	**BK20Z-../S5E04SA4-1**	0.5	1.6	3.3	10	12	183	193	193	193	193	31	8700	9000
0.8	0.25	8.1	235	1.2	367.7	IE5	**BK20Z-../S5E04SA4-1**	0.4	1.3	2.7	8.1	9.7	220	235	235	235	235	31	8700	9000
0.8	0.25	8.3	230	1.5	359.1	IE5	**BK20G06-../S5E04SA4-1**	0.41	1.3	2.7	8.3	10	220	230	230	230	230	34	8700	9000
0.8	0.25	6.9	275	1.3	429.7	IE5	**BK20G06-../S5E04SA4-1**	0.34	1.1	2.3	6.9	8.3	260	275	275	275	275	34	8700	9000
0.8	0.25	6.2	305	1.2	480.4	IE5	**BK20G06-../S5E04SA4-1**	0.31	1	2	6.2	7.4	290	305	305	305	305	34	8700	9000
0.8	0.25	5.7	335	1.1	524.5	IE5	**BK20G06-../S5E04SA4-1**	0.28	0.95	1.9	5.7	6.8	315	335	335	335	335	34	8700	9000
0.8	0.25	4.7	395	0.9	630	IE5	**BK20G06-../S5E04SA4-1**	0.23	0.75	1.5	4.7	5.7	375	395	395	395	395	34	8700	9000
0.8	0.25	6.3	300	1.6	471.5	IE5	**BK30G06-../S5E04SA4-1**	0.31	1	2.1	6.3	7.6	285	300	300	300	300	40	11200	12000
0.8	0.25	5.2	360	1.4	567	IE5	**BK30G06-../S5E04SA4-1**	0.26	0.85	1.7	5.2	6.3	340	360	360	360	360	40	11200	12000
0.8	0.25	4.5	410	1.2	652.5	IE5	**BK30G06-../S5E04SA4-1**	0.22	0.75	1.5	4.5	5.5	390	410	410	410	410	40	11200	12000
0.8	0.25	4	465	1	743	IE5	**BK30G06-../S5E04SA4-1**	0.2	0.65	1.3	4	4.8	440	465	465	465	465	40	11200	12000
0.8	0.25	3.6	500	0.96	810.9	IE5	**BK30G06-../S5E04SA4-1**	0.18	0.6	1.2	3.6	4.4	480	500	500	500	500	40	11200	12000
0.8	0.25	3.1	590	0.83	954.1	IE5	**BK30G06-../S5E04SA4-1**	0.15	0.5	1	3.1	3.7	560	590	590	590	590	40	11200	12000

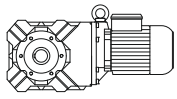
MN = 1 Nm (PN = 0.315 kW)



M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
1	0.315	90	29.5	2.7	33.33	IE4	**BK06-../S4E04SA4-1**	4.5	15	30	90	108	22.5	25	29.5	29.5	29.5	7.6	1320	-
1	0.315	78	34	2.3	38.18	IE4	**BK06-../S4E04SA4-1**	3.9	13	26	78	94	26	29	34	34	34	7.6	1380	-
1	0.315	62	42.5	1.9	47.78	IE4	**BK06-../S4E04SA4-1**	3.1	10	20.5	62	75	32	36	42.5	42.5	42.5	7.6	1500	-
1	0.315	55	48	1.4	54.38	IE4	**BK06-../S4E04SA4-1**	2.7	9.1	18	55	66	36.5	41	48	48	48	7.6	1600	-
1	0.315	47	56	1.1	63.33	IE4	**BK06-../S4E04SA4-1**	2.3	7.8	15.5	47	56	42.5	47.5	56	56	56	7.6	1700	-
1	0.315	24.5	102	1.3	120.3	IE4	**BK10Z-../S4E04SA4-1**	1.2	4.1	8.3	24.5	29.5	77	86	102	102	102	21	7000	-
1	0.315	20.5	120	1.4	143.2	IE4	**BK10Z-../S4E04SA4-1**	1	3.4	6.9	20.5	25	91	102	120	120	120	21	7000	-
1	0.315	17.5	141	1.4	170.6	IE4	**BK10Z-../S4E04SA4-1**	0.85	2.9	5.8	17.5	21	107	120	141	141	141	21	7000	-
1	0.315	14.5	167	1.2	204.7	IE4	**BK10Z-../S4E04SA4-1**	0.7	2.4	4.8	14.5	17.5	127	142	167	167	167	21	7000	-
1	0.315	11.5	210	0.95	257.9	IE4	**BK10Z-../S4E04SA4-1**	0.55	1.9	3.8	11.5	13.5	160	179	210	210	210	21	7000	-
1	0.315	30.5	83	2.8	96.99	IE4	**BK20Z-../S4E04SA4-1**	1.5	5.1	10	30.5	37	63	70	83	83	83	31	8700	9000
1	0.315	20.5	121	2.7	144.5	IE4	**BK20Z-../S4E04SA4-1**	1	3.4	6.9	20.5	24.5	92	103	121	121	121	31	8700	9000
1	0.315	17	143	2.3	173.4	IE4	**BK20Z-../S4E04SA4-1**	0.85	2.8	5.7	17	20.5	109	122	143	143	143	31	8700	9000
1	0.315	14	170	1.9	207.5	IE4	**BK20Z-../S4E04SA4-1**	0.7	2.4	4.8	14	17	129	144	170	170	170	31	8700	9000
1	0.315	11.5	210	1.5	259.9	IE4	**BK20Z-../S4E04SA4-1**	0.55	1.9	3.8	11.5	13.5	161	181	210	210	210	31	8700	9000
1	0.315	10	240	1.3	298.2	IE4	**BK20Z-../S4E04SA4-1**	0.5	1.6	3.3	10	12	183	205	240	240	240	31	8700	9000
1	0.315	8.1	290	0.99	367.7	IE4	**BK20Z-../S4E04SA4-1**	0.4	1.3	2.7	8.1	9.7	220	250	290	290	290	31	8700	9000
1	0.315	8.3	290	1.2	359.1	IE4	**BK20G06-../S4E04SA4-1**	0.41	1.3	2.7	8.3	10	220	245	290	290	290	34	8700	9000
1	0.315	6.9	345	1	429.7	IE4	**BK20G06-../S4E04SA4-1**	0.34	1.1	2.3	6.9	8.3	260	290	345	345	345	34	8700	9000
1	0.315	6.2	385	0.93	480.4	IE4	**BK20G06-../S4E04SA4-1**	0.31	1	2	6.2	7.4	290	325	385	385	385	34	8700	9000
1	0.315	5.7	415	0.86	524.5	IE4	**BK20G06-../S4E04SA4-1**	0.28	0.95	1.9	5.7	6.8	315	355	415	415	415	34	8700	9000
1	0.315	6.3	375	1.3	471.5	IE4	**BK30G06-../S4E04SA4-1**	0.31	1	2.1	6.3	7.6	285	320	375	375	375	40	11200	12000
1	0.315	5.2	450	1.1	567	IE4	**BK30G06-../S4E04SA4-1**	0.26	0.85	1.7	5.2	6.3	340	380	450	450	450	40	11200	12000
1	0.315	4.5	510	0.95	652.5	IE4	**BK30G06-../S4E04SA4-1**	0.22	0.75	1.5	4.5	5.5	390	435	510	510	510	40	11200	12000
1	0.315	4	580	0.84	743	IE4	**BK30G06-../S4E04SA4-1**	0.2	0.65	1.3	4	4.8	440	495	580	580	580	40	11200	12000

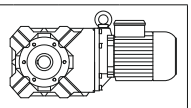
8

MN = 1.3 Nm (PN = 0.4 kW)



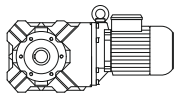
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
1.3	0.4	113	30.5	2.6	26.36	IE5	**BK06-../S5E06MA4**	5.6	18.5	37.5	113	136	30.5	30.5	30.5	30.5	30.5	11	1230	-
1.3	0.4	90	38.5	2.1	33.33	IE5	**BK06-../S5E06MA4**	4.5	15	30	90	108	38.5	38.5	38.5	38.5	38.5	11	1320	-
1.3	0.4	78	44.5	1.8	38.18	IE5	**BK06-../S5E06MA4**	3.9	13	26	78	94	44.5	44.5	44.5	44.5	44.5	11	1380	-
1.3	0.4	62	55	1.4	47.78	IE5	**BK06-../S5E06MA4**	3.1	10	20.5	62	75	55	55	55	55	55	11	1500	-
1.3	0.4	55	62	1.1	54.38	IE5	**BK06-../S5E06MA4**	2.7	9.1	18	55	66	62	62	62	62	62	11	1600	-
1.3	0.4	47	73	0.87	63.33	IE5	**BK06-../S5E06MA4**	2.3	7.8	15.5	47	56	73	73	73	73	73	11	1700	-
1.3	0.4	48.5	71	2.8	61.68	IE5	**BK10-../S5E06MA4**	2.4	8.1	16	48.5	58	71	71	71	71	71	23	7000	-
1.3	0.4	41	82	2.4	72.31	IE5	**BK10-../S5E06MA4**	2	6.9	13.5	41	49.5	82	82	82	82	82	23	7000	-
1.3	0.4	33.5	100	1.8	89.3	IE5	**BK10-../S5E06MA4**	1.6	5.5	11	33.5	40	100	100	100	100	100	23	7000	-
1.3	0.4	29	113	1.4	102.5	IE5	**BK10-../S5E06MA4**	1.4	4.8	9.7	29	35	113	113	113	113	113	23	7000	-
1.3	0.4	24.5	132	1	120.3	IE5	**BK10Z-../S5E06MA4**	1.2	4.1	8.3	24.5	29.5	132	132	132	132	132	24	7000	-
1.3	0.4	20.5	156	1	143.2	IE5	**BK10Z-../S5E06MA4**	1	3.4	6.9	20.5	25	156	156	156	156	156	24	7000	-
1.3	0.4	17.5	184	1.1	170.6	IE5	**BK10Z-../S5E06MA4**	0.85	2.9	5.8	17.5	21	184	184	184	184	184	24	7000	-
1.3	0.4	14.5	215	0.92	204.7	IE5	**BK10Z-../S5E06MA4**	0.7	2.4	4.8	14.5	17.5	215	215	215	215	215	24	7000	-
1.3	0.4	27.5	121	2.6	108.6	IE5	**BK20-../S5E06MA4**	1.3	4.6	9.2	27.5	33	121	121	121	121	121	33	8700	9000
1.3	0.4	30.5	108	2.1	96.99	IE5	**BK20Z-../S5E06MA4**	1.5	5.1	10	30.5	37	108	108	108	108	108	34	8700	9000
1.3	0.4	24	137	2.4	124.2	IE5	**BK20Z-../S5E06MA4**	1.2	4	8	24	28.5	137	137	137	137	137	34	8700	9000
1.3	0.4	20.5	157	2.1	144.5	IE5	**BK20Z-../S5E06MA4**	1	3.4	6.9	20.5	24.5	157	157	157	157	157	34	8700	9000
1.3	0.4	17	187	1.8	173.4	IE5	**BK20Z-../S5E06MA4**	0.85	2.8	5.7	17	20.5	187	187	187	187	187	34	8700	9000
1.3	0.4	14	220	1.5	207.5	IE5	**BK20Z-../S5E06MA4**	0.7	2.4	4.8	14	17	220	220	220	220	220	34	8700	9000
1.3	0.4	11.5	275	1.2	259.9	IE5	**BK20Z-../S5E06MA4**	0.55	1.9	3.8	11.5	13.5	275	275	275	275	275	34	8700	9000
1.3	0.4	10	310	0.99	298.2	IE5	**BK20Z-../S5E06MA4**	0.5	1.6	3.3	10	12	310	310	310	310	310	34	8700	9000
1.3	0.4	8.3	375	0.95	359.1	IE5	**BK20G06-../S5E06MA4**	0.41	1.3	2.7	8.3	10	375	375	375	375	375	38	8700	9000
1.3	0.4	6.9	445	0.8	429.7	IE5	**BK20G06-../S5E06MA4**	0.34	1.1	2.3	6.9	8.3	445	445	445	445	445	38	8700	9000
1.3	0.4	20.5	158	2.8	145.1	IE5	**BK30Z-../S5E06MA4**	1	3.4	6.8	20.5	24.5	158	158	158	158	158	41	11200	12000
1.3	0.4	16	199	2.3	184.8	IE5	**BK30Z-../S5E06MA4**	0.8	2.7	5.4	16	19	199	199	199	199	199	41	11200	12000
1.3	0.4	13.5	230	1.9	216.5	IE5	**BK30Z-../S5E06MA4**	0.65	2.3	4.6	13.5	16.5	230	230	230	230	230	41	11200	12000
1.3	0.4	11.5	270	1.7	255.3	IE5	**BK30Z-../S5E06MA4**	0.55	1.9	3.9	11.5	14	270	270	270	270	270	41	11200	12000
1.3	0.4	9.7	325	1.2	308.3	IE5	**BK30Z-../S5E06MA4**	0.48	1.6	3.2	9.7	11.5	325	325	325	325	325	41	11200	12000
1.3	0.4	7.8	400	1	380.7	IE5	**BK30Z-../S5E06MA4**	0.39	1.3	2.6	7.8	9.4	400	400	400	400	400	41	11200	12000
1.3	0.4	6.7	455	0.83	441.3	IE5	**BK30Z-../S5E06MA4**	0.33	1.1	2.2	6.7	8.1	455	455	455	455	455	41	11200	12000
1.3	0.4	6.3	490	1	471.5	IE5	**BK30G06-../S5E06MA4**	0.31	1	2.1	6.3	7.6	490	490	490	490	490	44	11200	12000
1.3	0.4	5.2	580	0.84	567	IE5	**BK30G06-../S5E06MA4**	0.26	0.85	1.7	5.2	6.3	580	580	580	580	580	44	11200	12000
1.3	0.4	12	255	3	246.6	IE5	**BK40Z-../S5E06MA4**	0.6	2	4	12	14.5	255	255	255	255	255	64	11700	17000
1.3	0.4	10	305	2.2	289.8	IE5	**BK40Z-../S5E06MA4**	0.5	1.7	3.4	10	12	305	305	305	305	305	64	11700	17000
1.3	0.4	8.6	365	1.6	348.7	IE5	**BK40Z-../S5E06MA4**	0.43	1.4	2.8	8.6	10	365	365	365	365	365	64	11700	17000
1.3	0.4	6.9	445	1.3	430	IE5	**BK40Z-../S5E06MA4**	0.34	1.1	2.3	6.9	8.3	445	445	445	445	445	64	11700	17000
1.3	0.4	6.1	500	1.7	487.3	IE5	**BK40G10-../S5E06MA4**	0.3	1	2	6.1	7.3	500	500	500	500	500	68	11700	17000
1.3	0.4	5.5	550	1.5	540	IE5	**BK40G10-../S5E06MA4**	0.27	0.9	1.8	5.5	6.6	550	550	550	550	550	68	11700	17000
1.3	0.4	4.5	670	1.3	660.2	IE5	**BK40G10-../S5E06MA4**	0.22	0.75	1.5	4.5	5.4	670	670	670	670	670	68	11700	17000

MN = 1.3 Nm (PN = 0.4 kW)



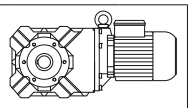
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
1.3	0.4	3.9	770	1.1	756.7	IE5	**BK40G10-../S5E06MA4**	0.19	0.65	1.3	3.9	4.7	770	770	770	770	770	68	11700	17000
1.3	0.4	3.5	850	1	838.4	IE5	**BK40G10-../S5E06MA4**	0.17	0.55	1.1	3.5	4.2	850	850	850	850	850	68	11700	17000
1.3	0.4	3	1000	0.84	998.3	IE5	**BK40G10-../S5E06MA4**	0.15	0.5	1	3	3.6	1000	1000	1000	1000	1000	68	11700	17000
1.3	0.4	9.1	345	2.9	328.2	IE5	**BK50Z-../S5E06MA4**	0.45	1.5	3	9.1	10.5	345	345	345	345	345	92	14100	26000
1.3	0.4	7.2	430	1.9	414.8	IE5	**BK50Z-../S5E06MA4**	0.36	1.2	2.4	7.2	8.6	430	430	430	430	430	92	14100	26000
1.3	0.4	6.4	485	2.4	465.1	IE5	**BK50G10-../S5E06MA4**	0.32	1	2.1	6.4	7.7	485	485	485	485	485	96	14100	111000
1.3	0.4	5.8	530	2.2	513.4	IE5	**BK50G10-../S5E06MA4**	0.29	0.95	1.9	5.8	7	530	530	530	530	530	96	14100	111000
1.3	0.4	5.2	580	2	568.6	IE5	**BK50G10-../S5E06MA4**	0.26	0.85	1.7	5.2	6.3	580	580	580	580	580	96	14100	111000
1.3	0.4	4.6	670	1.7	651.7	IE5	**BK50G10-../S5E06MA4**	0.23	0.75	1.5	4.6	5.5	670	670	670	670	670	96	14100	111000
1.3	0.4	4.1	730	1.6	722.2	IE5	**BK50G10-../S5E06MA4**	0.2	0.65	1.3	4.1	4.9	730	730	730	730	730	96	14100	111000
1.3	0.4	3.4	870	1.3	859.8	IE5	**BK50G10-../S5E06MA4**	0.17	0.55	1.1	3.4	4.1	870	870	870	870	870	96	14100	111000
1.3	0.4	2.9	1030	1.1	1024	IE5	**BK50G10-../S5E06MA4**	0.14	0.48	0.95	2.9	3.5	1030	1030	1030	1030	1030	96	14100	111000
1.3	0.4	2.4	1230	0.93	1230	IE5	**BK50G10-../S5E06MA4**	0.12	0.4	0.8	2.4	2.9	1230	1230	1230	1230	1230	96	14100	111000
1.3	0.4	2.1	1390	0.83	1398	IE5	**BK50G10-../S5E06MA4**	0.1	0.35	0.7	2.1	2.5	1390	1390	1390	1390	1390	96	14100	111000
1.3	0.4	3.9	970	2.6	752.1	IE5	**BK60G20-../S5E06MA4**	0.19	0.65	1.3	3.9	4.7	970	970	970	970	970	123	16600	34000
1.3	0.4	3.3	1150	2.2	887.8	IE5	**BK60G20-../S5E06MA4**	0.16	0.55	1.1	3.3	4	1150	1150	1150	1150	1150	123	16600	34000
1.3	0.4	2.9	1320	1.9	1016	IE5	**BK60G20-../S5E06MA4**	0.14	0.49	0.95	2.9	3.5	1320	1320	1320	1320	1320	123	16600	34000
1.3	0.4	2.2	1710	1.5	1322	IE5	**BK60G20-../S5E06MA4**	0.11	0.37	0.75	2.2	2.7	1710	1710	1710	1710	1710	123	16600	34000
1.3	0.4	1.8	2100	1.2	1618	IE5	**BK60G20-../S5E06MA4**	0.09	0.3	0.6	1.8	2.2	2100	2100	2100	2100	2100	123	16600	34000
1.3	0.4	1.6	2350	1.1	1810	IE5	**BK60G20-../S5E06MA4**	0.08	0.27	0.55	1.6	1.9	2350	2350	2350	2350	2350	123	16600	34000
1.3	0.4	1.4	2600	0.96	2010	IE5	**BK60G20-../S5E06MA4**	0.07	0.24	0.49	1.4	1.7	2600	2600	2600	2600	2600	123	16600	34000
1.3	0.4	1.2	3050	0.81	2371	IE5	**BK60G20-../S5E06MA4**	0.06	0.21	0.42	1.2	1.5	3050	3050	3050	3050	3050	123	16600	34000
1.3	0.4	2	1890	3	1457	IE5	**BK70G20-../S5E06MA4**	0.1	0.34	0.65	2	2.4	1890	1890	1890	1890	1890	201	24100	50000
1.3	0.4	1.7	2200	2.6	1696	IE5	**BK70G20-../S5E06MA4**	0.085	0.29	0.55	1.7	2.1	2200	2200	2200	2200	2200	201	24100	50000
1.3	0.4	1.4	2650	2.1	2040	IE5	**BK70G20-../S5E06MA4**	0.07	0.24	0.49	1.4	1.7	2650	2650	2650	2650	2650	201	24100	50000
1.3	0.4	1.1	3350	1.7	2578	IE5	**BK70G20-../S5E06MA4**	0.055	0.19	0.38	1.1	1.3	3350	3350	3350	3350	3350	201	24100	50000
1.3	0.4	0.95	3950	1.4	3041	IE5	**BK70G20-../S5E06MA4**	0.049	0.16	0.32	0.95	1.1	3950	3950	3950	3950	3950	201	24100	50000
1.3	0.4	0.85	4550	1.3	3505	IE5	**BK70G20-../S5E06MA4**	0.042	0.14	0.28	0.85	1	4550	4550	4550	4550	4550	201	24100	50000
1.3	0.4	0.75	5000	1.1	3894	IE5	**BK70G20-../S5E06MA4**	0.038	0.12	0.25	0.75	0.9	5000	5000	5000	5000	5000	201	24100	50000
1.3	0.4	0.65	5800	0.97	4531	IE5	**BK70G20-../S5E06MA4**	0.033	0.11	0.22	0.65	0.75	5800	5800	5800	5800	5800	201	24100	50000
1.3	0.4	0.55	7000	0.81	5436	IE5	**BK70G20-../S5E06MA4**	0.027	0.09	0.18	0.55	0.65	7000	7000	7000	7000	7000	201	24100	50000

MN = 1.75 Nm (PN = 0.55 kW)



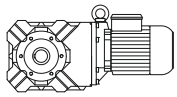
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
1.75	0.55	166	28	2.8	18	IE5	**BK06-../S5E06MA4**	8.3	27.5	55	166	200	28	28	28	28	28	11	1080	-
1.75	0.55	139	33.5	2.4	21.54	IE5	**BK06-../S5E06MA4**	6.9	23	46	139	167	33.5	33.5	33.5	33.5	33.5	11	1150	-
1.75	0.55	113	41.5	1.9	26.36	IE5	**BK06-../S5E06MA4**	5.6	18.5	37.5	113	136	41.5	41.5	41.5	41.5	41.5	11	1230	-
1.75	0.55	90	52	1.5	33.33	IE5	**BK06-../S5E06MA4**	4.5	15	30	90	108	52	52	52	52	52	11	1320	-
1.75	0.55	78	60	1.3	38.18	IE5	**BK06-../S5E06MA4**	3.9	13	26	78	94	60	60	60	60	60	11	1380	-
1.75	0.55	62	74	1.1	47.78	IE5	**BK06-../S5E06MA4**	3.1	10	20.5	62	75	74	74	74	74	74	11	1500	-
1.75	0.55	55	84	0.8	54.38	IE5	**BK06-../S5E06MA4**	2.7	9.1	18	55	66	84	84	84	84	84	11	1600	-
1.75	0.55	61	76	2.6	48.96	IE5	**BK10-../S5E06MA4**	3	10	20	61	73	76	76	76	76	76	23	6400	-
1.75	0.55	48.5	96	2.1	61.68	IE5	**BK10-../S5E06MA4**	2.4	8.1	16	48.5	58	96	96	96	96	96	23	7000	-
1.75	0.55	41	111	1.8	72.31	IE5	**BK10-../S5E06MA4**	2	6.9	13.5	41	49.5	111	111	111	111	111	23	7000	-
1.75	0.55	33.5	135	1.3	89.3	IE5	**BK10-../S5E06MA4**	1.6	5.5	11	33.5	40	135	135	135	135	135	23	7000	-
1.75	0.55	29	152	1	102.5	IE5	**BK10-../S5E06MA4**	1.4	4.8	9.7	29	35	152	152	152	152	152	23	7000	-
1.75	0.55	17.5	245	0.81	170.6	IE5	**BK10Z-../S5E06MA4**	0.85	2.9	5.8	17.5	21	245	245	245	245	245	24	7000	-
1.75	0.55	39	118	2.8	76.79	IE5	**BK20-../S5E06MA4**	1.9	6.5	13	39	46.5	118	118	118	118	118	33	7500	9000
1.75	0.55	34	134	2.5	88.12	IE5	**BK20-../S5E06MA4**	1.7	5.6	11	34	40.5	134	134	134	134	134	33	8000	9000
1.75	0.55	27.5	163	1.9	108.6	IE5	**BK20-../S5E06MA4**	1.3	4.6	9.2	27.5	33	163	163	163	163	163	33	8700	9000
1.75	0.55	30.5	145	1.6	96.99	IE5	**BK20Z-../S5E06MA4**	1.5	5.1	10	30.5	37	145	145	145	145	145	34	8700	9000
1.75	0.55	24	184	1.8	124.2	IE5	**BK20Z-../S5E06MA4**	1.2	4	8	24	28.5	184	184	184	184	184	34	8700	9000
1.75	0.55	20.5	210	1.6	144.5	IE5	**BK20Z-../S5E06MA4**	1	3.4	6.9	20.5	24.5	210	210	210	210	210	34	8700	9000
1.75	0.55	17	250	1.3	173.4	IE5	**BK20Z-../S5E06MA4**	0.85	2.8	5.7	17	20.5	250	250	250	250	250	34	8700	9000
1.75	0.55	14	295	1.1	207.5	IE5	**BK20Z-../S5E06MA4**	0.7	2.4	4.8	14	17	295	295	295	295	295	34	8700	9000
1.75	0.55	11.5	370	0.88	259.9	IE5	**BK20Z-../S5E06MA4**	0.55	1.9	3.8	11.5	13.5	370	370	370	370	370	34	8700	9000
1.75	0.55	29	152	3	102.4	IE5	**BK30-../S5E06MA4**	1.4	4.8	9.7	29	35	152	152	152	152	152	39	11200	12000
1.75	0.55	24	184	2.4	123.9	IE5	**BK30Z-../S5E06MA4**	1.2	4	8	24	29	184	184	184	184	184	41	11200	12000
1.75	0.55	20.5	210	2.1	145.1	IE5	**BK30Z-../S5E06MA4**	1	3.4	6.8	20.5	24.5	210	210	210	210	210	41	11200	12000
1.75	0.55	16	265	1.7	184.8	IE5	**BK30Z-../S5E06MA4**	0.8	2.7	5.4	16	19	265	265	265	265	265	41	11200	12000
1.75	0.55	13.5	310	1.4	216.5	IE5	**BK30Z-../S5E06MA4**	0.65	2.3	4.6	13.5	16.5	310	310	310	310	310	41	11200	12000
1.75	0.55	11.5	365	1.2	255.3	IE5	**BK30Z-../S5E06MA4**	0.55	1.9	3.9	11.5	14	365	365	365	365	365	41	11200	12000
1.75	0.55	9.7	440	0.87	308.3	IE5	**BK30Z-../S5E06MA4**	0.48	1.6	3.2	9.7	11.5	440	440	440	440	440	41	11200	12000
1.75	0.55	14	300	2.6	211.5	IE5	**BK40Z-../S5E06MA4**	0.7	2.3	4.7	14	17	300	300	300	300	300	64	11700	17000
1.75	0.55	12	345	2.2	246.6	IE5	**BK40Z-../S5E06MA4**	0.6	2	4	12	14.5	345	345	345	345	345	64	11700	17000
1.75	0.55	10	410	1.7	289.8	IE5	**BK40Z-../S5E06MA4**	0.5	1.7	3.4	10	12	410	410	410	410	410	64	11700	17000
1.75	0.55	8.6	490	1.2	348.7	IE5	**BK40Z-../S5E06MA4**	0.43	1.4	2.8	8.6	10	490	490	490	490	490	64	11700	17000
1.75	0.55	6.9	600	0.95	430	IE5	**BK40Z-../S5E06MA4**	0.34	1.1	2.3	6.9	8.3	600	600	600	600	600	64	11700	17000

MN = 1.75 Nm (PN = 0.55 kW)



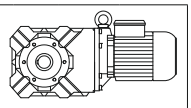
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
1.75	0.55	6.1	680	1.2	487.3	IE5	**BK40G10-../S5E06MA4**	0.3	1	2	6.1	7.3	680	680	680	680	680	68	11700	17000
1.75	0.55	5.5	750	1.1	540	IE5	**BK40G10-../S5E06MA4**	0.27	0.9	1.8	5.5	6.6	750	750	750	750	750	68	11700	17000
1.75	0.55	4.5	910	0.93	660.2	IE5	**BK40G10-../S5E06MA4**	0.22	0.75	1.5	4.5	5.4	910	910	910	910	910	68	11700	17000
1.75	0.55	3.9	1040	0.82	756.7	IE5	**BK40G10-../S5E06MA4**	0.19	0.65	1.3	3.9	4.7	1040	1040	1040	1040	1040	68	11700	17000
1.75	0.55	11	370	2.8	264.5	IE5	**BK50Z-../S5E06MA4**	0.55	1.8	3.7	11	13.5	370	370	370	370	370	92	14100	26000
1.75	0.55	9.1	465	2.2	328.2	IE5	**BK50Z-../S5E06MA4**	0.45	1.5	3	9.1	10.5	465	465	465	465	465	92	14100	26000
1.75	0.55	7.2	580	1.4	414.8	IE5	**BK50Z-../S5E06MA4**	0.36	1.2	2.4	7.2	8.6	580	580	580	580	580	92	14100	26000
1.75	0.55	6.4	650	1.8	465.1	IE5	**BK50G10-../S5E06MA4**	0.32	1	2.1	6.4	7.7	650	650	650	650	650	96	14100	111000
1.75	0.55	5.8	710	1.6	513.4	IE5	**BK50G10-../S5E06MA4**	0.29	0.95	1.9	5.8	7	710	710	710	710	710	96	14100	111000
1.75	0.55	5.2	790	1.5	568.6	IE5	**BK50G10-../S5E06MA4**	0.26	0.85	1.7	5.2	6.3	790	790	790	790	790	96	14100	111000
1.75	0.55	4.6	900	1.3	651.7	IE5	**BK50G10-../S5E06MA4**	0.23	0.75	1.5	4.6	5.5	900	900	900	900	900	96	14100	111000
1.75	0.55	4.1	990	1.2	722.2	IE5	**BK50G10-../S5E06MA4**	0.2	0.65	1.3	4.1	4.9	990	990	990	990	990	96	14100	111000
1.75	0.55	3.4	1170	0.98	859.8	IE5	**BK50G10-../S5E06MA4**	0.17	0.55	1.1	3.4	4.1	1170	1170	1170	1170	1170	96	14100	111000
1.75	0.55	2.9	1390	0.83	1024	IE5	**BK50G10-../S5E06MA4**	0.14	0.48	0.95	2.9	3.5	1390	1390	1390	1390	1390	96	14100	111000
1.75	0.55	4.8	1080	2.3	621.5	IE5	**BK60G20-../S5E06MA4**	0.24	0.8	1.6	4.8	5.7	1080	1080	1080	1080	1080	123	16600	34000
1.75	0.55	3.9	1310	1.9	752.1	IE5	**BK60G20-../S5E06MA4**	0.19	0.65	1.3	3.9	4.7	1310	1310	1310	1310	1310	123	16600	34000
1.75	0.55	3.3	1550	1.6	887.8	IE5	**BK60G20-../S5E06MA4**	0.16	0.55	1.1	3.3	4	1550	1550	1550	1550	1550	123	16600	34000
1.75	0.55	2.9	1770	1.4	1016	IE5	**BK60G20-../S5E06MA4**	0.14	0.49	0.95	2.9	3.5	1770	1770	1770	1770	1770	123	16600	34000
1.75	0.55	2.2	2300	1.1	1322	IE5	**BK60G20-../S5E06MA4**	0.11	0.37	0.75	2.2	2.7	2300	2300	2300	2300	2300	123	16600	34000
1.75	0.55	1.8	2800	0.88	1618	IE5	**BK60G20-../S5E06MA4**	0.09	0.3	0.6	1.8	2.2	2800	2800	2800	2800	2800	123	16600	34000
1.75	0.55	2.6	1990	2.9	1139	IE5	**BK70G20-../S5E06MA4**	0.13	0.43	0.85	2.6	3.1	1990	1990	1990	1990	1990	201	24100	50000
1.75	0.55	2.3	2200	2.5	1280	IE5	**BK70G20-../S5E06MA4**	0.11	0.39	0.75	2.3	2.8	2200	2200	2200	2200	2200	201	24100	50000
1.75	0.55	2	2500	2.2	1457	IE5	**BK70G20-../S5E06MA4**	0.1	0.34	0.65	2	2.4	2500	2500	2500	2500	2500	201	24100	50000
1.75	0.55	1.7	2950	1.9	1696	IE5	**BK70G20-../S5E06MA4**	0.085	0.29	0.55	1.7	2.1	2950	2950	2950	2950	2950	201	24100	50000
1.75	0.55	1.4	3550	1.6	2040	IE5	**BK70G20-../S5E06MA4**	0.07	0.24	0.49	1.4	1.7	3550	3550	3550	3550	3550	201	24100	50000
1.75	0.55	1.1	4500	1.3	2578	IE5	**BK70G20-../S5E06MA4**	0.055	0.19	0.38	1.1	1.3	4500	4500	4500	4500	4500	201	24100	50000
1.75	0.55	0.95	5300	1.1	3041	IE5	**BK70G20-../S5E06MA4**	0.049	0.16	0.32	0.95	1.1	5300	5300	5300	5300	5300	201	24100	50000
1.75	0.55	0.85	6100	0.93	3505	IE5	**BK70G20-../S5E06MA4**	0.042	0.14	0.28	0.85	1	6100	6100	6100	6100	6100	201	24100	50000
1.75	0.55	0.75	6800	0.84	3894	IE5	**BK70G20-../S5E06MA4**	0.038	0.12	0.25	0.75	0.9	6800	6800	6800	6800	6800	201	24100	50000

MN = 2.4 Nm (PN = 0.75 kW)



M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
2.4	0.75	196	33	2.4	15.29	IE5	**BK06-../S5E06LA4**	9.8	32.5	65	196	235	33	33	33	33	33	11	1020	-
2.4	0.75	196	33	2.4	15.29	IE3	**BK06-../SPE06MA4**	9.8	32.5	65	196	235	25	27.5	30.5	33	33	11	1020	-
2.4	0.75	166	38.5	2.1	18	IE5	**BK06-../S5E06LA4**	8.3	27.5	55	166	200	38.5	38.5	38.5	38.5	38.5	11	1080	-
2.4	0.75	166	38.5	2.1	18	IE3	**BK06-../SPE06MA4**	8.3	27.5	55	166	200	29	32	35.5	38.5	38.5	11	1080	-
2.4	0.75	139	46.5	1.7	21.54	IE5	**BK06-../S5E06LA4**	6.9	23	46	139	167	46.5	46.5	46.5	46.5	46.5	11	1150	-
2.4	0.75	139	46.5	1.7	21.54	IE3	**BK06-../SPE06MA4**	6.9	23	46	139	167	34.5	38.5	42.5	46.5	46.5	11	1150	-
2.4	0.75	113	56	1.4	26.36	IE5	**BK06-../S5E06LA4**	5.6	18.5	37.5	113	136	56	56	56	56	56	11	1230	-
2.4	0.75	113	56	1.4	26.36	IE3	**BK06-../SPE06MA4**	5.6	18.5	37.5	113	136	42.5	47	52	56	56	11	1230	-
2.4	0.75	90	71	1.1	33.33	IE5	**BK06-../S5E06LA4**	4.5	15	30	90	108	71	71	71	71	71	11	1320	-
2.4	0.75	90	71	1.1	33.33	IE3	**BK06-../SPE06MA4**	4.5	15	30	90	108	53	59	65	71	71	11	1320	-
2.4	0.75	78	82	0.97	38.18	IE5	**BK06-../S5E06LA4**	3.9	13	26	78	94	82	82	82	82	82	11	1380	-
2.4	0.75	78	82	0.97	38.18	IE3	**BK06-../SPE06MA4**	3.9	13	26	78	94	61	68	75	82	82	11	1380	-
2.4	0.75	87	73	2.7	34.25	IE5	**BK10-../S5E06LA4**	4.3	14.5	29	87	105	73	73	73	73	73	23	5600	-
2.4	0.75	87	73	2.7	34.25	IE3	**BK10-../SPE06MA4**	4.3	14.5	29	87	105	55	61	67	73	73	23	5600	-
2.4	0.75	73	88	2.3	40.79	IE5	**BK10-../S5E06LA4**	3.6	12	24.5	73	88	88	88	88	88	88	23	6000	-
2.4	0.75	73	88	2.3	40.79	IE3	**BK10-../SPE06MA4**	3.6	12	24.5	73	88	66	73	80	88	88	23	6000	-
2.4	0.75	61	104	1.9	48.96	IE5	**BK10-../S5E06LA4**	3	10	20	61	73	104	104	104	104	104	23	6400	-
2.4	0.75	61	104	1.9	48.96	IE3	**BK10-../SPE06MA4**	3	10	20	61	73	78	87	95	104	104	23	6400	-
2.4	0.75	48.5	131	1.5	61.68	IE5	**BK10-../S5E06LA4**	2.4	8.1	16	48.5	58	131	131	131	131	131	23	7000	-
2.4	0.75	48.5	131	1.5	61.68	IE3	**BK10-../SPE06MA4**	2.4	8.1	16	48.5	58	98	109	120	131	131	23	7000	-
2.4	0.75	41	152	1.3	72.31	IE5	**BK10-../S5E06LA4**	2	6.9	13.5	41	49.5	152	152	152	152	152	23	7000	-
2.4	0.75	41	152	1.3	72.31	IE3	**BK10-../SPE06MA4**	2	6.9	13.5	41	49.5	114	127	139	152	152	23	7000	-
2.4	0.75	33.5	186	0.95	89.3	IE5	**BK10-../S5E06LA4**	1.6	5.5	11	33.5	40	186	186	186	186	186	23	7000	-
2.4	0.75	33.5	186	0.95	89.3	IE3	**BK10-../SPE06MA4**	1.6	5.5	11	33.5	40	139	155	170	186	186	23	7000	-
2.4	0.75	58	109	3	51.22	IE5	**BK20-../S5E06LA4**	2.9	9.7	19.5	58	70	109	109	109	109	109	33	6300	9000
2.4	0.75	58	109	3	51.22	IE3	**BK20-../SPE06MA4**	2.9	9.7	19.5	58	70	82	91	100	109	109	33	6300	9000
2.4	0.75	48.5	130	2.5	61.3	IE5	**BK20-../S5E06LA4**	2.4	8.1	16	48.5	58	130	130	130	130	130	33	6500	9000
2.4	0.75	48.5	130	2.5	61.3	IE3	**BK20-../SPE06MA4**	2.4	8.1	16	48.5	58	98	109	120	130	130	33	6500	9000
2.4	0.75	39	162	2	76.79	IE5	**BK20-../S5E06LA4**	1.9	6.5	13	39	46.5	162	162	162	162	162	33	7500	9000
2.4	0.75	39	162	2	76.79	IE3	**BK20-../SPE06MA4**	1.9	6.5	13	39	46.5	121	135	148	162	162	33	7500	9000
2.4	0.75	34	183	1.8	88.12	IE5	**BK20-../S5E06LA4**	1.7	5.6	11	34	40.5	183	183	183	183	183	33	8000	9000
2.4	0.75	34	183	1.8	88.12	IE3	**BK20-../SPE06MA4**	1.7	5.6	11	34	40.5	137	153	168	183	183	33	8000	9000
2.4	0.75	27.5	220	1.4	108.6	IE5	**BK20-../S5E06LA4**	1.3	4.6	9.2	27.5	33	220	220	220	220	220	33	8700	9000
2.4	0.75	27.5	220	1.4	108.6	IE3	**BK20-../SPE06MA4**	1.3	4.6	9.2	27.5	33	168	186	205	220	220	33	8700	9000
2.4	0.75	30.5	200	1.1	96.99	IE5	**BK20Z-../S5E06LA4**	1.5	5.1	10	30.5	37	200	200	200	200	200	34	8700	9000
2.4	0.75	30.5	200	1.1	96.99	IE3	**BK20Z-../SPE06MA4**	1.5	5.1	10	30.5	37	150	166	183	200	200	34	8700	9000
2.4	0.75	24	250	1.3	124.2	IE5	**BK20Z-../S5E06LA4**	1.2	4	8	24	28.5	250	250	250	250	250	34	8700	9000
2.4	0.75	24	250	1.3	124.2	IE3	**BK20Z-../SPE06MA4**	1.2	4	8	24	28.5	190	210	230	250	250	34	8700	9000

MN = 2.4 Nm (PN = 0.75 kW)

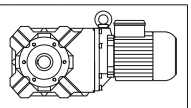


M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
2.4	0.75	20.5	290	1.1	144.5	IE5	**BK20Z-../S5E06LA4**	1	3.4	6.9	20.5	24.5	290	290	290	290	290	34	8700	9000
2.4	0.75	20.5	290	1.1	144.5	IE3	**BK20Z-../SPE06MA4**	1	3.4	6.9	20.5	24.5	215	240	265	290	290	34	8700	9000
2.4	0.75	17	345	0.96	173.4	IE5	**BK20Z-../S5E06LA4**	0.85	2.8	5.7	17	20.5	345	345	345	345	345	34	8700	9000
2.4	0.75	17	345	0.96	173.4	IE3	**BK20Z-../SPE06MA4**	0.85	2.8	5.7	17	20.5	255	285	315	345	345	34	8700	9000
2.4	0.75	14	405	0.81	207.5	IE5	**BK20Z-../S5E06LA4**	0.7	2.4	4.8	14	17	405	405	405	405	405	34	8700	9000
2.4	0.75	14	405	0.81	207.5	IE3	**BK20Z-../SPE06MA4**	0.7	2.4	4.8	14	17	305	340	370	405	405	34	8700	9000
2.4	0.75	41.5	149	3	71.56	IE5	**BK30-../S5E06LA4**	2	6.9	13.5	41.5	50	149	149	149	149	149	39	9700	12000
2.4	0.75	41.5	149	3	71.56	IE3	**BK30-../SPE06MA4**	2	6.9	13.5	41.5	50	112	124	136	149	149	39	9700	12000
2.4	0.75	33.5	182	2.5	88.38	IE5	**BK30-../S5E06LA4**	1.6	5.6	11	33.5	40.5	182	182	182	182	182	39	10600	12000
2.4	0.75	33.5	182	2.5	88.38	IE3	**BK30-../SPE06MA4**	1.6	5.6	11	33.5	40.5	136	152	167	182	182	39	10600	12000
2.4	0.75	29	205	2.2	102.4	IE5	**BK30-../S5E06LA4**	1.4	4.8	9.7	29	35	205	205	205	205	205	39	11200	12000
2.4	0.75	29	205	2.2	102.4	IE3	**BK30-../SPE06MA4**	1.4	4.8	9.7	29	35	156	174	191	205	205	39	11200	12000
2.4	0.75	24	250	1.8	123.9	IE5	**BK30Z-../S5E06LA4**	1.2	4	8	24	29	250	250	250	250	250	41	11200	12000
2.4	0.75	24	250	1.8	123.9	IE3	**BK30Z-../SPE06MA4**	1.2	4	8	24	29	189	210	230	250	250	41	11200	12000
2.4	0.75	20.5	290	1.5	145.1	IE5	**BK30Z-../S5E06LA4**	1	3.4	6.8	20.5	24.5	290	290	290	290	290	41	11200	12000
2.4	0.75	20.5	290	1.5	145.1	IE3	**BK30Z-../SPE06MA4**	1	3.4	6.8	20.5	24.5	215	240	265	290	290	41	11200	12000
2.4	0.75	16	365	1.2	184.8	IE5	**BK30Z-../S5E06LA4**	0.8	2.7	5.4	16	19	365	365	365	365	365	41	11200	12000
2.4	0.75	16	365	1.2	184.8	IE3	**BK30Z-../SPE06MA4**	0.8	2.7	5.4	16	19	275	305	335	365	365	41	11200	12000
2.4	0.75	13.5	425	1.1	216.5	IE5	**BK30Z-../S5E06LA4**	0.65	2.3	4.6	13.5	16.5	425	425	425	425	425	41	11200	12000
2.4	0.75	13.5	425	1.1	216.5	IE3	**BK30Z-../SPE06MA4**	0.65	2.3	4.6	13.5	16.5	315	355	390	425	425	41	11200	12000
2.4	0.75	11.5	500	0.9	255.3	IE5	**BK30Z-../S5E06LA4**	0.55	1.9	3.9	11.5	14	500	500	500	500	500	41	11200	12000
2.4	0.75	11.5	500	0.9	255.3	IE3	**BK30Z-../SPE06MA4**	0.55	1.9	3.9	11.5	14	375	415	460	500	500	41	11200	12000
2.4	0.75	20.5	285	2.7	143	IE5	**BK40Z-../S5E06LA4**	1	3.4	6.9	20.5	25	285	285	285	285	285	64	11700	17000
2.4	0.75	20.5	285	2.7	143	IE3	**BK40Z-../SPE06MA4**	1	3.4	6.9	20.5	25	215	240	260	285	285	64	11700	17000
2.4	0.75	17.5	335	2.3	169	IE5	**BK40Z-../S5E06LA4**	0.85	2.9	5.9	17.5	21	335	335	335	335	335	64	11700	17000
2.4	0.75	17.5	335	2.3	169	IE3	**BK40Z-../SPE06MA4**	0.85	2.9	5.9	17.5	21	250	280	305	335	335	64	11700	17000
2.4	0.75	14	415	1.9	211.5	IE5	**BK40Z-../S5E06LA4**	0.7	2.3	4.7	14	17	415	415	415	415	415	64	11700	17000
2.4	0.75	14	415	1.9	211.5	IE3	**BK40Z-../SPE06MA4**	0.7	2.3	4.7	14	17	310	345	380	415	415	64	11700	17000
2.4	0.75	12	475	1.6	246.6	IE5	**BK40Z-../S5E06LA4**	0.6	2	4	12	14.5	475	475	475	475	475	64	11700	17000
2.4	0.75	12	475	1.6	246.6	IE3	**BK40Z-../SPE06MA4**	0.6	2	4	12	14.5	355	395	435	475	475	64	11700	17000
2.4	0.75	10	560	1.2	289.8	IE5	**BK40Z-../S5E06LA4**	0.5	1.7	3.4	10	12	560	560	560	560	560	64	11700	17000
2.4	0.75	10	560	1.2	289.8	IE3	**BK40Z-../SPE06MA4**	0.5	1.7	3.4	10	12	420	465	510	560	560	64	11700	17000
2.4	0.75	8.6	670	0.86	348.7	IE5	**BK40Z-../S5E06LA4**	0.43	1.4	2.8	8.6	10	670	670	670	670	670	64	11700	17000
2.4	0.75	8.6	670	0.86	348.7	IE3	**BK40Z-../SPE06MA4**	0.43	1.4	2.8	8.6	10	500	560	620	670	670	64	11700	17000
2.4	0.75	6.1	930	0.91	487.3	IE5	**BK40G10-../S5E06LA4**	0.3	1	2	6.1	7.3	930	930	930	930	930	68	11700	17000
2.4	0.75	6.1	930	0.91	487.3	IE3	**BK40G10-../SPE06MA4**	0.3	1	2	6.1	7.3	700	780	850	930	930	68	11700	17000
2.4	0.75	5.5	1030	0.82	540	IE5	**BK40G10-../S5E06LA4**	0.27	0.9	1.8	5.5	6.6	1030	1030	1030	1030	1030	68	11700	17000
2.4	0.75	5.5	1030	0.82	540	IE3	**BK40G10-../SPE06MA4**	0.27	0.9	1.8	5.5	6.6	770	860	940	1030	1030	68	11700	17000
2.4	0.75	14.5	405	2.6	206.8	IE5	**BK50Z-../S5E06LA4**	0.7	2.4	4.8	14.5	17	405	405	405	405	405	92	14100	26000
2.4	0.75	14.5	405	2.6	206.8	IE3	**BK50Z-../SPE06MA4**	0.7	2.4	4.8	14.5	17	305	335	370	405	405	92	14100	26000
2.4	0.75	11	510	2	264.5	IE5	**BK50Z-../S5E06LA4**	0.55	1.8	3.7	11	13.5	510	510	510	510	510	92	14100	26000
2.4	0.75	11	510	2	264.5	IE3	**BK50Z-../SPE06MA4**	0.55	1.8	3.7	11	13.5	385	425	470	510	510	92	14100	26000
2.4	0.75	9.1	630	1.6	328.2	IE5	**BK50Z-../S5E06LA4**	0.45	1.5	3	9.1	10.5	630	630	630	630	630	92	14100	26000
2.4	0.75	9.1	630	1.6	328.2	IE3	**BK50Z-../SPE06MA4**	0.45	1.5	3	9.1	10.5	475	530	580	630	630	92	14100	26000
2.4	0.75	7.2	790	1.1	414.8	IE5	**BK50Z-../S5E06LA4**	0.36	1.2	2.4	7.2	8.6	790	790	790	790	790	92	14100	26000
2.4	0.75	7.2	790	1.1	414.8	IE3	**BK50Z-../SPE06MA4**	0.36	1.2	2.4	7.2	8.6	590	660	730	790	790	92	14100	26000
2.4	0.75	6.4	890	1.3	465.1	IE5	**BK50G10-../S5E06LA4**	0.32	1	2.1	6.4	7.7	890	890	890	890	890	96	14100	111000
2.4	0.75	6.4	890	1.3	465.1	IE3	**BK50G10-../SPE06MA4**	0.32	1	2.1	6.4	7.7	670	740	820	890	890	96	14100	111000
2.4	0.75	5.8	980	1.2	513.4	IE5	**BK50G10-../S5E06LA4**	0.29	0.95	1.9	5.8	7	980	980	980	980	980	96	14100	111000
2.4	0.75	5.8	980	1.2	513.4	IE3	**BK50G10-../SPE06MA4**	0.29	0.95	1.9	5.8	7	730	820	900	980	980	96	14100	111000
2.4	0.75	5.2	1080	1.1	568.6	IE5	**BK50G10-../S5E06LA4**	0.26	0.85	1.7	5.2	6.3	1080	1080	1080	1080	1080	96	14100	111000
2.4	0.75	5.2	1080	1.1	568.6	IE3	**BK50G10-../SPE06MA4**	0.26	0.85	1.7	5.2	6.3	810	900	990	1080	1080	96	14100	111000
2.4	0.75	4.6	1230	0.93	651.7	IE5	**BK50G10-../S5E06LA4**	0.23	0.75	1.5	4.6	5.5	1230	1230	1230	1230	1230	96	14100	111000
2.4	0.75	4.6	1230	0.93	651.7	IE3	**BK50G10-../SPE06MA4**	0.23	0.75	1.5	4.6	5.5	920	1030	1130	1230	1230	96	14100	111000
2.4	0.75	4.1	1360	0.84	722.2	IE5	**BK50G10-../S5E06LA4**	0.2	0.65	1.3	4.1	4.9	1360	1360	1360	1360	1360	96	14100	111000
2.4	0.75	4.1	1360	0.84	722.2	IE3	**BK50G10-../SPE06MA4**	0.2	0.65	1.3	4.1	4.9	1020	1130	1250	1360	1360	96	14100	111000
2.4	0.75	4.8	1490	1.7	621.5	IE5	**BK60G20-../S5E06LA4**	0.24	0.8	1.6	4.8	5.7	1490	1490	1490	1490	1490	123	16600	34000
2.4	0.75	4.8	1490	1.7	621.5	IE3	**BK60G20-../SPE06MA4**	0.24	0.8	1.6	4.8	5.7	1110	1240	1360	1490	1490	123	16600	34000
2.4	0.75	3.9	1800	1.4	752.1	IE5	**BK60G20-../S5E06LA4**	0.19	0.65	1.3	3.9	4.7	1800	1800	1800	1800	1800	123	16600	34000
2.4	0.75	3.9	1800	1.4	752.1	IE3	**BK60G20-../SPE06MA4**	0.19	0.65	1.3	3.9	4.7	1350	1500	1650	1800	1800	123	16600	34000
2.4	0.75	3.3	2100	1.2	887.8	IE5	**BK60G20-../S5E06LA4**	0.16	0.55	1.1	3.3	4	2100	2100	2100	2100	2100	123	16600	34000
2.4	0.75	3.3	2100	1.2	887.8	IE3	**BK60G20-../SPE06MA4**	0.16	0.55	1.1	3.3	4	1590	1770	1950	2100	2100	123	16600	34000
2.4	0.75	2.9	2400	1	1016	IE5	**BK60G20-../S5E06LA4**	0.14	0.49	0.95	2.9	3.5	2400	2400	2400	2400	2400	123	16600	34000
2.4	0.75	2.9	2400	1	1016	IE3	**BK60G20-../SPE06MA4**	0.14	0.49	0.95	2.9	3.5	1820	2000	2200	2400	2400	123	16600	34000
2.4	0.75	3.5	2000	2.8	847.7	IE5	**BK70G20-../S5E06LA4**	0.17	0.55	1.1	3.5	4.2	2000	2000	2000	2000	2000	201	24100	50000
2.4	0.75	3.5	2000	2.8	847.7	IE3	**BK70G20-../SPE06MA4**	0.17	0.55	1.1	3.5	4.2	1520	1690	1860	2000	2000	201	24100	50000
2.4	0.75	3.1	2300	2.5	964.6	IE5	**BK70G20-../S5E06LA4**	0.15	0.5	1	3.1	3.7	2300	2300	2300	2300	2300	201	24100	50000
2.4	0.75	3.1	2300	2.5	964.6	IE3	**BK70G20-../SPE06MA4**	0.15	0.5	1	3.1	3.7	1730	1920	2100	2300	2300	201	24100	50000
2.4	0.75	2.6	2700	2.1	1139	IE5	**BK70G20-../S5E06LA4**	0.13	0.43	0.85	2.6	3.1	2700	2700	2700	2700	2700	201	24100	50000
2.4	0.75	2.6	2700	2.1	1139	IE3	**BK70G20-../SPE06MA4**	0.13	0.43	0.85	2.6	3.1	2050	2250	2500	2700	2700	201	24100	50000
2.4	0.75	2.3	3050	1.9	1280	IE5	**BK70G20-../S5E06LA4**	0.11	0.39	0.75	2.3	2.8	3050	3050	3050	3050	3050	201	24100	50000
2.4	0.75	2.3	3050	1.9	1280	IE3	**BK70G20-../SPE06MA4**	0.11	0.39	0.75	2.3	2.8	2300	2550	2800	3050	3050	201	24100	50000
2.4	0.75	2	3450	1.6	1457	IE5	**BK70G20-../S5E06LA4**	0.1	0.34	0.65	2	2.4	3450	3450	3450	3450	3450	201	24100	50000
2.4	0.75	2	3450	1.6	1457	IE3	**BK70G20-../SPE06MA4**	0.1	0.34	0.65	2	2.4	2600	2900	3200	3450	3450	201	24100	50000
2.4	0.75	1.7	4050	1.4	1696	IE5	**BK70G20-../S5E06LA4**	0.085	0.29	0.55	1.7	2.1	4050	4050	4050	4050	4050	201	24100	50000
2.4	0.75	1.7	4050	1.4	1696	IE3	**BK70G20-../SPE06MA4**	0.085	0.29	0.55	1.7	2.1	3050	3350	3700	4050	4050	201	24100	50000
2.4	0.75	1.4	4850	1.2	2040	IE5	**BK70G20-../S5E06LA4**	0.07	0.24	0.49	1.4	1.7	4850	4850	4850	4850	4850	201	24100	50000
2.4	0.75	1.4	4850	1.2	2040	IE3	**BK70G20-../SPE06MA4**	0.07	0.24	0.49	1.4	1.7	3650	4050	4450	4850	4850	201	24100	50000

BK-series bevel geared motors

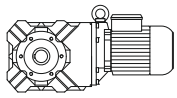
Selection - bevel geared motors - n_1 = 3000 $^1/_{min}$

MN = 2.4 Nm (PN = 0.75 kW)



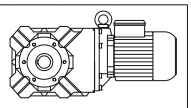
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
2.4	0.75	1.1	6100	0.92	2578	IE5	**BK70G20-../S5E06LA4**	0.055	0.19	0.38	1.1	1.3	6100	6100	6100	6100	6100	201	24100	50000
2.4	0.75	1.1	6100	0.92	2578	IE3	**BK70G20-../SPE06MA4**	0.055	0.19	0.38	1.1	1.3	4600	5100	5600	6100	6100	201	24100	50000

MN = 3.5 Nm (PN = 1.1 kW)



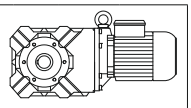
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
3.5	1.1	305	31	2.6	9.71	IE4	**BK06-../S4E06LA4**	15	51	102	305	370	22	25.5	31	31	31	11	880	-
3.5	1.1	255	37.5	2.1	11.67	IE4	**BK06-../S4E06LA4**	12.5	42.5	85	255	305	26.5	31	37.5	37.5	37.5	11	930	-
3.5	1.1	196	48.5	1.6	15.29	IE4	**BK06-../S4E06LA4**	9.8	32.5	65	196	235	34.5	40	48.5	48.5	48.5	11	1020	-
3.5	1.1	166	56	1.4	18	IE4	**BK06-../S4E06LA4**	8.3	27.5	55	166	200	40.5	46.5	56	56	56	11	1080	-
3.5	1.1	139	67	1.2	21.54	IE4	**BK06-../S4E06LA4**	6.9	23	46	139	167	48	56	67	67	67	11	1150	-
3.5	1.1	113	83	0.96	26.36	IE4	**BK06-../S4E06LA4**	5.6	18.5	37.5	113	136	59	68	83	83	83	11	1230	-
3.5	1.1	250	38	3	11.93	IE4	**BK10-../S4E06LA4**	12.5	41.5	83	250	300	27	31.5	38	38	38	23	3100	-
3.5	1.1	177	53	2.6	16.92	IE4	**BK10-../S4E06LA4**	8.8	29.5	59	177	210	38	44	53	53	53	23	3700	-
3.5	1.1	132	71	2.8	22.65	IE4	**BK10-../S4E06LA4**	6.6	22	44	132	158	50	59	71	71	71	23	4650	-
3.5	1.1	104	90	2.2	28.76	IE4	**BK10-../S4E06LA4**	5.2	17	34.5	104	125	64	75	90	90	90	23	5200	-
3.5	1.1	87	107	1.9	34.25	IE4	**BK10-../S4E06LA4**	4.3	14.5	29	87	105	77	89	107	107	107	23	5600	-
3.5	1.1	73	128	1.6	40.79	IE4	**BK10-../S4E06LA4**	3.6	12	24.5	73	88	91	106	128	128	128	23	6000	-
3.5	1.1	61	152	1.3	48.96	IE4	**BK10-../S4E06LA4**	3	10	20	61	73	108	126	152	152	152	23	6400	-
3.5	1.1	48.5	192	1	61.68	IE4	**BK10-../S4E06LA4**	2.4	8.1	16	48.5	58	137	159	192	192	192	23	7000	-
3.5	1.1	41	220	0.9	72.31	IE4	**BK10-../S4E06LA4**	2	6.9	13.5	41	49.5	159	184	220	220	220	23	7000	-
3.5	1.1	81	115	2.9	36.69	IE4	**BK20-../S4E06LA4**	4	13.5	27	81	98	82	95	115	115	115	33	5400	9000
3.5	1.1	70	134	2.5	42.7	IE4	**BK20-../S4E06LA4**	3.5	11.5	23	70	84	96	111	134	134	134	33	5800	9000
3.5	1.1	58	159	2.1	51.22	IE4	**BK20-../S4E06LA4**	2.9	9.7	19.5	58	70	113	132	159	159	159	33	6300	9000
3.5	1.1	48.5	190	1.7	61.3	IE4	**BK20-../S4E06LA4**	2.4	8.1	16	48.5	58	136	158	190	190	190	33	6500	9000
3.5	1.1	39	235	1.4	76.79	IE4	**BK20-../S4E06LA4**	1.9	6.5	13	39	46.5	168	195	235	235	235	33	7500	9000
3.5	1.1	34	265	1.2	88.12	IE4	**BK20-../S4E06LA4**	1.7	5.6	11	34	40.5	191	220	265	265	265	33	8000	9000
3.5	1.1	27.5	325	0.96	108.6	IE4	**BK20-../S4E06LA4**	1.3	4.6	9.2	27.5	33	230	270	325	325	325	33	8700	9000
3.5	1.1	24	365	0.89	124.2	IE4	**BK20Z-../S4E06LA4**	1.2	4	8	24	28.5	260	305	365	365	365	34	8700	9000
3.5	1.1	59	154	2.9	50.27	IE4	**BK30-../S4E06LA4**	2.9	9.9	19.5	59	71	110	128	154	154	154	39	8300	12000
3.5	1.1	50	182	2.5	59.27	IE4	**BK30-../S4E06LA4**	2.5	8.4	16.5	50	60	130	151	182	182	182	39	8900	12000
3.5	1.1	41.5	215	2.1	71.56	IE4	**BK30-../S4E06LA4**	2	6.9	13.5	41.5	50	155	180	215	215	215	39	9700	12000
3.5	1.1	33.5	265	1.7	88.38	IE4	**BK30-../S4E06LA4**	1.6	5.6	11	33.5	40.5	190	220	265	265	265	39	10600	12000
3.5	1.1	29	300	1.5	102.4	IE4	**BK30-../S4E06LA4**	1.4	4.8	9.7	29	35	215	250	300	300	300	39	11200	12000
3.5	1.1	24	365	1.2	123.9	IE4	**BK30Z-../S4E06LA4**	1.2	4	8	24	29	260	305	365	365	365	41	11200	12000
3.5	1.1	20.5	425	1.1	145.1	IE4	**BK30Z-../S4E06LA4**	1	3.4	6.8	20.5	24.5	300	350	425	425	425	41	11200	12000
3.5	1.1	16	530	0.84	184.8	IE4	**BK30Z-../S4E06LA4**	0.8	2.7	5.4	16	19	380	440	530	530	530	41	11200	12000
3.5	1.1	25	350	2.2	118.2	IE4	**BK40Z-../S4E06LA4**	1.2	4.2	8.4	25	30	250	290	350	350	350	64	11700	17000
3.5	1.1	20.5	420	1.9	143	IE4	**BK40Z-../S4E06LA4**	1	3.4	6.9	20.5	25	300	345	420	420	420	64	11700	17000
3.5	1.1	17.5	490	1.6	169	IE4	**BK40Z-../S4E06LA4**	0.85	2.9	5.9	17.5	21	350	405	490	490	490	64	11700	17000
3.5	1.1	14	600	1.3	211.5	IE4	**BK40Z-../S4E06LA4**	0.7	2.3	4.7	14	17	430	500	600	600	600	64	11700	17000
3.5	1.1	12	690	1.1	246.6	IE4	**BK40Z-../S4E06LA4**	0.6	2	4	12	14.5	495	570	690	690	690	64	11700	17000
3.5	1.1	10	820	0.83	289.8	IE4	**BK40Z-../S4E06LA4**	0.5	1.7	3.4	10	12	580	680	820	820	820	64	11700	17000
3.5	1.1	19.5	445	2.4	153.3	IE4	**BK50Z-../S4E06LA4**	0.95	3.2	6.5	19.5	23	315	365	445	445	445	92	14100	26000
3.5	1.1	14.5	590	1.8	206.8	IE4	**BK50Z-../S4E06LA4**	0.7	2.4	4.8	14.5	17	420	490	590	590	590	92	14100	26000
3.5	1.1	11	740	1.4	264.5	IE4	**BK50Z-../S4E06LA4**	0.55	1.8	3.7	11	13.5	530	620	740	740	740	92	14100	26000
3.5	1.1	9.1	930	1.1	328.2	IE4	**BK50Z-../S4E06LA4**	0.45	1.5	3	9.1	10.5	660	770	930	930	930	92	14100	26000
3.5	1.1	6.4	1300	0.88	465.1	IE4	**BK50G10-../S4E06LA4**	0.32	1	2.1	6.4	7.7	930	1080	1300	1300	1300	96	14100	111000
3.5	1.1	5.8	1430	0.8	513.4	IE4	**BK50G10-../S4E06LA4**	0.29	0.95	1.9	5.8	7	1020	1190	1430	1430	1430	96	14100	111000
3.5	1.1	4.8	2150	1.1	621.5	IE4	**BK60G20-../S4E06LA4**	0.24	0.8	1.6	4.8	5.7	1550	1800	2150	2150	2150	123	16600	34000
3.5	1.1	3.9	2600	0.95	752.1	IE4	**BK60G20-../S4E06LA4**	0.19	0.65	1.3	3.9	4.7	1880	2150	2600	2600	2600	123	16600	34000
3.5	1.1	3.3	3100	0.8	887.8	IE4	**BK60G20-../S4E06LA4**	0.16	0.55	1.1	3.3	4	2200	2550	3100	3100	3100	123	16600	34000
3.5	1.1	3.5	2950	1.9	847.7	IE4	**BK70G20-../S4E06LA4**	0.17	0.55	1.1	3.5	4.2	2100	2450	2950	2950	2950	201	24100	50000
3.5	1.1	3.1	3350	1.7	964.6	IE4	**BK70G20-../S4E06LA4**	0.15	0.5	1	3.1	3.7	2400	2750	3350	3350	3350	201	24100	50000
3.5	1.1	2.6	3950	1.4	1139	IE4	**BK70G20-../S4E06LA4**	0.13	0.43	0.85	2.6	3.1	2800	3300	3950	3950	3950	201	24100	50000
3.5	1.1	2.3	4450	1.3	1280	IE4	**BK70G20-../S4E06LA4**	0.11	0.39	0.75	2.3	2.8	3200	3700	4450	4450	4450	201	24100	50000
3.5	1.1	2	5000	1.1	1457	IE4	**BK70G20-../S4E06LA4**	0.1	0.34	0.65	2	2.4	3600	4200	5000	5000	5000	201	24100	50000
3.5	1.1	1.7	5900	0.96	1696	IE4	**BK70G20-../S4E06LA4**	0.085	0.29	0.55	1.7	2.1	4200	4900	5900	5900	5900	201	24100	50000
3.5	1.1	1.4	7100	0.8	2040	IE4	**BK70G20-../S4E06LA4**	0.07	0.24	0.49	1.4	1.7	5100	5900	7100	7100	7100	201	24100	50000

MN = 5 Nm (PN = 1.55 kW)



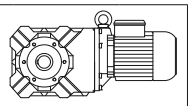
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
5	1.55	410	33	2.2	7.25	IE5	**BK06-../S5E08MA4**	20.5	68	137	410	495	33	33	33	33	33	15	800	-
5	1.55	305	44.5	1.8	9.71	IE5	**BK06-../S5E08MA4**	15	51	102	305	370	44.5	44.5	44.5	44.5	44.5	15	880	-
5	1.55	255	53	1.5	11.67	IE5	**BK06-../S5E08MA4**	12.5	42.5	85	255	305	53	53	53	53	53	15	930	-
5	1.55	196	69	1.1	15.29	IE5	**BK06-../S5E08MA4**	9.8	32.5	65	196	235	69	69	69	69	69	15	1020	-
5	1.55	166	81	0.99	18	IE5	**BK06-../S5E08MA4**	8.3	27.5	55	166	200	81	81	81	81	81	15	1080	-
5	1.55	139	96	0.83	21.54	IE5	**BK06-../S5E08MA4**	6.9	23	46	139	167	96	96	96	96	96	15	1150	-
5	1.55	315	43	2.7	9.4	IE5	**BK08-../S5E08MA4**	15.5	53	106	315	380	43	43	43	43	43	27	2700	-
5	1.55	250	54	2.1	11.93	IE5	**BK08-../S5E08MA4**	12.5	41.5	83	250	300	54	54	54	54	54	27	3100	-
5	1.55	177	76	1.8	16.92	IE5	**BK08-../S5E08MA4**	8.8	29.5	59	177	210	76	76	76	76	76	27	3700	-
5	1.55	161	83	2.4	18.52	IE5	**BK08-../S5E08MA4**	8	26.5	53	161	194	83	83	83	83	83	27	4300	-
5	1.55	132	101	2	22.65	IE5	**BK08-../S5E08MA4**	6.6	22	44	132	158	101	101	101	101	101	27	4650	-
5	1.55	104	129	1.5	28.76	IE5	**BK08-../S5E08MA4**	5.2	17	34.5	104	125	129	129	129	129	129	27	5200	-
5	1.55	87	154	1.3	34.25	IE5	**BK08-../S5E08MA4**	4.3	14.5	29	87	105	154	154	154	154	154	27	5600	-
5	1.55	73	183	1.1	40.79	IE5	**BK08-../S5E08MA4**	3.6	12	24.5	73	88	183	183	183	183	183	27	6000	-
5	1.55	61	215	0.92	48.96	IE5	**BK08-../S5E08MA4**	3	10	20	61	73	215	215	215	215	215	27	6400	-
5	1.55	315	43	2.7	9.4	IE5	**BK10-../S5E08MA4**	15.5	53	106	315	380	43	43	43	43	43	27	2700	-
5	1.55	250	54	2.1	11.93	IE5	**BK10-../S5E08MA4**	12.5	41.5	83	250	300	54	54	54	54	54	27	3100	-
5	1.55	177	76	1.8	16.92	IE5	**BK10-../S5E08MA4**	8.8	29.5	59	177	210	76	76	76	76	76	27	3700	-
5	1.55	161	83	2.4	18.52	IE5	**BK10-../S5E08MA4**	8	26.5	53	161	194	83	83	83	83	83	27	4300	-
5	1.55	132	101	2	22.65	IE5	**BK10-../S5E08MA4**	6.6	22	44	132	158	101	101	101	101	101	27	4650	-
5	1.55	104	129	1.5	28.76	IE5	**BK10-../S5E08MA4**	5.2	17	34.5	104	125	129	129	129	129	129	27	5200	-
5	1.55	87	154	1.3	34.25	IE5	**BK10-../S5E08MA4**	4.3	14.5	29	87	105	154	154	154	154	154	27	5600	-
5	1.55	73	183	1.1	40.79	IE5	**BK10-../S5E08MA4**	3.6	12	24.5	73	88	183	183	183	183	183	27	6000	-
5	1.55	61	215	0.92	48.96	IE5	**BK10-../S5E08MA4**	3	10	20	61	73	215	215	215	215	215	27	6400	-
5	1.55	172	79	2.9	17.42	IE5	**BK17-../S5E08MA4**	8.6	28.5	57	172	205	79	79	79	79	79	36	3250	9000
5	1.55	123	109	3	24.29	IE5	**BK17-../S5E08MA4**	6.1	20.5	41	123	148	109	109	109	109	109	36	4500	9000
5	1.55	104	128	2.6	28.66	IE5	**BK17-../S5E08MA4**	5.2	17	34.5	104	125	128	128	128	128	128	36	4850	9000
5	1.55	81	165	2	36.69	IE5	**BK17-../S5E08MA4**	4	13.5	27	81	98	165	165	165	165	165	36	5400	9000
5	1.55	70	192	1.7	42.7	IE5	**BK17-../S5E08MA4**	3.5	11.5	23	70	84	192	192	192	192	192	36	5800	9000
5	1.55	58	225	1.4	51.22	IE5	**BK17-../S5E08MA4**	2.9	9.7	19.5	58	70	225	225	225	225	225	36	6300	9000
5	1.55	48.5	270	1.2	61.3	IE5	**BK17-../S5E08MA4**	2.4	8.1	16	48.5	58	270	270	270	270	270	36	6500	9000
5	1.55	39	335	0.98	76.79	IE5	**BK17-../S5E08MA4**	1.9	6.5	13	39	46.5	335	335	335	335	335	36	7500	9000
5	1.55	34	380	0.86	88.12	IE5	**BK17-../S5E08MA4**	1.7	5.6	11	34	40.5	380	380	380	380	380	36	8000	9000
5	1.55	172	79	2.9	17.42	IE5	**BK20-../S5E08MA4**	8.6	28.5	57	172	205	79	79	79	79	79	36	3250	9000
5	1.55	123	109	3	24.29	IE5	**BK20-../S5E08MA4**	6.1	20.5	41	123	148	109	109	109	109	109	36	4500	9000
5	1.55	104	128	2.6	28.66	IE5	**BK20-../S5E08MA4**	5.2	17	34.5	104	125	128	128	128	128	128	36	4850	9000
5	1.55	81	165	2	36.69	IE5	**BK20-../S5E08MA4**	4	13.5	27	81	98	165	165	165	165	165	36	5400	9000
5	1.55	70	192	1.7	42.7	IE5	**BK20-../S5E08MA4**	3.5	11.5	23	70	84	192	192	192	192	192	36	5800	9000
5	1.55	58	225	1.4	51.22	IE5	**BK20-../S5E08MA4**	2.9	9.7	19.5	58	70	225	225	225	225	225	36	6300	9000
5	1.55	48.5	270	1.2	61.3	IE5	**BK20-../S5E08MA4**	2.4	8.1	16	48.5	58	270	270	270	270	270	36	6500	9000
5	1.55	39	335	0.98	76.79	IE5	**BK20-../S5E08MA4**	1.9	6.5	13	39	46.5	335	335	335	335	335	36	7500	9000
5	1.55	34	380	0.86	88.12	IE5	**BK20-../S5E08MA4**	1.7	5.6	11	34	40.5	380	380	380	380	380	36	8000	9000
5	1.55	89	151	3	33.7	IE5	**BK30-../S5E08MA4**	4.4	14.5	29.5	89	106	151	151	151	151	151	42	7000	12000
5	1.55	69	190	2.4	42.89	IE5	**BK30-../S5E08MA4**	3.4	11.5	23	69	83	190	190	190	190	190	42	7800	12000
5	1.55	59	220	2	50.27	IE5	**BK30-../S5E08MA4**	2.9	9.9	19.5	59	71	220	220	220	220	220	42	8300	12000
5	1.55	50	260	1.7	59.27	IE5	**BK30-../S5E08MA4**	2.5	8.4	16.5	50	60	260	260	260	260	260	42	8900	12000
5	1.55	41.5	310	1.4	71.56	IE5	**BK30-../S5E08MA4**	2	6.9	13.5	41.5	50	310	310	310	310	310	42	9700	12000
5	1.55	33.5	380	1.2	88.38	IE5	**BK30-../S5E08MA4**	1.6	5.6	11	33.5	40.5	380	380	380	380	380	42	10600	12000
5	1.55	29	435	1	102.4	IE5	**BK30-../S5E08MA4**	1.4	4.8	9.7	29	35	435	435	435	435	435	42	11200	12000
5	1.55	24	520	0.85	123.9	IE5	**BK30Z-../S5E08MA4**	1.2	4	8	24	29	520	520	520	520	520	45	11200	12000
5	1.55	50	260	3	59.66	IE5	**BK40-../S5E08MA4**	2.5	8.3	16.5	50	60	260	260	260	260	260	63	9100	17000
5	1.55	42.5	300	2.6	70.11	IE5	**BK40-../S5E08MA4**	2.1	7.1	14	42.5	51	300	300	300	300	300	63	9800	17000
5	1.55	35.5	365	2.1	84.36	IE5	**BK40-../S5E08MA4**	1.7	5.9	11.5	35.5	42.5	365	365	365	365	365	63	10700	17000
5	1.55	28.5	440	1.8	104	IE5	**BK40-../S5E08MA4**	1.4	4.8	9.6	28.5	34.5	440	440	440	440	440	63	11700	17000
5	1.55	25	500	1.6	118.2	IE5	**BK40Z-../S5E08MA4**	1.2	4.2	8.4	25	30	500	500	500	500	500	67	11700	17000
5	1.55	20.5	600	1.3	143	IE5	**BK40Z-../S5E08MA4**	1	3.4	6.9	20.5	25	600	600	600	600	600	67	11700	17000
5	1.55	17.5	700	1.1	169	IE5	**BK40Z-../S5E08MA4**	0.85	2.9	5.9	17.5	21	700	700	700	700	700	67	11700	17000
5	1.55	14	860	0.9	211.5	IE5	**BK40Z-../S5E08MA4**	0.7	2.3	4.7	14	17	860	860	860	860	860	67	11700	17000
5	1.55	31	405	2.6	95.29	IE5	**BK50-../S5E08MA4**	1.5	5.2	10	31	37.5	405	405	405	405	405	91	14100	26000
5	1.55	25.5	490	2.1	115.4	IE5	**BK50Z-../S5E08MA4**	1.2	4.3	8.6	25.5	31	490	490	490	490	490	96	14100	26000
5	1.55	19.5	630	1.7	153.3	IE5	**BK50Z-../S5E08MA4**	0.95	3.2	6.5	19.5	23	630	630	630	630	630	96	14100	26000
5	1.55	14.5	840	1.2	206.8	IE5	**BK50Z-../S5E08MA4**	0.7	2.4	4.8	14.5	17	840	840	840	840	840	96	14100	26000
5	1.55	11	1070	0.98	264.5	IE5	**BK50Z-../S5E08MA4**	0.55	1.8	3.7	11	13.5	1070	1070	1070	1070	1070	96	14100	26000
5	1.55	19.5	760	3	153.7	IE5	**BK60Z-../S5E08MA4**	0.95	3.2	6.5	19.5	23	760	760	760	760	760	119	16600	34000
5	1.55	16	910	2.5	183.2	IE5	**BK60Z-../S5E08MA4**	0.8	2.7	5.4	16	19.5	910	910	910	910	910	119	16600	34000
5	1.55	14.5	1020	2.2	205	IE5	**BK60Z-../S5E08MA4**	0.7	2.4	4.8	14.5	17.5	1020	1020	1020	1020	1020	119	16600	34000
5	1.55	12.5	1190	1.9	239.7	IE5	**BK60Z-../S5E08MA4**	0.6	2	4.1	12.5	15	1190	1190	1190	1190	1190	119	16600	34000
5	1.55	11	1340	1.7	268.2	IE5	**BK60Z-../S5E08MA4**	0.55	1.8	3.7	11	13	1340	1340	1340	1340	1340	119	16600	34000
5	1.55	9.4	1580	1.4	317.7	IE5	**BK60Z-../S5E08MA4**	0.47	1.5	3.1	9.4	11	1580	1580	1580	1580	1580	119	16600	34000
5	1.55	8.4	1770	1.3	355.5	IE5	**BK60Z-../S5E08MA4**	0.42	1.4	2.8	8.4	10	1770	1770	1770	1770	1770	119	16600	34000
5	1.55	7.2	2050	1.1	411.5	IE5	**BK60Z-../S5E08MA4**	0.36	1.2	2.4	7.2	8.7	2050	2050	2050	2050	2050	119	16600	34000
5	1.55	6.5	2300	1	460.4	IE5	**BK60Z-../S5E08MA4**	0.32	1	2.1	6.5	7.8	2300	2300	2300	2300	2300	119	16600	34000
5	1.55	6	2450	0.92	498	IE5	**BK60Z-../S5E08MA4**	0.3	1	2	6	7.2	2450	2450	2450	2450	2450	119	16600	34000
5	1.55	5.3	2750	0.83	557.2	IE5	**BK60Z-../S5E08MA4**	0.26	0.85	1.7	5.3	6.4	2750	2750	2750	2750	2750	119	16600	34000
5	1.55	4.8	3100	0.8	621.5	IE5	**BK60G20-../S5E08MA4**	0.24	0.8	1.6	4.8	5.7	3100	3100	3100	3100	3100	126	16600	34000

MN = 5 Nm (PN = 1.55 kW)



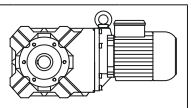
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
5	1.55	7.8	1890	2.7	379.9	IE5	**BK70Z-../S5E08MA4**	0.39	1.3	2.6	7.8	9.4	1890	1890	1890	1890	1890	207	24100	50000
5	1.55	6.9	2150	2.4	432.1	IE5	**BK70Z-../S5E08MA4**	0.34	1.1	2.3	6.9	8.3	2150	2150	2150	2150	2150	207	24100	50000
5	1.55	5.9	2500	2.1	501.8	IE5	**BK70Z-../S5E08MA4**	0.29	0.95	1.9	5.9	7.1	2500	2500	2500	2500	2500	207	24100	50000
5	1.55	5.2	2850	1.8	570.8	IE5	**BK70Z-../S5E08MA4**	0.26	0.85	1.7	5.2	6.3	2850	2850	2850	2850	2850	207	24100	50000
5	1.55	4.6	3200	1.6	644.9	IE5	**BK70Z-../S5E08MA4**	0.23	0.75	1.5	4.6	5.5	3200	3200	3200	3200	3200	207	24100	50000
5	1.55	4	3650	1.4	733.6	IE5	**BK70Z-../S5E08MA4**	0.2	0.65	1.3	4	4.9	3650	3650	3650	3650	3650	207	24100	50000
5	1.55	3.5	4200	1.3	847.7	IE5	**BK70G20-../S5E08MA4**	0.17	0.55	1.1	3.5	4.2	4200	4200	4200	4200	4200	205	24100	50000
5	1.55	3.1	4800	1.2	964.6	IE5	**BK70G20-../S5E08MA4**	0.15	0.5	1	3.1	3.7	4800	4800	4800	4800	4800	205	24100	50000
5	1.55	2.6	5600	1	1139	IE5	**BK70G20-../S5E08MA4**	0.13	0.43	0.85	2.6	3.1	5600	5600	5600	5600	5600	205	24100	50000
5	1.55	2.3	6400	0.89	1280	IE5	**BK70G20-../S5E08MA4**	0.11	0.39	0.75	2.3	2.8	6400	6400	6400	6400	6400	205	24100	50000
5	1.55	3.9	3750	3	756.3	IE5	**BK80G40-../S5E08MA4**	0.19	0.65	1.3	3.9	4.7	3750	3750	3750	3750	3750	347	30000	75000
5	1.55	3.5	4200	2.7	847.2	IE5	**BK80G40-../S5E08MA4**	0.17	0.55	1.1	3.5	4.2	4200	4200	4200	4200	4200	347	30000	75000
5	1.55	3.1	4800	2.4	963	IE5	**BK80G40-../S5E08MA4**	0.15	0.5	1	3.1	3.7	4800	4800	4800	4800	4800	347	30000	75000
5	1.55	2.7	5300	2.1	1079	IE5	**BK80G40-../S5E08MA4**	0.13	0.46	0.9	2.7	3.3	5300	5300	5300	5300	5300	347	30000	75000
5	1.55	2.2	6500	1.8	1307	IE5	**BK80G40-../S5E08MA4**	0.11	0.38	0.75	2.2	2.7	6500	6500	6500	6500	6500	347	30000	75000
5	1.55	2.1	7100	1.6	1425	IE5	**BK80G40-../S5E08MA4**	0.1	0.35	0.7	2.1	2.5	7100	7100	7100	7100	7100	347	30000	75000
5	1.55	1.8	7900	1.5	1583	IE5	**BK80G40-../S5E08MA4**	0.09	0.31	0.6	1.8	2.2	7900	7900	7900	7900	7900	347	30000	75000
5	1.55	1.6	8800	1.3	1775	IE5	**BK80G40-../S5E08MA4**	0.08	0.28	0.55	1.6	2	8800	8800	8800	8800	8800	347	30000	75000
5	1.55	1.3	11000	1	2205	IE5	**BK80G40-../S5E08MA4**	0.065	0.22	0.45	1.3	1.6	11000	11000	11000	11000	11000	347	30000	75000
5	1.55	1.2	12200	0.94	2449	IE5	**BK80G40-../S5E08MA4**	0.06	0.2	0.4	1.2	1.4	12200	12200	12200	12200	12200	347	30000	75000
5	1.55	1	14000	0.82	2811	IE5	**BK80G40-../S5E08MA4**	0.05	0.17	0.35	1	1.2	14000	14000	14000	14000	14000	347	30000	75000
5	1.55	2.2	6800	2.7	1363	IE5	**BK90G50-../S5E08MA4**	0.11	0.36	0.7	2.2	2.6	6800	6800	6800	6800	6800	620	49400	120000
5	1.55	1.8	7800	2.3	1579	IE5	**BK90G50-../S5E08MA4**	0.09	0.31	0.6	1.8	2.2	7800	7800	7800	7800	7800	620	49400	120000
5	1.55	1.6	9000	2.1	1803	IE5	**BK90G50-../S5E08MA4**	0.08	0.27	0.55	1.6	1.9	9000	9000	9000	9000	9000	620	49400	120000
5	1.55	1.4	10000	1.8	2016	IE5	**BK90G50-../S5E08MA4**	0.07	0.24	0.49	1.4	1.7	10000	10000	10000	10000	10000	620	49400	120000
5	1.55	1	13800	1.3	2764	IE5	**BK90G50-../S5E08MA4**	0.05	0.18	0.36	1	1.3	13800	13800	13800	13800	13800	620	49400	120000
5	1.55	0.95	15300	1.2	3065	IE5	**BK90G50-../S5E08MA4**	0.048	0.16	0.32	0.95	1.1	15300	15300	15300	15300	15300	620	49400	120000
5	1.55	0.8	18300	1	3672	IE5	**BK90G50-../S5E08MA4**	0.04	0.13	0.27	0.8	0.95	18300	18300	18300	18300	18300	620	49400	120000
5	1.55	0.7	20000	0.91	4070	IE5	**BK90G50-../S5E08MA4**	0.036	0.12	0.24	0.7	0.85	20000	20000	20000	20000	20000	620	49400	120000

MN = 7 Nm (PN = 2.2 kW)



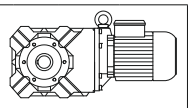
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
7	2.2	410	46.5	1.6	7.25	IE4	**BK06-../S4E08MA4**	20.5	68	137	410	495	33	39	46.5	46.5	46.5	15	800	-
7	2.2	410	46.5	1.6	7.25	IE5	**BK06-../S5E08LA4**	20.5	68	137	410	495	43	46.5	46.5	46.5	46.5	16	800	-
7	2.2	305	62	1.3	9.71	IE4	**BK06-../S4E08MA4**	15	51	102	305	370	44.5	52	62	62	62	15	880	-
7	2.2	305	62	1.3	9.71	IE5	**BK06-../S5E08LA4**	15	51	102	305	370	58	62	62	62	62	16	880	-
7	2.2	255	75	1.1	11.67	IE4	**BK06-../S4E08MA4**	12.5	42.5	85	255	305	53	63	75	75	75	15	930	-
7	2.2	255	75	1.1	11.67	IE5	**BK06-../S5E08LA4**	12.5	42.5	85	255	305	69	75	75	75	75	16	930	-
7	2.2	196	97	0.82	15.29	IE4	**BK06-../S4E08MA4**	9.8	32.5	65	196	235	69	82	97	97	97	15	1020	-
7	2.2	196	97	0.82	15.29	IE5	**BK06-../S5E08LA4**	9.8	32.5	65	196	235	90	97	97	97	97	16	1020	-
7	2.2	495	38.5	2.7	6.02	IE4	**BK08-../S4E08MA4**	24.5	83	166	495	590	27.5	32.5	38.5	38.5	38.5	27	2100	-
7	2.2	495	38.5	2.7	6.02	IE5	**BK08-../S5E08LA4**	24.5	83	166	495	590	35.5	38.5	38.5	38.5	38.5	28	2100	-
7	2.2	390	49	2.3	7.68	IE4	**BK08-../S4E08MA4**	19.5	65	130	390	465	35	41.5	49	49	49	27	2400	-
7	2.2	390	49	2.3	7.68	IE5	**BK08-../S5E08LA4**	19.5	65	130	390	465	45.5	49	49	49	49	28	2400	-
7	2.2	315	60	1.9	9.4	IE4	**BK08-../S4E08MA4**	15.5	53	106	315	380	43	51	60	60	60	27	2700	-
7	2.2	315	60	1.9	9.4	IE5	**BK08-../S5E08LA4**	15.5	53	106	315	380	56	60	60	60	60	28	2700	-
7	2.2	280	67	2.7	10.7	IE4	**BK08-../S4E08MA4**	14	46.5	93	280	335	48	56	67	67	67	27	3500	-
7	2.2	280	67	2.7	10.7	IE5	**BK08-../S5E08LA4**	14	46.5	93	280	335	62	67	67	67	67	28	3500	-
7	2.2	250	76	1.5	11.93	IE4	**BK08-../S4E08MA4**	12.5	41.5	83	250	300	54	64	76	76	76	27	3100	-
7	2.2	250	76	1.5	11.93	IE5	**BK08-../S5E08LA4**	12.5	41.5	83	250	300	71	76	76	76	76	28	3100	-
7	2.2	205	91	2.2	14.5	IE4	**BK08-../S4E08MA4**	10	34	68	205	245	65	76	91	91	91	27	3900	-
7	2.2	205	91	2.2	14.5	IE5	**BK08-../S5E08LA4**	10	34	68	205	245	84	91	91	91	91	28	3900	-
7	2.2	177	106	1.3	16.92	IE4	**BK08-../S4E08MA4**	8.8	29.5	59	177	210	76	89	106	106	106	27	3700	-
7	2.2	177	106	1.3	16.92	IE5	**BK08-../S5E08LA4**	8.8	29.5	59	177	210	98	106	106	106	106	28	3700	-
7	2.2	161	116	1.7	18.52	IE4	**BK08-../S4E08MA4**	8	26.5	53	161	194	83	98	116	116	116	27	4300	-
7	2.2	161	116	1.7	18.52	IE5	**BK08-../S5E08LA4**	8	26.5	53	161	194	108	116	116	116	116	28	4300	-
7	2.2	132	142	1.4	22.65	IE4	**BK08-../S4E08MA4**	6.6	22	44	132	158	101	120	142	142	142	27	4650	-
7	2.2	132	142	1.4	22.65	IE5	**BK08-../S5E08LA4**	6.6	22	44	132	158	132	142	142	142	142	28	4650	-
7	2.2	104	181	1.1	28.76	IE4	**BK08-../S4E08MA4**	5.2	17	34.5	104	125	129	152	181	181	181	27	5200	-
7	2.2	104	181	1.1	28.76	IE5	**BK08-../S5E08LA4**	5.2	17	34.5	104	125	168	181	181	181	181	28	5200	-
7	2.2	87	215	0.93	34.25	IE4	**BK08-../S4E08MA4**	4.3	14.5	29	87	105	154	181	215	215	215	27	5600	-
7	2.2	87	215	0.93	34.25	IE5	**BK08-../S5E08LA4**	4.3	14.5	29	87	105	200	215	215	215	215	28	5600	-
7	2.2	495	38.5	2.7	6.02	IE4	**BK10-../S4E08MA4**	24.5	83	166	495	590	27.5	32.5	38.5	38.5	38.5	27	2100	-
7	2.2	495	38.5	2.7	6.02	IE5	**BK10-../S5E08LA4**	24.5	83	166	495	590	35.5	38.5	38.5	38.5	38.5	28	2100	-
7	2.2	390	49	2.3	7.68	IE4	**BK10-../S4E08MA4**	19.5	65	130	390	465	35	41.5	49	49	49	27	2400	-
7	2.2	390	49	2.3	7.68	IE5	**BK10-../S5E08LA4**	19.5	65	130	390	465	45.5	49	49	49	49	28	2400	-
7	2.2	315	60	1.9	9.4	IE4	**BK10-../S4E08MA4**	15.5	53	106	315	380	43	51	60	60	60	27	2700	-
7	2.2	315	60	1.9	9.4	IE5	**BK10-../S5E08LA4**	15.5	53	106	315	380	56	60	60	60	60	28	2700	-
7	2.2	280	67	2.7	10.7	IE4	**BK10-../S4E08MA4**	14	46.5	93	280	335	48	56	67	67	67	27	3500	-
7	2.2	280	67	2.7	10.7	IE5	**BK10-../S5E08LA4**	14	46.5	93	280	335	62	67	67	67	67	28	3500	-
7	2.2	250	76	1.5	11.93	IE4	**BK10-../S4E08MA4**	12.5	41.5	83	250	300	54	64	76	76	76	27	3100	-

MN = 7 Nm (PN = 2.2 kW)



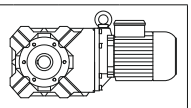
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
7	2.2	250	76	1.5	11.93	IE5	**BK10-../S5E08LA4**	12.5	41.5	83	250	300	71	76	76	76	76	28	3100	-
7	2.2	205	91	2.2	14.5	IE4	**BK10-../S4E08MA4**	10	34	68	205	245	65	76	91	91	91	27	3900	-
7	2.2	205	91	2.2	14.5	IE5	**BK10-../S5E08LA4**	10	34	68	205	245	84	91	91	91	91	28	3900	-
7	2.2	177	106	1.3	16.92	IE4	**BK10-../S4E08MA4**	8.8	29.5	59	177	210	76	89	106	106	106	27	3700	-
7	2.2	177	106	1.3	16.92	IE5	**BK10-../S5E08LA4**	8.8	29.5	59	177	210	98	106	106	106	106	28	3700	-
7	2.2	161	116	1.7	18.52	IE4	**BK10-../S4E08MA4**	8	26.5	53	161	194	83	98	116	116	116	27	4300	-
7	2.2	161	116	1.7	18.52	IE5	**BK10-../S5E08LA4**	8	26.5	53	161	194	108	116	116	116	116	28	4300	-
7	2.2	132	142	1.4	22.65	IE4	**BK10-../S4E08MA4**	6.6	22	44	132	158	101	120	142	142	142	27	4650	-
7	2.2	132	142	1.4	22.65	IE5	**BK10-../S5E08LA4**	6.6	22	44	132	158	132	142	142	142	142	28	4650	-
7	2.2	104	181	1.1	28.76	IE4	**BK10-../S4E08MA4**	5.2	17	34.5	104	125	129	152	181	181	181	27	5200	-
7	2.2	104	181	1.1	28.76	IE5	**BK10-../S5E08LA4**	5.2	17	34.5	104	125	168	181	181	181	181	28	5200	-
7	2.2	87	215	0.93	34.25	IE4	**BK10-../S4E08MA4**	4.3	14.5	29	87	105	154	181	215	215	215	27	5600	-
7	2.2	87	215	0.93	34.25	IE5	**BK10-../S5E08LA4**	4.3	14.5	29	87	105	200	215	215	215	215	28	5600	-
7	2.2	172	110	2.1	17.42	IE4	**BK17-../S4E08MA4**	8.6	28.5	57	172	205	79	93	110	110	110	36	3250	9000
7	2.2	172	110	2.1	17.42	IE5	**BK17-../S5E08LA4**	8.6	28.5	57	172	205	103	110	110	110	110	38	3250	9000
7	2.2	154	122	2.7	19.39	IE4	**BK17-../S4E08MA4**	7.7	25.5	51	154	185	87	102	122	122	122	36	4050	9000
7	2.2	154	122	2.7	19.39	IE5	**BK17-../S5E08LA4**	7.7	25.5	51	154	185	113	122	122	122	122	38	4050	9000
7	2.2	123	153	2.2	24.29	IE4	**BK17-../S4E08MA4**	6.1	20.5	41	123	148	109	128	153	153	153	36	4500	9000
7	2.2	123	153	2.2	24.29	IE5	**BK17-../S5E08LA4**	6.1	20.5	41	123	148	142	153	153	153	153	38	4500	9000
7	2.2	104	180	1.8	28.66	IE4	**BK17-../S4E08MA4**	5.2	17	34.5	104	125	128	152	180	180	180	36	4850	9000
7	2.2	104	180	1.8	28.66	IE5	**BK17-../S5E08LA4**	5.2	17	34.5	104	125	167	180	180	180	180	38	4850	9000
7	2.2	81	230	1.4	36.69	IE4	**BK17-../S4E08MA4**	4	13.5	27	81	98	165	194	230	230	230	36	5400	9000
7	2.2	81	230	1.4	36.69	IE5	**BK17-../S5E08LA4**	4	13.5	27	81	98	210	230	230	230	230	38	5400	9000
7	2.2	70	265	1.2	42.7	IE4	**BK17-../S4E08MA4**	3.5	11.5	23	70	84	192	225	265	265	265	36	5800	9000
7	2.2	70	265	1.2	42.7	IE5	**BK17-../S5E08LA4**	3.5	11.5	23	70	84	245	265	265	265	265	38	5800	9000
7	2.2	58	315	1	51.22	IE4	**BK17-../S4E08MA4**	2.9	9.7	19.5	58	70	225	265	315	315	315	36	6300	9000
7	2.2	58	315	1	51.22	IE5	**BK17-../S5E08LA4**	2.9	9.7	19.5	58	70	295	315	315	315	315	38	6300	9000
7	2.2	48.5	380	0.86	61.3	IE4	**BK17-../S4E08MA4**	2.4	8.1	16	48.5	58	270	320	380	380	380	36	6500	9000
7	2.2	48.5	380	0.86	61.3	IE5	**BK17-../S5E08LA4**	2.4	8.1	16	48.5	58	350	380	380	380	380	38	6500	9000
7	2.2	172	110	2.1	17.42	IE4	**BK20-../S4E08MA4**	8.6	28.5	57	172	205	79	93	110	110	110	36	3250	9000
7	2.2	172	110	2.1	17.42	IE5	**BK20-../S5E08LA4**	8.6	28.5	57	172	205	103	110	110	110	110	38	3250	9000
7	2.2	154	122	2.7	19.39	IE4	**BK20-../S4E08MA4**	7.7	25.5	51	154	185	87	102	122	122	122	36	4050	9000
7	2.2	154	122	2.7	19.39	IE5	**BK20-../S5E08LA4**	7.7	25.5	51	154	185	113	122	122	122	122	38	4050	9000
7	2.2	123	153	2.2	24.29	IE4	**BK20-../S4E08MA4**	6.1	20.5	41	123	148	109	128	153	153	153	36	4500	9000
7	2.2	123	153	2.2	24.29	IE5	**BK20-../S5E08LA4**	6.1	20.5	41	123	148	142	153	153	153	153	38	4500	9000
7	2.2	104	180	1.8	28.66	IE4	**BK20-../S4E08MA4**	5.2	17	34.5	104	125	128	152	180	180	180	36	4850	9000
7	2.2	104	180	1.8	28.66	IE5	**BK20-../S5E08LA4**	5.2	17	34.5	104	125	167	180	180	180	180	38	4850	9000
7	2.2	81	230	1.4	36.69	IE4	**BK20-../S4E08MA4**	4	13.5	27	81	98	165	194	230	230	230	36	5400	9000
7	2.2	81	230	1.4	36.69	IE5	**BK20-../S5E08LA4**	4	13.5	27	81	98	210	230	230	230	230	38	5400	9000
7	2.2	70	265	1.2	42.7	IE4	**BK20-../S4E08MA4**	3.5	11.5	23	70	84	192	225	265	265	265	36	5800	9000
7	2.2	70	265	1.2	42.7	IE5	**BK20-../S5E08LA4**	3.5	11.5	23	70	84	245	265	265	265	265	38	5800	9000
7	2.2	58	315	1	51.22	IE4	**BK20-../S4E08MA4**	2.9	9.7	19.5	58	70	225	265	315	315	315	36	6300	9000
7	2.2	58	315	1	51.22	IE5	**BK20-../S5E08LA4**	2.9	9.7	19.5	58	70	295	315	315	315	315	38	6300	9000
7	2.2	48.5	380	0.86	61.3	IE4	**BK20-../S4E08MA4**	2.4	8.1	16	48.5	58	270	320	380	380	380	36	6500	9000
7	2.2	48.5	380	0.86	61.3	IE5	**BK20-../S5E08LA4**	2.4	8.1	16	48.5	58	350	380	380	380	380	38	6500	9000
7	2.2	143	132	2.4	20.85	IE4	**BK30-../S4E08MA4**	7.1	23.5	47.5	143	172	94	111	132	132	132	42	5000	12000
7	2.2	143	132	2.4	20.85	IE5	**BK30-../S5E08LA4**	7.1	23.5	47.5	143	172	123	132	132	132	132	44	5000	12000
7	2.2	104	181	2.5	28.76	IE4	**BK30-../S4E08MA4**	5.2	17	34.5	104	125	129	152	181	181	181	42	6500	12000
7	2.2	104	181	2.5	28.76	IE5	**BK30-../S5E08LA4**	5.2	17	34.5	104	125	168	181	181	181	181	44	6500	12000
7	2.2	89	210	2.1	33.7	IE4	**BK30-../S4E08MA4**	4.4	14.5	29.5	89	106	151	178	210	210	210	42	7000	12000
7	2.2	89	210	2.1	33.7	IE5	**BK30-../S5E08LA4**	4.4	14.5	29.5	89	106	197	210	210	210	210	44	7000	12000
7	2.2	69	265	1.7	42.89	IE4	**BK30-../S4E08MA4**	3.4	11.5	23	69	83	190	225	265	265	265	42	7800	12000
7	2.2	69	265	1.7	42.89	IE5	**BK30-../S5E08LA4**	3.4	11.5	23	69	83	245	265	265	265	265	44	7800	12000
7	2.2	59	305	1.5	50.27	IE4	**BK30-../S4E08MA4**	2.9	9.9	19.5	59	71	220	260	305	305	305	42	8300	12000
7	2.2	59	305	1.5	50.27	IE5	**BK30-../S5E08LA4**	2.9	9.9	19.5	59	71	285	305	305	305	305	44	8300	12000
7	2.2	50	365	1.2	59.27	IE4	**BK30-../S4E08MA4**	2.5	8.4	16.5	50	60	260	305	365	365	365	42	8900	12000
7	2.2	50	365	1.2	59.27	IE5	**BK30-../S5E08LA4**	2.5	8.4	16.5	50	60	335	365	365	365	365	44	8900	12000
7	2.2	41.5	435	1	71.56	IE4	**BK30-../S4E08MA4**	2	6.9	13.5	41.5	50	310	365	435	435	435	42	9700	12000
7	2.2	41.5	435	1	71.56	IE5	**BK30-../S5E08LA4**	2	6.9	13.5	41.5	50	400	435	435	435	435	44	9700	12000
7	2.2	33.5	530	0.85	88.38	IE4	**BK30-../S4E08MA4**	1.6	5.6	11	33.5	40.5	380	445	530	530	530	42	10600	12000
7	2.2	33.5	530	0.85	88.38	IE5	**BK30-../S5E08LA4**	1.6	5.6	11	33.5	40.5	490	530	530	530	530	44	10600	12000
7	2.2	73	255	3	40.88	IE4	**BK40-../S4E08MA4**	3.6	12	24	73	88	183	215	255	255	255	63	7600	17000
7	2.2	73	255	3	40.88	IE5	**BK40-../S5E08LA4**	3.6	12	24	73	88	235	255	255	255	255	64	7600	17000
7	2.2	58	315	2.5	51.18	IE4	**BK40-../S4E08MA4**	2.9	9.7	19.5	58	70	225	265	315	315	315	63	8400	17000
7	2.2	58	315	2.5	51.18	IE5	**BK40-../S5E08LA4**	2.9	9.7	19.5	58	70	290	315	315	315	315	64	8400	17000
7	2.2	50	365	2.1	59.66	IE4	**BK40-../S4E08MA4**	2.5	8.3	16.5	50	60	260	305	365	365	365	63	9100	17000
7	2.2	50	365	2.1	59.66	IE5	**BK40-../S5E08LA4**	2.5	8.3	16.5	50	60	340	365	365	365	365	64	9100	17000
7	2.2	42.5	425	1.8	70.11	IE4	**BK40-../S4E08MA4**	2.1	7.1	14	42.5	51	300	355	425	425	425	63	9800	17000
7	2.2	42.5	425	1.8	70.11	IE5	**BK40-../S5E08LA4**	2.1	7.1	14	42.5	51	395	425	425	425	425	64	9800	17000
7	2.2	35.5	510	1.5	84.36	IE4	**BK40-../S4E08MA4**	1.7	5.9	11.5	35.5	42.5	365	430	510	510	510	63	10700	17000
7	2.2	35.5	510	1.5	84.36	IE5	**BK40-../S5E08LA4**	1.7	5.9	11.5	35.5	42.5	475	510	510	510	510	64	10700	17000
7	2.2	28.5	610	1.3	104	IE4	**BK40-../S4E08MA4**	1.4	4.8	9.6	28.5	34.5	440	520	610	610	610	63	11700	17000
7	2.2	28.5	610	1.3	104	IE5	**BK40-../S5E08LA4**	1.4	4.8	9.6	28.5	34.5	570	610	610	610	610	64	11700	17000
7	2.2	25	700	1.1	118.2	IE4	**BK40Z-../S4E08MA4**	1.2	4.2	8.4	25	30	500	590	700	700	700	67	11700	17000
7	2.2	25	700	1.1	118.2	IE5	**BK40Z-../S5E08LA4**	1.2	4.2	8.4	25	30	650	700	700	700	700	69	11700	17000
7	2.2	20.5	840	0.93	143	IE4	**BK40Z-../S4E08MA4**	1	3.4	6.9	20.5	25	600	700	840	840	840	67	11700	17000
7	2.2	20.5	840	0.93	143	IE5	**BK40Z-../S5E08LA4**	1	3.4	6.9	20.5	25	780	840	840	840	840	69	11700	17000
7	2.2	49	370	2.8	60.76	IE4	**BK50-../S4E08MA4**	2.4	8.2	16	49	59	265	315	370	370	370	91	11400	26000

MN = 7 Nm (PN = 2.2 kW)



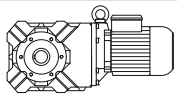
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
7	2.2	49	370	2.8	60.76	IE5	**BK50-../S5E08LA4**	2.4	8.2	16	49	59	345	370	370	370	370	93	11400	26000
7	2.2	39.5	455	2.3	75.4	IE4	**BK50-../S4E08MA4**	1.9	6.6	13	39.5	47.5	325	385	455	455	455	91	12600	26000
7	2.2	39.5	455	2.3	75.4	IE5	**BK50-../S5E08LA4**	1.9	6.6	13	39.5	47.5	425	455	455	455	455	93	12600	26000
7	2.2	31	570	1.8	95.29	IE4	**BK50-../S4E08MA4**	1.5	5.2	10	31	37.5	405	480	570	570	570	91	14100	26000
7	2.2	31	570	1.8	95.29	IE5	**BK50-../S5E08LA4**	1.5	5.2	10	31	37.5	530	570	570	570	570	93	14100	26000
7	2.2	25.5	680	1.5	115.4	IE4	**BK50Z-../S4E08MA4**	1.2	4.3	8.6	25.5	31	490	570	680	680	680	96	14100	26000
7	2.2	25.5	680	1.5	115.4	IE5	**BK50Z-../S5E08LA4**	1.2	4.3	8.6	25.5	31	630	680	680	680	680	98	14100	26000
7	2.2	19.5	890	1.2	153.3	IE4	**BK50Z-../S4E08MA4**	0.95	3.2	6.5	19.5	23	630	750	890	890	890	96	14100	26000
7	2.2	19.5	890	1.2	153.3	IE5	**BK50Z-../S5E08LA4**	0.95	3.2	6.5	19.5	23	820	890	890	890	890	98	14100	26000
7	2.2	14.5	1180	0.88	206.8	IE4	**BK50Z-../S4E08MA4**	0.7	2.4	4.8	14.5	17	840	1000	1180	1180	1180	96	14100	26000
7	2.2	14.5	1180	0.88	206.8	IE5	**BK50Z-../S5E08LA4**	0.7	2.4	4.8	14.5	17	1100	1180	1180	1180	1180	98	14100	26000
7	2.2	19.5	1070	2.1	153.7	IE4	**BK60Z-../S4E08MA4**	0.95	3.2	6.5	19.5	23	760	900	1070	1070	1070	119	16600	34000
7	2.2	19.5	1070	2.1	153.7	IE5	**BK60Z-../S5E08LA4**	0.95	3.2	6.5	19.5	23	990	1070	1070	1070	1070	120	16600	34000
7	2.2	16	1280	1.8	183.2	IE4	**BK60Z-../S4E08MA4**	0.8	2.7	5.4	16	19.5	910	1080	1280	1280	1280	119	16600	34000
7	2.2	16	1280	1.8	183.2	IE5	**BK60Z-../S5E08LA4**	0.8	2.7	5.4	16	19.5	1190	1280	1280	1280	1280	120	16600	34000
7	2.2	14.5	1430	1.6	205	IE4	**BK60Z-../S4E08MA4**	0.7	2.4	4.8	14.5	17.5	1020	1200	1430	1430	1430	119	16600	34000
7	2.2	14.5	1430	1.6	205	IE5	**BK60Z-../S5E08LA4**	0.7	2.4	4.8	14.5	17.5	1330	1430	1430	1430	1430	120	16600	34000
7	2.2	12.5	1670	1.4	239.7	IE4	**BK60Z-../S4E08MA4**	0.6	2	4.1	12.5	15	1190	1410	1670	1670	1670	119	16600	34000
7	2.2	12.5	1670	1.4	239.7	IE5	**BK60Z-../S5E08LA4**	0.6	2	4.1	12.5	15	1550	1670	1670	1670	1670	120	16600	34000
7	2.2	11	1870	1.2	268.2	IE4	**BK60Z-../S4E08MA4**	0.55	1.8	3.7	11	13	1340	1580	1870	1870	1870	119	16600	34000
7	2.2	11	1870	1.2	268.2	IE5	**BK60Z-../S5E08LA4**	0.55	1.8	3.7	11	13	1740	1870	1870	1870	1870	120	16600	34000
7	2.2	9.4	2200	1	317.7	IE4	**BK60Z-../S4E08MA4**	0.47	1.5	3.1	9.4	11	1580	1870	2200	2200	2200	119	16600	34000
7	2.2	9.4	2200	1	317.7	IE5	**BK60Z-../S5E08LA4**	0.47	1.5	3.1	9.4	11	2050	2200	2200	2200	2200	120	16600	34000
7	2.2	8.4	2450	0.92	355.5	IE4	**BK60Z-../S4E08MA4**	0.42	1.4	2.8	8.4	10	1770	2050	2450	2450	2450	119	16600	34000
7	2.2	8.4	2450	0.92	355.5	IE5	**BK60Z-../S5E08LA4**	0.42	1.4	2.8	8.4	10	2300	2450	2450	2450	2450	120	16600	34000
7	2.2	7.2	2850	0.8	411.5	IE4	**BK60Z-../S4E08MA4**	0.36	1.2	2.4	7.2	8.7	2050	2400	2850	2850	2850	119	16600	34000
7	2.2	7.2	2850	0.8	411.5	IE5	**BK60Z-../S5E08LA4**	0.36	1.2	2.4	7.2	8.7	2650	2850	2850	2850	2850	120	16600	34000
7	2.2	11.5	1800	2.9	257.3	IE4	**BK70Z-../S4E08MA4**	0.55	1.9	3.8	11.5	13.5	1280	1510	1800	1800	1800	207	24100	50000
7	2.2	11.5	1800	2.9	257.3	IE5	**BK70Z-../S5E08LA4**	0.55	1.9	3.8	11.5	13.5	1670	1800	1800	1800	1800	208	24100	50000
7	2.2	10	2050	2.5	293.3	IE4	**BK70Z-../S4E08MA4**	0.5	1.7	3.4	10	12	1460	1730	2050	2050	2050	207	24100	50000
7	2.2	10	2050	2.5	293.3	IE5	**BK70Z-../S5E08LA4**	0.5	1.7	3.4	10	12	1900	2050	2050	2050	2050	208	24100	50000
7	2.2	8.9	2300	2.2	333.6	IE4	**BK70Z-../S4E08MA4**	0.44	1.4	2.9	8.9	10.5	1660	1960	2300	2300	2300	207	24100	50000
7	2.2	8.9	2300	2.2	333.6	IE5	**BK70Z-../S5E08LA4**	0.44	1.4	2.9	8.9	10.5	2150	2300	2300	2300	2300	208	24100	50000
7	2.2	7.8	2650	2	379.9	IE4	**BK70Z-../S4E08MA4**	0.39	1.3	2.6	7.8	9.4	1890	2200	2650	2650	2650	207	24100	50000
7	2.2	7.8	2650	2	379.9	IE5	**BK70Z-../S5E08LA4**	0.39	1.3	2.6	7.8	9.4	2450	2650	2650	2650	2650	208	24100	50000
7	2.2	6.9	3000	1.7	432.1	IE4	**BK70Z-../S4E08MA4**	0.34	1.1	2.3	6.9	8.3	2150	2500	3000	3000	3000	207	24100	50000
7	2.2	6.9	3000	1.7	432.1	IE5	**BK70Z-../S5E08LA4**	0.34	1.1	2.3	6.9	8.3	2800	3000	3000	3000	3000	208	24100	50000
7	2.2	5.9	3500	1.5	501.8	IE4	**BK70Z-../S4E08MA4**	0.29	0.95	1.9	5.9	7.1	2500	2950	3500	3500	3500	207	24100	50000
7	2.2	5.9	3500	1.5	501.8	IE5	**BK70Z-../S5E08LA4**	0.29	0.95	1.9	5.9	7.1	3250	3500	3500	3500	3500	208	24100	50000
7	2.2	5.2	3950	1.3	570.8	IE4	**BK70Z-../S4E08MA4**	0.26	0.85	1.7	5.2	6.3	2850	3350	3950	3950	3950	207	24100	50000
7	2.2	5.2	3950	1.3	570.8	IE5	**BK70Z-../S5E08LA4**	0.26	0.85	1.7	5.2	6.3	3700	3950	3950	3950	3950	208	24100	50000
7	2.2	4.6	4500	1.2	644.9	IE4	**BK70Z-../S4E08MA4**	0.23	0.75	1.5	4.6	5.5	3200	3800	4500	4500	4500	207	24100	50000
7	2.2	4.6	4500	1.2	644.9	IE5	**BK70Z-../S5E08LA4**	0.23	0.75	1.5	4.6	5.5	4150	4500	4500	4500	4500	208	24100	50000
7	2.2	4	5100	1	733.6	IE4	**BK70Z-../S4E08MA4**	0.2	0.65	1.3	4	4.9	3650	4300	5100	5100	5100	207	24100	50000
7	2.2	4	5100	1	733.6	IE5	**BK70Z-../S5E08LA4**	0.2	0.65	1.3	4	4.9	4750	5100	5100	5100	5100	208	24100	50000
7	2.2	3.5	5900	0.96	847.7	IE4	**BK70G20-../S4E08MA4**	0.17	0.55	1.1	3.5	4.2	4200	5000	5900	5900	5900	205	24100	50000
7	2.2	3.5	5900	0.96	847.7	IE5	**BK70G20-../S5E08LA4**	0.17	0.55	1.1	3.5	4.2	5500	5900	5900	5900	5900	206	24100	50000
7	2.2	3.1	6700	0.84	964.6	IE4	**BK70G20-../S4E08MA4**	0.15	0.5	1	3.1	3.7	4800	5600	6700	6700	6700	205	24100	50000
7	2.2	3.1	6700	0.84	964.6	IE5	**BK70G20-../S5E08LA4**	0.15	0.5	1	3.1	3.7	6200	6700	6700	6700	6700	206	24100	50000
7	2.2	4.9	4250	2.7	607.8	IE4	**BK80G40-../S4E08MA4**	0.24	0.8	1.6	4.9	5.9	3000	3550	4250	4250	4250	347	30000	75000
7	2.2	4.9	4250	2.7	607.8	IE5	**BK80G40-../S5E08LA4**	0.24	0.8	1.6	4.9	5.9	3950	4250	4250	4250	4250	348	30000	75000
7	2.2	4.4	4750	2.4	680.9	IE4	**BK80G40-../S4E08MA4**	0.22	0.7	1.4	4.4	5.2	3400	4000	4750	4750	4750	347	30000	75000
7	2.2	4.4	4750	2.4	680.9	IE5	**BK80G40-../S5E08LA4**	0.22	0.7	1.4	4.4	5.2	4400	4750	4750	4750	4750	348	30000	75000
7	2.2	3.9	5200	2.2	756.3	IE4	**BK80G40-../S4E08MA4**	0.19	0.65	1.3	3.9	4.7	3750	4450	5200	5200	5200	347	30000	75000
7	2.2	3.9	5200	2.2	756.3	IE5	**BK80G40-../S5E08LA4**	0.19	0.65	1.3	3.9	4.7	4900	5200	5200	5200	5200	348	30000	75000
7	2.2	3.5	5900	1.9	847.2	IE4	**BK80G40-../S4E08MA4**	0.17	0.55	1.1	3.5	4.2	4200	4950	5900	5900	5900	347	30000	75000
7	2.2	3.5	5900	1.9	847.2	IE5	**BK80G40-../S5E08LA4**	0.17	0.55	1.1	3.5	4.2	5500	5900	5900	5900	5900	348	30000	75000
7	2.2	3.1	6700	1.7	963	IE4	**BK80G40-../S4E08MA4**	0.15	0.5	1	3.1	3.7	4800	5600	6700	6700	6700	347	30000	75000
7	2.2	3.1	6700	1.7	963	IE5	**BK80G40-../S5E08LA4**	0.15	0.5	1	3.1	3.7	6200	6700	6700	6700	6700	348	30000	75000
7	2.2	2.7	7500	1.5	1079	IE4	**BK80G40-../S4E08MA4**	0.13	0.46	0.9	2.7	3.3	5300	6300	7500	7500	7500	347	30000	75000
7	2.2	2.7	7500	1.5	1079	IE5	**BK80G40-../S5E08LA4**	0.13	0.46	0.9	2.7	3.3	7000	7500	7500	7500	7500	348	30000	75000
7	2.2	2.2	9100	1.3	1307	IE4	**BK80G40-../S4E08MA4**	0.11	0.38	0.75	2.2	2.7	6500	7700	9100	9100	9100	347	30000	75000
7	2.2	2.2	9100	1.3	1307	IE5	**BK80G40-../S5E08LA4**	0.11	0.38	0.75	2.2	2.7	8400	9100	9100	9100	9100	348	30000	75000
7	2.2	2.1	9900	1.2	1425	IE4	**BK80G40-../S4E08MA4**	0.1	0.35	0.7	2.1	2.5	7100	8400	9900	9900	9900	347	30000	75000
7	2.2	2.1	9900	1.2	1425	IE5	**BK80G40-../S5E08LA4**	0.1	0.35	0.7	2.1	2.5	9200	9900	9900	9900	9900	348	30000	75000
7	2.2	1.8	11000	1	1583	IE4	**BK80G40-../S4E08MA4**	0.09	0.31	0.6	1.8	2.2	7900	9300	11000	11000	11000	347	30000	75000
7	2.2	1.8	11000	1	1583	IE5	**BK80G40-../S5E08LA4**	0.09	0.31	0.6	1.8	2.2	10200	11000	11000	11000	11000	348	30000	75000
7	2.2	1.6	12400	0.93	1775	IE4	**BK80G40-../S4E08MA4**	0.08	0.28	0.55	1.6	2	8800	10400	12400	12400	12400	347	30000	75000
7	2.2	1.6	12400	0.93	1775	IE5	**BK80G40-../S5E08LA4**	0.08	0.28	0.55	1.6	2	11500	12400	12400	12400	12400	348	30000	75000
7	2.2	3.4	6100	3	882.3	IE4	**BK90G50-../S4E08MA4**	0.17	0.55	1.1	3.4	4	4400	5200	6100	6100	6100	620	49400	120000
7	2.2	3.4	6100	3	882.3	IE5	**BK90G50-../S5E08LA4**	0.17	0.55	1.1	3.4	4	5700	6100	6100	6100	6100	621	49400	120000
7	2.2	2.9	7000	2.6	1008	IE4	**BK90G50-../S4E08MA4**	0.14	0.49	0.95	2.9	3.5	5000	5900	7000	7000	7000	620	49400	120000
7	2.2	2.9	7000	2.6	1008	IE5	**BK90G50-../S5E08LA4**	0.14	0.49	0.95	2.9	3.5	6500	7000	7000	7000	7000	621	49400	120000
7	2.2	2.6	7800	2.3	1127	IE4	**BK90G50-../S4E08MA4**	0.13	0.44	0.85	2.6	3.1	5600	6600	7800	7800	7800	620	49400	120000
7	2.2	2.6	7800	2.3	1127	IE5	**BK90G50-../S5E08LA4**	0.13	0.44	0.85	2.6	3.1	7300	7800	7800	7800	7800	621	49400	120000
7	2.2	2.2	9500	1.9	1363	IE4	**BK90G50-../S4E08MA4**	0.11	0.36	0.7	2.2	2.6	6800	8000	9500	9500	9500	620	49400	120000
7	2.2	2.2	9500	1.9	1363	IE5	**BK90G50-../S5E08LA4**	0.11	0.36	0.7	2.2	2.6	8800	9500	9500	9500	9500	621	49400	120000
7	2.2	1.8	11000	1.7	1579	IE4	**BK90G50-../S4E08MA4**	0.09	0.31	0.6	1.8	2.2	7800	9300	11000	11000	11000	620	49400	120000
7	2.2	1.8	11000	1.7	1579	IE5	**BK90G50-../S5E08LA4**	0.09	0.31	0.6	1.8	2.2	10200	11000	11000	11000	11000	621	49400	120000

MN = 7 Nm (PN = 2.2 kW)



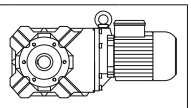
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
7	2.2	1.6	12600	1.5	1803	IE4	**BK90G50-../S4E08MA4**	0.08	0.27	0.55	1.6	1.9	9000	10600	12600	12600	12600	620	49400	120000
7	2.2	1.6	12600	1.5	1803	IE5	**BK90G50-../S5E08LA4**	0.08	0.27	0.55	1.6	1.9	11700	12600	12600	12600	12600	621	49400	120000
7	2.2	1.4	14100	1.3	2016	IE4	**BK90G50-../S4E08MA4**	0.07	0.24	0.49	1.4	1.7	10000	11800	14100	14100	14100	620	49400	120000
7	2.2	1.4	14100	1.3	2016	IE5	**BK90G50-../S5E08LA4**	0.07	0.24	0.49	1.4	1.7	13100	14100	14100	14100	14100	621	49400	120000
7	2.2	1	19300	0.96	2764	IE4	**BK90G50-../S4E08MA4**	0.05	0.18	0.36	1	1.3	13800	16300	19300	19300	19300	620	49400	120000
7	2.2	1	19300	0.96	2764	IE5	**BK90G50-../S5E08LA4**	0.05	0.18	0.36	1	1.3	17900	19300	19300	19300	19300	621	49400	120000
7	2.2	0.95	21000	0.86	3065	IE4	**BK90G50-../S4E08MA4**	0.048	0.16	0.32	0.95	1.1	15300	18000	21000	21000	21000	620	49400	120000
7	2.2	0.95	21000	0.86	3065	IE5	**BK90G50-../S5E08LA4**	0.048	0.16	0.32	0.95	1.1	19900	21000	21000	21000	21000	621	49400	120000

MN = 10 Nm (PN = 3.1 kW)



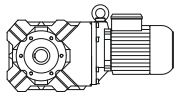
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
10	3.1	410	66	1.1	7.25	IE3	**BK06-../SPE08LA4**	20.5	68	137	410	495	43	53	66	66	66	16	800	-
10	3.1	305	89	0.9	9.71	IE3	**BK06-../SPE08LA4**	15	51	102	305	370	58	71	89	89	89	16	880	-
10	3.1	670	40.5	2.3	4.44	IE3	**BK08-../SPE08LA4**	33.5	112	225	670	810	26.5	32.5	40.5	40.5	40.5	28	1900	-
10	3.1	495	55	1.9	6.02	IE3	**BK08-../SPE08LA4**	24.5	83	166	495	590	35.5	44	55	55	55	28	2100	-
10	3.1	390	70	1.6	7.68	IE3	**BK08-../SPE08LA4**	19.5	65	130	390	465	45.5	56	70	70	70	28	2400	-
10	3.1	315	86	1.3	9.4	IE3	**BK08-../SPE08LA4**	15.5	53	106	315	380	56	69	86	86	86	28	2700	-
10	3.1	280	96	1.9	10.7	IE3	**BK08-../SPE08LA4**	14	46.5	93	280	335	62	77	96	96	96	28	3500	-
10	3.1	250	109	1	11.93	IE3	**BK08-../SPE08LA4**	12.5	41.5	83	250	300	71	87	109	109	109	28	3100	-
10	3.1	205	130	1.5	14.5	IE3	**BK08-../SPE08LA4**	10	34	68	205	245	84	104	130	130	130	28	3900	-
10	3.1	177	152	0.89	16.92	IE3	**BK08-../SPE08LA4**	8.8	29.5	59	177	210	98	121	152	152	152	28	3700	-
10	3.1	161	166	1.2	18.52	IE3	**BK08-../SPE08LA4**	8	26.5	53	161	194	108	133	166	166	166	28	4300	-
10	3.1	132	200	0.98	22.65	IE3	**BK08-../SPE08LA4**	6.6	22	44	132	158	132	163	200	200	200	28	4650	-
10	3.1	670	40.5	2.3	4.44	IE3	**BK10-../SPE08LA4**	33.5	112	225	670	810	26.5	32.5	40.5	40.5	40.5	28	1900	-
10	3.1	495	55	1.9	6.02	IE3	**BK10-../SPE08LA4**	24.5	83	166	495	590	35.5	44	55	55	55	28	2100	-
10	3.1	390	70	1.6	7.68	IE3	**BK10-../SPE08LA4**	19.5	65	130	390	465	45.5	56	70	70	70	28	2400	-
10	3.1	315	86	1.3	9.4	IE3	**BK10-../SPE08LA4**	15.5	53	106	315	380	56	69	86	86	86	28	2700	-
10	3.1	280	96	1.9	10.7	IE3	**BK10-../SPE08LA4**	14	46.5	93	280	335	62	77	96	96	96	28	3500	-
10	3.1	250	109	1	11.93	IE3	**BK10-../SPE08LA4**	12.5	41.5	83	250	300	71	87	109	109	109	28	3100	-
10	3.1	205	130	1.5	14.5	IE3	**BK10-../SPE08LA4**	10	34	68	205	245	84	104	130	130	130	28	3900	-
10	3.1	177	152	0.89	16.92	IE3	**BK10-../SPE08LA4**	8.8	29.5	59	177	210	98	121	152	152	152	28	3700	-
10	3.1	161	166	1.2	18.52	IE3	**BK10-../SPE08LA4**	8	26.5	53	161	194	108	133	166	166	166	28	4300	-
10	3.1	132	200	0.98	22.65	IE3	**BK10-../SPE08LA4**	6.6	22	44	132	158	132	163	200	200	200	28	4650	-
10	3.1	300	91	2.5	9.91	IE3	**BK17-../SPE08LA4**	15	50	100	300	360	59	72	91	91	91	38	1910	8300
10	3.1	265	100	3	11.14	IE3	**BK17-../SPE08LA4**	13	44.5	89	265	320	65	80	100	100	100	38	3300	8100
10	3.1	255	107	2.1	11.69	IE3	**BK17-../SPE08LA4**	12.5	42.5	85	255	305	69	86	107	107	107	38	2400	8800
10	3.1	200	132	2.5	14.75	IE3	**BK17-../SPE08LA4**	10	33.5	67	200	240	86	106	132	132	132	38	3650	9000
10	3.1	172	158	1.5	17.42	IE3	**BK17-../SPE08LA4**	8.6	28.5	57	172	205	103	126	158	158	158	38	3250	9000
10	3.1	154	174	1.9	19.39	IE3	**BK17-../SPE08LA4**	7.7	25.5	51	154	185	113	139	174	174	174	38	4050	9000
10	3.1	123	215	1.5	24.29	IE3	**BK17-../SPE08LA4**	6.1	20.5	41	123	148	142	174	215	215	215	38	4500	9000
10	3.1	104	255	1.3	28.66	IE3	**BK17-../SPE08LA4**	5.2	17	34.5	104	125	167	205	255	255	255	38	4850	9000
10	3.1	81	330	1	36.69	IE3	**BK17-../SPE08LA4**	4	13.5	27	81	98	210	260	330	330	330	38	5400	9000
10	3.1	70	380	0.86	42.7	IE3	**BK17-../SPE08LA4**	3.5	11.5	23	70	84	245	305	380	380	380	38	5800	9000
10	3.1	300	91	2.5	9.91	IE3	**BK20-../SPE08LA4**	15	50	100	300	360	59	72	91	91	91	38	1910	8300
10	3.1	265	100	3	11.14	IE3	**BK20-../SPE08LA4**	13	44.5	89	265	320	65	80	100	100	100	38	3300	8100
10	3.1	255	107	2.1	11.69	IE3	**BK20-../SPE08LA4**	12.5	42.5	85	255	305	69	86	107	107	107	38	2400	8800
10	3.1	200	132	2.5	14.75	IE3	**BK20-../SPE08LA4**	10	33.5	67	200	240	86	106	132	132	132	38	3650	9000
10	3.1	172	158	1.5	17.42	IE3	**BK20-../SPE08LA4**	8.6	28.5	57	172	205	103	126	158	158	158	38	3250	9000
10	3.1	154	174	1.9	19.39	IE3	**BK20-../SPE08LA4**	7.7	25.5	51	154	185	113	139	174	174	174	38	4050	9000
10	3.1	123	215	1.5	24.29	IE3	**BK20-../SPE08LA4**	6.1	20.5	41	123	148	142	174	215	215	215	38	4500	9000
10	3.1	104	255	1.3	28.66	IE3	**BK20-../SPE08LA4**	5.2	17	34.5	104	125	167	205	255	255	255	38	4850	9000
10	3.1	81	330	1	36.69	IE3	**BK20-../SPE08LA4**	4	13.5	27	81	98	210	260	330	330	330	38	5400	9000
10	3.1	70	380	0.86	42.7	IE3	**BK20-../SPE08LA4**	3.5	11.5	23	70	84	245	305	380	380	380	38	5800	9000
10	3.1	250	109	2.9	11.93	IE3	**BK30-../SPE08LA4**	12.5	41.5	83	250	300	71	87	109	109	109	44	3650	12000
10	3.1	210	127	2.5	13.98	IE3	**BK30-../SPE08LA4**	10.5	35.5	71	210	255	82	101	127	127	127	44	4050	12000
10	3.1	167	161	2.8	17.95	IE3	**BK30-../SPE08LA4**	8.3	27.5	55	167	200	105	129	161	161	161	44	5300	12000
10	3.1	143	189	1.7	20.85	IE3	**BK30-../SPE08LA4**	7.1	23.5	47.5	143	172	123	151	189	189	189	44	5000	12000
10	3.1	129	205	2.2	23.2	IE3	**BK30-../SPE08LA4**	6.4	21.5	43	129	155	135	167	205	205	205	44	5900	12000
10	3.1	104	255	1.7	28.76	IE3	**BK30-../SPE08LA4**	5.2	17	34.5	104	125	168	205	255	255	255	44	6500	12000
10	3.1	89	300	1.5	33.7	IE3	**BK30-../SPE08LA4**	4.4	14.5	29.5	89	106	197	240	300	300	300	44	7000	12000
10	3.1	69	380	1.2	42.89	IE3	**BK30-../SPE08LA4**	3.4	11.5	23	69	83	245	305	380	380	380	44	7800	12000
10	3.1	59	440	1	50.27	IE3	**BK30-../SPE08LA4**	2.9	9.9	19.5	59	71	285	350	440	440	440	44	8300	12000
10	3.1	50	520	0.86	59.27	IE3	**BK30-../SPE08LA4**	2.5	8.4	16.5	50	60	335	415	520	520	520	44	8900	12000
10	3.1	104	255	3	28.59	IE3	**BK40-../SPE08LA4**	5.2	17	34.5	104	125	167	205	255	255	255	64	6300	17000
10	3.1	86	310	2.5	34.61	IE3	**BK40-../SPE08LA4**	4.3	14	28.5	86	104	200	245	310	310	310	64	6900	17000
10	3.1	73	365	2.1	40.88	IE3	**BK40-../SPE08LA4**	3.6	12	24	73	88	235	290	365	365	365	64	7600	17000
10	3.1	58	450	1.7	51.18	IE3	**BK40-../SPE08LA4**	2.9	9.7	19.5	58	70	290	360	450	450	450	64	8400	17000
10	3.1	50	520	1.5	59.66	IE3	**BK40-../SPE08LA4**	2.5	8.3	16.5	50	60	340	420	520	520	520	64	9100	17000
10	3.1	42.5	600	1.3	70.11	IE3	**BK40-../SPE08LA4**	2.1	7.1	14	42.5	51	395	485	600	600	600	64	9800	17000

MN = 10 Nm (PN = 3.1 kW)



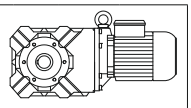
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
10	3.1	35.5	730	1.1	84.36	IE3	**BK40-../SPE08LA4**	1.7	5.9	11.5	35.5	42.5	475	580	730	730	730	64	10700	17000
10	3.1	28.5	880	0.88	104	IE3	**BK40-../SPE08LA4**	1.4	4.8	9.6	28.5	34.5	570	700	880	880	880	64	11700	17000
10	3.1	63	420	2.5	47.5	IE3	**BK50-../SPE08LA4**	3.1	10.5	21	63	75	270	335	420	420	420	93	10100	25700
10	3.1	49	530	2	60.76	IE3	**BK50-../SPE08LA4**	2.4	8.2	16	49	59	345	425	530	530	530	93	11400	26000
10	3.1	39.5	650	1.6	75.4	IE3	**BK50-../SPE08LA4**	1.9	6.6	13	39.5	47.5	425	520	650	650	650	93	12600	26000
10	3.1	31	810	1.3	95.29	IE3	**BK50-../SPE08LA4**	1.5	5.2	10	31	37.5	530	650	810	810	810	93	14100	26000
10	3.1	25.5	980	1.1	115.4	IE3	**BK50Z-../SPE08LA4**	1.2	4.3	8.6	25.5	31	630	780	980	980	980	98	14100	26000
10	3.1	19.5	1270	0.83	153.3	IE3	**BK50Z-../SPE08LA4**	0.95	3.2	6.5	19.5	23	820	1010	1270	1270	1270	98	14100	26000
10	3.1	19.5	1530	1.5	153.7	IE3	**BK60Z-../SPE08LA4**	0.95	3.2	6.5	19.5	23	990	1220	1530	1530	1530	120	16600	34000
10	3.1	16	1830	1.3	183.2	IE3	**BK60Z-../SPE08LA4**	0.8	2.7	5.4	16	19.5	1190	1460	1830	1830	1830	120	16600	34000
10	3.1	14.5	2050	1.1	205	IE3	**BK60Z-../SPE08LA4**	0.7	2.4	4.8	14.5	17.5	1330	1640	2050	2050	2050	120	16600	34000
10	3.1	12.5	2350	0.96	239.7	IE3	**BK60Z-../SPE08LA4**	0.6	2	4.1	12.5	15	1550	1910	2350	2350	2350	120	16600	34000
10	3.1	11	2650	0.86	268.2	IE3	**BK60Z-../SPE08LA4**	0.55	1.8	3.7	11	13	1740	2100	2650	2650	2650	120	16600	34000
10	3.1	15.5	1900	2.7	190.4	IE3	**BK70Z-../SPE08LA4**	0.75	2.6	5.2	15.5	18.5	1230	1520	1900	1900	1900	208	24100	50000
10	3.1	13	2250	2.3	226.2	IE3	**BK70Z-../SPE08LA4**	0.65	2.2	4.4	13	15.5	1470	1800	2250	2250	2250	208	24100	50000
10	3.1	11.5	2550	2	257.3	IE3	**BK70Z-../SPE08LA4**	0.55	1.9	3.8	11.5	13.5	1670	2050	2550	2550	2550	208	24100	50000
10	3.1	10	2900	1.8	293.3	IE3	**BK70Z-../SPE08LA4**	0.5	1.7	3.4	10	12	1900	2300	2900	2900	2900	208	24100	50000
10	3.1	8.9	3300	1.6	333.6	IE3	**BK70Z-../SPE08LA4**	0.44	1.4	2.9	8.9	10.5	2150	2650	3300	3300	3300	208	24100	50000
10	3.1	7.8	3750	1.4	379.9	IE3	**BK70Z-../SPE08LA4**	0.39	1.3	2.6	7.8	9.4	2450	3000	3750	3750	3750	208	24100	50000
10	3.1	6.9	4300	1.2	432.1	IE3	**BK70Z-../SPE08LA4**	0.34	1.1	2.3	6.9	8.3	2800	3450	4300	4300	4300	208	24100	50000
10	3.1	5.9	5000	1	501.8	IE3	**BK70Z-../SPE08LA4**	0.29	0.95	1.9	5.9	7.1	3250	4000	5000	5000	5000	208	24100	50000
10	3.1	5.2	5700	0.91	570.8	IE3	**BK70Z-../SPE08LA4**	0.26	0.85	1.7	5.2	6.3	3700	4550	5700	5700	5700	208	24100	50000
10	3.1	4.6	6400	0.81	644.9	IE3	**BK70Z-../SPE08LA4**	0.23	0.75	1.5	4.6	5.5	4150	5100	6400	6400	6400	208	24100	50000
10	3.1	4.9	6000	1.9	607.8	IE3	**BK80G40-../SPE08LA4**	0.24	0.8	1.6	4.9	5.9	3950	4850	6000	6000	6000	348	30000	75000
10	3.1	4.4	6800	1.7	680.9	IE3	**BK80G40-../SPE08LA4**	0.22	0.7	1.4	4.4	5.2	4400	5400	6800	6800	6800	348	30000	75000
10	3.1	3.9	7500	1.5	756.3	IE3	**BK80G40-../SPE08LA4**	0.19	0.65	1.3	3.9	4.7	4900	6000	7500	7500	7500	348	30000	75000
10	3.1	3.5	8400	1.4	847.2	IE3	**BK80G40-../SPE08LA4**	0.17	0.55	1.1	3.5	4.2	5500	6700	8400	8400	8400	348	30000	75000
10	3.1	3.1	9600	1.2	963	IE3	**BK80G40-../SPE08LA4**	0.15	0.5	1	3.1	3.7	6200	7700	9600	9600	9600	348	30000	75000
10	3.1	2.7	10700	1.1	1079	IE3	**BK80G40-../SPE08LA4**	0.13	0.46	0.9	2.7	3.3	7000	8600	10700	10700	10700	348	30000	75000
10	3.1	2.2	13000	0.88	1307	IE3	**BK80G40-../SPE08LA4**	0.11	0.38	0.75	2.2	2.7	8400	10400	13000	13000	13000	348	30000	75000
10	3.1	2.1	14200	0.81	1425	IE3	**BK80G40-../SPE08LA4**	0.1	0.35	0.7	2.1	2.5	9200	11400	14200	14200	14200	348	30000	75000
10	3.1	3.6	8200	2.3	821	IE3	**BK90G50-../SPE08LA4**	0.18	0.6	1.2	3.6	4.3	5300	6500	8200	8200	8200	621	49400	120000
10	3.1	3.4	8800	2.1	882.3	IE3	**BK90G50-../SPE08LA4**	0.17	0.55	1.1	3.4	4	5700	7000	8800	8800	8800	621	49400	120000
10	3.1	2.9	10000	1.8	1008	IE3	**BK90G50-../SPE08LA4**	0.14	0.49	0.95	2.9	3.5	6500	8000	10000	10000	10000	621	49400	120000
10	3.1	2.6	11200	1.6	1127	IE3	**BK90G50-../SPE08LA4**	0.13	0.44	0.85	2.6	3.1	7300	9000	11200	11200	11200	621	49400	120000
10	3.1	2.2	13600	1.4	1363	IE3	**BK90G50-../SPE08LA4**	0.11	0.36	0.7	2.2	2.6	8800	10900	13600	13600	13600	621	49400	120000
10	3.1	1.8	15700	1.2	1579	IE3	**BK90G50-../SPE08LA4**	0.09	0.31	0.6	1.8	2.2	10200	12600	15700	15700	15700	621	49400	120000
10	3.1	1.6	18000	1	1803	IE3	**BK90G50-../SPE08LA4**	0.08	0.27	0.55	1.6	1.9	11700	14400	18000	18000	18000	621	49400	120000
10	3.1	1.4	20000	0.92	2016	IE3	**BK90G50-../SPE08LA4**	0.07	0.24	0.49	1.4	1.7	13100	16100	20000	20000	20000	621	49400	120000

MN = 13 Nm (PN = 4 kW)



M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
13	4	670	53	1.8	4.44	IE4	**BK10-../S4E09SA4**	33.5	112	225	670	810	34.5	40.5	53	53	53	32	1900	-
13	4	495	71	1.5	6.02	IE4	**BK10-../S4E09SA4**	24.5	83	166	495	590	47	55	71	71	71	32	2100	-
13	4	390	91	1.3	7.68	IE4	**BK10-../S4E09SA4**	19.5	65	130	390	465	60	70	91	91	91	32	2400	-
13	4	315	112	1	9.4	IE4	**BK10-../S4E09SA4**	15.5	53	106	315	380	73	86	112	112	112	32	2700	-
13	4	280	125	1.4	10.7	IE4	**BK10-../S4E09SA4**	14	46.5	93	280	335	81	96	125	125	125	32	3500	-
13	4	250	142	0.81	11.93	IE4	**BK10-../S4E09SA4**	12.5	41.5	83	250	300	93	109	142	142	142	32	3100	-
13	4	205	169	1.2	14.5	IE4	**BK10-../S4E09SA4**	10	34	68	205	245	110	130	169	169	169	32	3900	-
13	4	161	215	0.92	18.52	IE4	**BK10-../S4E09SA4**	8	26.5	53	161	194	141	166	215	215	215	32	4300	-
13	4	495	71	3	6.02	IE4	**BK17-../S4E09SA4**	24.5	83	166	495	590	47	55	71	71	71	42	580	6800
13	4	375	94	2.4	7.91	IE4	**BK17-../S4E09SA4**	18.5	63	126	375	455	61	72	94	94	94	42	1330	7600
13	4	300	118	1.9	9.91	IE4	**BK17-../S4E09SA4**	15	50	100	300	360	77	91	118	118	118	42	1910	8300
13	4	265	130	2.3	11.14	IE4	**BK17-../S4E09SA4**	13	44.5	89	265	320	85	100	130	130	130	42	3300	8100
13	4	255	139	1.6	11.69	IE4	**BK17-../S4E09SA4**	12.5	42.5	85	255	305	91	107	139	139	139	42	2400	8800
13	4	200	172	1.9	14.75	IE4	**BK17-../S4E09SA4**	10	33.5	67	200	240	112	132	172	172	172	42	3650	9000
13	4	172	205	1.1	17.42	IE4	**BK17-../S4E09SA4**	8.6	28.5	57	172	205	134	158	205	205	205	42	3250	9000
13	4	154	225	1.5	19.39	IE4	**BK17-../S4E09SA4**	7.7	25.5	51	154	185	148	174	225	225	225	42	4050	9000
13	4	123	280	1.2	24.29	IE4	**BK17-../S4E09SA4**	6.1	20.5	41	123	148	185	215	280	280	280	42	4500	9000
13	4	104	335	0.98	28.66	IE4	**BK17-../S4E09SA4**	5.2	17	34.5	104	125	215	255	335	335	335	42	4850	9000
13	4	495	71	3	6.02	IE4	**BK20-../S4E09SA4**	24.5	83	166	495	590	47	55	71	71	71	42	580	6800
13	4	375	94	2.4	7.91	IE4	**BK20-../S4E09SA4**	18.5	63	126	375	455	61	72	94	94	94	42	1330	7600
13	4	300	118	1.9	9.91	IE4	**BK20-../S4E09SA4**	15	50	100	300	360	77	91	118	118	118	42	1910	8300
13	4	265	130	2.3	11.14	IE4	**BK20-../S4E09SA4**	13	44.5	89	265	320	85	100	130	130	130	42	3300	8100
13	4	255	139	1.6	11.69	IE4	**BK20-../S4E09SA4**	12.5	42.5	85	255	305	91	107	139	139	139	42	2400	8800
13	4	200	172	1.9	14.75	IE4	**BK20-../S4E09SA4**	10	33.5	67	200	240	112	132	172	172	172	42	3650	9000
13	4	172	205	1.1	17.42	IE4	**BK20-../S4E09SA4**	8.6	28.5	57	172	205	134	158	205	205	205	42	3250	9000
13	4	154	225	1.5	19.39	IE4	**BK20-../S4E09SA4**	7.7	25.5	51	154	185	148	174	225	225	225	42	4050	9000

MN = 13 Nm (PN = 4 kW)

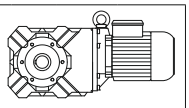


M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
13	4	123	280	1.2	24.29	IE4	**BK20-../S4E09SA4**	6.1	20.5	41	123	148	185	215	280	280	280	42	4500	9000
13	4	104	335	0.98	28.66	IE4	**BK20-../S4E09SA4**	5.2	17	34.5	104	125	215	255	335	335	335	42	4850	9000
13	4	495	71	2.9	6.02	IE4	**BK30-../S4E09SA4**	24.5	83	166	495	590	47	55	71	71	71	48	1690	9600
13	4	400	89	3	7.45	IE4	**BK30-../S4E09SA4**	20	67	134	400	480	58	68	89	89	89	48	2200	10400
13	4	310	115	2.8	9.63	IE4	**BK30-../S4E09SA4**	15.5	51	103	310	370	75	88	115	115	115	48	3150	11500
13	4	250	142	2.2	11.93	IE4	**BK30-../S4E09SA4**	12.5	41.5	83	250	300	93	109	142	142	142	48	3650	12000
13	4	210	165	1.9	13.98	IE4	**BK30-../S4E09SA4**	10.5	35.5	71	210	255	108	127	165	165	165	48	4050	12000
13	4	205	169	2.7	14.5	IE4	**BK30-../S4E09SA4**	10	34	68	205	245	110	130	169	169	169	48	4900	12000
13	4	167	210	2.1	17.95	IE4	**BK30-../S4E09SA4**	8.3	27.5	55	167	200	137	161	210	210	210	48	5300	12000
13	4	143	245	1.3	20.85	IE4	**BK30-../S4E09SA4**	7.1	23.5	47.5	143	172	161	189	245	245	245	48	5000	12000
13	4	129	270	1.7	23.2	IE4	**BK30-../S4E09SA4**	6.4	21.5	43	129	155	177	205	270	270	270	48	5900	12000
13	4	104	335	1.3	28.76	IE4	**BK30-../S4E09SA4**	5.2	17	34.5	104	125	220	255	335	335	335	48	6500	12000
13	4	89	390	1.1	33.7	IE4	**BK30-../S4E09SA4**	4.4	14.5	29.5	89	106	255	300	390	390	390	48	7000	12000
13	4	69	495	0.91	42.89	IE4	**BK30-../S4E09SA4**	3.4	11.5	23	69	83	320	380	495	495	495	48	7800	12000
13	4	133	260	3	22.44	IE4	**BK40-../S4E09SA4**	6.6	22	44.5	133	160	171	200	260	260	260	68	5500	16500
13	4	104	330	2.3	28.59	IE4	**BK40-../S4E09SA4**	5.2	17	34.5	104	125	215	255	330	330	330	68	6300	17000
13	4	86	400	1.9	34.61	IE4	**BK40-../S4E09SA4**	4.3	14	28.5	86	104	260	310	400	400	400	68	6900	17000
13	4	73	475	1.6	40.88	IE4	**BK40-../S4E09SA4**	3.6	12	24	73	88	310	365	475	475	475	68	7600	17000
13	4	58	580	1.3	51.18	IE4	**BK40-../S4E09SA4**	2.9	9.7	19.5	58	70	380	450	580	580	580	68	8400	17000
13	4	50	680	1.1	59.66	IE4	**BK40-../S4E09SA4**	2.5	8.3	16.5	50	60	445	520	680	680	680	68	9100	17000
13	4	42.5	790	0.98	70.11	IE4	**BK40-../S4E09SA4**	2.1	7.1	14	42.5	51	510	600	790	790	790	68	9800	17000
13	4	35.5	950	0.82	84.36	IE4	**BK40-../S4E09SA4**	1.7	5.9	11.5	35.5	42.5	620	730	950	950	950	68	10700	17000
13	4	85	410	2.5	35.21	IE4	**BK50-../S4E09SA4**	4.2	14	28	85	102	265	315	410	410	410	96	8700	23100
13	4	63	540	1.9	47.5	IE4	**BK50-../S4E09SA4**	3.1	10.5	21	63	75	355	420	540	540	540	96	10100	25700
13	4	49	690	1.5	60.76	IE4	**BK50-../S4E09SA4**	2.4	8.2	16	49	59	450	530	690	690	690	96	11400	26000
13	4	39.5	850	1.2	75.4	IE4	**BK50-../S4E09SA4**	1.9	6.6	13	39.5	47.5	550	650	850	850	850	96	12600	26000
13	4	31	1060	0.99	95.29	IE4	**BK50-../S4E09SA4**	1.5	5.2	10	31	37.5	690	810	1060	1060	1060	96	14100	26000
13	4	25.5	1270	0.82	115.4	IE4	**BK50Z-../S4E09SA4**	1.2	4.3	8.6	25.5	31	830	980	1270	1270	1270	101	14100	26000
13	4	50	760	3	58.95	IE4	**BK60-../S4E09SA4**	2.5	8.4	16.5	50	61	500	580	760	760	760	105	9900	31500
13	4	45	850	2.7	65.95	IE4	**BK60-../S4E09SA4**	2.2	7.5	15	45	54	560	650	850	850	850	105	10900	33000
13	4	38	1010	2.3	78.13	IE4	**BK60-../S4E09SA4**	1.9	6.3	12.5	38	46	660	780	1010	1010	1010	105	11900	34000
13	4	34	1130	2	87.41	IE4	**BK60-../S4E09SA4**	1.7	5.7	11	34	41	740	870	1130	1130	1130	105	12900	34000
13	4	29.5	1310	1.7	101.2	IE4	**BK60-../S4E09SA4**	1.4	4.9	9.8	29.5	35.5	860	1010	1310	1310	1310	105	13900	34000
13	4	26.5	1470	1.6	113.2	IE4	**BK60-../S4E09SA4**	1.3	4.4	8.8	26.5	31.5	960	1130	1470	1470	1470	105	15000	34000
13	4	24	1590	1.4	122.5	IE4	**BK60-../S4E09SA4**	1.2	4	8.1	24	29	1040	1220	1590	1590	1590	105	15500	34000
13	4	21.5	1780	1.3	137	IE4	**BK60-../S4E09SA4**	1	3.6	7.2	21.5	26	1160	1370	1780	1780	1780	105	16600	34000
13	4	19.5	1990	1.2	153.7	IE4	**BK60Z-../S4E09SA4**	0.95	3.2	6.5	19.5	23	1300	1530	1990	1990	1990	124	16600	34000
13	4	16	2350	0.97	183.2	IE4	**BK60Z-../S4E09SA4**	0.8	2.7	5.4	16	19.5	1550	1830	2350	2350	2350	124	16600	34000
13	4	14.5	2650	0.86	205	IE4	**BK60Z-../S4E09SA4**	0.7	2.4	4.8	14.5	17.5	1740	2050	2650	2650	2650	124	16600	34000
13	4	21.5	1770	2.9	136.7	IE4	**BK70-../S4E09SA4**	1	3.6	7.3	21.5	26	1160	1360	1770	1770	1770	191	20700	50000
13	4	19	2000	2.6	154.4	IE4	**BK70-../S4E09SA4**	0.95	3.2	6.4	19	23	1310	1540	2000	2000	2000	191	21900	50000
13	4	17	2250	2.3	175.7	IE4	**BK70-../S4E09SA4**	0.85	2.8	5.6	17	20	1490	1750	2250	2250	2250	191	24100	50000
13	4	15.5	2450	2.1	190.4	IE4	**BK70Z-../S4E09SA4**	0.75	2.6	5.2	15.5	18.5	1610	1900	2450	2450	2450	212	24100	50000
13	4	13	2900	1.8	226.2	IE4	**BK70Z-../S4E09SA4**	0.65	2.2	4.4	13	15.5	1920	2250	2900	2900	2900	212	24100	50000
13	4	11.5	3300	1.6	257.3	IE4	**BK70Z-../S4E09SA4**	0.55	1.9	3.8	11.5	13.5	2150	2550	3300	3300	3300	212	24100	50000
13	4	10	3800	1.4	293.3	IE4	**BK70Z-../S4E09SA4**	0.5	1.7	3.4	10	12	2450	2900	3800	3800	3800	212	24100	50000
13	4	8.9	4300	1.2	333.6	IE4	**BK70Z-../S4E09SA4**	0.44	1.4	2.9	8.9	10.5	2800	3300	4300	4300	4300	212	24100	50000
13	4	7.8	4900	1.1	379.9	IE4	**BK70Z-../S4E09SA4**	0.39	1.3	2.6	7.8	9.4	3200	3750	4900	4900	4900	212	24100	50000
13	4	6.9	5600	0.93	432.1	IE4	**BK70Z-../S4E09SA4**	0.34	1.1	2.3	6.9	8.3	3650	4300	5600	5600	5600	212	24100	50000
13	4	5.9	6500	0.8	501.8	IE4	**BK70Z-../S4E09SA4**	0.29	0.95	1.9	5.9	7.1	4250	5000	6500	6500	6500	212	24100	50000
13	4	9.9	3900	2.9	300.6	IE4	**BK80Z-../S4E09SA4**	0.49	1.6	3.3	9.9	11.5	2550	3000	3900	3900	3900	341	30000	75000
13	4	8.9	4350	2.6	336.7	IE4	**BK80Z-../S4E09SA4**	0.44	1.4	2.9	8.9	10.5	2850	3350	4350	4350	4350	341	30000	75000
13	4	7.7	5000	2.3	389	IE4	**BK80Z-../S4E09SA4**	0.38	1.2	2.5	7.7	9.2	3300	3850	5000	5000	5000	341	30000	75000
13	4	6.8	5600	2	435.7	IE4	**BK80Z-../S4E09SA4**	0.34	1.1	2.2	6.8	8.2	3700	4350	5600	5600	5600	341	30000	75000
13	4	6	6400	1.8	499.5	IE4	**BK80Z-../S4E09SA4**	0.3	1	2	6	7.2	4200	4950	6400	6400	6400	341	30000	75000
13	4	5.3	7200	1.6	559.5	IE4	**BK80Z-../S4E09SA4**	0.26	0.85	1.7	5.3	6.4	4750	5500	7200	7200	7200	341	30000	75000
13	4	4.9	7900	1.5	607.8	IE4	**BK80G40-../S4E09SA4**	0.24	0.8	1.6	4.9	5.9	5100	6000	7900	7900	7900	352	30000	75000
13	4	4.4	8800	1.3	680.9	IE4	**BK80G40-../S4E09SA4**	0.22	0.7	1.4	4.4	5.2	5700	6800	8800	8800	8800	352	30000	75000
13	4	3.9	9800	1.2	756.3	IE4	**BK80G40-../S4E09SA4**	0.19	0.65	1.3	3.9	4.7	6400	7500	9800	9800	9800	352	30000	75000
13	4	3.5	11000	1	847.2	IE4	**BK80G40-../S4E09SA4**	0.17	0.55	1.1	3.5	4.2	7200	8400	11000	11000	11000	352	30000	75000
13	4	3.1	12500	0.92	963	IE4	**BK80G40-../S4E09SA4**	0.15	0.5	1	3.1	3.7	8100	9600	12500	12500	12500	352	30000	75000
13	4	2.7	14000	0.82	1079	IE4	**BK80G40-../S4E09SA4**	0.13	0.46	0.9	2.7	3.3	9100	10700	14000	14000	14000	352	30000	75000
13	4	6	6400	2.9	499.2	IE4	**BK90Z-../S4E09SA4**	0.3	1	2	6	7.2	4200	4950	6400	6400	6400	614	49400	120000
13	4	5.3	7200	2.5	558.5	IE4	**BK90Z-../S4E09SA4**	0.26	0.85	1.7	5.3	6.4	4700	5500	7200	7200	7200	614	49400	120000
13	4	4.7	8200	2.2	637.7	IE4	**BK90Z-../S4E09SA4**	0.23	0.75	1.5	4.7	5.6	5400	6300	8200	8200	8200	614	49400	120000
13	4	4.2	9200	2	713.5	IE4	**BK90Z-../S4E09SA4**	0.21	0.7	1.4	4.2	5	6000	7100	9200	9200	9200	614	49400	120000
13	4	3.6	10600	1.7	821	IE4	**BK90G50-../S4E09SA4**	0.18	0.6	1.2	3.6	4.3	6900	8200	10600	10600	10600	625	49400	120000
13	4	3.4	11400	1.6	882.3	IE4	**BK90G50-../S4E09SA4**	0.17	0.55	1.1	3.4	4	7400	8800	11400	11400	11400	625	49400	120000
13	4	2.9	13100	1.4	1008	IE4	**BK90G50-../S4E09SA4**	0.14	0.49	0.95	2.9	3.5	8500	10000	13100	13100	13100	625	49400	120000
13	4	2.6	14600	1.3	1127	IE4	**BK90G50-../S4E09SA4**	0.13	0.44	0.85	2.6	3.1	9500	11200	14600	14600	14600	625	49400	120000
13	4	2.2	17700	1	1363	IE4	**BK90G50-../S4E09SA4**	0.11	0.36	0.7	2.2	2.6	11500	13600	17700	17700	17700	625	49400	120000
13	4	1.8	20500	0.9	1579	IE4	**BK90G50-../S4E09SA4**	0.09	0.31	0.6	1.8	2.2	13400	15700	20500	20500	20500	625	49400	120000

BK-series bevel geared motors

Selection - bevel geared motors - n_1 = 3000 $^1/_{min}$

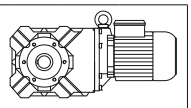
MN = 17.5 Nm (PN = 5.5 kW)



M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
17.5	5.5	670	71	1.3	4.44	IE5	**BK10-../S5E09XA4**	33.5	112	225	670	810	53	65	71	71	71	40	1900	-
17.5	5.5	495	96	1.1	6.02	IE5	**BK10-../S5E09XA4**	24.5	83	166	495	590	71	88	96	96	96	40	2100	-
17.5	5.5	390	123	0.93	7.68	IE5	**BK10-../S5E09XA4**	19.5	65	130	390	465	91	113	123	123	123	40	2400	-
17.5	5.5	280	168	1.1	10.7	IE5	**BK10-../S5E09XA4**	14	46.5	93	280	335	125	154	168	168	168	40	3500	-
17.5	5.5	205	225	0.88	14.5	IE5	**BK10-../S5E09XA4**	10	34	68	205	245	169	205	225	225	225	40	3900	-
17.5	5.5	660	73	2.7	4.54	IE5	**BK17-../S5E09XA4**	33	110	220	660	790	54	66	73	73	73	50	520	6100
17.5	5.5	495	96	2.2	6.02	IE5	**BK17-../S5E09XA4**	24.5	83	166	495	590	71	88	96	96	96	50	580	6800
17.5	5.5	375	127	1.8	7.91	IE5	**BK17-../S5E09XA4**	18.5	63	126	375	455	94	116	127	127	127	50	1330	7600
17.5	5.5	300	159	1.4	9.91	IE5	**BK17-../S5E09XA4**	15	50	100	300	360	118	145	159	159	159	50	1910	8300
17.5	5.5	265	175	1.7	11.14	IE5	**BK17-../S5E09XA4**	13	44.5	89	265	320	130	160	175	175	175	50	3300	8100
17.5	5.5	255	188	1.2	11.69	IE5	**BK17-../S5E09XA4**	12.5	42.5	85	255	305	139	172	188	188	188	50	2400	8800
17.5	5.5	200	230	1.4	14.75	IE5	**BK17-../S5E09XA4**	10	33.5	67	200	240	172	210	230	230	230	50	3650	9000
17.5	5.5	172	275	0.83	17.42	IE5	**BK17-../S5E09XA4**	8.6	28.5	57	172	205	205	250	275	275	275	50	3250	9000
17.5	5.5	154	305	1.1	19.39	IE5	**BK17-../S5E09XA4**	7.7	25.5	51	154	185	225	275	305	305	305	50	4050	9000
17.5	5.5	123	380	0.86	24.29	IE5	**BK17-../S5E09XA4**	6.1	20.5	41	123	148	280	345	380	380	380	50	4500	9000
17.5	5.5	660	73	2.7	4.54	IE5	**BK20-../S5E09XA4**	33	110	220	660	790	54	66	73	73	73	50	520	6100
17.5	5.5	495	96	2.2	6.02	IE5	**BK20-../S5E09XA4**	24.5	83	166	495	590	71	88	96	96	96	50	580	6800
17.5	5.5	375	127	1.8	7.91	IE5	**BK20-../S5E09XA4**	18.5	63	126	375	455	94	116	127	127	127	50	1330	7600
17.5	5.5	300	159	1.4	9.91	IE5	**BK20-../S5E09XA4**	15	50	100	300	360	118	145	159	159	159	50	1910	8300
17.5	5.5	265	175	1.7	11.14	IE5	**BK20-../S5E09XA4**	13	44.5	89	265	320	130	160	175	175	175	50	3300	8100
17.5	5.5	255	188	1.2	11.69	IE5	**BK20-../S5E09XA4**	12.5	42.5	85	255	305	139	172	188	188	188	50	2400	8800
17.5	5.5	200	230	1.4	14.75	IE5	**BK20-../S5E09XA4**	10	33.5	67	200	240	172	210	230	230	230	50	3650	9000
17.5	5.5	172	275	0.83	17.42	IE5	**BK20-../S5E09XA4**	8.6	28.5	57	172	205	205	250	275	275	275	50	3250	9000
17.5	5.5	154	305	1.1	19.39	IE5	**BK20-../S5E09XA4**	7.7	25.5	51	154	185	225	275	305	305	305	50	4050	9000
17.5	5.5	123	380	0.86	24.29	IE5	**BK20-../S5E09XA4**	6.1	20.5	41	123	148	280	345	380	380	380	50	4500	9000
17.5	5.5	630	76	2.5	4.73	IE4	**BK30-../S4E11SA6**	31.5	105	210	630	760	76	76	76	76	76	65	1550	8800
17.5	5.5	630	76	2.5	4.73	IE5	**BK30-../S5E09XA4**	31.5	105	210	630	760	56	69	76	76	76	56	1550	8800
17.5	5.5	495	96	2.2	6.02	IE4	**BK30-../S4E11SA6**	24.5	83	166	495	590	96	96	96	96	96	65	1690	9600
17.5	5.5	495	96	2.2	6.02	IE5	**BK30-../S5E09XA4**	24.5	83	166	495	590	71	88	96	96	96	56	1690	9600
17.5	5.5	400	119	2.2	7.45	IE4	**BK30-../S4E11SA6**	20	67	134	400	480	119	119	119	119	119	65	2200	10400
17.5	5.5	400	119	2.2	7.45	IE5	**BK30-../S5E09XA4**	20	67	134	400	480	89	109	119	119	119	56	2200	10400
17.5	5.5	310	155	2.1	9.63	IE4	**BK30-../S4E11SA6**	15.5	51	103	310	370	155	155	155	155	155	65	3150	11500
17.5	5.5	310	155	2.1	9.63	IE5	**BK30-../S5E09XA4**	15.5	51	103	310	370	115	141	155	155	155	56	3150	11500
17.5	5.5	260	179	2.3	11.39	IE4	**BK30-../S4E11SA6**	13	43.5	87	260	315	179	179	179	179	179	65	4150	11000
17.5	5.5	260	179	2.3	11.39	IE5	**BK30-../S5E09XA4**	13	43.5	87	260	315	133	164	179	179	179	56	4150	11000
17.5	5.5	250	192	1.7	11.93	IE4	**BK30-../S4E11SA6**	12.5	41.5	83	250	300	192	192	192	192	192	65	3650	12000
17.5	5.5	250	192	1.7	11.93	IE5	**BK30-../S5E09XA4**	12.5	41.5	83	250	300	142	175	192	192	192	56	3650	12000
17.5	5.5	210	220	1.4	13.98	IE4	**BK30-../S4E11SA6**	10.5	35.5	71	210	255	220	220	220	220	220	65	4050	12000
17.5	5.5	210	220	1.4	13.98	IE5	**BK30-../S5E09XA4**	10.5	35.5	71	210	255	165	200	220	220	220	56	4050	12000
17.5	5.5	205	225	2	14.5	IE4	**BK30-../S4E11SA6**	10	34	68	205	245	225	225	225	225	225	65	4900	12000
17.5	5.5	205	225	2	14.5	IE5	**BK30-../S5E09XA4**	10	34	68	205	245	169	205	225	225	225	56	4900	12000
17.5	5.5	167	280	1.6	17.95	IE4	**BK30-../S4E11SA6**	8.3	27.5	55	167	200	280	280	280	280	280	65	5300	12000
17.5	5.5	167	280	1.6	17.95	IE5	**BK30-../S5E09XA4**	8.3	27.5	55	167	200	210	255	280	280	280	56	5300	12000
17.5	5.5	143	330	0.96	20.85	IE5	**BK30-../S5E09XA4**	7.1	23.5	47.5	143	172	245	300	330	330	330	56	5000	12000
17.5	5.5	129	365	1.2	23.2	IE4	**BK30-../S4E11SA6**	6.4	21.5	43	129	155	365	365	365	365	365	65	5900	12000
17.5	5.5	129	365	1.2	23.2	IE5	**BK30-../S5E09XA4**	6.4	21.5	43	129	155	270	330	365	365	365	56	5900	12000
17.5	5.5	104	450	0.99	28.76	IE4	**BK30-../S4E11SA6**	5.2	17	34.5	104	125	450	450	450	450	450	65	6500	12000
17.5	5.5	104	450	0.99	28.76	IE5	**BK30-../S5E09XA4**	5.2	17	34.5	104	125	335	410	450	450	450	56	6500	12000
17.5	5.5	89	530	0.85	33.7	IE4	**BK30-../S4E11SA6**	4.4	14.5	29.5	89	106	530	530	530	530	530	65	7000	12000
17.5	5.5	89	530	0.85	33.7	IE5	**BK30-../S5E09XA4**	4.4	14.5	29.5	89	106	390	485	530	530	530	56	7000	12000
17.5	5.5	250	190	2.6	11.86	IE4	**BK40-../S4E11SA6**	12.5	42	84	250	300	190	190	190	190	190	90	1770	12200
17.5	5.5	250	190	2.6	11.86	IE5	**BK40-../S5E09XA4**	12.5	42	84	250	300	141	174	190	190	190	76	1770	12200
17.5	5.5	166	280	2.7	18.05	IE4	**BK40-../S4E11SA6**	8.3	27.5	55	166	199	280	280	280	280	280	90	4900	15300
17.5	5.5	166	280	2.7	18.05	IE5	**BK40-../S5E09XA4**	8.3	27.5	55	166	199	210	255	280	280	280	76	4900	15300
17.5	5.5	133	350	2.2	22.44	IE4	**BK40-../S4E11SA6**	6.6	22	44.5	133	160	350	350	350	350	350	90	5500	16500
17.5	5.5	133	350	2.2	22.44	IE5	**BK40-../S5E09XA4**	6.6	22	44.5	133	160	260	320	350	350	350	76	5500	16500
17.5	5.5	104	450	1.7	28.59	IE4	**BK40-../S4E11SA6**	5.2	17	34.5	104	125	450	450	450	450	450	90	6300	17000
17.5	5.5	104	450	1.7	28.59	IE5	**BK40-../S5E09XA4**	5.2	17	34.5	104	125	330	410	450	450	450	76	6300	17000
17.5	5.5	86	540	1.4	34.61	IE4	**BK40-../S4E11SA6**	4.3	14	28.5	86	104	540	540	540	540	540	90	6900	17000
17.5	5.5	86	540	1.4	34.61	IE5	**BK40-../S5E09XA4**	4.3	14	28.5	86	104	400	495	540	540	540	76	6900	17000
17.5	5.5	73	640	1.2	40.88	IE4	**BK40-../S4E11SA6**	3.6	12	24	73	88	640	640	640	640	640	90	7600	17000
17.5	5.5	73	640	1.2	40.88	IE5	**BK40-../S5E09XA4**	3.6	12	24	73	88	475	580	640	640	640	76	7600	17000
17.5	5.5	58	780	0.99	51.18	IE5	**BK40-../S5E09XA4**	2.9	9.7	19.5	58	70	580	720	780	780	780	76	8400	17000
17.5	5.5	50	910	0.85	59.66	IE5	**BK40-../S5E09XA4**	2.5	8.3	16.5	50	60	680	840	910	910	910	76	9100	17000
17.5	5.5	167	285	2.5	17.92	IE4	**BK50-../S4E11SA6**	8.3	27.5	55	167	200	285	285	285	285	285	120	4600	16800
17.5	5.5	167	285	2.5	17.92	IE5	**BK50-../S5E09XA4**	8.3	27.5	55	167	200	210	260	285	285	285	104	4600	16800
17.5	5.5	113	415	2.5	26.51	IE4	**BK50-../S4E11SA6**	5.6	18.5	37.5	113	135	415	415	415	415	415	120	7800	21200
17.5	5.5	113	415	2.5	26.51	IE5	**BK50-../S5E09XA4**	5.6	18.5	37.5	113	135	310	380	415	415	415	104	7800	21200
17.5	5.5	85	550	1.9	35.21	IE4	**BK50-../S4E11SA6**	4.2	14	28	85	102	550	550	550	550	550	120	8700	23100
17.5	5.5	85	550	1.9	35.21	IE5	**BK50-../S5E09XA4**	4.2	14	28	85	102	410	500	550	550	550	104	8700	23100
17.5	5.5	63	730	1.4	47.5	IE4	**BK50-../S4E11SA6**	3.1	10.5	21	63	75	730	730	730	730	730	120	10100	25700
17.5	5.5	63	730	1.4	47.5	IE5	**BK50-../S5E09XA4**	3.1	10.5	21	63	75	540	670	730	730	730	104	10100	25700
17.5	5.5	49	930	1.1	60.76	IE4	**BK50-../S4E11SA6**	2.4	8.2	16	49	59	930	930	930	930	930	120	11400	26000
17.5	5.5	49	930	1.1	60.76	IE5	**BK50-../S5E09XA4**	2.4	8.2	16	49	59	690	850	930	930	930	104	11400	26000
17.5	5.5	39.5	1140	0.91	75.4	IE4	**BK50-../S4E11SA6**	1.9	6.6	13	39.5	47.5	1140	1140	1140	1140	1140	120	12600	26000
17.5	5.5	39.5	1140	0.91	75.4	IE5	**BK50-../S5E09XA4**	1.9	6.6	13	39.5	47.5	850	1040	1140	1140	1140	104	12600	26000
17.5	5.5	66	780	2.9	45.05	IE4	**BK60-../S4E11SA6**	3.3	11	22	66	79	780	780	780	780	780	130	8200	28300

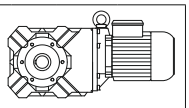
8

MN = 17.5 Nm (PN = 5.5 kW)



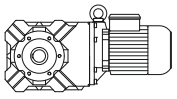
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
17.5	5.5	66	780	2.9	45.05	IE5	**BK60-../S5E09XA4**	3.3	11	22	66	79	580	720	780	780	780	113	8200	28300
17.5	5.5	59	880	2.6	50.4	IE4	**BK60-../S4E11SA6**	2.9	9.9	19.5	59	71	880	880	880	880	880	130	9100	29800
17.5	5.5	59	880	2.6	50.4	IE5	**BK60-../S5E09XA4**	2.9	9.9	19.5	59	71	650	800	880	880	880	113	9100	29800
17.5	5.5	50	1030	2.2	58.95	IE4	**BK60-../S4E11SA6**	2.5	8.4	16.5	50	61	1030	1030	1030	1030	1030	130	9900	31500
17.5	5.5	50	1030	2.2	58.95	IE5	**BK60-../S5E09XA4**	2.5	8.4	16.5	50	61	760	940	1030	1030	1030	113	9900	31500
17.5	5.5	45	1150	2	65.95	IE4	**BK60-../S4E11SA6**	2.2	7.5	15	45	54	1150	1150	1150	1150	1150	130	10900	33000
17.5	5.5	45	1150	2	65.95	IE5	**BK60-../S5E09XA4**	2.2	7.5	15	45	54	850	1050	1150	1150	1150	113	10900	33000
17.5	5.5	38	1360	1.7	78.13	IE4	**BK60-../S4E11SA6**	1.9	6.3	12.5	38	46	1360	1360	1360	1360	1360	130	11900	34000
17.5	5.5	38	1360	1.7	78.13	IE5	**BK60-../S5E09XA4**	1.9	6.3	12.5	38	46	1010	1250	1360	1360	1360	113	11900	34000
17.5	5.5	34	1520	1.5	87.41	IE4	**BK60-../S4E11SA6**	1.7	5.7	11	34	41	1520	1520	1520	1520	1520	130	12900	34000
17.5	5.5	34	1520	1.5	87.41	IE5	**BK60-../S5E09XA4**	1.7	5.7	11	34	41	1130	1390	1520	1520	1520	113	12900	34000
17.5	5.5	29.5	1770	1.3	101.2	IE4	**BK60-../S4E11SA6**	1.4	4.9	9.8	29.5	35.5	1770	1770	1770	1770	1770	130	13900	34000
17.5	5.5	29.5	1770	1.3	101.2	IE5	**BK60-../S5E09XA4**	1.4	4.9	9.8	29.5	35.5	1310	1610	1770	1770	1770	113	13900	34000
17.5	5.5	26.5	1980	1.2	113.2	IE4	**BK60-../S4E11SA6**	1.3	4.4	8.8	26.5	31.5	1980	1980	1980	1980	1980	130	15000	34000
17.5	5.5	26.5	1980	1.2	113.2	IE5	**BK60-../S5E09XA4**	1.3	4.4	8.8	26.5	31.5	1470	1810	1980	1980	1980	113	15000	34000
17.5	5.5	24	2100	1.1	122.5	IE4	**BK60-../S4E11SA6**	1.2	4	8.1	24	29	2100	2100	2100	2100	2100	130	15500	34000
17.5	5.5	24	2100	1.1	122.5	IE5	**BK60-../S5E09XA4**	1.2	4	8.1	24	29	1590	1960	2100	2100	2100	113	15500	34000
17.5	5.5	21.5	2350	0.96	137	IE4	**BK60-../S4E11SA6**	1	3.6	7.2	21.5	26	2350	2350	2350	2350	2350	130	16600	34000
17.5	5.5	21.5	2350	0.96	137	IE5	**BK60-../S5E09XA4**	1	3.6	7.2	21.5	26	1780	2150	2350	2350	2350	113	16600	34000
17.5	5.5	19.5	2650	0.86	153.7	IE4	**BK60Z-../S4E11SA6**	0.95	3.2	6.5	19.5	23	2650	2650	2650	2650	2650	146	16600	34000
17.5	5.5	19.5	2650	0.86	153.7	IE5	**BK60Z-../S5E09XA4**	0.95	3.2	6.5	19.5	23	1990	2450	2650	2650	2650	132	16600	34000
17.5	5.5	28.5	1810	2.9	103.5	IE4	**BK70-../S4E11SA6**	1.4	4.8	9.6	28.5	34.5	1810	1810	1810	1810	1810	209	17200	50000
17.5	5.5	28.5	1810	2.9	103.5	IE5	**BK70-../S5E09XA4**	1.4	4.8	9.6	28.5	34.5	1340	1650	1810	1810	1810	199	17200	50000
17.5	5.5	24.5	2100	2.5	120.2	IE4	**BK70-../S4E11SA6**	1.2	4.1	8.3	24.5	29.5	2100	2100	2100	2100	2100	209	18600	50000
17.5	5.5	24.5	2100	2.5	120.2	IE5	**BK70-../S5E09XA4**	1.2	4.1	8.3	24.5	29.5	1560	1920	2100	2100	2100	199	18600	50000
17.5	5.5	21.5	2350	2.2	136.7	IE4	**BK70-../S4E11SA6**	1	3.6	7.3	21.5	26	2350	2350	2350	2350	2350	209	20700	50000
17.5	5.5	21.5	2350	2.2	136.7	IE5	**BK70-../S5E09XA4**	1	3.6	7.3	21.5	26	1770	2150	2350	2350	2350	199	20700	50000
17.5	5.5	19	2700	1.9	154.4	IE4	**BK70-../S4E11SA6**	0.95	3.2	6.4	19	23	2700	2700	2700	2700	2700	209	21900	50000
17.5	5.5	19	2700	1.9	154.4	IE5	**BK70-../S5E09XA4**	0.95	3.2	6.4	19	23	2000	2450	2700	2700	2700	199	21900	50000
17.5	5.5	17	3050	1.7	175.7	IE4	**BK70-../S4E11SA6**	0.85	2.8	5.6	17	20	3050	3050	3050	3050	3050	209	24100	50000
17.5	5.5	17	3050	1.7	175.7	IE5	**BK70-../S5E09XA4**	0.85	2.8	5.6	17	20	2250	2800	3050	3050	3050	199	24100	50000
17.5	5.5	15.5	3300	1.6	190.4	IE4	**BK70Z-../S4E11SA6**	0.75	2.6	5.2	15.5	18.5	3300	3300	3300	3300	3300	236	24100	50000
17.5	5.5	15.5	3300	1.6	190.4	IE5	**BK70Z-../S5E09XA4**	0.75	2.6	5.2	15.5	18.5	2450	3000	3300	3300	3300	220	24100	50000
17.5	5.5	13	3950	1.3	226.2	IE4	**BK70Z-../S4E11SA6**	0.65	2.2	4.4	13	15.5	3950	3950	3950	3950	3950	236	24100	50000
17.5	5.5	13	3950	1.3	226.2	IE5	**BK70Z-../S5E09XA4**	0.65	2.2	4.4	13	15.5	2900	3600	3950	3950	3950	220	24100	50000
17.5	5.5	11.5	4500	1.2	257.3	IE4	**BK70Z-../S4E11SA6**	0.55	1.9	3.8	11.5	13.5	4500	4500	4500	4500	4500	236	24100	50000
17.5	5.5	11.5	4500	1.2	257.3	IE5	**BK70Z-../S5E09XA4**	0.55	1.9	3.8	11.5	13.5	3300	4100	4500	4500	4500	220	24100	50000
17.5	5.5	10	5100	1	293.3	IE4	**BK70Z-../S4E11SA6**	0.5	1.7	3.4	10	12	5100	5100	5100	5100	5100	236	24100	50000
17.5	5.5	10	5100	1	293.3	IE5	**BK70Z-../S5E09XA4**	0.5	1.7	3.4	10	12	3800	4650	5100	5100	5100	220	24100	50000
17.5	5.5	8.9	5800	0.89	333.6	IE4	**BK70Z-../S4E11SA6**	0.44	1.4	2.9	8.9	10.5	5800	5800	5800	5800	5800	236	24100	50000
17.5	5.5	8.9	5800	0.89	333.6	IE5	**BK70Z-../S5E09XA4**	0.44	1.4	2.9	8.9	10.5	4300	5300	5800	5800	5800	220	24100	50000
17.5	5.5	13	3950	2.9	226.1	IE4	**BK80Z-../S4E11SA6**	0.65	2.2	4.4	13	15.5	3950	3950	3950	3950	3950	366	30000	75000
17.5	5.5	13	3950	2.9	226.1	IE5	**BK80Z-../S5E09XA4**	0.65	2.2	4.4	13	15.5	2900	3600	3950	3950	3950	349	30000	75000
17.5	5.5	11.5	4400	2.6	253.3	IE4	**BK80Z-../S4E11SA6**	0.55	1.9	3.9	11.5	14	4400	4400	4400	4400	4400	366	30000	75000
17.5	5.5	11.5	4400	2.6	253.3	IE5	**BK80Z-../S5E09XA4**	0.55	1.9	3.9	11.5	14	3250	4050	4400	4400	4400	349	30000	75000
17.5	5.5	9.9	5200	2.2	300.6	IE4	**BK80Z-../S4E11SA6**	0.49	1.6	3.3	9.9	11.5	5200	5200	5200	5200	5200	366	30000	75000
17.5	5.5	9.9	5200	2.2	300.6	IE5	**BK80Z-../S5E09XA4**	0.49	1.6	3.3	9.9	11.5	3900	4800	5200	5200	5200	349	30000	75000
17.5	5.5	8.9	5800	2	336.7	IE4	**BK80Z-../S4E11SA6**	0.44	1.4	2.9	8.9	10.5	5800	5800	5800	5800	5800	366	30000	75000
17.5	5.5	8.9	5800	2	336.7	IE5	**BK80Z-../S5E09XA4**	0.44	1.4	2.9	8.9	10.5	4350	5300	5800	5800	5800	349	30000	75000
17.5	5.5	7.7	6800	1.7	389	IE4	**BK80Z-../S4E11SA6**	0.38	1.2	2.5	7.7	9.2	6800	6800	6800	6800	6800	366	30000	75000
17.5	5.5	7.7	6800	1.7	389	IE5	**BK80Z-../S5E09XA4**	0.38	1.2	2.5	7.7	9.2	5000	6200	6800	6800	6800	349	30000	75000
17.5	5.5	6.8	7600	1.5	435.7	IE4	**BK80Z-../S4E11SA6**	0.34	1.1	2.2	6.8	8.2	7600	7600	7600	7600	7600	366	30000	75000
17.5	5.5	6.8	7600	1.5	435.7	IE5	**BK80Z-../S5E09XA4**	0.34	1.1	2.2	6.8	8.2	5600	6900	7600	7600	7600	349	30000	75000
17.5	5.5	6	8700	1.3	499.5	IE4	**BK80Z-../S4E11SA6**	0.3	1	2	6	7.2	8700	8700	8700	8700	8700	366	30000	75000
17.5	5.5	6	8700	1.3	499.5	IE5	**BK80Z-../S5E09XA4**	0.3	1	2	6	7.2	6400	7900	8700	8700	8700	349	30000	75000
17.5	5.5	5.3	9700	1.2	559.5	IE4	**BK80Z-../S4E11SA6**	0.26	0.85	1.7	5.3	6.4	9700	9700	9700	9700	9700	366	30000	75000
17.5	5.5	5.3	9700	1.2	559.5	IE5	**BK80Z-../S5E09XA4**	0.26	0.85	1.7	5.3	6.4	7200	8900	9700	9700	9700	349	30000	75000
17.5	5.5	4.9	10600	1.1	607.8	IE4	**BK80G40-../S4E11SA6**	0.24	0.8	1.6	4.9	5.9	10600	10600	10600	10600	10600	374	30000	75000
17.5	5.5	4.9	10600	1.1	607.8	IE5	**BK80G40-../S5E09XA4**	0.24	0.8	1.6	4.9	5.9	7900	9700	10600	10600	10600	360	30000	75000
17.5	5.5	4.4	11900	0.97	680.9	IE4	**BK80G40-../S4E11SA6**	0.22	0.7	1.4	4.4	5.2	11900	11900	11900	11900	11900	374	30000	75000
17.5	5.5	4.4	11900	0.97	680.9	IE5	**BK80G40-../S5E09XA4**	0.22	0.7	1.4	4.4	5.2	8800	10800	11900	11900	11900	360	30000	75000
17.5	5.5	3.9	13200	0.87	756.3	IE4	**BK80G40-../S4E11SA6**	0.19	0.65	1.3	3.9	4.7	13200	13200	13200	13200	13200	374	30000	75000
17.5	5.5	3.9	13200	0.87	756.3	IE5	**BK80G40-../S5E09XA4**	0.19	0.65	1.3	3.9	4.7	9800	12100	13200	13200	13200	360	30000	75000
17.5	5.5	7.7	6800	2.7	389.1	IE4	**BK90Z-../S4E11SA6**	0.38	1.2	2.5	7.7	9.2	6800	6800	6800	6800	6800	632	49400	120000
17.5	5.5	7.7	6800	2.7	389.1	IE5	**BK90Z-../S5E09XA4**	0.38	1.2	2.5	7.7	9.2	5000	6200	6800	6800	6800	622	49400	120000
17.5	5.5	6.8	7600	2.4	435.3	IE4	**BK90Z-../S4E11SA6**	0.34	1.1	2.2	6.8	8.2	7600	7600	7600	7600	7600	632	49400	120000
17.5	5.5	6.8	7600	2.4	435.3	IE5	**BK90Z-../S5E09XA4**	0.34	1.1	2.2	6.8	8.2	5600	6900	7600	7600	7600	622	49400	120000
17.5	5.5	6	8700	2.1	499.2	IE4	**BK90Z-../S4E11SA6**	0.3	1	2	6	7.2	8700	8700	8700	8700	8700	632	49400	120000
17.5	5.5	6	8700	2.1	499.2	IE5	**BK90Z-../S5E09XA4**	0.3	1	2	6	7.2	6400	7900	8700	8700	8700	622	49400	120000
17.5	5.5	5.3	9700	1.9	558.5	IE4	**BK90Z-../S4E11SA6**	0.26	0.85	1.7	5.3	6.4	9700	9700	9700	9700	9700	632	49400	120000
17.5	5.5	5.3	9700	1.9	558.5	IE5	**BK90Z-../S5E09XA4**	0.26	0.85	1.7	5.3	6.4	7200	8900	9700	9700	9700	622	49400	120000
17.5	5.5	4.7	11100	1.7	637.7	IE4	**BK90Z-../S4E11SA6**	0.23	0.75	1.5	4.7	5.6	11100	11100	11100	11100	11100	632	49400	120000
17.5	5.5	4.7	11100	1.7	637.7	IE5	**BK90Z-../S5E09XA4**	0.23	0.75	1.5	4.7	5.6	8200	10200	11100	11100	11100	622	49400	120000
17.5	5.5	4.2	12400	1.5	713.5	IE4	**BK90Z-../S4E11SA6**	0.21	0.7	1.4	4.2	5	12400	12400	12400	12400	12400	632	49400	120000
17.5	5.5	4.2	12400	1.5	713.5	IE5	**BK90Z-../S5E09XA4**	0.21	0.7	1.4	4.2	5	9200	11400	12400	12400	12400	622	49400	120000
17.5	5.5	3.6	14300	1.3	821	IE4	**BK90G50-../S4E11SA6**	0.18	0.6	1.2	3.6	4.3	14300	14300	14300	14300	14300	648	49400	120000
17.5	5.5	3.6	14300	1.3	821	IE5	**BK90G50-../S5E09XA4**	0.18	0.6	1.2	3.6	4.3	10600	13100	14300	14300	14300	633	49400	120000
17.5	5.5	3.4	15400	1.2	882.3	IE4	**BK90G50-../S4E11SA6**	0.17	0.55	1.1	3.4	4	15400	15400	15400	15400	15400	648	49400	120000
17.5	5.5	3.4	15400	1.2	882.3	IE5	**BK90G50-../S5E09XA4**	0.17	0.55	1.1	3.4	4	11400	14100	15400	15400	15400	633	49400	120000
17.5	5.5	2.9	17600	1	1008	IE4	**BK90G50-../S4E11SA6**	0.14	0.49	0.95	2.9	3.5	17600	17600	17600	17600	17600	648	49400	120000

MN = 17.5 Nm (PN = 5.5 kW)



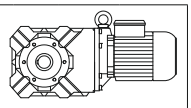
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
17.5	5.5	2.9	17600	1	1008	IE5	**BK90G50-../S5E09XA4**	0.14	0.49	0.95	2.9	3.5	13100	16100	17600	17600	17600	633	49400	120000
17.5	5.5	2.6	19700	0.94	1127	IE4	**BK90G50-../S4E11SA6**	0.13	0.44	0.85	2.6	3.1	19700	19700	19700	19700	19700	648	49400	120000
17.5	5.5	2.6	19700	0.94	1127	IE5	**BK90G50-../S5E09XA4**	0.13	0.44	0.85	2.6	3.1	14600	18000	19700	19700	19700	633	49400	120000

MN = 20 Nm (PN = 6.3 kW)



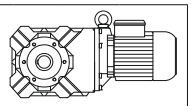
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
20	6.3	670	81	1.2	4.44	IE5	**BK10-../S5E09XA4**	33.5	112	225	670	810	53	65	81	81	71	40	1900	-
20	6.3	495	110	0.95	6.02	IE5	**BK10-../S5E09XA4**	24.5	83	166	495	590	71	88	110	110	96	40	2100	-
20	6.3	390	141	0.81	7.68	IE5	**BK10-../S5E09XA4**	19.5	65	130	390	465	91	113	141	141	123	40	2400	-
20	6.3	280	192	0.94	10.7	IE5	**BK10-../S5E09XA4**	14	46.5	93	280	335	125	154	192	192	168	40	3500	-
20	6.3	660	83	2.3	4.54	IE5	**BK17-../S5E09XA4**	33	110	220	660	790	54	66	83	83	73	50	520	6100
20	6.3	495	110	1.9	6.02	IE5	**BK17-../S5E09XA4**	24.5	83	166	495	590	71	88	110	110	96	50	580	6800
20	6.3	375	145	1.6	7.91	IE5	**BK17-../S5E09XA4**	18.5	63	126	375	455	94	116	145	145	127	50	1330	7600
20	6.3	300	182	1.3	9.91	IE5	**BK17-../S5E09XA4**	15	50	100	300	360	118	145	182	182	159	50	1910	8300
20	6.3	265	200	1.5	11.14	IE5	**BK17-../S5E09XA4**	13	44.5	89	265	320	130	160	200	200	175	50	3300	8100
20	6.3	255	215	1.1	11.69	IE5	**BK17-../S5E09XA4**	12.5	42.5	85	255	305	139	172	215	215	188	50	2400	8800
20	6.3	200	265	1.2	14.75	IE5	**BK17-../S5E09XA4**	10	33.5	67	200	240	172	210	265	265	230	50	3650	9000
20	6.3	154	345	0.95	19.39	IE5	**BK17-../S5E09XA4**	7.7	25.5	51	154	185	225	275	345	345	305	50	4050	9000
20	6.3	660	83	2.3	4.54	IE5	**BK20-../S5E09XA4**	33	110	220	660	790	54	66	83	83	73	50	520	6100
20	6.3	495	110	1.9	6.02	IE5	**BK20-../S5E09XA4**	24.5	83	166	495	590	71	88	110	110	96	50	580	6800
20	6.3	375	145	1.6	7.91	IE5	**BK20-../S5E09XA4**	18.5	63	126	375	455	94	116	145	145	127	50	1330	7600
20	6.3	300	182	1.3	9.91	IE5	**BK20-../S5E09XA4**	15	50	100	300	360	118	145	182	182	159	50	1910	8300
20	6.3	265	200	1.5	11.14	IE5	**BK20-../S5E09XA4**	13	44.5	89	265	320	130	160	200	200	175	50	3300	8100
20	6.3	255	215	1.1	11.69	IE5	**BK20-../S5E09XA4**	12.5	42.5	85	255	305	139	172	215	215	188	50	2400	8800
20	6.3	200	265	1.2	14.75	IE5	**BK20-../S5E09XA4**	10	33.5	67	200	240	172	210	265	265	230	50	3650	9000
20	6.3	154	345	0.95	19.39	IE5	**BK20-../S5E09XA4**	7.7	25.5	51	154	185	225	275	345	345	305	50	4050	9000
20	6.3	630	87	2.2	4.73	IE5	**BK30-../S5E09XA4**	31.5	105	210	630	760	56	69	87	87	76	56	1550	8800
20	6.3	495	110	1.9	6.02	IE5	**BK30-../S5E09XA4**	24.5	83	166	495	590	71	88	110	110	96	56	1690	9600
20	6.3	400	137	1.9	7.45	IE5	**BK30-../S5E09XA4**	20	67	134	400	480	89	109	137	137	119	56	2200	10400
20	6.3	310	177	1.8	9.63	IE5	**BK30-../S5E09XA4**	15.5	51	103	310	370	115	141	177	177	155	56	3150	11500
20	6.3	260	205	2	11.39	IE5	**BK30-../S5E09XA4**	13	43.5	87	260	315	133	164	205	205	179	56	4150	11000
20	6.3	250	215	1.5	11.93	IE5	**BK30-../S5E09XA4**	12.5	41.5	83	250	300	142	175	215	215	192	56	3650	12000
20	6.3	210	250	1.3	13.98	IE5	**BK30-../S5E09XA4**	10.5	35.5	71	210	255	165	200	250	250	220	56	4050	12000
20	6.3	205	260	1.7	14.5	IE5	**BK30-../S5E09XA4**	10	34	68	205	245	169	205	260	260	225	56	4900	12000
20	6.3	167	320	1.4	17.95	IE5	**BK30-../S5E09XA4**	8.3	27.5	55	167	200	210	255	320	320	280	56	5300	12000
20	6.3	143	375	0.84	20.85	IE5	**BK30-../S5E09XA4**	7.1	23.5	47.5	143	172	245	300	375	375	330	56	5000	12000
20	6.3	129	415	1.1	23.2	IE5	**BK30-../S5E09XA4**	6.4	21.5	43	129	155	270	330	415	415	365	56	5900	12000
20	6.3	104	510	0.87	28.76	IE5	**BK30-../S5E09XA4**	5.2	17	34.5	104	125	335	410	510	510	450	56	6500	12000
20	6.3	320	171	2.9	9.31	IE5	**BK40-../S5E09XA4**	16	53	107	320	385	111	137	171	171	149	76	1040	11200
20	6.3	250	215	2.2	11.86	IE5	**BK40-../S5E09XA4**	12.5	42	84	250	300	141	174	215	215	190	76	1770	12200
20	6.3	205	260	3	14.5	IE5	**BK40-../S5E09XA4**	10	34	68	205	245	169	205	260	260	225	76	4500	14300
20	6.3	166	320	2.4	18.05	IE5	**BK40-../S5E09XA4**	8.3	27.5	55	166	199	210	255	320	320	280	76	4900	15300
20	6.3	133	400	1.9	22.44	IE5	**BK40-../S5E09XA4**	6.6	22	44.5	133	160	260	320	400	400	350	76	5500	16500
20	6.3	104	510	1.5	28.59	IE5	**BK40-../S5E09XA4**	5.2	17	34.5	104	125	330	410	510	510	450	76	6300	17000
20	6.3	86	620	1.3	34.61	IE5	**BK40-../S5E09XA4**	4.3	14	28.5	86	104	400	495	620	620	540	76	6900	17000
20	6.3	73	730	1.1	40.88	IE5	**BK40-../S5E09XA4**	3.6	12	24	73	88	475	580	730	730	640	76	7600	17000
20	6.3	58	900	0.87	51.18	IE5	**BK40-../S5E09XA4**	2.9	9.7	19.5	58	70	580	720	900	900	780	76	8400	17000
20	6.3	167	325	2.2	17.92	IE5	**BK50-../S5E09XA4**	8.3	27.5	55	167	200	210	260	325	325	285	104	4600	16800
20	6.3	155	345	3	19.33	IE5	**BK50-../S5E09XA4**	7.7	25.5	51	155	186	225	275	345	345	300	104	6900	19200
20	6.3	113	475	2.2	26.51	IE5	**BK50-../S5E09XA4**	5.6	18.5	37.5	113	135	310	380	475	475	415	104	7800	21200
20	6.3	85	630	1.7	35.21	IE5	**BK50-../S5E09XA4**	4.2	14	28	85	102	410	500	630	630	550	104	8700	23100
20	6.3	63	840	1.2	47.5	IE5	**BK50-../S5E09XA4**	3.1	10.5	21	63	75	540	670	840	840	730	104	10100	25700
20	6.3	49	1060	0.98	60.76	IE5	**BK50-../S5E09XA4**	2.4	8.2	16	49	59	690	850	1060	1060	930	104	11400	26000
20	6.3	39.5	1310	0.8	75.4	IE5	**BK50-../S5E09XA4**	1.9	6.6	13	39.5	47.5	850	1040	1310	1310	1140	104	12600	26000
20	6.3	79	750	3	37.8	IE5	**BK60-../S5E09XA4**	3.9	13	26	79	95	490	600	750	750	660	113	7300	26500
20	6.3	66	900	2.6	45.05	IE5	**BK60-../S5E09XA4**	3.3	11	22	66	79	580	720	900	900	780	113	8200	28300
20	6.3	59	1000	2.3	50.4	IE5	**BK60-../S5E09XA4**	2.9	9.9	19.5	59	71	650	800	1000	1000	880	113	9100	29800
20	6.3	50	1170	2	58.95	IE5	**BK60-../S5E09XA4**	2.5	8.4	16.5	50	61	760	940	1170	1170	1030	113	9900	31500
20	6.3	45	1310	1.7	65.95	IE5	**BK60-../S5E09XA4**	2.2	7.5	15	45	54	850	1050	1310	1310	1150	113	10900	33000
20	6.3	38	1560	1.5	78.13	IE5	**BK60-../S5E09XA4**	1.9	6.3	12.5	38	46	1010	1250	1560	1560	1360	113	11900	34000
20	6.3	34	1740	1.3	87.41	IE5	**BK60-../S5E09XA4**	1.7	5.7	11	34	41	1130	1390	1740	1740	1520	113	12900	34000
20	6.3	29.5	2000	1.1	101.2	IE5	**BK60-../S5E09XA4**	1.4	4.9	9.8	29.5	35.5	1310	1610	2000	2000	1770	113	13900	34000
20	6.3	26.5	2250	1	113.2	IE5	**BK60-../S5E09XA4**	1.3	4.4	8.8	26.5	31.5	1470	1810	2250	2250	1980	113	15000	34000
20	6.3	24	2450	0.94	122.5	IE5	**BK60-../S5E09XA4**	1.2	4	8.1	24	29	1590	1960	2450	2450	2100	113	15500	34000
20	6.3	21.5	2700	0.84	137	IE5	**BK60-../S5E09XA4**	1	3.6	7.2	21.5	26	1780	2150	2700	2700	2350	113	16600	34000
20	6.3	32.5	1810	2.9	90.96	IE5	**BK70-../S5E09XA4**	1.6	5.4	10.5	32.5	39.5	1180	1450	1810	1810	1590	199	15300	49900
20	6.3	28.5	2050	2.5	103.5	IE5	**BK70-../S5E09XA4**	1.4	4.8	9.6	28.5	34.5	1340	1650	2050	2050	1810	199	17200	50000
20	6.3	24.5	2400	2.2	120.2	IE5	**BK70-../S5E09XA4**	1.2	4.1	8.3	24.5	29.5	1560	1920	2400	2400	2100	199	18600	50000

MN = 20 Nm (PN = 6.3 kW)



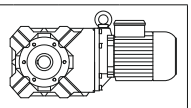
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
20	6.3	21.5	2700	1.9	136.7	IE5	**BK70-../S5E09XA4**	1	3.6	7.3	21.5	26	1770	2150	2700	2700	2350	199	20700	50000
20	6.3	19	3050	1.7	154.4	IE5	**BK70-../S5E09XA4**	0.95	3.2	6.4	19	23	2000	2450	3050	3050	2700	199	21900	50000
20	6.3	17	3500	1.5	175.7	IE5	**BK70-../S5E09XA4**	0.85	2.8	5.6	17	20	2250	2800	3500	3500	3050	199	24100	50000
20	6.3	15.5	3800	1.4	190.4	IE5	**BK70Z-../S5E09XA4**	0.75	2.6	5.2	15.5	18.5	2450	3000	3800	3800	3300	220	24100	50000
20	6.3	13	4500	1.1	226.2	IE5	**BK70Z-../S5E09XA4**	0.65	2.2	4.4	13	15.5	2900	3600	4500	4500	3950	220	24100	50000
20	6.3	11.5	5100	1	257.3	IE5	**BK70Z-../S5E09XA4**	0.55	1.9	3.8	11.5	13.5	3300	4100	5100	5100	4500	220	24100	50000
20	6.3	10	5800	0.89	293.3	IE5	**BK70Z-../S5E09XA4**	0.5	1.7	3.4	10	12	3800	4650	5800	5800	5100	220	24100	50000
20	6.3	15	3950	2.9	198.9	IE5	**BK80Z-../S5E09XA4**	0.75	2.5	5	15	18	2550	3150	3950	3950	3450	349	30000	75000
20	6.3	13	4500	2.5	226.1	IE5	**BK80Z-../S5E09XA4**	0.65	2.2	4.4	13	15.5	2900	3600	4500	4500	3950	349	30000	75000
20	6.3	11.5	5000	2.3	253.3	IE5	**BK80Z-../S5E09XA4**	0.55	1.9	3.9	11.5	14	3250	4050	5000	5000	4400	349	30000	75000
20	6.3	9.9	6000	1.9	300.6	IE5	**BK80Z-../S5E09XA4**	0.49	1.6	3.3	9.9	11.5	3900	4800	6000	6000	5200	349	30000	75000
20	6.3	8.9	6700	1.7	336.7	IE5	**BK80Z-../S5E09XA4**	0.44	1.4	2.9	8.9	10.5	4350	5300	6700	6700	5800	349	30000	75000
20	6.3	7.7	7700	1.5	389	IE5	**BK80Z-../S5E09XA4**	0.38	1.2	2.5	7.7	9.2	5000	6200	7700	7700	6800	349	30000	75000
20	6.3	6.8	8700	1.3	435.7	IE5	**BK80Z-../S5E09XA4**	0.34	1.1	2.2	6.8	8.2	5600	6900	8700	8700	7600	349	30000	75000
20	6.3	6	9900	1.2	499.5	IE5	**BK80Z-../S5E09XA4**	0.3	1	2	6	7.2	6400	7900	9900	9900	8700	349	30000	75000
20	6.3	5.3	11100	1	559.5	IE5	**BK80Z-../S5E09XA4**	0.26	0.85	1.7	5.3	6.4	7200	8900	11100	11100	9700	349	30000	75000
20	6.3	4.9	12100	0.95	607.8	IE5	**BK80G40-../S5E09XA4**	0.24	0.8	1.6	4.9	5.9	7900	9700	12100	12100	10600	360	30000	75000
20	6.3	4.4	13600	0.84	680.9	IE5	**BK80G40-../S5E09XA4**	0.22	0.7	1.4	4.4	5.2	8800	10800	13600	13600	11900	360	30000	75000
20	6.3	9	6600	2.8	330.7	IE5	**BK90Z-../S5E09XA4**	0.45	1.5	3	9	10.5	4250	5200	6600	6600	5700	622	49400	120000
20	6.3	7.7	7700	2.4	389.1	IE5	**BK90Z-../S5E09XA4**	0.38	1.2	2.5	7.7	9.2	5000	6200	7700	7700	6800	622	49400	120000
20	6.3	6.8	8700	2.1	435.3	IE5	**BK90Z-../S5E09XA4**	0.34	1.1	2.2	6.8	8.2	5600	6900	8700	8700	7600	622	49400	120000
20	6.3	6	9900	1.9	499.2	IE5	**BK90Z-../S5E09XA4**	0.3	1	2	6	7.2	6400	7900	9900	9900	8700	622	49400	120000
20	6.3	5.3	11100	1.7	558.5	IE5	**BK90Z-../S5E09XA4**	0.26	0.85	1.7	5.3	6.4	7200	8900	11100	11100	9700	622	49400	120000
20	6.3	4.7	12700	1.5	637.7	IE5	**BK90Z-../S5E09XA4**	0.23	0.75	1.5	4.7	5.6	8200	10200	12700	12700	11100	622	49400	120000
20	6.3	4.2	14200	1.3	713.5	IE5	**BK90Z-../S5E09XA4**	0.21	0.7	1.4	4.2	5	9200	11400	14200	14200	12400	622	49400	120000
20	6.3	3.6	16400	1.1	821	IE5	**BK90G50-../S5E09XA4**	0.18	0.6	1.2	3.6	4.3	10600	13100	16400	16400	14300	633	49400	120000
20	6.3	3.4	17600	1	882.3	IE5	**BK90G50-../S5E09XA4**	0.17	0.55	1.1	3.4	4	11400	14100	17600	17600	15400	633	49400	120000
20	6.3	2.9	20000	0.92	1008	IE5	**BK90G50-../S5E09XA4**	0.14	0.49	0.95	2.9	3.5	13100	16100	20000	20000	17600	633	49400	120000
20	6.3	2.6	22500	0.82	1127	IE5	**BK90G50-../S5E09XA4**	0.13	0.44	0.85	2.6	3.1	14600	18000	22500	22500	19700	633	49400	120000

MN = 24 Nm (PN = 7.5 kW)



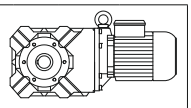
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
24	7.5	630	104	1.9	4.73	IE4	**BK30-../S4E11SA6**	31.5	105	210	630	760	82	93	104	104	104	65	1550	8800
24	7.5	630	104	1.9	4.73	IE5	**BK30-../S5E11MA6**	31.5	105	210	630	760	104	104	104	104	104	65	1550	8800
24	7.5	495	132	1.6	6.02	IE4	**BK30-../S4E11SA6**	24.5	83	166	495	590	105	119	132	132	132	65	1690	9600
24	7.5	495	132	1.6	6.02	IE5	**BK30-../S5E11MA6**	24.5	83	166	495	590	132	132	132	132	132	65	1690	9600
24	7.5	400	164	1.6	7.45	IE4	**BK30-../S4E11SA6**	20	67	134	400	480	130	147	164	164	164	65	2200	10400
24	7.5	400	164	1.6	7.45	IE5	**BK30-../S5E11MA6**	20	67	134	400	480	164	164	164	164	164	65	2200	10400
24	7.5	310	210	1.5	9.63	IE4	**BK30-../S4E11SA6**	15.5	51	103	310	370	168	190	210	210	210	65	3150	11500
24	7.5	310	210	1.5	9.63	IE5	**BK30-../S5E11MA6**	15.5	51	103	310	370	210	210	210	210	210	65	3150	11500
24	7.5	260	245	1.7	11.39	IE4	**BK30-../S4E11SA6**	13	43.5	87	260	315	194	220	245	245	245	65	4150	11000
24	7.5	260	245	1.7	11.39	IE5	**BK30-../S5E11MA6**	13	43.5	87	260	315	245	245	245	245	245	65	4150	11000
24	7.5	250	260	1.2	11.93	IE4	**BK30-../S4E11SA6**	12.5	41.5	83	250	300	205	235	260	260	260	65	3650	12000
24	7.5	250	260	1.2	11.93	IE5	**BK30-../S5E11MA6**	12.5	41.5	83	250	300	260	260	260	260	260	65	3650	12000
24	7.5	210	305	1	13.98	IE4	**BK30-../S4E11SA6**	10.5	35.5	71	210	255	240	270	305	305	305	65	4050	12000
24	7.5	210	305	1	13.98	IE5	**BK30-../S5E11MA6**	10.5	35.5	71	210	255	305	305	305	305	305	65	4050	12000
24	7.5	205	310	1.4	14.5	IE4	**BK30-../S4E11SA6**	10	34	68	205	245	245	280	310	310	310	65	4900	12000
24	7.5	205	310	1.4	14.5	IE5	**BK30-../S5E11MA6**	10	34	68	205	245	310	310	310	310	310	65	4900	12000
24	7.5	167	385	1.2	17.95	IE4	**BK30-../S4E11SA6**	8.3	27.5	55	167	200	305	345	385	385	385	65	5300	12000
24	7.5	167	385	1.2	17.95	IE5	**BK30-../S5E11MA6**	8.3	27.5	55	167	200	385	385	385	385	385	65	5300	12000
24	7.5	129	500	0.9	23.2	IE4	**BK30-../S4E11SA6**	6.4	21.5	43	129	155	395	445	500	500	500	65	5900	12000
24	7.5	129	500	0.9	23.2	IE5	**BK30-../S5E11MA6**	6.4	21.5	43	129	155	500	500	500	500	500	65	5900	12000
24	7.5	400	165	3	7.49	IE4	**BK40-../S4E11SA6**	20	66	133	400	480	130	148	165	165	165	90	750	10500
24	7.5	400	165	3	7.49	IE5	**BK40-../S5E11MA6**	20	66	133	400	480	165	165	165	165	165	90	750	10500
24	7.5	320	205	2.4	9.31	IE4	**BK40-../S4E11SA6**	16	53	107	320	385	162	184	205	205	205	90	1040	11200
24	7.5	320	205	2.4	9.31	IE5	**BK40-../S5E11MA6**	16	53	107	320	385	205	205	205	205	205	90	1040	11200
24	7.5	265	240	3	11.17	IE4	**BK40-../S4E11SA6**	13	44.5	89	265	320	191	215	240	240	240	90	4100	13100
24	7.5	265	240	3	11.17	IE5	**BK40-../S5E11MA6**	13	44.5	89	265	320	240	240	240	240	240	90	4100	13100
24	7.5	250	260	1.9	11.86	IE4	**BK40-../S4E11SA6**	12.5	42	84	250	300	205	230	260	260	260	90	1770	12200
24	7.5	250	260	1.9	11.86	IE5	**BK40-../S5E11MA6**	12.5	42	84	250	300	260	260	260	260	260	90	1770	12200
24	7.5	205	310	2.5	14.5	IE4	**BK40-../S4E11SA6**	10	34	68	205	245	245	280	310	310	310	90	4500	14300
24	7.5	205	310	2.5	14.5	IE5	**BK40-../S5E11MA6**	10	34	68	205	245	310	310	310	310	310	90	4500	14300
24	7.5	166	385	2	18.05	IE4	**BK40-../S4E11SA6**	8.3	27.5	55	166	199	305	345	385	385	385	90	4900	15300
24	7.5	166	385	2	18.05	IE5	**BK40-../S5E11MA6**	8.3	27.5	55	166	199	385	385	385	385	385	90	4900	15300
24	7.5	133	480	1.6	22.44	IE4	**BK40-../S4E11SA6**	6.6	22	44.5	133	160	380	430	480	480	480	90	5500	16500
24	7.5	133	480	1.6	22.44	IE5	**BK40-../S5E11MA6**	6.6	22	44.5	133	160	480	480	480	480	480	90	5500	16500
24	7.5	104	610	1.3	28.59	IE4	**BK40-../S4E11SA6**	5.2	17	34.5	104	125	485	550	610	610	610	90	6300	17000
24	7.5	104	610	1.3	28.59	IE5	**BK40-../S5E11MA6**	5.2	17	34.5	104	125	610	610	610	610	610	90	6300	17000
24	7.5	86	740	1	34.61	IE4	**BK40-../S4E11SA6**	4.3	14	28.5	86	104	590	660	740	740	740	90	6900	17000
24	7.5	86	740	1	34.61	IE5	**BK40-../S5E11MA6**	4.3	14	28.5	86	104	740	740	740	740	740	90	6900	17000
24	7.5	73	880	0.88	40.88	IE4	**BK40-../S4E11SA6**	3.6	12	24	73	88	690	790	880	880	880	90	7600	17000
24	7.5	73	880	0.88	40.88	IE5	**BK40-../S5E11MA6**	3.6	12	24	73	88	880	880	880	880	880	90	7600	17000

MN = 24 Nm (PN = 7.5 kW)



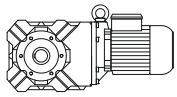
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
24	7.5	167	390	1.8	17.92	IE4	**BK50-../S4E11SA6**	8.3	27.5	55	167	200	305	350	390	390	390	120	4600	16800
24	7.5	167	390	1.8	17.92	IE5	**BK50-../S5E11MA6**	8.3	27.5	55	167	200	390	390	390	390	390	120	4600	16800
24	7.5	155	415	2.5	19.33	IE4	**BK50-../S4E11SA6**	7.7	25.5	51	155	186	330	370	415	415	415	120	6900	19200
24	7.5	155	415	2.5	19.33	IE5	**BK50-../S5E11MA6**	7.7	25.5	51	155	186	415	415	415	415	415	120	6900	19200
24	7.5	113	570	1.8	26.51	IE4	**BK50-../S4E11SA6**	5.6	18.5	37.5	113	135	450	510	570	570	570	120	7800	21200
24	7.5	113	570	1.8	26.51	IE5	**BK50-../S5E11MA6**	5.6	18.5	37.5	113	135	570	570	570	570	570	120	7800	21200
24	7.5	85	760	1.4	35.21	IE4	**BK50-../S4E11SA6**	4.2	14	28	85	102	600	680	760	760	760	120	8700	23100
24	7.5	85	760	1.4	35.21	IE5	**BK50-../S5E11MA6**	4.2	14	28	85	102	760	760	760	760	760	120	8700	23100
24	7.5	63	1010	1	47.5	IE4	**BK50-../S4E11SA6**	3.1	10.5	21	63	75	800	900	1010	1010	1010	120	10100	25700
24	7.5	63	1010	1	47.5	IE5	**BK50-../S5E11MA6**	3.1	10.5	21	63	75	1010	1010	1010	1010	1010	120	10100	25700
24	7.5	49	1280	0.82	60.76	IE4	**BK50-../S4E11SA6**	2.4	8.2	16	49	59	1010	1140	1280	1280	1280	120	11400	26000
24	7.5	49	1280	0.82	60.76	IE5	**BK50-../S5E11MA6**	2.4	8.2	16	49	59	1280	1280	1280	1280	1280	120	11400	26000
24	7.5	88	810	2.8	33.78	IE4	**BK60-../S4E11SA6**	4.4	14.5	29.5	88	106	640	720	810	810	810	130	6500	25200
24	7.5	88	810	2.8	33.78	IE5	**BK60-../S5E11MA6**	4.4	14.5	29.5	88	106	810	810	810	810	810	130	6500	25200
24	7.5	79	900	2.5	37.8	IE4	**BK60-../S4E11SA6**	3.9	13	26	79	95	710	810	900	900	900	130	7300	26500
24	7.5	79	900	2.5	37.8	IE5	**BK60-../S5E11MA6**	3.9	13	26	79	95	900	900	900	900	900	130	7300	26500
24	7.5	66	1080	2.1	45.05	IE4	**BK60-../S4E11SA6**	3.3	11	22	66	79	850	960	1080	1080	1080	130	8200	28300
24	7.5	66	1080	2.1	45.05	IE5	**BK60-../S5E11MA6**	3.3	11	22	66	79	1080	1080	1080	1080	1080	130	8200	28300
24	7.5	59	1200	1.9	50.4	IE4	**BK60-../S4E11SA6**	2.9	9.9	19.5	59	71	950	1080	1200	1200	1200	130	9100	29800
24	7.5	59	1200	1.9	50.4	IE5	**BK60-../S5E11MA6**	2.9	9.9	19.5	59	71	1200	1200	1200	1200	1200	130	9100	29800
24	7.5	50	1410	1.6	58.95	IE4	**BK60-../S4E11SA6**	2.5	8.4	16.5	50	61	1120	1260	1410	1410	1410	130	9900	31500
24	7.5	50	1410	1.6	58.95	IE5	**BK60-../S5E11MA6**	2.5	8.4	16.5	50	61	1410	1410	1410	1410	1410	130	9900	31500
24	7.5	45	1580	1.5	65.95	IE4	**BK60-../S4E11SA6**	2.2	7.5	15	45	54	1250	1410	1580	1580	1580	130	10900	33000
24	7.5	45	1580	1.5	65.95	IE5	**BK60-../S5E11MA6**	2.2	7.5	15	45	54	1580	1580	1580	1580	1580	130	10900	33000
24	7.5	38	1870	1.2	78.13	IE4	**BK60-../S4E11SA6**	1.9	6.3	12.5	38	46	1480	1670	1870	1870	1870	130	11900	34000
24	7.5	38	1870	1.2	78.13	IE5	**BK60-../S5E11MA6**	1.9	6.3	12.5	38	46	1870	1870	1870	1870	1870	130	11900	34000
24	7.5	34	2050	1.1	87.41	IE4	**BK60-../S4E11SA6**	1.7	5.7	11	34	41	1660	1870	2050	2050	2050	130	12900	34000
24	7.5	34	2050	1.1	87.41	IE5	**BK60-../S5E11MA6**	1.7	5.7	11	34	41	2050	2050	2050	2050	2050	130	12900	34000
24	7.5	29.5	2400	0.95	101.2	IE4	**BK60-../S4E11SA6**	1.4	4.9	9.8	29.5	35.5	1920	2150	2400	2400	2400	130	13900	34000
24	7.5	29.5	2400	0.95	101.2	IE5	**BK60-../S5E11MA6**	1.4	4.9	9.8	29.5	35.5	2400	2400	2400	2400	2400	130	13900	34000
24	7.5	26.5	2700	0.85	113.2	IE4	**BK60-../S4E11SA6**	1.3	4.4	8.8	26.5	31.5	2150	2400	2700	2700	2700	130	15000	34000
24	7.5	26.5	2700	0.85	113.2	IE5	**BK60-../S5E11MA6**	1.3	4.4	8.8	26.5	31.5	2700	2700	2700	2700	2700	130	15000	34000
24	7.5	37.5	1910	2.7	79.89	IE4	**BK70-../S4E11SA6**	1.8	6.2	12.5	37.5	45	1510	1710	1910	1910	1910	209	14300	47600
24	7.5	37.5	1910	2.7	79.89	IE5	**BK70-../S5E11MA6**	1.8	6.2	12.5	37.5	45	1910	1910	1910	1910	1910	209	14300	47600
24	7.5	32.5	2150	2.4	90.96	IE4	**BK70-../S4E11SA6**	1.6	5.4	10.5	32.5	39.5	1720	1950	2150	2150	2150	209	15300	49900
24	7.5	32.5	2150	2.4	90.96	IE5	**BK70-../S5E11MA6**	1.6	5.4	10.5	32.5	39.5	2150	2150	2150	2150	2150	209	15300	49900
24	7.5	28.5	2450	2.1	103.5	IE4	**BK70-../S4E11SA6**	1.4	4.8	9.6	28.5	34.5	1960	2200	2450	2450	2450	209	17200	50000
24	7.5	28.5	2450	2.1	103.5	IE5	**BK70-../S5E11MA6**	1.4	4.8	9.6	28.5	34.5	2450	2450	2450	2450	2450	209	17200	50000
24	7.5	24.5	2850	1.8	120.2	IE4	**BK70-../S4E11SA6**	1.2	4.1	8.3	24.5	29.5	2250	2550	2850	2850	2850	209	18600	50000
24	7.5	24.5	2850	1.8	120.2	IE5	**BK70-../S5E11MA6**	1.2	4.1	8.3	24.5	29.5	2850	2850	2850	2850	2850	209	18600	50000
24	7.5	21.5	3250	1.6	136.7	IE4	**BK70-../S4E11SA6**	1	3.6	7.3	21.5	26	2550	2900	3250	3250	3250	209	20700	50000
24	7.5	21.5	3250	1.6	136.7	IE5	**BK70-../S5E11MA6**	1	3.6	7.3	21.5	26	3250	3250	3250	3250	3250	209	20700	50000
24	7.5	19	3700	1.4	154.4	IE4	**BK70-../S4E11SA6**	0.95	3.2	6.4	19	23	2900	3300	3700	3700	3700	209	21900	50000
24	7.5	19	3700	1.4	154.4	IE5	**BK70-../S5E11MA6**	0.95	3.2	6.4	19	23	3700	3700	3700	3700	3700	209	21900	50000
24	7.5	17	4200	1.2	175.7	IE4	**BK70-../S4E11SA6**	0.85	2.8	5.6	17	20	3300	3750	4200	4200	4200	209	24100	50000
24	7.5	17	4200	1.2	175.7	IE5	**BK70-../S5E11MA6**	0.85	2.8	5.6	17	20	4200	4200	4200	4200	4200	209	24100	50000
24	7.5	15.5	4550	1.1	190.4	IE4	**BK70Z-../S4E11SA6**	0.75	2.6	5.2	15.5	18.5	3600	4050	4550	4550	4550	236	24100	50000
24	7.5	15.5	4550	1.1	190.4	IE5	**BK70Z-../S5E11MA6**	0.75	2.6	5.2	15.5	18.5	4550	4550	4550	4550	4550	236	24100	50000
24	7.5	13	5400	0.96	226.2	IE4	**BK70Z-../S4E11SA6**	0.65	2.2	4.4	13	15.5	4250	4850	5400	5400	5400	236	24100	50000
24	7.5	13	5400	0.96	226.2	IE5	**BK70Z-../S5E11MA6**	0.65	2.2	4.4	13	15.5	5400	5400	5400	5400	5400	236	24100	50000
24	7.5	11.5	6100	0.84	257.3	IE4	**BK70Z-../S4E11SA6**	0.55	1.9	3.8	11.5	13.5	4850	5500	6100	6100	6100	236	24100	50000
24	7.5	11.5	6100	0.84	257.3	IE5	**BK70Z-../S5E11MA6**	0.55	1.9	3.8	11.5	13.5	6100	6100	6100	6100	6100	236	24100	50000
24	7.5	19.5	3650	2.9	153.1	IE4	**BK80-../S4E11SA6**	0.95	3.2	6.5	19.5	23.5	2900	3250	3650	3650	3650	324	27200	75000
24	7.5	19.5	3650	2.9	153.1	IE5	**BK80-../S5E11MA6**	0.95	3.2	6.5	19.5	23.5	3650	3650	3650	3650	3650	324	27200	75000
24	7.5	17	4100	2.6	171.5	IE4	**BK80-../S4E11SA6**	0.85	2.9	5.8	17	20.5	3250	3650	4100	4100	4100	324	30000	75000
24	7.5	17	4100	2.6	171.5	IE5	**BK80-../S5E11MA6**	0.85	2.9	5.8	17	20.5	4100	4100	4100	4100	4100	324	30000	75000
24	7.5	16.5	4250	2.7	177.6	IE4	**BK80Z-../S4E11SA6**	0.8	2.8	5.6	16.5	20	3350	3800	4250	4250	4250	366	30000	75000
24	7.5	16.5	4250	2.7	177.6	IE5	**BK80Z-../S5E11MA6**	0.8	2.8	5.6	16.5	20	4250	4250	4250	4250	4250	366	30000	75000
24	7.5	15	4750	2.4	198.9	IE4	**BK80Z-../S4E11SA6**	0.75	2.5	5	15	18	3750	4250	4750	4750	4750	366	30000	75000
24	7.5	15	4750	2.4	198.9	IE5	**BK80Z-../S5E11MA6**	0.75	2.5	5	15	18	4750	4750	4750	4750	4750	366	30000	75000
24	7.5	13	5400	2.1	226.1	IE4	**BK80Z-../S4E11SA6**	0.65	2.2	4.4	13	15.5	4250	4850	5400	5400	5400	366	30000	75000
24	7.5	13	5400	2.1	226.1	IE5	**BK80Z-../S5E11MA6**	0.65	2.2	4.4	13	15.5	5400	5400	5400	5400	5400	366	30000	75000
24	7.5	11.5	6000	1.9	253.3	IE4	**BK80Z-../S4E11SA6**	0.55	1.9	3.9	11.5	14	4800	5400	6000	6000	6000	366	30000	75000
24	7.5	11.5	6000	1.9	253.3	IE5	**BK80Z-../S5E11MA6**	0.55	1.9	3.9	11.5	14	6000	6000	6000	6000	6000	366	30000	75000
24	7.5	9.9	7200	1.6	300.6	IE4	**BK80Z-../S4E11SA6**	0.49	1.6	3.3	9.9	11.5	5700	6400	7200	7200	7200	366	30000	75000
24	7.5	9.9	7200	1.6	300.6	IE5	**BK80Z-../S5E11MA6**	0.49	1.6	3.3	9.9	11.5	7200	7200	7200	7200	7200	366	30000	75000
24	7.5	8.9	8000	1.4	336.7	IE4	**BK80Z-../S4E11SA6**	0.44	1.4	2.9	8.9	10.5	6300	7200	8000	8000	8000	366	30000	75000
24	7.5	8.9	8000	1.4	336.7	IE5	**BK80Z-../S5E11MA6**	0.44	1.4	2.9	8.9	10.5	8000	8000	8000	8000	8000	366	30000	75000
24	7.5	7.7	9300	1.2	389	IE4	**BK80Z-../S4E11SA6**	0.38	1.2	2.5	7.7	9.2	7300	8300	9300	9300	9300	366	30000	75000
24	7.5	7.7	9300	1.2	389	IE5	**BK80Z-../S5E11MA6**	0.38	1.2	2.5	7.7	9.2	9300	9300	9300	9300	9300	366	30000	75000
24	7.5	6.8	10400	1.1	435.7	IE4	**BK80Z-../S4E11SA6**	0.34	1.1	2.2	6.8	8.2	8200	9300	10400	10400	10400	366	30000	75000
24	7.5	6.8	10400	1.1	435.7	IE5	**BK80Z-../S5E11MA6**	0.34	1.1	2.2	6.8	8.2	10400	10400	10400	10400	10400	366	30000	75000
24	7.5	6	11900	0.96	499.5	IE4	**BK80Z-../S4E11SA6**	0.3	1	2	6	7.2	9400	10700	11900	11900	11900	366	30000	75000
24	7.5	6	11900	0.96	499.5	IE5	**BK80Z-../S5E11MA6**	0.3	1	2	6	7.2	11900	11900	11900	11900	11900	366	30000	75000
24	7.5	5.3	13400	0.86	559.5	IE4	**BK80Z-../S4E11SA6**	0.26	0.85	1.7	5.3	6.4	10600	12000	13400	13400	13400	366	30000	75000
24	7.5	5.3	13400	0.86	559.5	IE5	**BK80Z-../S5E11MA6**	0.26	0.85	1.7	5.3	6.4	13400	13400	13400	13400	13400	366	30000	75000
24	7.5	11	6300	2.9	262.5	IE4	**BK90Z-../S4E11SA6**	0.55	1.9	3.8	11	13.5	4950	5600	6300	6300	6300	632	49400	120000
24	7.5	11	6300	2.9	262.5	IE5	**BK90Z-../S5E11MA6**	0.55	1.9	3.8	11	13.5	6300	6300	6300	6300	6300	632	49400	120000
24	7.5	10	7000	2.6	295.6	IE4	**BK90Z-../S4E11SA6**	0.5	1.6	3.3	10	12	5600	6300	7000	7000	7000	632	49400	120000

MN = 24 Nm (PN = 7.5 kW)



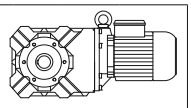
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
24	7.5	10	7000	2.6	295.6	IE5	**BK90Z-../S5E11MA6**	0.5	1.6	3.3	10	12	7000	7000	7000	7000	7000	632	49400	120000
24	7.5	9	7900	2.3	330.7	IE4	**BK90Z-../S4E11SA6**	0.45	1.5	3	9	10.5	6200	7100	7900	7900	7900	632	49400	120000
24	7.5	9	7900	2.3	330.7	IE5	**BK90Z-../S5E11MA6**	0.45	1.5	3	9	10.5	7900	7900	7900	7900	7900	632	49400	120000
24	7.5	7.7	9300	2	389.1	IE4	**BK90Z-../S4E11SA6**	0.38	1.2	2.5	7.7	9.2	7300	8300	9300	9300	9300	632	49400	120000
24	7.5	7.7	9300	2	389.1	IE5	**BK90Z-../S5E11MA6**	0.38	1.2	2.5	7.7	9.2	9300	9300	9300	9300	9300	632	49400	120000
24	7.5	6.8	10400	1.8	435.3	IE4	**BK90Z-../S4E11SA6**	0.34	1.1	2.2	6.8	8.2	8200	9300	10400	10400	10400	632	49400	120000
24	7.5	6.8	10400	1.8	435.3	IE5	**BK90Z-../S5E11MA6**	0.34	1.1	2.2	6.8	8.2	10400	10400	10400	10400	10400	632	49400	120000
24	7.5	6	11900	1.5	499.2	IE4	**BK90Z-../S4E11SA6**	0.3	1	2	6	7.2	9400	10700	11900	11900	11900	632	49400	120000
24	7.5	6	11900	1.5	499.2	IE5	**BK90Z-../S5E11MA6**	0.3	1	2	6	7.2	11900	11900	11900	11900	11900	632	49400	120000
24	7.5	5.3	13400	1.4	558.5	IE4	**BK90Z-../S4E11SA6**	0.26	0.85	1.7	5.3	6.4	10600	12000	13400	13400	13400	632	49400	120000
24	7.5	5.3	13400	1.4	558.5	IE5	**BK90Z-../S5E11MA6**	0.26	0.85	1.7	5.3	6.4	13400	13400	13400	13400	13400	632	49400	120000
24	7.5	4.7	15300	1.2	637.7	IE4	**BK90Z-../S4E11SA6**	0.23	0.75	1.5	4.7	5.6	12100	13700	15300	15300	15300	632	49400	120000
24	7.5	4.7	15300	1.2	637.7	IE5	**BK90Z-../S5E11MA6**	0.23	0.75	1.5	4.7	5.6	15300	15300	15300	15300	15300	632	49400	120000
24	7.5	4.2	17100	1.1	713.5	IE4	**BK90Z-../S4E11SA6**	0.21	0.7	1.4	4.2	5	13500	15300	17100	17100	17100	632	49400	120000
24	7.5	4.2	17100	1.1	713.5	IE5	**BK90Z-../S5E11MA6**	0.21	0.7	1.4	4.2	5	17100	17100	17100	17100	17100	632	49400	120000
24	7.5	3.6	19700	0.94	821	IE4	**BK90G50-../S4E11SA6**	0.18	0.6	1.2	3.6	4.3	15500	17600	19700	19700	19700	648	49400	120000
24	7.5	3.6	19700	0.94	821	IE5	**BK90G50-../S5E11MA6**	0.18	0.6	1.2	3.6	4.3	19700	19700	19700	19700	19700	648	49400	120000
24	7.5	3.4	21000	0.87	882.3	IE4	**BK90G50-../S4E11SA6**	0.17	0.55	1.1	3.4	4	16700	18900	21000	21000	21000	648	49400	120000
24	7.5	3.4	21000	0.87	882.3	IE5	**BK90G50-../S5E11MA6**	0.17	0.55	1.1	3.4	4	21000	21000	21000	21000	21000	648	49400	120000

MN = 30 Nm (PN = 9.5 kW)



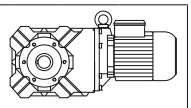
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
30	9.5	630	130	1.5	4.73	IE5	**BK30-../S5E11LA6**	31.5	105	210	630	760	130	130	130	130	130	76	1550	8800
30	9.5	630	130	1.5	4.73	IE5	**BK30-../S5E11MA6**	31.5	105	210	630	760	115	130	130	130	130	65	1550	8800
30	9.5	495	166	1.3	6.02	IE5	**BK30-../S5E11LA6**	24.5	83	166	495	590	166	166	166	166	166	76	1690	9600
30	9.5	495	166	1.3	6.02	IE5	**BK30-../S5E11MA6**	24.5	83	166	495	590	146	166	166	166	166	65	1690	9600
30	9.5	400	205	1.3	7.45	IE5	**BK30-../S5E11LA6**	20	67	134	400	480	205	205	205	205	205	76	2200	10400
30	9.5	400	205	1.3	7.45	IE5	**BK30-../S5E11MA6**	20	67	134	400	480	181	205	205	205	205	65	2200	10400
30	9.5	310	265	1.2	9.63	IE5	**BK30-../S5E11LA6**	15.5	51	103	310	370	265	265	265	265	265	76	3150	11500
30	9.5	310	265	1.2	9.63	IE5	**BK30-../S5E11MA6**	15.5	51	103	310	370	230	265	265	265	265	65	3150	11500
30	9.5	260	305	1.3	11.39	IE5	**BK30-../S5E11LA6**	13	43.5	87	260	315	305	305	305	305	305	76	4150	11000
30	9.5	260	305	1.3	11.39	IE5	**BK30-../S5E11MA6**	13	43.5	87	260	315	270	305	305	305	305	65	4150	11000
30	9.5	250	325	0.97	11.93	IE5	**BK30-../S5E11LA6**	12.5	41.5	83	250	300	325	325	325	325	325	76	3650	12000
30	9.5	250	325	0.97	11.93	IE5	**BK30-../S5E11MA6**	12.5	41.5	83	250	300	290	325	325	325	325	65	3650	12000
30	9.5	210	380	0.84	13.98	IE5	**BK30-../S5E11LA6**	10.5	35.5	71	210	255	380	380	380	380	380	76	4050	12000
30	9.5	210	380	0.84	13.98	IE5	**BK30-../S5E11MA6**	10.5	35.5	71	210	255	335	380	380	380	380	65	4050	12000
30	9.5	205	390	1.1	14.5	IE5	**BK30-../S5E11LA6**	10	34	68	205	245	390	390	390	390	390	76	4900	12000
30	9.5	205	390	1.1	14.5	IE5	**BK30-../S5E11MA6**	10	34	68	205	245	345	390	390	390	390	65	4900	12000
30	9.5	167	480	0.93	17.95	IE5	**BK30-../S5E11LA6**	8.3	27.5	55	167	200	480	480	480	480	480	76	5300	12000
30	9.5	167	480	0.93	17.95	IE5	**BK30-../S5E11MA6**	8.3	27.5	55	167	200	425	480	480	480	480	65	5300	12000
30	9.5	495	166	2.8	6.02	IE5	**BK40-../S5E11LA6**	24.5	83	166	495	590	166	166	166	166	166	102	470	9800
30	9.5	495	166	2.8	6.02	IE5	**BK40-../S5E11MA6**	24.5	83	166	495	590	146	166	166	166	166	90	470	9800
30	9.5	400	205	2.4	7.49	IE5	**BK40-../S5E11LA6**	20	66	133	400	480	205	205	205	205	205	102	750	10500
30	9.5	400	205	2.4	7.49	IE5	**BK40-../S5E11MA6**	20	66	133	400	480	182	205	205	205	205	90	750	10500
30	9.5	320	255	1.9	9.31	IE5	**BK40-../S5E11LA6**	16	53	107	320	385	255	255	255	255	255	102	1040	11200
30	9.5	320	255	1.9	9.31	IE5	**BK40-../S5E11MA6**	16	53	107	320	385	225	255	255	255	255	90	1040	11200
30	9.5	265	300	2.4	11.17	IE5	**BK40-../S5E11LA6**	13	44.5	89	265	320	300	300	300	300	300	102	4100	13100
30	9.5	265	300	2.4	11.17	IE5	**BK40-../S5E11MA6**	13	44.5	89	265	320	265	300	300	300	300	90	4100	13100
30	9.5	250	325	1.5	11.86	IE5	**BK40-../S5E11LA6**	12.5	42	84	250	300	325	325	325	325	325	102	1770	12200
30	9.5	250	325	1.5	11.86	IE5	**BK40-../S5E11MA6**	12.5	42	84	250	300	285	325	325	325	325	90	1770	12200
30	9.5	205	390	2	14.5	IE5	**BK40-../S5E11LA6**	10	34	68	205	245	390	390	390	390	390	102	4500	14300
30	9.5	205	390	2	14.5	IE5	**BK40-../S5E11MA6**	10	34	68	205	245	345	390	390	390	390	90	4500	14300
30	9.5	166	485	1.6	18.05	IE5	**BK40-../S5E11LA6**	8.3	27.5	55	166	199	485	485	485	485	485	102	4900	15300
30	9.5	166	485	1.6	18.05	IE5	**BK40-../S5E11MA6**	8.3	27.5	55	166	199	430	485	485	485	485	90	4900	15300
30	9.5	133	600	1.3	22.44	IE5	**BK40-../S5E11LA6**	6.6	22	44.5	133	160	600	600	600	600	600	102	5500	16500
30	9.5	133	600	1.3	22.44	IE5	**BK40-../S5E11MA6**	6.6	22	44.5	133	160	530	600	600	600	600	90	5500	16500
30	9.5	104	770	1	28.59	IE5	**BK40-../S5E11LA6**	5.2	17	34.5	104	125	770	770	770	770	770	102	6300	17000
30	9.5	104	770	1	28.59	IE5	**BK40-../S5E11MA6**	5.2	17	34.5	104	125	680	770	770	770	770	90	6300	17000
30	9.5	86	930	0.83	34.61	IE5	**BK40-../S5E11LA6**	4.3	14	28.5	86	104	930	930	930	930	930	102	6900	17000
30	9.5	86	930	0.83	34.61	IE5	**BK40-../S5E11MA6**	4.3	14	28.5	86	104	820	930	930	930	930	90	6900	17000
30	9.5	300	275	2.9	10	IE5	**BK50-../S5E11LA6**	15	50	100	300	360	275	275	275	275	275	132	1220	13200
30	9.5	300	275	2.9	10	IE5	**BK50-../S5E11MA6**	15	50	100	300	360	240	275	275	275	275	120	1220	13200
30	9.5	215	375	2.8	13.95	IE5	**BK50-../S5E11LA6**	10.5	35.5	71	215	255	375	375	375	375	375	132	6100	17400
30	9.5	215	375	2.8	13.95	IE5	**BK50-../S5E11MA6**	10.5	35.5	71	215	255	330	375	375	375	375	120	6100	17400
30	9.5	167	485	1.5	17.92	IE5	**BK50-../S5E11LA6**	8.3	27.5	55	167	200	485	485	485	485	485	132	4600	16800
30	9.5	167	485	1.5	17.92	IE5	**BK50-../S5E11MA6**	8.3	27.5	55	167	200	430	485	485	485	485	120	4600	16800
30	9.5	155	520	2	19.33	IE5	**BK50-../S5E11LA6**	7.7	25.5	51	155	186	520	520	520	520	520	132	6900	19200
30	9.5	155	520	2	19.33	IE5	**BK50-../S5E11MA6**	7.7	25.5	51	155	186	460	520	520	520	520	120	6900	19200
30	9.5	113	710	1.5	26.51	IE5	**BK50-../S5E11LA6**	5.6	18.5	37.5	113	135	710	710	710	710	710	132	7800	21200
30	9.5	113	710	1.5	26.51	IE5	**BK50-../S5E11MA6**	5.6	18.5	37.5	113	135	630	710	710	710	710	120	7800	21200
30	9.5	85	950	1.1	35.21	IE5	**BK50-../S5E11LA6**	4.2	14	28	85	102	950	950	950	950	950	132	8700	23100
30	9.5	85	950	1.1	35.21	IE5	**BK50-../S5E11MA6**	4.2	14	28	85	102	830	950	950	950	950	120	8700	23100
30	9.5	63	1260	0.83	47.5	IE5	**BK50-../S5E11LA6**	3.1	10.5	21	63	75	1260	1260	1260	1260	1260	132	10100	25700

MN = 30 Nm (PN = 9.5 kW)



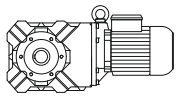
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
30	9.5	63	1260	0.83	47.5	IE5	**BK50-../S5E11MA6**	3.1	10.5	21	63	75	1120	1260	1260	1260	1260	120	10100	25700
30	9.5	109	820	2.8	27.36	IE5	**BK60-../S5E11LA6**	5.4	18	36.5	109	131	820	820	820	820	820	142	5600	23200
30	9.5	109	820	2.8	27.36	IE5	**BK60-../S5E11MA6**	5.4	18	36.5	109	131	720	820	820	820	820	130	5600	23200
30	9.5	88	1010	2.3	33.78	IE5	**BK60-../S5E11LA6**	4.4	14.5	29.5	88	106	1010	1010	1010	1010	1010	142	6500	25200
30	9.5	88	1010	2.3	33.78	IE5	**BK60-../S5E11MA6**	4.4	14.5	29.5	88	106	890	1010	1010	1010	1010	130	6500	25200
30	9.5	79	1130	2	37.8	IE5	**BK60-../S5E11LA6**	3.9	13	26	79	95	1130	1130	1130	1130	1130	142	7300	26500
30	9.5	79	1130	2	37.8	IE5	**BK60-../S5E11MA6**	3.9	13	26	79	95	1000	1130	1130	1130	1130	130	7300	26500
30	9.5	66	1350	1.7	45.05	IE5	**BK60-../S5E11LA6**	3.3	11	22	66	79	1350	1350	1350	1350	1350	142	8200	28300
30	9.5	66	1350	1.7	45.05	IE5	**BK60-../S5E11MA6**	3.3	11	22	66	79	1190	1350	1350	1350	1350	130	8200	28300
30	9.5	59	1510	1.5	50.4	IE5	**BK60-../S5E11LA6**	2.9	9.9	19.5	59	71	1510	1510	1510	1510	1510	142	9100	29800
30	9.5	59	1510	1.5	50.4	IE5	**BK60-../S5E11MA6**	2.9	9.9	19.5	59	71	1330	1510	1510	1510	1510	130	9100	29800
30	9.5	50	1760	1.3	58.95	IE5	**BK60-../S5E11LA6**	2.5	8.4	16.5	50	61	1760	1760	1760	1760	1760	142	9900	31500
30	9.5	50	1760	1.3	58.95	IE5	**BK60-../S5E11MA6**	2.5	8.4	16.5	50	61	1560	1760	1760	1760	1760	130	9900	31500
30	9.5	45	1970	1.2	65.95	IE5	**BK60-../S5E11LA6**	2.2	7.5	15	45	54	1970	1970	1970	1970	1970	142	10900	33000
30	9.5	45	1970	1.2	65.95	IE5	**BK60-../S5E11MA6**	2.2	7.5	15	45	54	1740	1970	1970	1970	1970	130	10900	33000
30	9.5	38	2300	0.98	78.13	IE5	**BK60-../S5E11LA6**	1.9	6.3	12.5	38	46	2300	2300	2300	2300	2300	142	11900	34000
30	9.5	38	2300	0.98	78.13	IE5	**BK60-../S5E11MA6**	1.9	6.3	12.5	38	46	2050	2300	2300	2300	2300	130	11900	34000
30	9.5	34	2600	0.88	87.41	IE5	**BK60-../S5E11LA6**	1.7	5.7	11	34	41	2600	2600	2600	2600	2600	142	12900	34000
30	9.5	34	2600	0.88	87.41	IE5	**BK60-../S5E11MA6**	1.7	5.7	11	34	41	2300	2600	2600	2600	2600	130	12900	34000
30	9.5	48.5	1840	2.8	61.6	IE5	**BK70-../S5E11LA6**	2.4	8.1	16	48.5	58	1840	1840	1840	1840	1840	221	11500	42800
30	9.5	48.5	1840	2.8	61.6	IE5	**BK70-../S5E11MA6**	2.4	8.1	16	48.5	58	1630	1840	1840	1840	1840	209	11500	42800
30	9.5	42.5	2100	2.5	70.23	IE5	**BK70-../S5E11LA6**	2.1	7.1	14	42.5	51	2100	2100	2100	2100	2100	221	12500	44800
30	9.5	42.5	2100	2.5	70.23	IE5	**BK70-../S5E11MA6**	2.1	7.1	14	42.5	51	1860	2100	2100	2100	2100	209	12500	44800
30	9.5	37.5	2350	2.2	79.89	IE5	**BK70-../S5E11LA6**	1.8	6.2	12.5	37.5	45	2350	2350	2350	2350	2350	221	14300	47600
30	9.5	37.5	2350	2.2	79.89	IE5	**BK70-../S5E11MA6**	1.8	6.2	12.5	37.5	45	2100	2350	2350	2350	2350	209	14300	47600
30	9.5	32.5	2700	1.9	90.96	IE5	**BK70-../S5E11LA6**	1.6	5.4	10.5	32.5	39.5	2700	2700	2700	2700	2700	221	15300	49900
30	9.5	32.5	2700	1.9	90.96	IE5	**BK70-../S5E11MA6**	1.6	5.4	10.5	32.5	39.5	2400	2700	2700	2700	2700	209	15300	49900
30	9.5	28.5	3100	1.7	103.5	IE5	**BK70-../S5E11LA6**	1.4	4.8	9.6	28.5	34.5	3100	3100	3100	3100	3100	221	17200	50000
30	9.5	28.5	3100	1.7	103.5	IE5	**BK70-../S5E11MA6**	1.4	4.8	9.6	28.5	34.5	2700	3100	3100	3100	3100	209	17200	50000
30	9.5	24.5	3600	1.4	120.2	IE5	**BK70-../S5E11LA6**	1.2	4.1	8.3	24.5	29.5	3600	3600	3600	3600	3600	221	18600	50000
30	9.5	24.5	3600	1.4	120.2	IE5	**BK70-../S5E11MA6**	1.2	4.1	8.3	24.5	29.5	3150	3600	3600	3600	3600	209	18600	50000
30	9.5	21.5	4100	1.3	136.7	IE5	**BK70-../S5E11LA6**	1	3.6	7.3	21.5	26	4100	4100	4100	4100	4100	221	20700	50000
30	9.5	21.5	4100	1.3	136.7	IE5	**BK70-../S5E11MA6**	1	3.6	7.3	21.5	26	3600	4100	4100	4100	4100	209	20700	50000
30	9.5	19	4600	1.1	154.4	IE5	**BK70-../S5E11LA6**	0.95	3.2	6.4	19	23	4600	4600	4600	4600	4600	221	21900	50000
30	9.5	19	4600	1.1	154.4	IE5	**BK70-../S5E11MA6**	0.95	3.2	6.4	19	23	4050	4600	4600	4600	4600	209	21900	50000
30	9.5	17	5200	0.99	175.7	IE5	**BK70-../S5E11LA6**	0.85	2.8	5.6	17	20	5200	5200	5200	5200	5200	221	24100	50000
30	9.5	17	5200	0.99	175.7	IE5	**BK70-../S5E11MA6**	0.85	2.8	5.6	17	20	4650	5200	5200	5200	5200	209	24100	50000
30	9.5	15.5	5700	0.91	190.4	IE5	**BK70Z-../S5E11LA6**	0.75	2.6	5.2	15.5	18.5	5700	5700	5700	5700	5700	247	24100	50000
30	9.5	15.5	5700	0.91	190.4	IE5	**BK70Z-../S5E11MA6**	0.75	2.6	5.2	15.5	18.5	5000	5700	5700	5700	5700	236	24100	50000
30	9.5	25.5	3500	3	117.5	IE5	**BK80-../S5E11LA6**	1.2	4.2	8.5	25.5	30.5	3500	3500	3500	3500	3500	336	22300	75000
30	9.5	25.5	3500	3	117.5	IE5	**BK80-../S5E11MA6**	1.2	4.2	8.5	25.5	30.5	3100	3500	3500	3500	3500	324	22300	75000
30	9.5	22.5	3900	2.7	131.6	IE5	**BK80-../S5E11LA6**	1.1	3.7	7.5	22.5	27	3900	3900	3900	3900	3900	336	24900	75000
30	9.5	22.5	3900	2.7	131.6	IE5	**BK80-../S5E11MA6**	1.1	3.7	7.5	22.5	27	3450	3900	3900	3900	3900	324	24900	75000
30	9.5	19.5	4550	2.3	153.1	IE5	**BK80-../S5E11LA6**	0.95	3.2	6.5	19.5	23.5	4550	4550	4550	4550	4550	336	27200	75000
30	9.5	19.5	4550	2.3	153.1	IE5	**BK80-../S5E11MA6**	0.95	3.2	6.5	19.5	23.5	4050	4550	4550	4550	4550	324	27200	75000
30	9.5	17	5100	2	171.5	IE5	**BK80-../S5E11LA6**	0.85	2.9	5.8	17	20.5	5100	5100	5100	5100	5100	336	30000	75000
30	9.5	17	5100	2	171.5	IE5	**BK80-../S5E11MA6**	0.85	2.9	5.8	17	20.5	4500	5100	5100	5100	5100	324	30000	75000
30	9.5	16.5	5300	2.2	177.6	IE5	**BK80Z-../S5E11LA6**	0.8	2.8	5.6	16.5	20	5300	5300	5300	5300	5300	378	30000	75000
30	9.5	16.5	5300	2.2	177.6	IE5	**BK80Z-../S5E11MA6**	0.8	2.8	5.6	16.5	20	4700	5300	5300	5300	5300	366	30000	75000
30	9.5	15	5900	1.9	198.9	IE5	**BK80Z-../S5E11LA6**	0.75	2.5	5	15	18	5900	5900	5900	5900	5900	378	30000	75000
30	9.5	15	5900	1.9	198.9	IE5	**BK80Z-../S5E11MA6**	0.75	2.5	5	15	18	5200	5900	5900	5900	5900	366	30000	75000
30	9.5	13	6700	1.7	226.1	IE5	**BK80Z-../S5E11LA6**	0.65	2.2	4.4	13	15.5	6700	6700	6700	6700	6700	378	30000	75000
30	9.5	13	6700	1.7	226.1	IE5	**BK80Z-../S5E11MA6**	0.65	2.2	4.4	13	15.5	5900	6700	6700	6700	6700	366	30000	75000
30	9.5	11.5	7500	1.5	253.3	IE5	**BK80Z-../S5E11LA6**	0.55	1.9	3.9	11.5	14	7500	7500	7500	7500	7500	378	30000	75000
30	9.5	11.5	7500	1.5	253.3	IE5	**BK80Z-../S5E11MA6**	0.55	1.9	3.9	11.5	14	6700	7500	7500	7500	7500	366	30000	75000
30	9.5	9.9	9000	1.3	300.6	IE5	**BK80Z-../S5E11LA6**	0.49	1.6	3.3	9.9	11.5	9000	9000	9000	9000	9000	378	30000	75000
30	9.5	9.9	9000	1.3	300.6	IE5	**BK80Z-../S5E11MA6**	0.49	1.6	3.3	9.9	11.5	7900	9000	9000	9000	9000	366	30000	75000
30	9.5	8.9	10100	1.1	336.7	IE5	**BK80Z-../S5E11LA6**	0.44	1.4	2.9	8.9	10.5	10100	10100	10100	10100	10100	378	30000	75000
30	9.5	8.9	10100	1.1	336.7	IE5	**BK80Z-../S5E11MA6**	0.44	1.4	2.9	8.9	10.5	8900	10100	10100	10100	10100	366	30000	75000
30	9.5	7.7	11600	0.99	389	IE5	**BK80Z-../S5E11LA6**	0.38	1.2	2.5	7.7	9.2	11600	11600	11600	11600	11600	378	30000	75000
30	9.5	7.7	11600	0.99	389	IE5	**BK80Z-../S5E11MA6**	0.38	1.2	2.5	7.7	9.2	10300	11600	11600	11600	11600	366	30000	75000
30	9.5	6.8	13000	0.88	435.7	IE5	**BK80Z-../S5E11LA6**	0.34	1.1	2.2	6.8	8.2	13000	13000	13000	13000	13000	378	30000	75000
30	9.5	6.8	13000	0.88	435.7	IE5	**BK80Z-../S5E11MA6**	0.34	1.1	2.2	6.8	8.2	11500	13000	13000	13000	13000	366	30000	75000
30	9.5	12.5	7000	2.6	234.6	IE5	**BK90Z-../S5E11LA6**	0.6	2.1	4.2	12.5	15	7000	7000	7000	7000	7000	643	49400	120000
30	9.5	12.5	7000	2.6	234.6	IE5	**BK90Z-../S5E11MA6**	0.6	2.1	4.2	12.5	15	6200	7000	7000	7000	7000	632	49400	120000
30	9.5	11	7800	2.3	262.5	IE5	**BK90Z-../S5E11LA6**	0.55	1.9	3.8	11	13.5	7800	7800	7800	7800	7800	643	49400	120000
30	9.5	11	7800	2.3	262.5	IE5	**BK90Z-../S5E11MA6**	0.55	1.9	3.8	11	13.5	6900	7800	7800	7800	7800	632	49400	120000
30	9.5	10	8800	2.1	295.6	IE5	**BK90Z-../S5E11LA6**	0.5	1.6	3.3	10	12	8800	8800	8800	8800	8800	643	49400	120000
30	9.5	10	8800	2.1	295.6	IE5	**BK90Z-../S5E11MA6**	0.5	1.6	3.3	10	12	7800	8800	8800	8800	8800	632	49400	120000
30	9.5	9	9900	1.9	330.7	IE5	**BK90Z-../S5E11LA6**	0.45	1.5	3	9	10.5	9900	9900	9900	9900	9900	643	49400	120000
30	9.5	9	9900	1.9	330.7	IE5	**BK90Z-../S5E11MA6**	0.45	1.5	3	9	10.5	8700	9900	9900	9900	9900	632	49400	120000
30	9.5	7.7	11600	1.6	389.1	IE5	**BK90Z-../S5E11LA6**	0.38	1.2	2.5	7.7	9.2	11600	11600	11600	11600	11600	643	49400	120000
30	9.5	7.7	11600	1.6	389.1	IE5	**BK90Z-../S5E11MA6**	0.38	1.2	2.5	7.7	9.2	10300	11600	11600	11600	11600	632	49400	120000
30	9.5	6.8	13000	1.4	435.3	IE5	**BK90Z-../S5E11LA6**	0.34	1.1	2.2	6.8	8.2	13000	13000	13000	13000	13000	643	49400	120000
30	9.5	6.8	13000	1.4	435.3	IE5	**BK90Z-../S5E11MA6**	0.34	1.1	2.2	6.8	8.2	11500	13000	13000	13000	13000	632	49400	120000
30	9.5	6	14900	1.2	499.2	IE5	**BK90Z-../S5E11LA6**	0.3	1	2	6	7.2	14900	14900	14900	14900	14900	643	49400	120000
30	9.5	6	14900	1.2	499.2	IE5	**BK90Z-../S5E11MA6**	0.3	1	2	6	7.2	13200	14900	14900	14900	14900	632	49400	120000
30	9.5	5.3	16700	1.1	558.5	IE5	**BK90Z-../S5E11LA6**	0.26	0.85	1.7	5.3	6.4	16700	16700	16700	16700	16700	643	49400	120000
30	9.5	5.3	16700	1.1	558.5	IE5	**BK90Z-../S5E11MA6**	0.26	0.85	1.7	5.3	6.4	14800	16700	16700	16700	16700	632	49400	120000

MN = 30 Nm (PN = 9.5 kW)



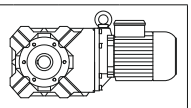
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
30	9.5	4.7	19100	0.97	637.7	IE5	**BK90Z-../S5E11LA6**	0.23	0.75	1.5	4.7	5.6	19100	19100	19100	19100	19100	643	49400	120000
30	9.5	4.7	19100	0.97	637.7	IE5	**BK90Z-../S5E11MA6**	0.23	0.75	1.5	4.7	5.6	16800	19100	19100	19100	19100	632	49400	120000
30	9.5	4.2	21000	0.86	713.5	IE5	**BK90Z-../S5E11LA6**	0.21	0.7	1.4	4.2	5	21000	21000	21000	21000	21000	643	49400	120000
30	9.5	4.2	21000	0.86	713.5	IE5	**BK90Z-../S5E11MA6**	0.21	0.7	1.4	4.2	5	18900	21000	21000	21000	21000	632	49400	120000

MN = 35 Nm (PN = 11 kW)



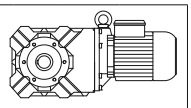
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
35	11	630	152	1.3	4.73	IE4	**BK30-../S4E11MA6**	31.5	105	210	630	760	115	130	152	152	152	65	1550	8800
35	11	630	152	1.3	4.73	IE5	**BK30-../S5E11LA6**	31.5	105	210	630	760	152	152	152	152	152	76	1550	8800
35	11	495	193	1.1	6.02	IE4	**BK30-../S4E11MA6**	24.5	83	166	495	590	146	166	193	193	193	65	1690	9600
35	11	495	193	1.1	6.02	IE5	**BK30-../S5E11LA6**	24.5	83	166	495	590	193	193	193	193	193	76	1690	9600
35	11	400	235	1.1	7.45	IE4	**BK30-../S4E11MA6**	20	67	134	400	480	181	205	235	235	235	65	2200	10400
35	11	400	235	1.1	7.45	IE5	**BK30-../S5E11LA6**	20	67	134	400	480	235	235	235	235	235	76	2200	10400
35	11	310	310	1	9.63	IE4	**BK30-../S4E11MA6**	15.5	51	103	310	370	230	265	310	310	310	65	3150	11500
35	11	310	310	1	9.63	IE5	**BK30-../S5E11LA6**	15.5	51	103	310	370	310	310	310	310	310	76	3150	11500
35	11	260	355	1.2	11.39	IE4	**BK30-../S4E11MA6**	13	43.5	87	260	315	270	305	355	355	355	65	4150	11000
35	11	260	355	1.2	11.39	IE5	**BK30-../S5E11LA6**	13	43.5	87	260	315	355	355	355	355	355	76	4150	11000
35	11	250	380	0.83	11.93	IE4	**BK30-../S4E11MA6**	12.5	41.5	83	250	300	290	325	380	380	380	65	3650	12000
35	11	250	380	0.83	11.93	IE5	**BK30-../S5E11LA6**	12.5	41.5	83	250	300	380	380	380	380	380	76	3650	12000
35	11	205	455	0.99	14.5	IE4	**BK30-../S4E11MA6**	10	34	68	205	245	345	390	455	455	455	65	4900	12000
35	11	205	455	0.99	14.5	IE5	**BK30-../S5E11LA6**	10	34	68	205	245	455	455	455	455	455	76	4900	12000
35	11	167	560	0.8	17.95	IE4	**BK30-../S4E11MA6**	8.3	27.5	55	167	200	425	480	560	560	560	65	5300	12000
35	11	167	560	0.8	17.95	IE5	**BK30-../S5E11LA6**	8.3	27.5	55	167	200	560	560	560	560	560	76	5300	12000
35	11	640	149	2.9	4.63	IE4	**BK40-../S4E11MA6**	32	107	215	640	770	112	127	149	149	149	90	430	8900
35	11	640	149	2.9	4.63	IE5	**BK40-../S5E11LA6**	32	107	215	640	770	149	149	149	149	149	102	430	8900
35	11	495	193	2.4	6.02	IE4	**BK40-../S4E11MA6**	24.5	83	166	495	590	146	166	193	193	193	90	470	9800
35	11	495	193	2.4	6.02	IE5	**BK40-../S5E11LA6**	24.5	83	166	495	590	193	193	193	193	193	102	470	9800
35	11	400	240	2	7.49	IE4	**BK40-../S4E11MA6**	20	66	133	400	480	182	205	240	240	240	90	750	10500
35	11	400	240	2	7.49	IE5	**BK40-../S5E11LA6**	20	66	133	400	480	240	240	240	240	240	102	750	10500
35	11	320	295	1.6	9.31	IE4	**BK40-../S4E11MA6**	16	53	107	320	385	225	255	295	295	295	90	1040	11200
35	11	320	295	1.6	9.31	IE5	**BK40-../S5E11LA6**	16	53	107	320	385	295	295	295	295	295	102	1040	11200
35	11	265	350	2	11.17	IE4	**BK40-../S4E11MA6**	13	44.5	89	265	320	265	300	350	350	350	90	4100	13100
35	11	265	350	2	11.17	IE5	**BK40-../S5E11LA6**	13	44.5	89	265	320	350	350	350	350	350	102	4100	13100
35	11	250	380	1.3	11.86	IE4	**BK40-../S4E11MA6**	12.5	42	84	250	300	285	325	380	380	380	90	1770	12200
35	11	250	380	1.3	11.86	IE5	**BK40-../S5E11LA6**	12.5	42	84	250	300	380	380	380	380	380	102	1770	12200
35	11	205	455	1.7	14.5	IE4	**BK40-../S4E11MA6**	10	34	68	205	245	345	390	455	455	455	90	4500	14300
35	11	205	455	1.7	14.5	IE5	**BK40-../S5E11LA6**	10	34	68	205	245	455	455	455	455	455	102	4500	14300
35	11	166	560	1.4	18.05	IE4	**BK40-../S4E11MA6**	8.3	27.5	55	166	199	430	485	560	560	560	90	4900	15300
35	11	166	560	1.4	18.05	IE5	**BK40-../S5E11LA6**	8.3	27.5	55	166	199	560	560	560	560	560	102	4900	15300
35	11	133	700	1.1	22.44	IE4	**BK40-../S4E11MA6**	6.6	22	44.5	133	160	530	600	700	700	700	90	5500	16500
35	11	133	700	1.1	22.44	IE5	**BK40-../S5E11LA6**	6.6	22	44.5	133	160	700	700	700	700	700	102	5500	16500
35	11	104	900	0.87	28.59	IE4	**BK40-../S4E11MA6**	5.2	17	34.5	104	125	680	770	900	900	900	90	6300	17000
35	11	104	900	0.87	28.59	IE5	**BK40-../S5E11LA6**	5.2	17	34.5	104	125	900	900	900	900	900	102	6300	17000
35	11	305	305	3	9.73	IE4	**BK50-../S4E11MA6**	15	51	102	305	365	230	260	305	305	305	120	5400	15400
35	11	305	305	3	9.73	IE5	**BK50-../S5E11LA6**	15	51	102	305	365	305	305	305	305	305	132	5400	15400
35	11	300	320	2.5	10	IE4	**BK50-../S4E11MA6**	15	50	100	300	360	240	275	320	320	320	120	1220	13200
35	11	300	320	2.5	10	IE5	**BK50-../S5E11LA6**	15	50	100	300	360	320	320	320	320	320	132	1220	13200
35	11	215	435	2.4	13.95	IE4	**BK50-../S4E11MA6**	10.5	35.5	71	215	255	330	375	435	435	435	120	6100	17400
35	11	215	435	2.4	13.95	IE5	**BK50-../S5E11LA6**	10.5	35.5	71	215	255	435	435	435	435	435	132	6100	17400
35	11	167	570	1.3	17.92	IE4	**BK50-../S4E11MA6**	8.3	27.5	55	167	200	430	485	570	570	570	120	4600	16800
35	11	167	570	1.3	17.92	IE5	**BK50-../S5E11LA6**	8.3	27.5	55	167	200	570	570	570	570	570	132	4600	16800
35	11	155	600	1.7	19.33	IE4	**BK50-../S4E11MA6**	7.7	25.5	51	155	186	460	520	600	600	600	120	6900	19200
35	11	155	600	1.7	19.33	IE5	**BK50-../S5E11LA6**	7.7	25.5	51	155	186	600	600	600	600	600	132	6900	19200
35	11	113	830	1.3	26.51	IE4	**BK50-../S4E11MA6**	5.6	18.5	37.5	113	135	630	710	830	830	830	120	7800	21200
35	11	113	830	1.3	26.51	IE5	**BK50-../S5E11LA6**	5.6	18.5	37.5	113	135	830	830	830	830	830	132	7800	21200
35	11	85	1100	0.95	35.21	IE4	**BK50-../S4E11MA6**	4.2	14	28	85	102	830	950	1100	1100	1100	120	8700	23100
35	11	85	1100	0.95	35.21	IE5	**BK50-../S5E11LA6**	4.2	14	28	85	102	1100	1100	1100	1100	1100	132	8700	23100
35	11	122	850	2.7	24.45	IE4	**BK60-../S4E11MA6**	6.1	20	40.5	122	147	640	730	850	850	850	130	4850	22000
35	11	122	850	2.7	24.45	IE5	**BK60-../S5E11LA6**	6.1	20	40.5	122	147	850	850	850	850	850	142	4850	22000
35	11	109	950	2.4	27.36	IE4	**BK60-../S4E11MA6**	5.4	18	36.5	109	131	720	820	950	950	950	130	5600	23200
35	11	109	950	2.4	27.36	IE5	**BK60-../S5E11LA6**	5.4	18	36.5	109	131	950	950	950	950	950	142	5600	23200
35	11	88	1180	1.9	33.78	IE4	**BK60-../S4E11MA6**	4.4	14.5	29.5	88	106	890	1010	1180	1180	1180	130	6500	25200
35	11	88	1180	1.9	33.78	IE5	**BK60-../S5E11LA6**	4.4	14.5	29.5	88	106	1180	1180	1180	1180	1180	142	6500	25200
35	11	79	1320	1.7	37.8	IE4	**BK60-../S4E11MA6**	3.9	13	26	79	95	1000	1130	1320	1320	1320	130	7300	26500
35	11	79	1320	1.7	37.8	IE5	**BK60-../S5E11LA6**	3.9	13	26	79	95	1320	1320	1320	1320	1320	142	7300	26500
35	11	66	1570	1.5	45.05	IE4	**BK60-../S4E11MA6**	3.3	11	22	66	79	1190	1350	1570	1570	1570	130	8200	28300
35	11	66	1570	1.5	45.05	IE5	**BK60-../S5E11LA6**	3.3	11	22	66	79	1570	1570	1570	1570	1570	142	8200	28300
35	11	59	1760	1.3	50.4	IE4	**BK60-../S4E11MA6**	2.9	9.9	19.5	59	71	1330	1510	1760	1760	1760	130	9100	29800
35	11	59	1760	1.3	50.4	IE5	**BK60-../S5E11LA6**	2.9	9.9	19.5	59	71	1760	1760	1760	1760	1760	142	9100	29800
35	11	50	2050	1.1	58.95	IE4	**BK60-../S4E11MA6**	2.5	8.4	16.5	50	61	1560	1760	2050	2050	2050	130	9900	31500
35	11	50	2050	1.1	58.95	IE5	**BK60-../S5E11LA6**	2.5	8.4	16.5	50	61	2050	2050	2050	2050	2050	142	9900	31500
35	11	45	2300	1	65.95	IE4	**BK60-../S4E11MA6**	2.2	7.5	15	45	54	1740	1970	2300	2300	2300	130	10900	33000

MN = 35 Nm (PN = 11 kW)

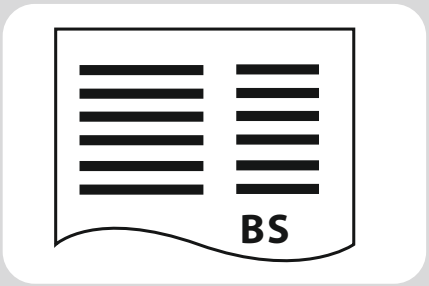


M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
35	11	45	2300	1	65.95	IE5	**BK60-../S5E11LA6**	2.2	7.5	15	45	54	2300	2300	2300	2300	2300	142	10900	33000
35	11	38	2700	0.84	78.13	IE4	**BK60-../S4E11MA6**	1.9	6.3	12.5	38	46	2050	2300	2700	2700	2700	130	11900	34000
35	11	38	2700	0.84	78.13	IE5	**BK60-../S5E11LA6**	1.9	6.3	12.5	38	46	2700	2700	2700	2700	2700	142	11900	34000
35	11	55	1890	2.7	54.15	IE4	**BK70-../S4E11MA6**	2.7	9.2	18	55	66	1430	1620	1890	1890	1890	209	9900	40200
35	11	55	1890	2.7	54.15	IE5	**BK70-../S5E11LA6**	2.7	9.2	18	55	66	1890	1890	1890	1890	1890	221	9900	40200
35	11	48.5	2150	2.4	61.6	IE4	**BK70-../S4E11MA6**	2.4	8.1	16	48.5	58	1630	1840	2150	2150	2150	209	11500	42800
35	11	48.5	2150	2.4	61.6	IE5	**BK70-../S5E11LA6**	2.4	8.1	16	48.5	58	2150	2150	2150	2150	2150	221	11500	42800
35	11	42.5	2450	2.1	70.23	IE4	**BK70-../S4E11MA6**	2.1	7.1	14	42.5	51	1860	2100	2450	2450	2450	209	12500	44800
35	11	42.5	2450	2.1	70.23	IE5	**BK70-../S5E11LA6**	2.1	7.1	14	42.5	51	2450	2450	2450	2450	2450	221	12500	44800
35	11	37.5	2750	1.9	79.89	IE4	**BK70-../S4E11MA6**	1.8	6.2	12.5	37.5	45	2100	2350	2750	2750	2750	209	14300	47600
35	11	37.5	2750	1.9	79.89	IE5	**BK70-../S5E11LA6**	1.8	6.2	12.5	37.5	45	2750	2750	2750	2750	2750	221	14300	47600
35	11	32.5	3150	1.6	90.96	IE4	**BK70-../S4E11MA6**	1.6	5.4	10.5	32.5	39.5	2400	2700	3150	3150	3150	209	15300	49900
35	11	32.5	3150	1.6	90.96	IE5	**BK70-../S5E11LA6**	1.6	5.4	10.5	32.5	39.5	3150	3150	3150	3150	3150	221	15300	49900
35	11	28.5	3600	1.4	103.5	IE4	**BK70-../S4E11MA6**	1.4	4.8	9.6	28.5	34.5	2700	3100	3600	3600	3600	209	17200	50000
35	11	28.5	3600	1.4	103.5	IE5	**BK70-../S5E11LA6**	1.4	4.8	9.6	28.5	34.5	3600	3600	3600	3600	3600	221	17200	50000
35	11	24.5	4200	1.2	120.2	IE4	**BK70-../S4E11MA6**	1.2	4.1	8.3	24.5	29.5	3150	3600	4200	4200	4200	209	18600	50000
35	11	24.5	4200	1.2	120.2	IE5	**BK70-../S5E11LA6**	1.2	4.1	8.3	24.5	29.5	4200	4200	4200	4200	4200	221	18600	50000
35	11	21.5	4750	1.1	136.7	IE4	**BK70-../S4E11MA6**	1	3.6	7.3	21.5	26	3600	4100	4750	4750	4750	209	20700	50000
35	11	21.5	4750	1.1	136.7	IE5	**BK70-../S5E11LA6**	1	3.6	7.3	21.5	26	4750	4750	4750	4750	4750	221	20700	50000
35	11	19	5400	0.96	154.4	IE4	**BK70-../S4E11MA6**	0.95	3.2	6.4	19	23	4050	4600	5400	5400	5400	209	21900	50000
35	11	19	5400	0.96	154.4	IE5	**BK70-../S5E11LA6**	0.95	3.2	6.4	19	23	5400	5400	5400	5400	5400	221	21900	50000
35	11	17	6100	0.85	175.7	IE4	**BK70-../S4E11MA6**	0.85	2.8	5.6	17	20	4650	5200	6100	6100	6100	209	24100	50000
35	11	17	6100	0.85	175.7	IE5	**BK70-../S5E11LA6**	0.85	2.8	5.6	17	20	6100	6100	6100	6100	6100	221	24100	50000
35	11	29	3550	2.9	102.5	IE4	**BK80-../S4E11MA6**	1.4	4.8	9.7	29	35	2700	3050	3550	3550	3550	324	20500	75000
35	11	29	3550	2.9	102.5	IE5	**BK80-../S5E11LA6**	1.4	4.8	9.7	29	35	3550	3550	3550	3550	3550	336	20500	75000
35	11	25.5	4100	2.6	117.5	IE4	**BK80-../S4E11MA6**	1.2	4.2	8.5	25.5	30.5	3100	3500	4100	4100	4100	324	22300	75000
35	11	25.5	4100	2.6	117.5	IE5	**BK80-../S5E11LA6**	1.2	4.2	8.5	25.5	30.5	4100	4100	4100	4100	4100	336	22300	75000
35	11	22.5	4600	2.3	131.6	IE4	**BK80-../S4E11MA6**	1.1	3.7	7.5	22.5	27	3450	3900	4600	4600	4600	324	24900	75000
35	11	22.5	4600	2.3	131.6	IE5	**BK80-../S5E11LA6**	1.1	3.7	7.5	22.5	27	4600	4600	4600	4600	4600	336	24900	75000
35	11	19.5	5300	2	153.1	IE4	**BK80-../S4E11MA6**	0.95	3.2	6.5	19.5	23.5	4050	4550	5300	5300	5300	324	27200	75000
35	11	19.5	5300	2	153.1	IE5	**BK80-../S5E11LA6**	0.95	3.2	6.5	19.5	23.5	5300	5300	5300	5300	5300	336	27200	75000
35	11	17	6000	1.7	171.5	IE4	**BK80-../S4E11MA6**	0.85	2.9	5.8	17	20.5	4500	5100	6000	6000	6000	324	30000	75000
35	11	17	6000	1.7	171.5	IE5	**BK80-../S5E11LA6**	0.85	2.9	5.8	17	20.5	6000	6000	6000	6000	6000	336	30000	75000
35	11	16.5	6200	1.9	177.6	IE4	**BK80Z-../S4E11MA6**	0.8	2.8	5.6	16.5	20	4700	5300	6200	6200	6200	366	30000	75000
35	11	16.5	6200	1.9	177.6	IE5	**BK80Z-../S5E11LA6**	0.8	2.8	5.6	16.5	20	6200	6200	6200	6200	6200	378	30000	75000
35	11	15	6900	1.7	198.9	IE4	**BK80Z-../S4E11MA6**	0.75	2.5	5	15	18	5200	5900	6900	6900	6900	366	30000	75000
35	11	15	6900	1.7	198.9	IE5	**BK80Z-../S5E11LA6**	0.75	2.5	5	15	18	6900	6900	6900	6900	6900	378	30000	75000
35	11	13	7900	1.5	226.1	IE4	**BK80Z-../S4E11MA6**	0.65	2.2	4.4	13	15.5	5900	6700	7900	7900	7900	366	30000	75000
35	11	13	7900	1.5	226.1	IE5	**BK80Z-../S5E11LA6**	0.65	2.2	4.4	13	15.5	7900	7900	7900	7900	7900	378	30000	75000
35	11	11.5	8800	1.3	253.3	IE4	**BK80Z-../S4E11MA6**	0.55	1.9	3.9	11.5	14	6700	7500	8800	8800	8800	366	30000	75000
35	11	11.5	8800	1.3	253.3	IE5	**BK80Z-../S5E11LA6**	0.55	1.9	3.9	11.5	14	8800	8800	8800	8800	8800	378	30000	75000
35	11	9.9	10500	1.1	300.6	IE4	**BK80Z-../S4E11MA6**	0.49	1.6	3.3	9.9	11.5	7900	9000	10500	10500	10500	366	30000	75000
35	11	9.9	10500	1.1	300.6	IE5	**BK80Z-../S5E11LA6**	0.49	1.6	3.3	9.9	11.5	10500	10500	10500	10500	10500	378	30000	75000
35	11	8.9	11700	0.98	336.7	IE4	**BK80Z-../S4E11MA6**	0.44	1.4	2.9	8.9	10.5	8900	10100	11700	11700	11700	366	30000	75000
35	11	8.9	11700	0.98	336.7	IE5	**BK80Z-../S5E11LA6**	0.44	1.4	2.9	8.9	10.5	11700	11700	11700	11700	11700	378	30000	75000
35	11	7.7	13600	0.84	389	IE4	**BK80Z-../S4E11MA6**	0.38	1.2	2.5	7.7	9.2	10300	11600	13600	13600	13600	366	30000	75000
35	11	7.7	13600	0.84	389	IE5	**BK80Z-../S5E11LA6**	0.38	1.2	2.5	7.7	9.2	13600	13600	13600	13600	13600	378	30000	75000
35	11	17	6100	3	174.7	IE4	**BK90Z-../S4E11MA6**	0.85	2.8	5.7	17	20.5	4600	5200	6100	6100	6100	632	49400	120000
35	11	17	6100	3	174.7	IE5	**BK90Z-../S5E11LA6**	0.85	2.8	5.7	17	20.5	6100	6100	6100	6100	6100	643	49400	120000
35	11	15	6800	2.7	195.4	IE4	**BK90Z-../S4E11MA6**	0.75	2.5	5.1	15	18	5100	5800	6800	6800	6800	632	49400	120000
35	11	15	6800	2.7	195.4	IE5	**BK90Z-../S5E11LA6**	0.75	2.5	5.1	15	18	6800	6800	6800	6800	6800	643	49400	120000
35	11	12.5	8200	2.3	234.6	IE4	**BK90Z-../S4E11MA6**	0.6	2.1	4.2	12.5	15	6200	7000	8200	8200	8200	632	49400	120000
35	11	12.5	8200	2.3	234.6	IE5	**BK90Z-../S5E11LA6**	0.6	2.1	4.2	12.5	15	8200	8200	8200	8200	8200	643	49400	120000
35	11	11	9100	2	262.5	IE4	**BK90Z-../S4E11MA6**	0.55	1.9	3.8	11	13.5	6900	7800	9100	9100	9100	632	49400	120000
35	11	11	9100	2	262.5	IE5	**BK90Z-../S5E11LA6**	0.55	1.9	3.8	11	13.5	9100	9100	9100	9100	9100	643	49400	120000
35	11	10	10300	1.8	295.6	IE4	**BK90Z-../S4E11MA6**	0.5	1.6	3.3	10	12	7800	8800	10300	10300	10300	632	49400	120000
35	11	10	10300	1.8	295.6	IE5	**BK90Z-../S5E11LA6**	0.5	1.6	3.3	10	12	10300	10300	10300	10300	10300	643	49400	120000
35	11	9	11500	1.6	330.7	IE4	**BK90Z-../S4E11MA6**	0.45	1.5	3	9	10.5	8700	9900	11500	11500	11500	632	49400	120000
35	11	9	11500	1.6	330.7	IE5	**BK90Z-../S5E11LA6**	0.45	1.5	3	9	10.5	11500	11500	11500	11500	11500	643	49400	120000
35	11	7.7	13600	1.4	389.1	IE4	**BK90Z-../S4E11MA6**	0.38	1.2	2.5	7.7	9.2	10300	11600	13600	13600	13600	632	49400	120000
35	11	7.7	13600	1.4	389.1	IE5	**BK90Z-../S5E11LA6**	0.38	1.2	2.5	7.7	9.2	13600	13600	13600	13600	13600	643	49400	120000
35	11	6.8	15200	1.2	435.3	IE4	**BK90Z-../S4E11MA6**	0.34	1.1	2.2	6.8	8.2	11500	13000	15200	15200	15200	632	49400	120000
35	11	6.8	15200	1.2	435.3	IE5	**BK90Z-../S5E11LA6**	0.34	1.1	2.2	6.8	8.2	15200	15200	15200	15200	15200	643	49400	120000
35	11	6	17400	1.1	499.2	IE4	**BK90Z-../S4E11MA6**	0.3	1	2	6	7.2	13200	14900	17400	17400	17400	632	49400	120000
35	11	6	17400	1.1	499.2	IE5	**BK90Z-../S5E11LA6**	0.3	1	2	6	7.2	17400	17400	17400	17400	17400	643	49400	120000
35	11	5.3	19500	0.95	558.5	IE4	**BK90Z-../S4E11MA6**	0.26	0.85	1.7	5.3	6.4	14800	16700	19500	19500	19500	632	49400	120000
35	11	5.3	19500	0.95	558.5	IE5	**BK90Z-../S5E11LA6**	0.26	0.85	1.7	5.3	6.4	19500	19500	19500	19500	19500	643	49400	120000
35	11	4.7	22000	0.83	637.7	IE4	**BK90Z-../S4E11MA6**	0.23	0.75	1.5	4.7	5.6	16800	19100	22000	22000	22000	632	49400	120000
35	11	4.7	22000	0.83	637.7	IE5	**BK90Z-../S5E11LA6**	0.23	0.75	1.5	4.7	5.6	22000	22000	22000	22000	22000	643	49400	120000

MN = 48 Nm (PN = 15 kW)



M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
48	15	630	205	0.93	4.73	IE5	**BK30-../S5E11LA6**	31.5	105	210	630	760	152	174	205	205	174	76	1550	8800
48	15	400	325	0.81	7.45	IE5	**BK30-../S5E11LA6**	20	67	134	400	480	235	270	325	325	270	76	2200	10400
48	15	260	490	0.84	11.39	IE5	**BK30-../S5E11LA6**	13	43.5	87	260	315	355	410	490	490	410	76	4150	11000
48	15	640	200	2.1	4.63	IE5	**BK40-../S5E11LA6**	32	107	215	640	770	149	170	200	200	170	102	430	8900
48	15	495	265	1.8	6.02	IE5	**BK40-../S5E11LA6**	24.5	83	166	495	590	193	220	265	265	220	102	470	9800
48	15	400	330	1.5	7.49	IE5	**BK40-../S5E11LA6**	20	66	133	400	480	240	275	330	330	275	102	750	10500
48	15	320	410	1.2	9.31	IE5	**BK40-../S5E11LA6**	16	53	107	320	385	295	340	410	410	340	102	1040	11200
48	15	265	480	1.5	11.17	IE5	**BK40-../S5E11LA6**	13	44.5	89	265	320	350	400	480	480	400	102	4100	13100
48	15	250	520	0.94	11.86	IE5	**BK40-../S5E11LA6**	12.5	42	84	250	300	380	435	520	520	435	102	1770	12200
48	15	205	620	1.2	14.5	IE5	**BK40-../S5E11LA6**	10	34	68	205	245	455	520	620	620	520	102	4500	14300
48	15	166	770	1	18.05	IE5	**BK40-../S5E11LA6**	8.3	27.5	55	166	199	560	640	770	770	640	102	4900	15300
48	15	133	960	0.8	22.44	IE5	**BK40-../S5E11LA6**	6.6	22	44.5	133	160	700	800	960	960	800	102	5500	16500
48	15	410	320	2.5	7.29	IE5	**BK50-../S5E11LA6**	20.5	68	137	410	490	230	265	320	320	265	132	620	111000
48	15	305	420	2.2	9.73	IE5	**BK50-../S5E11LA6**	15	51	102	305	365	305	350	420	420	350	132	5400	15400
48	15	300	440	1.8	10	IE5	**BK50-../S5E11LA6**	15	50	100	300	360	320	365	440	440	365	132	1220	13200
48	15	215	600	1.7	13.95	IE5	**BK50-../S5E11LA6**	10.5	35.5	71	215	255	435	500	600	600	500	132	6100	17400
48	15	167	780	0.92	17.92	IE5	**BK50-../S5E11LA6**	8.3	27.5	55	167	200	570	650	780	780	650	132	4600	16800
48	15	155	830	1.3	19.33	IE5	**BK50-../S5E11LA6**	7.7	25.5	51	155	186	600	690	830	830	690	132	6900	19200
48	15	113	1140	0.92	26.51	IE5	**BK50-../S5E11LA6**	5.6	18.5	37.5	113	135	830	950	1140	1140	950	132	7800	21200
48	15	215	660	3	13.85	IE5	**BK60-../S5E11LA6**	10.5	36	72	215	255	480	550	660	660	550	142	3850	18000
48	15	205	690	2.8	14.41	IE5	**BK60-../S5E11LA6**	10	34.5	69	205	245	500	570	690	690	570	142	3650	18600
48	15	186	770	2.6	16.05	IE5	**BK60-../S5E11LA6**	9.3	31	62	186	220	560	640	770	770	640	142	4050	18800
48	15	163	880	2.4	18.36	IE5	**BK60-../S5E11LA6**	8.1	27	54	163	196	640	730	880	880	730	142	4000	19900
48	15	146	980	2.3	20.54	IE5	**BK60-../S5E11LA6**	7.3	24	48.5	146	175	710	820	980	980	820	142	4400	20600
48	15	122	1170	2	24.45	IE5	**BK60-../S5E11LA6**	6.1	20	40.5	122	147	850	970	1170	1170	970	142	4850	22000
48	15	109	1310	1.8	27.36	IE5	**BK60-../S5E11LA6**	5.4	18	36.5	109	131	950	1090	1310	1310	1090	142	5600	23200
48	15	88	1620	1.4	33.78	IE5	**BK60-../S5E11LA6**	4.4	14.5	29.5	88	106	1180	1350	1620	1620	1350	142	6500	25200
48	15	79	1810	1.3	37.8	IE5	**BK60-../S5E11LA6**	3.9	13	26	79	95	1320	1510	1810	1810	1510	142	7300	26500
48	15	66	2150	1.1	45.05	IE5	**BK60-../S5E11LA6**	3.3	11	22	66	79	1570	1800	2150	2150	1800	142	8200	28300
48	15	59	2400	0.95	50.4	IE5	**BK60-../S5E11LA6**	2.9	9.9	19.5	59	71	1760	2000	2400	2400	2000	142	9100	29800
48	15	50	2800	0.81	58.95	IE5	**BK60-../S5E11LA6**	2.5	8.4	16.5	50	61	2050	2350	2800	2800	2350	142	9900	31500
48	15	97	1480	3	30.9	IE5	**BK70-../S5E11LA6**	4.8	16	32	97	116	1080	1230	1480	1480	1230	221	7500	33600
48	15	85	1680	2.8	35.15	IE5	**BK70-../S5E11LA6**	4.2	14	28	85	102	1230	1400	1680	1680	1400	221	8000	35000
48	15	74	1920	2.5	40.08	IE5	**BK70-../S5E11LA6**	3.7	12	24.5	74	89	1400	1600	1920	1920	1600	221	8300	36300
48	15	65	2150	2.3	45.59	IE5	**BK70-../S5E11LA6**	3.2	10.5	21.5	65	78	1590	1820	2150	2150	1820	221	9000	37900
48	15	55	2550	2	54.15	IE5	**BK70-../S5E11LA6**	2.7	9.2	18	55	66	1890	2150	2550	2550	2150	221	9900	40200
48	15	48.5	2950	1.8	61.6	IE5	**BK70-../S5E11LA6**	2.4	8.1	16	48.5	58	2150	2450	2950	2950	2450	221	11500	42800
48	15	42.5	3350	1.5	70.23	IE5	**BK70-../S5E11LA6**	2.1	7.1	14	42.5	51	2450	2800	3350	3350	2800	221	12500	44800
48	15	37.5	3800	1.4	79.89	IE5	**BK70-../S5E11LA6**	1.8	6.2	12.5	37.5	45	2750	3150	3800	3800	3150	221	14300	47600
48	15	32.5	4350	1.2	90.96	IE5	**BK70-../S5E11LA6**	1.6	5.4	10.5	32.5	39.5	3150	3600	4350	4350	3600	221	15300	49900
48	15	28.5	4950	1	103.5	IE5	**BK70-../S5E11LA6**	1.4	4.8	9.6	28.5	34.5	3600	4100	4950	4950	4100	221	17200	50000
48	15	24.5	5700	0.9	120.2	IE5	**BK70-../S5E11LA6**	1.2	4.1	8.3	24.5	29.5	4200	4800	5700	5700	4800	221	18600	50000
48	15	42	3350	2.8	70.72	IE5	**BK80-../S5E11LA6**	2.1	7	14	42	50	2450	2800	3350	3350	2800	336	16600	68700
48	15	37.5	3800	2.6	79.22	IE5	**BK80-../S5E11LA6**	1.8	6.3	12.5	37.5	45	2750	3150	3800	3800	3150	336	17600	71300
48	15	32.5	4350	2.3	91.53	IE5	**BK80-../S5E11LA6**	1.6	5.4	10.5	32.5	39	3200	3650	4350	4350	3650	336	18300	74200
48	15	29	4900	2.1	102.5	IE5	**BK80-../S5E11LA6**	1.4	4.8	9.7	29	35	3550	4100	4900	4900	4100	336	20500	75000
48	15	25.5	5600	1.9	117.5	IE5	**BK80-../S5E11LA6**	1.2	4.2	8.5	25.5	30.5	4100	4700	5600	5600	4700	336	22300	75000
48	15	22.5	6300	1.7	131.6	IE5	**BK80-../S5E11LA6**	1.1	3.7	7.5	22.5	27	4600	5200	6300	6300	5200	336	24900	75000
48	15	19.5	7300	1.4	153.1	IE5	**BK80-../S5E11LA6**	0.95	3.2	6.5	19.5	23.5	5300	6100	7300	7300	6100	336	27200	75000
48	15	17	8200	1.3	171.5	IE5	**BK80-../S5E11LA6**	0.85	2.9	5.8	17	20.5	6000	6800	8200	8200	6800	336	30000	75000
48	15	16.5	8500	1.3	177.6	IE5	**BK80Z-../S5E11LA6**	0.8	2.8	5.6	16.5	20	6200	7100	8500	8500	7100	378	30000	75000
48	15	15	9500	1.2	198.9	IE5	**BK80Z-../S5E11LA6**	0.75	2.5	5	15	18	6900	7900	9500	9500	7900	378	30000	75000
48	15	13	10800	1.1	226.1	IE5	**BK80Z-../S5E11LA6**	0.65	2.2	4.4	13	15.5	7900	9000	10800	10800	9000	378	30000	75000
48	15	11.5	12100	0.95	253.3	IE5	**BK80Z-../S5E11LA6**	0.55	1.9	3.9	11.5	14	8800	10100	12100	12100	10100	378	30000	75000
48	15	9.9	14400	0.8	300.6	IE5	**BK80Z-../S5E11LA6**	0.49	1.6	3.3	9.9	11.5	10500	12000	14400	14400	12000	378	30000	75000
48	15	17	8300	2.2	174.7	IE5	**BK90Z-../S5E11LA6**	0.85	2.8	5.7	17	20.5	6100	6900	8300	8300	6900	643	49400	120000
48	15	15	9300	2	195.4	IE5	**BK90Z-../S5E11LA6**	0.75	2.5	5.1	15	18	6800	7800	9300	9300	7800	643	49400	120000
48	15	12.5	11200	1.6	234.6	IE5	**BK90Z-../S5E11LA6**	0.6	2.1	4.2	12.5	15	8200	9300	11200	11200	9300	643	49400	120000
48	15	11	12600	1.5	262.5	IE5	**BK90Z-../S5E11LA6**	0.55	1.9	3.8	11	13.5	9100	10500	12600	12600	10500	643	49400	120000
48	15	10	14100	1.3	295.6	IE5	**BK90Z-../S5E11LA6**	0.5	1.6	3.3	10	12	10300	11800	14100	14100	11800	643	49400	120000
48	15	9	15800	1.2	330.7	IE5	**BK90Z-../S5E11LA6**	0.45	1.5	3	9	10.5	11500	13200	15800	15800	13200	643	49400	120000
48	15	7.7	18600	0.99	389.1	IE5	**BK90Z-../S5E11LA6**	0.38	1.2	2.5	7.7	9.2	13600	15500	18600	18600	15500	643	49400	120000
48	15	6.8	20500	0.89	435.3	IE5	**BK90Z-../S5E11LA6**	0.34	1.1	2.2	6.8	8.2	15200	17400	20500	20500	17400	643	49400	120000



9

BS-series worm-geared motors - Selection

Description of worm-gear units 259
Sizes 259
Efficiency 259
Bauer service factors (f_B) for worm-geared motors 259
Continuous operation without switching frequency Z ≤1/h 259
Switching duty 260
Ambient temperature 260
Bauer service factor 260
Explanation of shock classification 260
Key to abbreviations 261
Selection tables, worm-geared motors 261
Selection - worm-geared motors - n_1 = 1500 $^1/_{min}$ 262
Selection - worm-geared motors - n_1 = 3000 $^1/_{min}$ 276

Sizes

Bauer BS-series worm-geared motors are normally supplied in eight frame sizes and with torques of 25 to 1,000 Nm. Higher torques are available on request. The gear unit is accommodated in a sturdy cast housing.

Efficiency

The efficiency of worm-geared motors depends on numerous factors, including lubrication, extent of wear, temperature and vibration. Calculated efficiency, therefore, is merely a guideline value. Please consult BAUER and state the boundary conditions if efficiency or self-locking capability are important factors for your application.

Bauer service factors (f_B) for worm-geared motors

Worm gears transmit torque by sliding friction only, which means that losses and temperature are inevitably higher than with helical-gear arrangements.

Of the numerous factors influencing the total loading of a worm-gear unit, the most important include:

- Mean torque (rated torque)
- Daily operating hours
- Severity of torque peaks (shock classification)
- Frequency of torque peaks (switching duty)
- Ambient temperature

These factors can be represented in a simplified and practical manner by **service factors**. The tables and explanations below attempt to provide an objective description of the **shock classification**, rather than a classification of the driven machinery. Experience has shown that, in addition to the torque shocks caused by the driven machinery (M_x/M_N), above all the power transmission components (clutches, chains etc.) plus the mass ratios play a decisive role in this.

See Bauer special imprint SD32 for more information.

Continuous operation without switching frequency Z ≤1/h

Factor f_1 for shock classification and operating time

Shock classification	Operating hours per day t_d ≤10 min	≤1 h	>1 h	>4 h	>8 h	>16 h
			≤4 h	≤8 h	≤16 h	≤24 h
I	0,7	0,8	0,9	1,0	1,25	1,4
II	0,9	1,0	1,12	1,25	1,6	1,8
III	1,25	1,4	1,6	1,8	2,2	2,5

Switching duty

Factor f_2 or shock classification and switching frequency

Switching frequency in single- shift operation $t_d \leq 8$ h/d

Shock classification	1 <Z ≤100	100 <Z ≤1000	1000 <Z
I	1.25	1.4	1.6
II	1.6	1.8	2.0
III	1.8	2.0	2.2

Switching frequency in multiple- shift operation $t_d > 8$ h/d

Shock classification	1 <Z ≤100	100 <Z ≤1000	1000 <Z
I	1.4	1.6	1.8
II	1.8	2.0	2.2
III	2.0	2.2	2.5

Ambient temperature

Factor f_3 for increased ambient temperature

AT	-10°C .. +25°C	>25°C	>30°C	>35°C	>40°C	>45°C	>50°C	>55°C
	no Factor	1.1	1.2	1.3	1.4	1.5	1.6	Enquiry

Bauer service factor

Bauer service factor f_B = maximum value f_1, f_2, f_3 (at daily operating hours > 1h)

For example: Shock classification II for Z = 100 switching operations per hour and multiple-shift operation yields a service factor $f_B = f_2 = 1.8$

9

Explanation of shock classification

Shock classification I:
Uniform without shock loads. All the following requirements must be satisfied:
- FI ≤1.3
- $M_x/M_N \leq 1.0$
- Shock-absorbing power transmission components (e.g. highly resilient, zero-play coupling, φ N ≥5°)

Shock classification II:
Moderate shock loads. At least one of the following conditions applies:
- 1.3 <FI ≤2
- $1 \leq M_x/M_N \leq 1.4$
- Shock-neutral power transmission components (e.g. gear wheels, zero- playrigid coupling or resilient coupling with φ N <5 °)

Shock classification III:
Heavy shock loads. At least one of the following conditions applies:
- FI >2
- $1.4 < M_x/M_N \leq 2.0$
- Shock-amplifying power transmission components (e.g. coupling with play or chain drive)

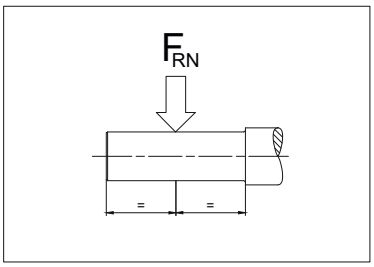
Key to abbreviations

Z	Switching duty number of switching operations per hour
t_d	Daily operating time in hours (h/d)
FI	Factor of inertia FI = $(J_{ext} + J_{rot})/J_{rot}$
J_{ext}	Mass moment of inertia of the machine to be driven, in relation to the motor's rotor shaft (kgm^2)
J_{rot}	Mass moment of inertia of the motor rotor (kgm^2)
M_x	Highest impact torque above the static torque which can occur during normal operation or in emergency situations
M_N	Required static load torque for the application
M_x/M_N	Relative torque - Factor
φ_N	Torsional offset of the resilient coupling under rated torque
UT	Ambient temperature (°C)

Selection tables, worm-geared motors

Key to abbreviations

P	Rated output
n_2	Rated speed of the output shaft
i	Gear reduction ratio
M_2	Rated torque at the output shaft
f_B	Bauer Service factor
F_{RN}	Maximum permissible radial force with standard solid shaft (Code -.1 und -.2)

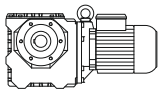


Use the selection tables to determine the size of geared motor required. The codes clearly define the Type of gear unit and output shaft (see chapter 13 “dimensional drawings worm-geared motors”).

Motor power overload protection

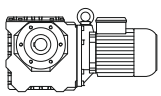
Motor-power ratings, particularly in conjunction with four-stage and multi-stage gear units, are more than ample in some instances. Consequently, and in much the same way as with low-power motors, rated current is not a measure of gear loading and cannot be used to protect the gear unit against overloading. It is advisable to provide gears at risk from excessive load or blockage with a protective mechanism (e. g., slip clutch, slip hub, shear pin or an alternative).

MN = 0.76 Nm (PN = 0.12 kW)



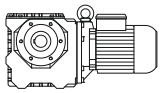
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
0.76	0.12	83	10.1	2.5	18	IE4	**BS02-../S4E04SA4-1**	8.3	27.5	55	83	100	10.1	10.1	10.1	10.1	10.1	3.5	1250	-
0.76	0.12	68	11.7	2.1	22	IE4	**BS02-../S4E04SA4-1**	6.8	22.5	45	68	81	11.7	11.7	11.7	11.7	11.7	3.5	1250	-
0.76	0.12	55	12.9	1.9	27	IE4	**BS02-../S4E04SA4-1**	5.5	18.5	37	55	66	12.9	12.9	12.9	12.9	12.9	3.5	1250	-
0.76	0.12	45	15	1.7	33	IE4	**BS02-../S4E04SA4-1**	4.5	15	30	45	54	15	15	15	15	15	3.5	1250	-
0.76	0.12	34.5	20	1.2	43	IE4	**BS02-../S4E04SA4-1**	3.4	11.5	23	34.5	41.5	20	20	20	20	20	3.5	1250	-
0.76	0.12	27.5	23	0.94	54	IE4	**BS02-../S4E04SA4-1**	2.7	9.2	18.5	27.5	33	23	23	23	23	23	3.5	1250	-
0.76	0.12	61	14	2.4	24.25	IE4	**BS04-../S4E04SA4-1**	6.1	20.5	41	61	74	14	14	14	14	14	3.9	2250	-
0.76	0.12	57	14.1	2.7	26.21	IE4	**BS04-../S4E04SA4-1**	5.7	19	38	57	68	14.1	14.1	14.1	14.1	14.1	3.9	2250	-
0.76	0.12	47.5	16.7	2.3	31.5	IE4	**BS04-../S4E04SA4-1**	4.7	15.5	31.5	47.5	57	16.7	16.7	16.7	16.7	16.7	3.9	2250	-
0.76	0.12	39	20	1.8	38.42	IE4	**BS04-../S4E04SA4-1**	3.9	13	26	39	46.5	20	20	20	20	20	3.9	2250	-
0.76	0.12	31	24.5	1.5	47.86	IE4	**BS04-../S4E04SA4-1**	3.1	10	20.5	31	37.5	24.5	24.5	24.5	24.5	24.5	3.9	2250	-
0.76	0.12	24	31	1.2	61.5	IE4	**BS04-../S4E04SA4-1**	2.4	8.1	16	24	29	31	31	31	31	31	3.9	2250	-
0.76	0.12	23	30.5	1.2	64.06	IE4	**BS04-../S4E04SA4-1**	2.3	7.8	15.5	23	28	30.5	30.5	30.5	30.5	30.5	3.9	2250	-
0.76	0.12	21	35.5	1.1	71.18	IE4	**BS04-../S4E04SA4-1**	2.1	7	14	21	25	35.5	35.5	35.5	35.5	35.5	3.9	2250	-
0.76	0.12	19	35.5	1.1	77	IE4	**BS04-../S4E04SA4-1**	1.9	6.4	12.5	19	23	35.5	35.5	35.5	35.5	35.5	3.9	2250	-
0.76	0.12	16.5	44	0.85	90	IE4	**BS04-../S4E04SA4-1**	1.6	5.5	11	16.5	20	44	44	44	44	44	3.9	2250	-
0.76	0.12	15.5	42	0.9	93.92	IE4	**BS04-../S4E04SA4-1**	1.5	5.3	10.5	15.5	19	42	42	42	42	42	3.9	2250	-
0.76	0.12	25.5	31	2.9	58.15	IE4	**BS06-../S4E04SA4-1**	2.5	8.5	17	25.5	30.5	31	31	31	31	31	8.4	3500	-
0.76	0.12	23	33	2.4	64.06	IE4	**BS06-../S4E04SA4-1**	2.3	7.8	15.5	23	28	33	33	33	33	33	8.4	3500	-
0.76	0.12	21	38	2.4	71.18	IE4	**BS06-../S4E04SA4-1**	2.1	7	14	21	25	38	38	38	38	38	8.4	3500	-
0.76	0.12	19	39	2.2	77	IE4	**BS06-../S4E04SA4-1**	1.9	6.4	12.5	19	23	39	39	39	39	39	8.4	3500	-
0.76	0.12	16.5	47.5	2	90	IE4	**BS06-../S4E04SA4-1**	1.6	5.5	11	16.5	20	47.5	47.5	47.5	47.5	47.5	8.4	3500	-
0.76	0.12	14.5	54	1.8	103.1	IE4	**BS06-../S4E04SA4-1**	1.4	4.8	9.6	14.5	17	54	54	54	54	54	8.4	3500	-
0.76	0.12	12.5	58	1.6	118.8	IE4	**BS06-../S4E04SA4-1**	1.2	4.2	8.4	12.5	15	58	58	58	58	58	8.4	3500	-
0.76	0.12	11.5	65	1.6	129	IE4	**BS06-../S4E04SA4-1**	1.1	3.8	7.7	11.5	13.5	65	65	65	65	65	8.4	3500	-
0.76	0.12	10.5	69	1.4	142.2	IE4	**BS06-../S4E04SA4-1**	1	3.5	7	10.5	12.5	69	69	69	69	69	8.4	3500	-
0.76	0.12	10	72	1.5	146.8	IE4	**BS06-../S4E04SA4-1**	1	3.4	6.8	10	12	72	72	72	72	72	8.4	3500	-
0.76	0.12	8.7	83	1.1	171	IE4	**BS06-../S4E04SA4-1**	0.85	2.9	5.8	8.7	10.5	83	83	83	83	83	8.4	3500	-
0.76	0.12	8.6	79	1.2	174	IE4	**BS06-../S4E04SA4-1**	0.85	2.8	5.7	8.6	10	79	79	79	79	79	8.4	3500	-
0.76	0.12	6.8	98	0.99	220	IE4	**BS06-../S4E04SA4-1**	0.65	2.2	4.5	6.8	8.1	98	98	98	98	98	8.4	3500	-
0.76	0.12	5.9	111	0.89	252	IE4	**BS06-../S4E04SA4-1**	0.55	1.9	3.9	5.9	7.1	111	111	111	111	111	8.4	3500	-
0.76	0.12	7.5	97	1.5	200	IE4	**BS10Z-../S4E04SA4-1**	0.75	2.5	5	7.5	9	97	97	97	97	97	21	6000	-
0.76	0.12	5.9	123	1.5	254	IE4	**BS10Z-../S4E04SA4-1**	0.55	1.9	3.9	5.9	7	123	123	123	123	123	21	6000	-
0.76	0.12	4.9	142	1.3	302.5	IE4	**BS10Z-../S4E04SA4-1**	0.49	1.6	3.3	4.9	5.9	142	142	142	142	142	21	6000	-
0.76	0.12	4.1	169	1.1	360.3	IE4	**BS10Z-../S4E04SA4-1**	0.41	1.3	2.7	4.1	4.9	169	169	169	169	169	21	6000	-
0.76	0.12	3.4	200	0.95	432.4	IE4	**BS10Z-../S4E04SA4-1**	0.34	1.1	2.3	3.4	4.1	200	200	200	200	200	21	6000	-
0.76	0.12	7.4	97	2.9	201.4	IE4	**BS20Z-../S4E04SA4-1**	0.7	2.4	4.9	7.4	8.9	97	97	97	97	97	32	8000	-
0.76	0.12	5.8	125	2.4	257.8	IE4	**BS20Z-../S4E04SA4-1**	0.55	1.9	3.8	5.8	6.9	125	125	125	125	125	32	8000	-
0.76	0.12	4.9	143	2.1	300.1	IE4	**BS20Z-../S4E04SA4-1**	0.49	1.6	3.3	4.9	5.9	143	143	143	143	143	32	8000	-
0.76	0.12	4.1	169	1.9	359.9	IE4	**BS20Z-../S4E04SA4-1**	0.41	1.3	2.7	4.1	5	169	169	169	169	169	32	8000	-
0.76	0.12	3.4	199	1.7	430.8	IE4	**BS20Z-../S4E04SA4-1**	0.34	1.1	2.3	3.4	4.1	199	199	199	199	199	32	8000	-
0.76	0.12	2.7	225	1.6	539.7	IE4	**BS20Z-../S4E04SA4-1**	0.27	0.9	1.8	2.7	3.3	225	225	225	225	225	32	8000	-
0.76	0.12	2.4	250	1.3	619.2	IE4	**BS20Z-../S4E04SA4-1**	0.24	0.8	1.6	2.4	2.9	250	250	250	250	250	32	8000	-
0.76	0.12	1.9	310	0.99	763.4	IE4	**BS20Z-../S4E04SA4-1**	0.19	0.65	1.3	1.9	2.3	310	310	310	310	310	32	8000	-
0.76	0.12	1.4	530	0.91	1022	IE4	**BS30G06-../S4E04SA4-1**	0.14	0.48	0.95	1.4	1.7	530	530	530	530	530	53	10000	-

MN = 1 Nm (PN = 0.157 kW)



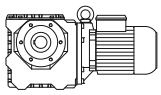
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
1	0.157	140	8.7	2.9	10.67	IE2	**BS02-../SHE04SA4-1**	14	46.5	93	140	168	6.6	7.4	8.7	8.7	8.7	3.5	1250	-
1	0.157	111	10.5	2.4	13.5	IE2	**BS02-../SHE04SA4-1**	11	37	74	111	133	8	8.9	10.5	10.5	10.5	3.5	1250	-
1	0.157	83	13.3	1.9	18	IE2	**BS02-../SHE04SA4-1**	8.3	27.5	55	83	100	10.1	11.3	13.3	13.3	13.3	3.5	1250	-
1	0.157	68	15.3	1.6	22	IE2	**BS02-../SHE04SA4-1**	6.8	22.5	45	68	81	11.7	13	15.3	15.3	15.3	3.5	1250	-
1	0.157	55	17	1.5	27	IE2	**BS02-../SHE04SA4-1**	5.5	18.5	37	55	66	12.9	14.4	17	17	17	3.5	1250	-
1	0.157	45	19.8	1.3	33	IE2	**BS02-../SHE04SA4-1**	4.5	15	30	45	54	15	16.8	19.8	19.8	19.8	3.5	1250	-
1	0.157	34.5	26.5	0.9	43	IE2	**BS02-../SHE04SA4-1**	3.4	11.5	23	34.5	41.5	20	22.5	26.5	26.5	26.5	3.5	1250	-
1	0.157	91	12.5	2.8	16.31	IE2	**BS04-../SHE04SA4-1**	9.1	30.5	61	91	110	9.5	10.6	12.5	12.5	12.5	3.9	1970	-
1	0.157	83	12.7	2.7	18	IE2	**BS04-../SHE04SA4-1**	8.3	27.5	55	83	100	9.7	10.8	12.7	12.7	12.7	3.9	1950	-
1	0.157	71	15.9	2.3	20.96	IE2	**BS04-../SHE04SA4-1**	7.1	23.5	47.5	71	85	12.1	13.5	15.9	15.9	15.9	3.9	2100	-
1	0.157	61	18.4	1.8	24.25	IE2	**BS04-../SHE04SA4-1**	6.1	20.5	41	61	74	14	15.6	18.4	18.4	18.4	3.9	2250	-
1	0.157	57	18.6	2	26.21	IE2	**BS04-../SHE04SA4-1**	5.7	19	38	57	68	14.1	15.8	18.6	18.6	18.6	3.9	2250	-
1	0.157	47.5	22	1.7	31.5	IE2	**BS04-../SHE04SA4-1**	4.7	15.5	31.5	47.5	57	16.7	18.7	22	22	22	3.9	2250	-
1	0.157	39	26.5	1.4	38.42	IE2	**BS04-../SHE04SA4-1**	3.9	13	26	39	46.5	20	22.5	26.5	26.5	26.5	3.9	2250	-
1	0.157	31	32.5	1.2	47.86	IE2	**BS04-../SHE04SA4-1**	3.1	10	20.5	31	37.5	24.5	27.5	32.5	32.5	32.5	3.9	2250	-
1	0.157	24	41	0.92	61.5	IE2	**BS04-../SHE04SA4-1**	2.4	8.1	16	24	29	31	35	41	41	41	3.9	2250	-
1	0.157	23	40	0.89	64.06	IE2	**BS04-../SHE04SA4-1**	2.3	7.8	15.5	23	28	30.5	34	40	40	40	3.9	2250	-
1	0.157	21	46.5	0.81	71.18	IE2	**BS04-../SHE04SA4-1**	2.1	7	14	21	25	35.5	39.5	46.5	46.5	46.5	3.9	2250	-
1	0.157	19	46.5	0.81	77	IE2	**BS04-../SHE04SA4-1**	1.9	6.4	12.5	19	23	35.5	39.5	46.5	46.5	46.5	3.9	2250	-
1	0.157	36	29.5	2.9	41.29	IE2	**BS06-../SHE04SA4-1**	3.6	12	24	36	43.5	22.5	25	29.5	29.5	29.5	8.4	3500	-

MN = 1 Nm (PN = 0.157 kW)



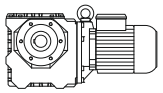
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
1	0.157	30.5	34.5	2.5	48.6	IE2	**BS06-../SHE04SA4-1**	3	10	20.5	30.5	37	26.5	29.5	34.5	34.5	34.5	8.4	3500	-
1	0.157	25.5	41	2.2	58.15	IE2	**BS06-../SHE04SA4-1**	2.5	8.5	17	25.5	30.5	31	35	41	41	41	8.4	3500	-
1	0.157	23	43.5	1.8	64.06	IE2	**BS06-../SHE04SA4-1**	2.3	7.8	15.5	23	28	33	37	43.5	43.5	43.5	8.4	3500	-
1	0.157	21	50	1.9	71.18	IE2	**BS06-../SHE04SA4-1**	2.1	7	14	21	25	38	42.5	50	50	50	8.4	3500	-
1	0.157	19	51	1.6	77	IE2	**BS06-../SHE04SA4-1**	1.9	6.4	12.5	19	23	39	43.5	51	51	51	8.4	3500	-
1	0.157	16.5	62	1.6	90	IE2	**BS06-../SHE04SA4-1**	1.6	5.5	11	16.5	20	47.5	53	62	62	62	8.4	3500	-
1	0.157	14.5	71	1.4	103.1	IE2	**BS06-../SHE04SA4-1**	1.4	4.8	9.6	14.5	17	54	60	71	71	71	8.4	3500	-
1	0.157	12.5	77	1.2	118.8	IE2	**BS06-../SHE04SA4-1**	1.2	4.2	8.4	12.5	15	58	65	77	77	77	8.4	3500	-
1	0.157	11.5	86	1.2	129	IE2	**BS06-../SHE04SA4-1**	1.1	3.8	7.7	11.5	13.5	65	73	86	86	86	8.4	3500	-
1	0.157	10.5	91	1.1	142.2	IE2	**BS06-../SHE04SA4-1**	1	3.5	7	10.5	12.5	69	77	91	91	91	8.4	3500	-
1	0.157	10	95	1.1	146.8	IE2	**BS06-../SHE04SA4-1**	1	3.4	6.8	10	12	72	81	95	95	95	8.4	3500	-
1	0.157	8.7	109	0.8	171	IE2	**BS06-../SHE04SA4-1**	0.85	2.9	5.8	8.7	10.5	83	93	109	109	109	8.4	3500	-
1	0.157	8.6	104	0.94	174	IE2	**BS06-../SHE04SA4-1**	0.85	2.8	5.7	8.6	10	79	88	104	104	104	8.4	3500	-
1	0.157	7.5	128	1.2	200	IE2	**BS10Z-../SHE04SA4-1**	0.75	2.5	5	7.5	9	97	108	128	128	128	21	6000	-
1	0.157	5.9	162	1.1	254	IE2	**BS10Z-../SHE04SA4-1**	0.55	1.9	3.9	5.9	7	123	138	162	162	162	21	6000	-
1	0.157	4.9	187	1	302.5	IE2	**BS10Z-../SHE04SA4-1**	0.49	1.6	3.3	4.9	5.9	142	159	187	187	187	21	6000	-
1	0.157	4.1	220	0.85	360.3	IE2	**BS10Z-../SHE04SA4-1**	0.41	1.3	2.7	4.1	4.9	169	189	220	220	220	21	6000	-
1	0.157	7.4	128	2.2	201.4	IE2	**BS20Z-../SHE04SA4-1**	0.7	2.4	4.9	7.4	8.9	97	109	128	128	128	32	8000	-
1	0.157	5.8	164	1.8	257.8	IE2	**BS20Z-../SHE04SA4-1**	0.55	1.9	3.8	5.8	6.9	125	140	164	164	164	32	8000	-
1	0.157	4.9	189	1.6	300.1	IE2	**BS20Z-../SHE04SA4-1**	0.49	1.6	3.3	4.9	5.9	143	160	189	189	189	32	8000	-
1	0.157	4.1	220	1.4	359.9	IE2	**BS20Z-../SHE04SA4-1**	0.41	1.3	2.7	4.1	5	169	189	220	220	220	32	8000	-
1	0.157	3.4	260	1.3	430.8	IE2	**BS20Z-../SHE04SA4-1**	0.34	1.1	2.3	3.4	4.1	199	220	260	260	260	32	8000	-
1	0.157	2.7	295	1.2	539.7	IE2	**BS20Z-../SHE04SA4-1**	0.27	0.9	1.8	2.7	3.3	225	250	295	295	295	32	8000	-
1	0.157	2.4	330	0.99	619.2	IE2	**BS20Z-../SHE04SA4-1**	0.24	0.8	1.6	2.4	2.9	250	280	330	330	330	32	8000	-

MN = 1.3 Nm (PN = 0.55 kW)



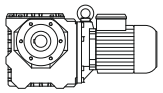
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
1.3	0.55	325	5.2	2.9	4.6	IE5	**BS02-../S5E06MA4**	32.5	108	215	325	390	5.2	5.2	5.2	5.2	5.2	6.8	1000	-
1.3	0.55	181	9	2.8	8.25	IE5	**BS02-../S5E06MA4**	18	60	121	181	215	9	9	9	9	9	6.8	1100	-
1.3	0.55	140	11.3	2.2	10.67	IE5	**BS02-../S5E06MA4**	14	46.5	93	140	168	11.3	11.3	11.3	11.3	11.3	6.8	1250	-
1.3	0.55	111	13.6	1.8	13.5	IE5	**BS02-../S5E06MA4**	11	37	74	111	133	13.6	13.6	13.6	13.6	13.6	6.8	1250	-
1.3	0.55	83	17.3	1.4	18	IE5	**BS02-../S5E06MA4**	8.3	27.5	55	83	100	17.3	17.3	17.3	17.3	17.3	6.8	1250	-
1.3	0.55	68	20	1.2	22	IE5	**BS02-../S5E06MA4**	6.8	22.5	45	68	81	20	20	20	20	20	6.8	1250	-
1.3	0.55	55	22	1.1	27	IE5	**BS02-../S5E06MA4**	5.5	18.5	37	55	66	22	22	22	22	22	6.8	1250	-
1.3	0.55	45	25.5	0.97	33	IE5	**BS02-../S5E06MA4**	4.5	15	30	45	54	25.5	25.5	25.5	25.5	25.5	6.8	1250	-
1.3	0.55	78	18.7	2.9	19	IE5	**BS03-../S5E06MA4**	7.8	26	52	78	94	18.7	18.7	18.7	18.7	18.7	6.9	1950	-
1.3	0.55	60	22	2.5	25	IE5	**BS03-../S5E06MA4**	6	20	40	60	72	22	22	22	22	22	6.9	1950	-
1.3	0.55	45	26	2.1	33	IE5	**BS03-../S5E06MA4**	4.5	15	30	45	54	26	26	26	26	26	6.9	1950	-
1.3	0.55	38	32	1.7	39	IE5	**BS03-../S5E06MA4**	3.8	12.5	25.5	38	46	32	32	32	32	32	6.9	1950	-
1.3	0.55	30	37.5	1.5	50	IE5	**BS03-../S5E06MA4**	3	10	20	30	36	37.5	37.5	37.5	37.5	37.5	6.9	1950	-
1.3	0.55	24	42.5	1.1	62	IE5	**BS03-../S5E06MA4**	2.4	8	16	24	29	42.5	42.5	42.5	42.5	42.5	6.9	1950	-
1.3	0.55	20	49.5	0.8	75	IE5	**BS03-../S5E06MA4**	2	6.6	13	20	24	49.5	49.5	49.5	49.5	49.5	6.9	1950	-
1.3	0.55	139	10.8	2.9	10.73	IE5	**BS04-../S5E06MA4**	13.5	46.5	93	139	167	10.8	10.8	10.8	10.8	10.8	7.3	1600	-
1.3	0.55	114	13.1	2.5	13.09	IE5	**BS04-../S5E06MA4**	11	38	76	114	137	13.1	13.1	13.1	13.1	13.1	7.3	1760	-
1.3	0.55	91	16.3	2.1	16.31	IE5	**BS04-../S5E06MA4**	9.1	30.5	61	91	110	16.3	16.3	16.3	16.3	16.3	7.3	1970	-
1.3	0.55	83	16.6	2	18	IE5	**BS04-../S5E06MA4**	8.3	27.5	55	83	100	16.6	16.6	16.6	16.6	16.6	7.3	1950	-
1.3	0.55	71	20.5	1.8	20.96	IE5	**BS04-../S5E06MA4**	7.1	23.5	47.5	71	85	20.5	20.5	20.5	20.5	20.5	7.3	2100	-
1.3	0.55	61	23.5	1.4	24.25	IE5	**BS04-../S5E06MA4**	6.1	20.5	41	61	74	23.5	23.5	23.5	23.5	23.5	7.3	2250	-
1.3	0.55	57	24	1.6	26.21	IE5	**BS04-../S5E06MA4**	5.7	19	38	57	68	24	24	24	24	24	7.3	2250	-
1.3	0.55	47.5	28.5	1.3	31.5	IE5	**BS04-../S5E06MA4**	4.7	15.5	31.5	47.5	57	28.5	28.5	28.5	28.5	28.5	7.3	2250	-
1.3	0.55	39	34	1.1	38.42	IE5	**BS04-../S5E06MA4**	3.9	13	26	39	46.5	34	34	34	34	34	7.3	2250	-
1.3	0.55	31	42	0.9	47.86	IE5	**BS04-../S5E06MA4**	3.1	10	20.5	31	37.5	42	42	42	42	42	7.3	2250	-
1.3	0.55	47.5	29.5	2.7	31.5	IE5	**BS06-../S5E06MA4**	4.7	15.5	31.5	47.5	57	29.5	29.5	29.5	29.5	29.5	12	3200	-
1.3	0.55	36	38.5	2.2	41.29	IE5	**BS06-../S5E06MA4**	3.6	12	24	36	43.5	38.5	38.5	38.5	38.5	38.5	12	3500	-
1.3	0.55	30.5	45	1.9	48.6	IE5	**BS06-../S5E06MA4**	3	10	20.5	30.5	37	45	45	45	45	45	12	3500	-
1.3	0.55	25.5	53	1.7	58.15	IE5	**BS06-../S5E06MA4**	2.5	8.5	17	25.5	30.5	53	53	53	53	53	12	3500	-
1.3	0.55	23	56	1.4	64.06	IE5	**BS06-../S5E06MA4**	2.3	7.8	15.5	23	28	56	56	56	56	56	12	3500	-
1.3	0.55	21	65	1.4	71.18	IE5	**BS06-../S5E06MA4**	2.1	7	14	21	25	65	65	65	65	65	12	3500	-
1.3	0.55	19	67	1.3	77	IE5	**BS06-../S5E06MA4**	1.9	6.4	12.5	19	23	67	67	67	67	67	12	3500	-
1.3	0.55	16.5	81	1.2	90	IE5	**BS06-../S5E06MA4**	1.6	5.5	11	16.5	20	81	81	81	81	81	12	3500	-
1.3	0.55	14.5	92	1.1	103.1	IE5	**BS06-../S5E06MA4**	1.4	4.8	9.6	14.5	17	92	92	92	92	92	12	3500	-
1.3	0.55	12.5	100	0.94	118.8	IE5	**BS06-../S5E06MA4**	1.2	4.2	8.4	12.5	15	100	100	100	100	100	12	3500	-
1.3	0.55	11.5	112	0.93	129	IE5	**BS06-../S5E06MA4**	1.1	3.8	7.7	11.5	13.5	112	112	112	112	112	12	3500	-
1.3	0.55	10.5	118	0.83	142.2	IE5	**BS06-../S5E06MA4**	1	3.5	7	10.5	12.5	118	118	118	118	118	12	3500	-
1.3	0.55	10	124	0.85	146.8	IE5	**BS06-../S5E06MA4**	1	3.4	6.8	10	12	124	124	124	124	124	12	3500	-
1.3	0.55	26	54	2.7	57.12	IE5	**BS10-../S5E06MA4**	2.6	8.7	17.5	26	31.5	54	54	54	54	54	23	4350	-
1.3	0.55	24.5	52	2.8	60.74	IE5	**BS10-../S5E06MA4**	2.4	8.2	16	24.5	29.5	52	52	52	52	52	23	4550	-
1.3	0.55	20.5	69	2.3	71.96	IE5	**BS10-../S5E06MA4**	2	6.9	13.5	20.5	25	69	69	69	69	69	23	5000	-
1.3	0.55	17.5	81	1.8	84.36	IE5	**BS10-../S5E06MA4**	1.7	5.9	11.5	17.5	21	81	81	81	81	81	23	5300	-

MN = 1.3 Nm (PN = 0.55 kW)



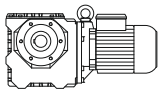
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
1.3	0.55	14.5	86	1.9	103.4	IE5	**BS10-../S5E06MA4**	1.4	4.8	9.6	14.5	17	86	86	86	86	86	23	5600	-
1.3	0.55	12.5	115	1.1	119.6	IE5	**BS10-../S5E06MA4**	1.2	4.1	8.3	12.5	15	115	115	115	115	115	23	6000	-
1.3	0.55	11.5	108	1.5	130.3	IE5	**BS10-../S5E06MA4**	1.1	3.8	7.6	11.5	13.5	108	108	108	108	108	23	6000	-
1.3	0.55	9.8	127	1.3	152.7	IE5	**BS10-../S5E06MA4**	0.95	3.2	6.5	9.8	11.5	127	127	127	127	127	23	6000	-
1.3	0.55	7.9	156	1.1	188.6	IE5	**BS10-../S5E06MA4**	0.75	2.6	5.3	7.9	9.5	156	156	156	156	156	23	6000	-
1.3	0.55	6.9	180	1	216.6	IE5	**BS10-../S5E06MA4**	0.65	2.3	4.6	6.9	8.3	180	180	180	180	180	23	6000	-
1.3	0.55	7.5	166	0.89	200	IE5	**BS10Z-../S5E06MA4**	0.75	2.5	5	7.5	9	166	166	166	166	166	24	6000	-
1.3	0.55	5.9	210	0.85	254	IE5	**BS10Z-../S5E06MA4**	0.55	1.9	3.9	5.9	7	210	210	210	210	210	24	6000	-
1.3	0.55	14.5	97	2.6	101.1	IE5	**BS20-../S5E06MA4**	1.4	4.9	9.8	14.5	17.5	97	97	97	97	97	34	7100	-
1.3	0.55	14	91	3	106.3	IE5	**BS20-../S5E06MA4**	1.4	4.7	9.4	14	16.5	91	91	91	91	91	34	7600	-
1.3	0.55	11.5	109	2.5	127.3	IE5	**BS20-../S5E06MA4**	1.1	3.9	7.8	11.5	14	109	109	109	109	109	34	8000	-
1.3	0.55	9.4	136	2	159.4	IE5	**BS20-../S5E06MA4**	0.9	3.1	6.2	9.4	11	136	136	136	136	136	34	8000	-
1.3	0.55	8.1	157	1.8	183	IE5	**BS20-../S5E06MA4**	0.8	2.7	5.4	8.1	9.8	157	157	157	157	157	34	8000	-
1.3	0.55	6.6	187	1.5	225.6	IE5	**BS20-../S5E06MA4**	0.65	2.2	4.4	6.6	7.9	187	187	187	187	187	34	8000	-
1.3	0.55	7.4	167	1.7	201.4	IE5	**BS20Z-../S5E06MA4**	0.7	2.4	4.9	7.4	8.9	167	167	167	167	167	35	8000	-
1.3	0.55	5.8	210	1.4	257.8	IE5	**BS20Z-../S5E06MA4**	0.55	1.9	3.8	5.8	6.9	210	210	210	210	210	35	8000	-
1.3	0.55	4.9	245	1.2	300.1	IE5	**BS20Z-../S5E06MA4**	0.49	1.6	3.3	4.9	5.9	245	245	245	245	245	35	8000	-
1.3	0.55	4.1	290	1.1	359.9	IE5	**BS20Z-../S5E06MA4**	0.41	1.3	2.7	4.1	5	290	290	290	290	290	35	8000	-
1.3	0.55	3.4	340	0.97	430.8	IE5	**BS20Z-../S5E06MA4**	0.34	1.1	2.3	3.4	4.1	340	340	340	340	340	35	8000	-
1.3	0.55	2.7	385	0.95	539.7	IE5	**BS20Z-../S5E06MA4**	0.27	0.9	1.8	2.7	3.3	385	385	385	385	385	35	8000	-
1.3	0.55	6.9	185	2.8	216.4	IE5	**BS30-../S5E06MA4**	0.65	2.3	4.6	6.9	8.3	185	185	185	185	185	51	10000	-
1.3	0.55	7.1	181	2.5	211.1	IE5	**BS30Z-../S5E06MA4**	0.7	2.3	4.7	7.1	8.5	181	181	181	181	181	54	10000	-
1.3	0.55	5.7	220	2.5	261.6	IE5	**BS30Z-../S5E06MA4**	0.55	1.9	3.8	5.7	6.8	220	220	220	220	220	54	10000	-
1.3	0.55	4.8	255	2.2	306.6	IE5	**BS30Z-../S5E06MA4**	0.48	1.6	3.2	4.8	5.8	255	255	255	255	255	54	10000	-
1.3	0.55	4.1	345	1.1	359.6	IE5	**BS30Z-../S5E06MA4**	0.41	1.3	2.7	4.1	5	345	345	345	345	345	54	10000	-
1.3	0.55	3.8	325	1.8	390.2	IE5	**BS30Z-../S5E06MA4**	0.38	1.2	2.5	3.8	4.6	325	325	325	325	325	54	10000	-
1.3	0.55	3.2	380	1.6	457.3	IE5	**BS30Z-../S5E06MA4**	0.32	1	2.1	3.2	3.9	380	380	380	380	380	54	10000	-
1.3	0.55	2.7	445	1.3	539.3	IE5	**BS30Z-../S5E06MA4**	0.27	0.9	1.8	2.7	3.3	445	445	445	445	445	54	10000	-
1.3	0.55	2.3	500	1.1	651	IE5	**BS30Z-../S5E06MA4**	0.23	0.75	1.5	2.3	2.7	500	500	500	500	500	54	10000	-
1.3	0.55	5.2	275	2.6	287.7	IE5	**BS40Z-../S5E06MA4**	0.5	1.7	3.4	5.2	6.2	275	275	275	275	275	68	15000	-
1.3	0.55	3.3	365	2.7	446.8	IE5	**BS40Z-../S5E06MA4**	0.33	1.1	2.2	3.3	4	365	365	365	365	365	68	15000	-
1.3	0.55	2.8	425	2.6	520.8	IE5	**BS40Z-../S5E06MA4**	0.28	0.95	1.9	2.8	3.4	425	425	425	425	425	68	15000	-
1.3	0.55	2.4	485	1.9	612.1	IE5	**BS40Z-../S5E06MA4**	0.24	0.8	1.6	2.4	2.9	485	485	485	485	485	68	15000	-
1.3	0.55	2	570	1.3	736.5	IE5	**BS40Z-../S5E06MA4**	0.2	0.65	1.3	2	2.4	570	570	570	570	570	68	15000	-
1.3	0.55	1.6	690	1.1	908.2	IE5	**BS40Z-../S5E06MA4**	0.16	0.55	1.1	1.6	1.9	690	690	690	690	690	68	15000	-
1.3	0.55	1.5	870	1	965.5	IE5	**BS40G10-../S5E06MA4**	0.15	0.5	1	1.5	1.8	870	870	870	870	870	73	15000	-
1.3	0.55	1.2	1070	0.82	1180	IE5	**BS40G10-../S5E06MA4**	0.12	0.42	0.8	1.2	1.5	1070	1070	1070	1070	1070	73	15000	-

MN = 1.6 Nm (PN = 0.67 kW)



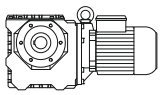
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
1.6	0.67	325	6.4	2.3	4.6	IE4	**BS02-../S4E06MA4**	32.5	108	215	325	390	6.4	6.4	6.4	6.4	6.4	6.8	1000	-
1.6	0.67	275	7.6	2.6	5.4	IE4	**BS02-../S4E06MA4**	27.5	92	185	275	330	7.6	7.6	7.6	7.6	7.6	6.8	1000	-
1.6	0.67	220	9.2	2.7	6.75	IE4	**BS02-../S4E06MA4**	22	74	148	220	265	9.2	9.2	9.2	9.2	9.2	6.8	1000	-
1.6	0.67	181	11	2.3	8.25	IE4	**BS02-../S4E06MA4**	18	60	121	181	215	11	11	11	11	11	6.8	1100	-
1.6	0.67	140	13.9	1.8	10.67	IE4	**BS02-../S4E06MA4**	14	46.5	93	140	168	13.9	13.9	13.9	13.9	13.9	6.8	1250	-
1.6	0.67	111	16.8	1.5	13.5	IE4	**BS02-../S4E06MA4**	11	37	74	111	133	16.8	16.8	16.8	16.8	16.8	6.8	1250	-
1.6	0.67	83	21	1.2	18	IE4	**BS02-../S4E06MA4**	8.3	27.5	55	83	100	21	21	21	21	21	6.8	1250	-
1.6	0.67	68	24.5	1	22	IE4	**BS02-../S4E06MA4**	6.8	22.5	45	68	81	24.5	24.5	24.5	24.5	24.5	6.8	1250	-
1.6	0.67	55	27	0.92	27	IE4	**BS02-../S4E06MA4**	5.5	18.5	37	55	66	27	27	27	27	27	6.8	1250	-
1.6	0.67	78	23	2.4	19	IE4	**BS03-../S4E06MA4**	7.8	26	52	78	94	23	23	23	23	23	6.9	1950	-
1.6	0.67	60	27.5	2	25	IE4	**BS03-../S4E06MA4**	6	20	40	60	72	27.5	27.5	27.5	27.5	27.5	6.9	1950	-
1.6	0.67	45	32	1.7	33	IE4	**BS03-../S4E06MA4**	4.5	15	30	45	54	32	32	32	32	32	6.9	1950	-
1.6	0.67	38	39.5	1.4	39	IE4	**BS03-../S4E06MA4**	3.8	12.5	25.5	38	46	39.5	39.5	39.5	39.5	39.5	6.9	1950	-
1.6	0.67	30	46	1.2	50	IE4	**BS03-../S4E06MA4**	3	10	20	30	36	46	46	46	46	46	6.9	1950	-
1.6	0.67	24	52	0.91	62	IE4	**BS03-../S4E06MA4**	2.4	8	16	24	29	52	52	52	52	52	6.9	1950	-
1.6	0.67	167	11.1	2.7	8.93	IE4	**BS04-../S4E06MA4**	16.5	55	111	167	200	11.1	11.1	11.1	11.1	11.1	7.3	1500	-
1.6	0.67	139	13.3	2.4	10.73	IE4	**BS04-../S4E06MA4**	13.5	46.5	93	139	167	13.3	13.3	13.3	13.3	13.3	7.3	1600	-
1.6	0.67	114	16.1	2	13.09	IE4	**BS04-../S4E06MA4**	11	38	76	114	137	16.1	16.1	16.1	16.1	16.1	7.3	1760	-
1.6	0.67	91	20	1.7	16.31	IE4	**BS04-../S4E06MA4**	9.1	30.5	61	91	110	20	20	20	20	20	7.3	1970	-
1.6	0.67	83	20	1.7	18	IE4	**BS04-../S4E06MA4**	8.3	27.5	55	83	100	20	20	20	20	20	7.3	1950	-
1.6	0.67	71	25	1.5	20.96	IE4	**BS04-../S4E06MA4**	7.1	23.5	47.5	71	85	25	25	25	25	25	7.3	2100	-
1.6	0.67	61	29	1.2	24.25	IE4	**BS04-../S4E06MA4**	6.1	20.5	41	61	74	29	29	29	29	29	7.3	2250	-
1.6	0.67	57	29.5	1.3	26.21	IE4	**BS04-../S4E06MA4**	5.7	19	38	57	68	29.5	29.5	29.5	29.5	29.5	7.3	2250	-
1.6	0.67	47.5	35	1.1	31.5	IE4	**BS04-../S4E06MA4**	4.7	15.5	31.5	47.5	57	35	35	35	35	35	7.3	2250	-
1.6	0.67	39	42	0.87	38.42	IE4	**BS04-../S4E06MA4**	3.9	13	26	39	46.5	42	42	42	42	42	7.3	2250	-
1.6	0.67	75	25	3	19.82	IE4	**BS06-../S4E06MA4**	7.5	25	50	75	90	25	25	25	25	25	12	2500	-
1.6	0.67	61	31	2.5	24.25	IE4	**BS06-../S4E06MA4**	6.1	20.5	41	61	74	31	31	31	31	31	12	2600	-
1.6	0.67	57	30.5	2.5	26.21	IE4	**BS06-../S4E06MA4**	5.7	19	38	57	68	30.5	30.5	30.5	30.5	30.5	12	3000	-
1.6	0.67	47.5	36.5	2.2	31.5	IE4	**BS06-../S4E06MA4**	4.7	15.5	31.5	47.5	57	36.5	36.5	36.5	36.5	36.5	12	3200	-

MN = 1.6 Nm (PN = 0.67 kW)



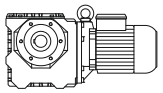
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
1.6	0.67	36	47.5	1.8	41.29	IE4	**BS06-../S4E06MA4**	3.6	12	24	36	43.5	47.5	47.5	47.5	47.5	47.5	12	3500	-
1.6	0.67	30.5	55	1.6	48.6	IE4	**BS06-../S4E06MA4**	3	10	20.5	30.5	37	55	55	55	55	55	12	3500	-
1.6	0.67	25.5	66	1.4	58.15	IE4	**BS06-../S4E06MA4**	2.5	8.5	17	25.5	30.5	66	66	66	66	66	12	3500	-
1.6	0.67	23	69	1.1	64.06	IE4	**BS06-../S4E06MA4**	2.3	7.8	15.5	23	28	69	69	69	69	69	12	3500	-
1.6	0.67	21	80	1.2	71.18	IE4	**BS06-../S4E06MA4**	2.1	7	14	21	25	80	80	80	80	80	12	3500	-
1.6	0.67	19	82	1	77	IE4	**BS06-../S4E06MA4**	1.9	6.4	12.5	19	23	82	82	82	82	82	12	3500	-
1.6	0.67	16.5	100	0.97	90	IE4	**BS06-../S4E06MA4**	1.6	5.5	11	16.5	20	100	100	100	100	100	12	3500	-
1.6	0.67	14.5	113	0.88	103.1	IE4	**BS06-../S4E06MA4**	1.4	4.8	9.6	14.5	17	113	113	113	113	113	12	3500	-
1.6	0.67	37.5	47.5	2.9	39.96	IE4	**BS10-../S4E06MA4**	3.7	12.5	25	37.5	45	47.5	47.5	47.5	47.5	47.5	23	3800	-
1.6	0.67	31.5	57	2.5	47.59	IE4	**BS10-../S4E06MA4**	3.1	10.5	21	31.5	37.5	57	57	57	57	57	23	4050	-
1.6	0.67	26	67	2.2	57.12	IE4	**BS10-../S4E06MA4**	2.6	8.7	17.5	26	31.5	67	67	67	67	67	23	4350	-
1.6	0.67	24.5	65	2.3	60.74	IE4	**BS10-../S4E06MA4**	2.4	8.2	16	24.5	29.5	65	65	65	65	65	23	4550	-
1.6	0.67	20.5	85	1.9	71.96	IE4	**BS10-../S4E06MA4**	2	6.9	13.5	20.5	25	85	85	85	85	85	23	5000	-
1.6	0.67	17.5	99	1.5	84.36	IE4	**BS10-../S4E06MA4**	1.7	5.9	11.5	17.5	21	99	99	99	99	99	23	5300	-
1.6	0.67	14.5	105	1.5	103.4	IE4	**BS10-../S4E06MA4**	1.4	4.8	9.6	14.5	17	105	105	105	105	105	23	5600	-
1.6	0.67	12.5	141	0.85	119.6	IE4	**BS10-../S4E06MA4**	1.2	4.1	8.3	12.5	15	141	141	141	141	141	23	6000	-
1.6	0.67	11.5	133	1.2	130.3	IE4	**BS10-../S4E06MA4**	1.1	3.8	7.6	11.5	13.5	133	133	133	133	133	23	6000	-
1.6	0.67	9.8	156	1.1	152.7	IE4	**BS10-../S4E06MA4**	0.95	3.2	6.5	9.8	11.5	156	156	156	156	156	23	6000	-
1.6	0.67	7.9	193	0.88	188.6	IE4	**BS10-../S4E06MA4**	0.75	2.6	5.3	7.9	9.5	193	193	193	193	193	23	6000	-
1.6	0.67	6.9	220	0.81	216.6	IE4	**BS10-../S4E06MA4**	0.65	2.3	4.6	6.9	8.3	220	220	220	220	220	23	6000	-
1.6	0.67	16.5	93	2.9	88.67	IE4	**BS20-../S4E06MA4**	1.6	5.6	11	16.5	20	93	93	93	93	93	34	7000	-
1.6	0.67	14.5	119	2.1	101.1	IE4	**BS20-../S4E06MA4**	1.4	4.9	9.8	14.5	17.5	119	119	119	119	119	34	7100	-
1.6	0.67	14	112	2.4	106.3	IE4	**BS20-../S4E06MA4**	1.4	4.7	9.4	14	16.5	112	112	112	112	112	34	7600	-
1.6	0.67	11.5	134	2	127.3	IE4	**BS20-../S4E06MA4**	1.1	3.9	7.8	11.5	14	134	134	134	134	134	34	8000	-
1.6	0.67	9.4	168	1.6	159.4	IE4	**BS20-../S4E06MA4**	0.9	3.1	6.2	9.4	11	168	168	168	168	168	34	8000	-
1.6	0.67	8.1	193	1.4	183	IE4	**BS20-../S4E06MA4**	0.8	2.7	5.4	8.1	9.8	193	193	193	193	193	34	8000	-
1.6	0.67	6.6	230	1.3	225.6	IE4	**BS20-../S4E06MA4**	0.65	2.2	4.4	6.6	7.9	230	230	230	230	230	34	8000	-
1.6	0.67	7.4	205	1.4	201.4	IE4	**BS20Z-../S4E06MA4**	0.7	2.4	4.9	7.4	8.9	205	205	205	205	205	35	8000	-
1.6	0.67	5.8	260	1.1	257.8	IE4	**BS20Z-../S4E06MA4**	0.55	1.9	3.8	5.8	6.9	260	260	260	260	260	35	8000	-
1.6	0.67	4.9	300	0.99	300.1	IE4	**BS20Z-../S4E06MA4**	0.49	1.6	3.3	4.9	5.9	300	300	300	300	300	35	8000	-
1.6	0.67	4.1	355	0.9	359.9	IE4	**BS20Z-../S4E06MA4**	0.41	1.3	2.7	4.1	5	355	355	355	355	355	35	8000	-
1.6	0.67	8	197	2.7	186.7	IE4	**BS30-../S4E06MA4**	0.8	2.6	5.3	8	9.6	197	197	197	197	197	51	10000	-
1.6	0.67	6.9	225	2.3	216.4	IE4	**BS30-../S4E06MA4**	0.65	2.3	4.6	6.9	8.3	225	225	225	225	225	51	10000	-
1.6	0.67	7.1	220	2	211.1	IE4	**BS30Z-../S4E06MA4**	0.7	2.3	4.7	7.1	8.5	220	220	220	220	220	54	10000	-
1.6	0.67	5.7	275	2	261.6	IE4	**BS30Z-../S4E06MA4**	0.55	1.9	3.8	5.7	6.8	275	275	275	275	275	54	10000	-
1.6	0.67	4.8	315	1.8	306.6	IE4	**BS30Z-../S4E06MA4**	0.48	1.6	3.2	4.8	5.8	315	315	315	315	315	54	10000	-
1.6	0.67	4.1	425	0.93	359.6	IE4	**BS30Z-../S4E06MA4**	0.41	1.3	2.7	4.1	5	425	425	425	425	425	54	10000	-
1.6	0.67	3.8	405	1.5	390.2	IE4	**BS30Z-../S4E06MA4**	0.38	1.2	2.5	3.8	4.6	405	405	405	405	405	54	10000	-
1.6	0.67	3.2	465	1.3	457.3	IE4	**BS30Z-../S4E06MA4**	0.32	1	2.1	3.2	3.9	465	465	465	465	465	54	10000	-
1.6	0.67	2.7	550	1.1	539.3	IE4	**BS30Z-../S4E06MA4**	0.27	0.9	1.8	2.7	3.3	550	550	550	550	550	54	10000	-
1.6	0.67	2.3	620	0.91	651	IE4	**BS30Z-../S4E06MA4**	0.23	0.75	1.5	2.3	2.7	620	620	620	620	620	54	10000	-
1.6	0.67	7.6	230	3	197.1	IE4	**BS40Z-../S4E06MA4**	0.75	2.5	5	7.6	9.1	230	230	230	230	230	68	15000	-
1.6	0.67	5.2	340	2.1	287.7	IE4	**BS40Z-../S4E06MA4**	0.5	1.7	3.4	5.2	6.2	340	340	340	340	340	68	15000	-
1.6	0.67	4.2	355	3	356.8	IE4	**BS40Z-../S4E06MA4**	0.42	1.4	2.8	4.2	5	355	355	355	355	355	68	15000	-
1.6	0.67	3.3	450	2.2	446.8	IE4	**BS40Z-../S4E06MA4**	0.33	1.1	2.2	3.3	4	450	450	450	450	450	68	15000	-
1.6	0.67	2.8	520	2.1	520.8	IE4	**BS40Z-../S4E06MA4**	0.28	0.95	1.9	2.8	3.4	520	520	520	520	520	68	15000	-
1.6	0.67	2.4	590	1.5	612.1	IE4	**BS40Z-../S4E06MA4**	0.24	0.8	1.6	2.4	2.9	590	590	590	590	590	68	15000	-
1.6	0.67	2	700	1.1	736.5	IE4	**BS40Z-../S4E06MA4**	0.2	0.65	1.3	2	2.4	700	700	700	700	700	68	15000	-
1.6	0.67	1.6	850	0.86	908.2	IE4	**BS40Z-../S4E06MA4**	0.16	0.55	1.1	1.6	1.9	850	850	850	850	850	68	15000	-
1.6	0.67	1.5	1080	0.81	965.5	IE4	**BS40G10-../S4E06MA4**	0.15	0.5	1	1.5	1.8	1080	1080	1080	1080	1080	73	15000	-

MN = 2.4 Nm (PN = 0.37 kW)



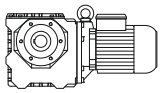
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
2.4	0.37	325	9.7	1.5	4.6	IE1	**BS02-../SSE06MA4**	32.5	108	215	325	390	7.2	8	8.9	9.7	9.7	6.8	1000	-
2.4	0.37	325	9.7	1.5	4.6	IE4	**BS02-../S4E06LA4**	32.5	108	215	325	390	9.7	9.7	9.7	9.7	9.7	6.8	1000	-
2.4	0.37	275	11.4	1.8	5.4	IE4	**BS02-../S4E06LA4**	27.5	92	185	275	330	11.4	11.4	11.4	11.4	11.4	6.8	1000	-
2.4	0.37	275	11.4	1.8	5.4	IE1	**BS02-../SSE06MA4**	27.5	92	185	275	330	8.5	9.5	10.4	11.4	11.4	6.8	1000	-
2.4	0.37	220	13.9	1.8	6.75	IE4	**BS02-../S4E06LA4**	22	74	148	220	265	13.9	13.9	13.9	13.9	13.9	6.8	1000	-
2.4	0.37	220	13.9	1.8	6.75	IE1	**BS02-../SSE06MA4**	22	74	148	220	265	10.4	11.6	12.7	13.9	13.9	6.8	1000	-
2.4	0.37	181	16.6	1.5	8.25	IE4	**BS02-../S4E06LA4**	18	60	121	181	215	16.6	16.6	16.6	16.6	16.6	6.8	1100	-
2.4	0.37	181	16.6	1.5	8.25	IE1	**BS02-../SSE06MA4**	18	60	121	181	215	12.4	13.8	15.2	16.6	16.6	6.8	1100	-
2.4	0.37	140	20.5	1.2	10.67	IE1	**BS02-../SSE06MA4**	14	46.5	93	140	168	15.7	17.4	19.2	20.5	20.5	6.8	1250	-
2.4	0.37	140	20.5	1.2	10.67	IE4	**BS02-../S4E06LA4**	14	46.5	93	140	168	20.5	20.5	20.5	20.5	20.5	6.8	1250	-
2.4	0.37	111	25	0.99	13.5	IE1	**BS02-../SSE06MA4**	11	37	74	111	133	18.9	21	23	25	25	6.8	1250	-
2.4	0.37	111	25	0.99	13.5	IE4	**BS02-../S4E06LA4**	11	37	74	111	133	25	25	25	25	25	6.8	1250	-
2.4	0.37	111	25	2.2	13.5	IE1	**BS03-../SSE06MA4**	11	37	74	111	133	18.9	21	23	25	25	6.9	1600	-
2.4	0.37	111	25	2.2	13.5	IE4	**BS03-../S4E06LA4**	11	37	74	111	133	25	25	25	25	25	6.9	1600	-
2.4	0.37	78	34.5	1.6	19	IE1	**BS03-../SSE06MA4**	7.8	26	52	78	94	25.5	28.5	31.5	34.5	34.5	6.9	1950	-
2.4	0.37	78	34.5	1.6	19	IE4	**BS03-../S4E06LA4**	7.8	26	52	78	94	34.5	34.5	34.5	34.5	34.5	6.9	1950	-
2.4	0.37	60	41	1.3	25	IE1	**BS03-../SSE06MA4**	6	20	40	60	72	31	34.5	37.5	41	41	6.9	1950	-

MN = 2.4 Nm (PN = 0.37 kW)



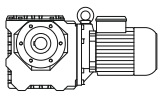
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
2.4	0.37	60	41	1.3	25	IE4	**BS03-../S4E06LA4**	6	20	40	60	72	41	41	41	41	41	6.9	1950	-
2.4	0.37	45	48	1.1	33	IE4	**BS03-../S4E06LA4**	4.5	15	30	45	54	48	48	48	48	48	6.9	1950	-
2.4	0.37	45	48	1.1	33	IE1	**BS03-../SSE06MA4**	4.5	15	30	45	54	36	40	44	48	48	6.9	1950	-
2.4	0.37	38	59	0.92	39	IE4	**BS03-../S4E06LA4**	3.8	12.5	25.5	38	46	59	59	59	59	59	6.9	1950	-
2.4	0.37	38	59	0.92	39	IE1	**BS03-../SSE06MA4**	3.8	12.5	25.5	38	46	44.5	49.5	54	59	59	6.9	1950	-
2.4	0.37	240	11.4	2.3	6.13	IE4	**BS04-../S4E06LA4**	24	81	163	240	290	11.4	11.4	11.4	11.4	11.4	7.3	1300	-
2.4	0.37	240	11.4	2.3	6.13	IE1	**BS04-../SSE06MA4**	24	81	163	240	290	8.6	9.5	10.5	11.4	11.4	7.3	1300	-
2.4	0.37	167	16.7	1.8	8.93	IE1	**BS04-../SSE06MA4**	16.5	55	111	167	200	12.5	13.9	15.3	16.7	16.7	7.3	1500	-
2.4	0.37	167	16.7	1.8	8.93	IE4	**BS04-../S4E06LA4**	16.5	55	111	167	200	16.7	16.7	16.7	16.7	16.7	7.3	1500	-
2.4	0.37	139	20	1.6	10.73	IE1	**BS04-../SSE06MA4**	13.5	46.5	93	139	167	15	16.7	18.4	20	20	7.3	1600	-
2.4	0.37	139	20	1.6	10.73	IE4	**BS04-../S4E06LA4**	13.5	46.5	93	139	167	20	20	20	20	20	7.3	1600	-
2.4	0.37	114	24	1.4	13.09	IE1	**BS04-../SSE06MA4**	11	38	76	114	137	18.1	20	22	24	24	7.3	1760	-
2.4	0.37	114	24	1.4	13.09	IE4	**BS04-../S4E06LA4**	11	38	76	114	137	24	24	24	24	24	7.3	1760	-
2.4	0.37	91	30	1.2	16.31	IE4	**BS04-../S4E06LA4**	9.1	30.5	61	91	110	30	30	30	30	30	7.3	1970	-
2.4	0.37	91	30	1.2	16.31	IE1	**BS04-../SSE06MA4**	9.1	30.5	61	91	110	22.5	25	27.5	30	30	7.3	1970	-
2.4	0.37	83	30.5	1.1	18	IE4	**BS04-../S4E06LA4**	8.3	27.5	55	83	100	30.5	30.5	30.5	30.5	30.5	7.3	1950	-
2.4	0.37	83	30.5	1.1	18	IE1	**BS04-../SSE06MA4**	8.3	27.5	55	83	100	23	25.5	28	30.5	30.5	7.3	1950	-
2.4	0.37	71	38	0.97	20.96	IE4	**BS04-../S4E06LA4**	7.1	23.5	47.5	71	85	38	38	38	38	38	7.3	2100	-
2.4	0.37	71	38	0.97	20.96	IE1	**BS04-../SSE06MA4**	7.1	23.5	47.5	71	85	28.5	31.5	35	38	38	7.3	2100	-
2.4	0.37	57	44.5	0.85	26.21	IE4	**BS04-../S4E06LA4**	5.7	19	38	57	68	44.5	44.5	44.5	44.5	44.5	7.3	2250	-
2.4	0.37	57	44.5	0.85	26.21	IE1	**BS04-../SSE06MA4**	5.7	19	38	57	68	33	37	40.5	44.5	44.5	7.3	2250	-
2.4	0.37	106	27	2.5	14.07	IE4	**BS06-../S4E06LA4**	10.5	35.5	71	106	127	27	27	27	27	27	12	2200	-
2.4	0.37	106	27	2.5	14.07	IE1	**BS06-../SSE06MA4**	10.5	35.5	71	106	127	20.5	22.5	25	27	27	12	2200	-
2.4	0.37	90	31.5	2.3	16.56	IE4	**BS06-../S4E06LA4**	9	30	60	90	108	31.5	31.5	31.5	31.5	31.5	12	2400	-
2.4	0.37	90	31.5	2.3	16.56	IE1	**BS06-../SSE06MA4**	9	30	60	90	108	23.5	26	29	31.5	31.5	12	2400	-
2.4	0.37	75	38	2	19.82	IE4	**BS06-../S4E06LA4**	7.5	25	50	75	90	38	38	38	38	38	12	2500	-
2.4	0.37	75	38	2	19.82	IE1	**BS06-../SSE06MA4**	7.5	25	50	75	90	28.5	31.5	34.5	38	38	12	2500	-
2.4	0.37	61	46.5	1.7	24.25	IE1	**BS06-../SSE06MA4**	6.1	20.5	41	61	74	34.5	38.5	42.5	46.5	46.5	12	2600	-
2.4	0.37	61	46.5	1.7	24.25	IE4	**BS06-../S4E06LA4**	6.1	20.5	41	61	74	46.5	46.5	46.5	46.5	46.5	12	2600	-
2.4	0.37	57	45.5	1.7	26.21	IE4	**BS06-../S4E06LA4**	5.7	19	38	57	68	45.5	45.5	45.5	45.5	45.5	12	3000	-
2.4	0.37	57	45.5	1.7	26.21	IE1	**BS06-../SSE06MA4**	5.7	19	38	57	68	34	38	42	45.5	45.5	12	3000	-
2.4	0.37	47.5	55	1.4	31.5	IE1	**BS06-../SSE06MA4**	4.7	15.5	31.5	47.5	57	41	45.5	50	55	55	12	3200	-
2.4	0.37	47.5	55	1.4	31.5	IE4	**BS06-../S4E06LA4**	4.7	15.5	31.5	47.5	57	55	55	55	55	55	12	3200	-
2.4	0.37	36	71	1.2	41.29	IE4	**BS06-../S4E06LA4**	3.6	12	24	36	43.5	71	71	71	71	71	12	3500	-
2.4	0.37	36	71	1.2	41.29	IE1	**BS06-../SSE06MA4**	3.6	12	24	36	43.5	53	59	65	71	71	12	3500	-
2.4	0.37	30.5	83	1	48.6	IE1	**BS06-../SSE06MA4**	3	10	20.5	30.5	37	62	69	76	83	83	12	3500	-
2.4	0.37	30.5	83	1	48.6	IE4	**BS06-../S4E06LA4**	3	10	20.5	30.5	37	83	83	83	83	83	12	3500	-
2.4	0.37	25.5	99	0.92	58.15	IE4	**BS06-../S4E06LA4**	2.5	8.5	17	25.5	30.5	99	99	99	99	99	12	3500	-
2.4	0.37	25.5	99	0.92	58.15	IE1	**BS06-../SSE06MA4**	2.5	8.5	17	25.5	30.5	74	82	90	99	99	12	3500	-
2.4	0.37	69	41	3	21.61	IE4	**BS10-../S4E06LA4**	6.9	23	46	69	83	41	41	41	41	41	23	3000	-
2.4	0.37	69	41	3	21.61	IE1	**BS10-../SSE06MA4**	6.9	23	46	69	83	31	34.5	38	41	41	23	3000	-
2.4	0.37	56	49	2.6	26.42	IE4	**BS10-../S4E06LA4**	5.6	18.5	37.5	56	68	49	49	49	49	49	23	3250	-
2.4	0.37	56	49	2.6	26.42	IE1	**BS10-../SSE06MA4**	5.6	18.5	37.5	56	68	37	41	45	49	49	23	3250	-
2.4	0.37	44.5	61	2.2	33.55	IE4	**BS10-../S4E06LA4**	4.4	14.5	29.5	44.5	53	61	61	61	61	61	23	3550	-
2.4	0.37	44.5	61	2.2	33.55	IE1	**BS10-../SSE06MA4**	4.4	14.5	29.5	44.5	53	45.5	50	56	61	61	23	3550	-
2.4	0.37	37.5	71	1.9	39.96	IE4	**BS10-../S4E06LA4**	3.7	12.5	25	37.5	45	71	71	71	71	71	23	3800	-
2.4	0.37	37.5	71	1.9	39.96	IE1	**BS10-../SSE06MA4**	3.7	12.5	25	37.5	45	53	59	65	71	71	23	3800	-
2.4	0.37	31.5	85	1.7	47.59	IE4	**BS10-../S4E06LA4**	3.1	10.5	21	31.5	37.5	85	85	85	85	85	23	4050	-
2.4	0.37	31.5	85	1.7	47.59	IE1	**BS10-../SSE06MA4**	3.1	10.5	21	31.5	37.5	64	71	78	85	85	23	4050	-
2.4	0.37	26	101	1.5	57.12	IE4	**BS10-../S4E06LA4**	2.6	8.7	17.5	26	31.5	101	101	101	101	101	23	4350	-
2.4	0.37	26	101	1.5	57.12	IE1	**BS10-../SSE06MA4**	2.6	8.7	17.5	26	31.5	76	84	92	101	101	23	4350	-
2.4	0.37	24.5	97	1.5	60.74	IE4	**BS10-../S4E06LA4**	2.4	8.2	16	24.5	29.5	97	97	97	97	97	23	4550	-
2.4	0.37	24.5	97	1.5	60.74	IE1	**BS10-../SSE06MA4**	2.4	8.2	16	24.5	29.5	73	81	89	97	97	23	4550	-
2.4	0.37	20.5	127	1.3	71.96	IE1	**BS10-../SSE06MA4**	2	6.9	13.5	20.5	25	95	106	117	127	127	23	5000	-
2.4	0.37	20.5	127	1.3	71.96	IE4	**BS10-../S4E06LA4**	2	6.9	13.5	20.5	25	127	127	127	127	127	23	5000	-
2.4	0.37	17.5	149	1	84.36	IE4	**BS10-../S4E06LA4**	1.7	5.9	11.5	17.5	21	149	149	149	149	149	23	5300	-
2.4	0.37	17.5	149	1	84.36	IE1	**BS10-../SSE06MA4**	1.7	5.9	11.5	17.5	21	112	124	137	149	149	23	5300	-
2.4	0.37	14.5	158	1	103.4	IE1	**BS10-../SSE06MA4**	1.4	4.8	9.6	14.5	17	119	132	145	158	158	23	5600	-
2.4	0.37	14.5	158	1	103.4	IE4	**BS10-../S4E06LA4**	1.4	4.8	9.6	14.5	17	158	158	158	158	158	23	5600	-
2.4	0.37	11.5	200	0.82	130.3	IE4	**BS10-../S4E06LA4**	1.1	3.8	7.6	11.5	13.5	200	200	200	200	200	23	6000	-
2.4	0.37	11.5	200	0.82	130.3	IE1	**BS10-../SSE06MA4**	1.1	3.8	7.6	11.5	13.5	150	166	183	200	200	23	6000	-
2.4	0.37	25.5	105	2.6	58.74	IE4	**BS20-../S4E06LA4**	2.5	8.5	17	25.5	30.5	105	105	105	105	105	34	5900	-
2.4	0.37	25.5	105	2.6	58.74	IE1	**BS20-../SSE06MA4**	2.5	8.5	17	25.5	30.5	79	88	96	105	105	34	5900	-
2.4	0.37	21	126	2.4	70.3	IE1	**BS20-../SSE06MA4**	2.1	7.1	14	21	25.5	94	105	115	126	126	34	6300	-
2.4	0.37	21	126	2.4	70.3	IE4	**BS20-../S4E06LA4**	2.1	7.1	14	21	25.5	126	126	126	126	126	34	6300	-
2.4	0.37	19.5	120	2.2	76.18	IE1	**BS20-../SSE06MA4**	1.9	6.5	13	19.5	23.5	90	100	110	120	120	34	6600	-
2.4	0.37	19.5	120	2.2	76.18	IE4	**BS20-../S4E06LA4**	1.9	6.5	13	19.5	23.5	120	120	120	120	120	34	6600	-
2.4	0.37	16.5	140	1.9	88.67	IE4	**BS20-../S4E06LA4**	1.6	5.6	11	16.5	20	140	140	140	140	140	34	7000	-
2.4	0.37	16.5	140	1.9	88.67	IE1	**BS20-../SSE06MA4**	1.6	5.6	11	16.5	20	105	117	128	140	140	34	7000	-
2.4	0.37	14.5	179	1.4	101.1	IE4	**BS20-../S4E06LA4**	1.4	4.9	9.8	14.5	17.5	179	179	179	179	179	34	7100	-
2.4	0.37	14.5	179	1.4	101.1	IE1	**BS20-../SSE06MA4**	1.4	4.9	9.8	14.5	17.5	134	149	164	179	179	34	7100	-
2.4	0.37	14	168	1.6	106.3	IE4	**BS20-../S4E06LA4**	1.4	4.7	9.4	14	16.5	168	168	168	168	168	34	7600	-
2.4	0.37	14	168	1.6	106.3	IE1	**BS20-../SSE06MA4**	1.4	4.7	9.4	14	16.5	126	140	154	168	168	34	7600	-
2.4	0.37	11.5	200	1.3	127.3	IE1	**BS20-../SSE06MA4**	1.1	3.9	7.8	11.5	14	151	168	184	200	200	34	8000	-
2.4	0.37	11.5	200	1.3	127.3	IE4	**BS20-../S4E06LA4**	1.1	3.9	7.8	11.5	14	200	200	200	200	200	34	8000	-
2.4	0.37	9.4	250	1.1	159.4	IE4	**BS20-../S4E06LA4**	0.9	3.1	6.2	9.4	11	250	250	250	250	250	34	8000	-
2.4	0.37	9.4	250	1.1	159.4	IE1	**BS20-../SSE06MA4**	0.9	3.1	6.2	9.4	11	189	210	230	250	250	34	8000	-
2.4	0.37	8.1	285	0.97	183	IE4	**BS20-../S4E06LA4**	0.8	2.7	5.4	8.1	9.8	285	285	285	285	285	34	8000	-
2.4	0.37	8.1	285	0.97	183	IE1	**BS20-../SSE06MA4**	0.8	2.7	5.4	8.1	9.8	215	240	265	285	285	34	8000	-

MN = 2.4 Nm (PN = 0.37 kW)



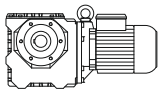
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
2.4	0.37	6.6	345	0.84	225.6	IE4	**BS20-../S4E06LA4**	0.65	2.2	4.4	6.6	7.9	345	345	345	345	345	34	8000	-
2.4	0.37	6.6	345	0.84	225.6	IE1	**BS20-../SSE06MA4**	0.65	2.2	4.4	6.6	7.9	255	285	315	345	345	34	8000	-
2.4	0.37	7.4	305	0.91	201.4	IE4	**BS20Z-../S4E06LA4**	0.7	2.4	4.9	7.4	8.9	305	305	305	305	305	35	8000	-
2.4	0.37	7.4	305	0.91	201.4	IE1	**BS20Z-../SSE06MA4**	0.7	2.4	4.9	7.4	8.9	230	255	280	305	305	35	8000	-
2.4	0.37	17.5	154	2.6	83.48	IE4	**BS30-../S4E06LA4**	1.7	5.9	11.5	17.5	21.5	154	154	154	154	154	51	6800	-
2.4	0.37	17.5	154	2.6	83.48	IE1	**BS30-../SSE06MA4**	1.7	5.9	11.5	17.5	21.5	115	128	141	154	154	51	6800	-
2.4	0.37	14	173	2.9	106.2	IE4	**BS30-../S4E06LA4**	1.4	4.7	9.4	14	16.5	173	173	173	173	173	51	8200	-
2.4	0.37	14	173	2.9	106.2	IE1	**BS30-../SSE06MA4**	1.4	4.7	9.4	14	16.5	129	144	158	173	173	51	8200	-
2.4	0.37	11.5	200	2.5	125.2	IE4	**BS30-../S4E06LA4**	1.1	3.9	7.9	11.5	14	200	200	200	200	200	51	8700	-
2.4	0.37	11.5	200	2.5	125.2	IE1	**BS30-../SSE06MA4**	1.1	3.9	7.9	11.5	14	153	170	187	200	200	51	8700	-
2.4	0.37	9.9	240	2.2	151.1	IE4	**BS30-../S4E06LA4**	0.95	3.3	6.6	9.9	11.5	240	240	240	240	240	51	9500	-
2.4	0.37	9.9	240	2.2	151.1	IE1	**BS30-../SSE06MA4**	0.95	3.3	6.6	9.9	11.5	182	200	220	240	240	51	9500	-
2.4	0.37	8	295	1.8	186.7	IE4	**BS30-../S4E06LA4**	0.8	2.6	5.3	8	9.6	295	295	295	295	295	51	10000	-
2.4	0.37	8	295	1.8	186.7	IE1	**BS30-../SSE06MA4**	0.8	2.6	5.3	8	9.6	220	245	270	295	295	51	10000	-
2.4	0.37	6.9	340	1.5	216.4	IE4	**BS30-../S4E06LA4**	0.65	2.3	4.6	6.9	8.3	340	340	340	340	340	51	10000	-
2.4	0.37	6.9	340	1.5	216.4	IE1	**BS30-../SSE06MA4**	0.65	2.3	4.6	6.9	8.3	255	285	310	340	340	51	10000	-
2.4	0.37	7.1	330	1.3	211.1	IE4	**BS30Z-../S4E06LA4**	0.7	2.3	4.7	7.1	8.5	330	330	330	330	330	54	10000	-
2.4	0.37	7.1	330	1.3	211.1	IE1	**BS30Z-../SSE06MA4**	0.7	2.3	4.7	7.1	8.5	250	275	305	330	330	54	10000	-
2.4	0.37	5.7	410	1.4	261.6	IE1	**BS30Z-../SSE06MA4**	0.55	1.9	3.8	5.7	6.8	310	345	375	410	410	54	10000	-
2.4	0.37	5.7	410	1.4	261.6	IE4	**BS30Z-../S4E06LA4**	0.55	1.9	3.8	5.7	6.8	410	410	410	410	410	54	10000	-
2.4	0.37	4.8	475	1.2	306.6	IE4	**BS30Z-../S4E06LA4**	0.48	1.6	3.2	4.8	5.8	475	475	475	475	475	54	10000	-
2.4	0.37	4.8	475	1.2	306.6	IE1	**BS30Z-../SSE06MA4**	0.48	1.6	3.2	4.8	5.8	355	395	435	475	475	54	10000	-
2.4	0.37	3.8	600	0.97	390.2	IE1	**BS30Z-../SSE06MA4**	0.38	1.2	2.5	3.8	4.6	455	500	550	600	600	54	10000	-
2.4	0.37	3.8	600	0.97	390.2	IE4	**BS30Z-../S4E06LA4**	0.38	1.2	2.5	3.8	4.6	600	600	600	600	600	54	10000	-
2.4	0.37	3.2	700	0.85	457.3	IE4	**BS30Z-../S4E06LA4**	0.32	1	2.1	3.2	3.9	700	700	700	700	700	54	10000	-
2.4	0.37	3.2	700	0.85	457.3	IE1	**BS30Z-../SSE06MA4**	0.32	1	2.1	3.2	3.9	520	580	640	700	700	54	10000	-
2.4	0.37	7.6	350	2	197.1	IE4	**BS40Z-../S4E06LA4**	0.75	2.5	5	7.6	9.1	350	350	350	350	350	68	15000	-
2.4	0.37	7.6	350	2	197.1	IE1	**BS40Z-../SSE06MA4**	0.75	2.5	5	7.6	9.1	260	290	320	350	350	68	15000	-
2.4	0.37	6	375	2.4	249.6	IE1	**BS40Z-../SSE06MA4**	0.6	2	4	6	7.2	280	310	345	375	375	68	15000	-
2.4	0.37	6	375	2.4	249.6	IE4	**BS40Z-../S4E06LA4**	0.6	2	4	6	7.2	375	375	375	375	375	68	15000	-
2.4	0.37	5.2	510	1.4	287.7	IE4	**BS40Z-../S4E06LA4**	0.5	1.7	3.4	5.2	6.2	510	510	510	510	510	68	15000	-
2.4	0.37	5.2	510	1.4	287.7	IE1	**BS40Z-../SSE06MA4**	0.5	1.7	3.4	5.2	6.2	380	425	465	510	510	68	15000	-
2.4	0.37	4.9	455	2.3	302.1	IE1	**BS40Z-../SSE06MA4**	0.49	1.6	3.3	4.9	5.9	340	380	415	455	455	68	15000	-
2.4	0.37	4.9	455	2.3	302.1	IE4	**BS40Z-../S4E06LA4**	0.49	1.6	3.3	4.9	5.9	455	455	455	455	455	68	15000	-
2.4	0.37	4.2	530	2	356.8	IE4	**BS40Z-../S4E06LA4**	0.42	1.4	2.8	4.2	5	530	530	530	530	530	68	15000	-
2.4	0.37	4.2	530	2	356.8	IE1	**BS40Z-../SSE06MA4**	0.42	1.4	2.8	4.2	5	400	445	490	530	530	68	15000	-
2.4	0.37	3.3	670	1.5	446.8	IE1	**BS40Z-../SSE06MA4**	0.33	1.1	2.2	3.3	4	500	560	610	670	670	68	15000	-
2.4	0.37	3.3	670	1.5	446.8	IE4	**BS40Z-../S4E06LA4**	0.33	1.1	2.2	3.3	4	670	670	670	670	670	68	15000	-
2.4	0.37	2.8	780	1.4	520.8	IE1	**BS40Z-../SSE06MA4**	0.28	0.95	1.9	2.8	3.4	590	650	720	780	780	68	15000	-
2.4	0.37	2.8	780	1.4	520.8	IE4	**BS40Z-../S4E06LA4**	0.28	0.95	1.9	2.8	3.4	780	780	780	780	780	68	15000	-
2.4	0.37	2.4	890	1	612.1	IE4	**BS40Z-../S4E06LA4**	0.24	0.8	1.6	2.4	2.9	890	890	890	890	890	68	15000	-
2.4	0.37	2.4	890	1	612.1	IE1	**BS40Z-../SSE06MA4**	0.24	0.8	1.6	2.4	2.9	670	740	820	890	890	68	15000	-

MN = 2.6 Nm (PN = 0.4 kW)



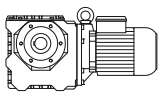
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
2.6	0.4	325	10.5	1.4	4.6	IE4	**BS02-../S4E06LA4**	32.5	108	215	325	390	10.1	10.5	10.5	10.5	10.5	6.8	1000	-
2.6	0.4	275	12.3	1.6	5.4	IE4	**BS02-../S4E06LA4**	27.5	92	185	275	330	11.8	12.3	12.3	12.3	12.3	6.8	1000	-
2.6	0.4	220	15	1.7	6.75	IE4	**BS02-../S4E06LA4**	22	74	148	220	265	14.5	15	15	15	15	6.8	1000	-
2.6	0.4	181	18	1.4	8.25	IE4	**BS02-../S4E06LA4**	18	60	121	181	215	17.3	18	18	18	18	6.8	1100	-
2.6	0.4	140	22.5	1.1	10.67	IE4	**BS02-../S4E06LA4**	14	46.5	93	140	168	21.5	22.5	22.5	22.5	22.5	6.8	1250	-
2.6	0.4	111	27	0.91	13.5	IE4	**BS02-../S4E06LA4**	11	37	74	111	133	26	27	27	27	27	6.8	1250	-
2.6	0.4	111	27	2	13.5	IE4	**BS03-../S4E06LA4**	11	37	74	111	133	26	27	27	27	27	6.9	1600	-
2.6	0.4	78	37.5	1.5	19	IE4	**BS03-../S4E06LA4**	7.8	26	52	78	94	36	37.5	37.5	37.5	37.5	6.9	1950	-
2.6	0.4	60	44.5	1.2	25	IE4	**BS03-../S4E06LA4**	6	20	40	60	72	43	44.5	44.5	44.5	44.5	6.9	1950	-
2.6	0.4	45	52	1.1	33	IE4	**BS03-../S4E06LA4**	4.5	15	30	45	54	50	52	52	52	52	6.9	1950	-
2.6	0.4	38	64	0.85	39	IE4	**BS03-../S4E06LA4**	3.8	12.5	25.5	38	46	62	64	64	64	64	6.9	1950	-
2.6	0.4	240	12.4	2.1	6.13	IE4	**BS04-../S4E06LA4**	24	81	163	240	290	11.9	12.4	12.4	12.4	12.4	7.3	1300	-
2.6	0.4	167	18.1	1.7	8.93	IE4	**BS04-../S4E06LA4**	16.5	55	111	167	200	17.4	18.1	18.1	18.1	18.1	7.3	1500	-
2.6	0.4	139	21.5	1.5	10.73	IE4	**BS04-../S4E06LA4**	13.5	46.5	93	139	167	20.5	21.5	21.5	21.5	21.5	7.3	1600	-
2.6	0.4	114	26	1.3	13.09	IE4	**BS04-../S4E06LA4**	11	38	76	114	137	25	26	26	26	26	7.3	1760	-
2.6	0.4	91	32.5	1.1	16.31	IE4	**BS04-../S4E06LA4**	9.1	30.5	61	91	110	31	32.5	32.5	32.5	32.5	7.3	1970	-
2.6	0.4	83	33	1	18	IE4	**BS04-../S4E06LA4**	8.3	27.5	55	83	100	31.5	33	33	33	33	7.3	1950	-
2.6	0.4	71	41	0.89	20.96	IE4	**BS04-../S4E06LA4**	7.1	23.5	47.5	71	85	39.5	41	41	41	41	7.3	2100	-
2.6	0.4	139	22.5	2.9	10.73	IE4	**BS06-../S4E06LA4**	13.5	46.5	93	139	167	21.5	22.5	22.5	22.5	22.5	12	1850	-
2.6	0.4	106	29.5	2.3	14.07	IE4	**BS06-../S4E06LA4**	10.5	35.5	71	106	127	28	29.5	2.5	29.5	29.5	12	2200	-
2.6	0.4	90	34	2.1	16.56	IE4	**BS06-../S4E06LA4**	9	30	60	90	108	33	34	34	34	34	12	2400	-
2.6	0.4	75	41	1.8	19.82	IE4	**BS06-../S4E06LA4**	7.5	25	50	75	90	39.5	41	41	41	41	12	2500	-
2.6	0.4	61	50	1.5	24.25	IE4	**BS06-../S4E06LA4**	6.1	20.5	41	61	74	48.5	50	50	50	50	12	2600	-
2.6	0.4	57	49.5	1.5	26.21	IE4	**BS06-../S4E06LA4**	5.7	19	38	57	68	47.5	49.5	49.5	49.5	49.5	12	3000	-
2.6	0.4	47.5	59	1.3	31.5	IE4	**BS06-../S4E06LA4**	4.7	15.5	31.5	47.5	57	57	59	59	59	59	12	3200	-

MN = 2.6 Nm (PN = 0.4 kW)



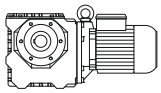
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
2.6	0.4	36	77	1.1	41.29	IE4	**BS06-../S4E06LA4**	3.6	12	24	36	43.5	74	77	77	77	77	12	3500	-
2.6	0.4	30.5	90	0.97	48.6	IE4	**BS06-../S4E06LA4**	3	10	20.5	30.5	37	87	90	90	90	90	12	3500	-
2.6	0.4	25.5	107	0.85	58.15	IE4	**BS06-../S4E06LA4**	2.5	8.5	17	25.5	30.5	103	107	107	107	107	12	3500	-
2.6	0.4	69	44.5	2.8	21.61	IE4	**BS10-../S4E06LA4**	6.9	23	46	69	83	43	44.5	44.5	44.5	44.5	23	3000	-
2.6	0.4	56	53	2.4	26.42	IE4	**BS10-../S4E06LA4**	5.6	18.5	37.5	56	68	51	53	53	53	53	23	3250	-
2.6	0.4	44.5	66	2	33.55	IE4	**BS10-../S4E06LA4**	4.4	14.5	29.5	44.5	53	63	66	66	66	66	23	3550	-
2.6	0.4	37.5	77	1.8	39.96	IE4	**BS10-../S4E06LA4**	3.7	12.5	25	37.5	45	74	77	77	77	77	23	3800	-
2.6	0.4	31.5	92	1.6	47.59	IE4	**BS10-../S4E06LA4**	3.1	10.5	21	31.5	37.5	89	92	92	92	92	23	4050	-
2.6	0.4	26	109	1.4	57.12	IE4	**BS10-../S4E06LA4**	2.6	8.7	17.5	26	31.5	105	109	109	109	109	23	4350	-
2.6	0.4	24.5	105	1.4	60.74	IE4	**BS10-../S4E06LA4**	2.4	8.2	16	24.5	29.5	101	105	105	105	105	23	4550	-
2.6	0.4	20.5	138	1.2	71.96	IE4	**BS10-../S4E06LA4**	2	6.9	13.5	20.5	25	133	138	138	138	138	23	5000	-
2.6	0.4	17.5	162	0.92	84.36	IE4	**BS10-../S4E06LA4**	1.7	5.9	11.5	17.5	21	156	162	162	162	162	23	5300	-
2.6	0.4	14.5	172	0.93	103.4	IE4	**BS10-../S4E06LA4**	1.4	4.8	9.6	14.5	17	165	172	172	172	172	23	5600	-
2.6	0.4	30.5	95	2.8	48.98	IE4	**BS20-../S4E06LA4**	3	10	20	30.5	36.5	91	95	95	95	95	34	5500	-
2.6	0.4	25.5	114	2.4	58.74	IE4	**BS20-../S4E06LA4**	2.5	8.5	17	25.5	30.5	110	114	114	114	114	34	5900	-
2.6	0.4	21	137	2.2	70.3	IE4	**BS20-../S4E06LA4**	2.1	7.1	14	21	25.5	131	137	137	137	137	34	6300	-
2.6	0.4	19.5	130	2.1	76.18	IE4	**BS20-../S4E06LA4**	1.9	6.5	13	19.5	23.5	125	130	130	130	130	34	6600	-
2.6	0.4	16.5	152	1.8	88.67	IE4	**BS20-../S4E06LA4**	1.6	5.6	11	16.5	20	146	152	152	152	152	34	7000	-
2.6	0.4	14.5	194	1.3	101.1	IE4	**BS20-../S4E06LA4**	1.4	4.9	9.8	14.5	17.5	187	194	194	194	194	34	7100	-
2.6	0.4	14	182	1.5	106.3	IE4	**BS20-../S4E06LA4**	1.4	4.7	9.4	14	16.5	175	182	182	182	182	34	7600	-
2.6	0.4	11.5	215	1.2	127.3	IE4	**BS20-../S4E06LA4**	1.1	3.9	7.8	11.5	14	210	215	215	215	215	34	8000	-
2.6	0.4	9.4	270	1	159.4	IE4	**BS20-../S4E06LA4**	0.9	3.1	6.2	9.4	11	260	270	270	270	270	34	8000	-
2.6	0.4	8.1	310	0.89	183	IE4	**BS20-../S4E06LA4**	0.8	2.7	5.4	8.1	9.8	300	310	310	310	310	34	8000	-
2.6	0.4	7.4	335	0.84	201.4	IE4	**BS20Z-../S4E06LA4**	0.7	2.4	4.9	7.4	8.9	320	335	335	335	335	35	8000	-
2.6	0.4	17.5	167	2.4	83.48	IE4	**BS30-../S4E06LA4**	1.7	5.9	11.5	17.5	21.5	160	167	167	167	167	51	6800	-
2.6	0.4	16.5	162	3	90.59	IE4	**BS30-../S4E06LA4**	1.6	5.5	11	16.5	19.5	156	162	162	162	162	51	7700	-
2.6	0.4	14	187	2.7	106.2	IE4	**BS30-../S4E06LA4**	1.4	4.7	9.4	14	16.5	180	187	187	187	187	51	8200	-
2.6	0.4	11.5	220	2.3	125.2	IE4	**BS30-../S4E06LA4**	1.1	3.9	7.9	11.5	14	210	220	220	220	220	51	8700	-
2.6	0.4	9.9	260	2.1	151.1	IE4	**BS30-../S4E06LA4**	0.95	3.3	6.6	9.9	11.5	250	260	260	260	260	51	9500	-
2.6	0.4	8	320	1.7	186.7	IE4	**BS30-../S4E06LA4**	0.8	2.6	5.3	8	9.6	305	320	320	320	320	51	10000	-
2.6	0.4	6.9	370	1.4	216.4	IE4	**BS30-../S4E06LA4**	0.65	2.3	4.6	6.9	8.3	355	370	370	370	370	51	10000	-
2.6	0.4	7.1	360	1.2	211.1	IE4	**BS30Z-../S4E06LA4**	0.7	2.3	4.7	7.1	8.5	345	360	360	360	360	54	10000	-
2.6	0.4	5.7	445	1.2	261.6	IE4	**BS30Z-../S4E06LA4**	0.55	1.9	3.8	5.7	6.8	430	445	445	445	445	54	10000	-
2.6	0.4	4.8	510	1.1	306.6	IE4	**BS30Z-../S4E06LA4**	0.48	1.6	3.2	4.8	5.8	495	510	510	510	510	54	10000	-
2.6	0.4	3.8	650	0.89	390.2	IE4	**BS30Z-../S4E06LA4**	0.38	1.2	2.5	3.8	4.6	630	650	650	650	650	54	10000	-
2.6	0.4	7.6	375	1.8	197.1	IE4	**BS40Z-../S4E06LA4**	0.75	2.5	5	7.6	9.1	360	375	375	375	375	68	15000	-
2.6	0.4	6	405	2.2	249.6	IE4	**BS40Z-../S4E06LA4**	0.6	2	4	6	7.2	390	405	405	405	405	68	15000	-
2.6	0.4	5.2	550	1.3	287.7	IE4	**BS40Z-../S4E06LA4**	0.5	1.7	3.4	5.2	6.2	530	550	550	550	550	68	15000	-
2.6	0.4	4.9	490	2.2	302.1	IE4	**BS40Z-../S4E06LA4**	0.49	1.6	3.3	4.9	5.9	475	490	490	490	490	68	15000	-
2.6	0.4	4.2	580	1.8	356.8	IE4	**BS40Z-../S4E06LA4**	0.42	1.4	2.8	4.2	5	560	580	580	580	580	68	15000	-
2.6	0.4	3.3	730	1.4	446.8	IE4	**BS40Z-../S4E06LA4**	0.33	1.1	2.2	3.3	4	700	730	730	730	730	68	15000	-
2.6	0.4	2.8	850	1.3	520.8	IE4	**BS40Z-../S4E06LA4**	0.28	0.95	1.9	2.8	3.4	820	850	850	850	850	68	15000	-
2.6	0.4	2.4	970	0.93	612.1	IE4	**BS40Z-../S4E06LA4**	0.24	0.8	1.6	2.4	2.9	930	970	970	970	970	68	15000	-

MN = 3.5 Nm (PN = 0.55 kW)



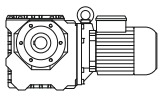
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
3.5	0.55	325	14.1	1.1	4.6	IE1	**BS02-../SSE06LA4**	32.5	108	215	325	390	10.1	11.7	14.1	14.1	14.1	6.8	1000	-
3.5	0.55	275	16.6	1.2	5.4	IE1	**BS02-../SSE06LA4**	27.5	92	185	275	330	11.8	13.7	16.6	16.6	16.6	6.8	1000	-
3.5	0.55	220	20	1.2	6.75	IE1	**BS02-../SSE06LA4**	22	74	148	220	265	14.5	16.8	20	20	20	6.8	1000	-
3.5	0.55	181	24	1	8.25	IE1	**BS02-../SSE06LA4**	18	60	121	181	215	17.3	20	24	24	24	6.8	1100	-
3.5	0.55	140	30.5	0.82	10.67	IE1	**BS02-../SSE06LA4**	14	46.5	93	140	168	21.5	25	30.5	30.5	30.5	6.8	1250	-
3.5	0.55	111	36.5	1.5	13.5	IE1	**BS03-../SSE06LA4**	11	37	74	111	133	26	30.5	36.5	36.5	36.5	6.9	1600	-
3.5	0.55	78	50	1.1	19	IE1	**BS03-../SSE06LA4**	7.8	26	52	78	94	36	41.5	50	50	50	6.9	1950	-
3.5	0.55	60	60	0.91	25	IE1	**BS03-../SSE06LA4**	6	20	40	60	72	43	50	60	60	60	6.9	1950	-
3.5	0.55	240	16.7	1.6	6.13	IE1	**BS04-../SSE06LA4**	24	81	163	240	290	11.9	13.8	16.7	16.7	16.7	7.3	1300	-
3.5	0.55	167	24	1.2	8.93	IE1	**BS04-../SSE06LA4**	16.5	55	111	167	200	17.4	20	24	24	24	7.3	1500	-
3.5	0.55	139	29	1.1	10.73	IE1	**BS04-../SSE06LA4**	13.5	46.5	93	139	167	20.5	24	29	29	29	7.3	1600	-
3.5	0.55	114	35	0.94	13.09	IE1	**BS04-../SSE06LA4**	11	38	76	114	137	25	29	35	35	35	7.3	1760	-
3.5	0.55	91	43.5	0.8	16.31	IE1	**BS04-../SSE06LA4**	9.1	30.5	61	91	110	31	36	43.5	43.5	43.5	7.3	1970	-
3.5	0.55	167	25	2.4	8.93	IE1	**BS06-../SSE06LA4**	16.5	55	111	167	200	18	20.5	25	25	25	12	1710	-
3.5	0.55	139	30	2.1	10.73	IE1	**BS06-../SSE06LA4**	13.5	46.5	93	139	167	21.5	25	30	30	30	12	1850	-
3.5	0.55	106	39.5	1.7	14.07	IE1	**BS06-../SSE06LA4**	10.5	35.5	71	106	127	28	33	39.5	39.5	39.5	12	2200	-
3.5	0.55	90	46	1.6	16.56	IE1	**BS06-../SSE06LA4**	9	30	60	90	108	33	38	46	46	46	12	2400	-
3.5	0.55	75	55	1.4	19.82	IE1	**BS06-../SSE06LA4**	7.5	25	50	75	90	39.5	45.5	55	55	55	12	2500	-
3.5	0.55	61	67	1.1	24.25	IE1	**BS06-../SSE06LA4**	6.1	20.5	41	61	74	48.5	56	67	67	67	12	2600	-
3.5	0.55	57	66	1.1	26.21	IE1	**BS06-../SSE06LA4**	5.7	19	38	57	68	47.5	55	66	66	66	12	3000	-
3.5	0.55	47.5	80	0.99	31.5	IE1	**BS06-../SSE06LA4**	4.7	15.5	31.5	47.5	57	57	66	80	80	80	12	3200	-
3.5	0.55	36	104	0.83	41.29	IE1	**BS06-../SSE06LA4**	3.6	12	24	36	43.5	74	86	104	104	104	12	3500	-

MN = 3.5 Nm (PN = 0.55 kW)



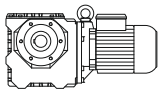
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
3.5	0.55	69	60	2.1	21.61	IE1	**BS10-../SSE06LA4**	6.9	23	46	69	83	43	50	60	60	60	23	3000	-
3.5	0.55	56	72	1.8	26.42	IE1	**BS10-../SSE06LA4**	5.6	18.5	37.5	56	68	51	59	72	72	72	23	3250	-
3.5	0.55	44.5	89	1.5	33.55	IE1	**BS10-../SSE06LA4**	4.4	14.5	29.5	44.5	53	63	73	89	89	89	23	3550	-
3.5	0.55	37.5	104	1.3	39.96	IE1	**BS10-../SSE06LA4**	3.7	12.5	25	37.5	45	74	86	104	104	104	23	3800	-
3.5	0.55	31.5	124	1.2	47.59	IE1	**BS10-../SSE06LA4**	3.1	10.5	21	31.5	37.5	89	103	124	124	124	23	4050	-
3.5	0.55	26	147	1	57.12	IE1	**BS10-../SSE06LA4**	2.6	8.7	17.5	26	31.5	105	122	147	147	147	23	4350	-
3.5	0.55	24.5	142	1.1	60.74	IE1	**BS10-../SSE06LA4**	2.4	8.2	16	24.5	29.5	101	118	142	142	142	23	4550	-
3.5	0.55	20.5	186	0.86	71.96	IE1	**BS10-../SSE06LA4**	2	6.9	13.5	20.5	25	133	154	186	186	186	23	5000	-
3.5	0.55	45.5	88	3	32.87	IE1	**BS20-../SSE06LA4**	4.5	15	30	45.5	54	63	73	88	88	88	34	4750	-
3.5	0.55	35.5	111	2.4	42.08	IE1	**BS20-../SSE06LA4**	3.5	11.5	23.5	35.5	42.5	79	92	111	111	111	34	5200	-
3.5	0.55	30.5	128	2.1	48.98	IE1	**BS20-../SSE06LA4**	3	10	20	30.5	36.5	91	106	128	128	128	34	5500	-
3.5	0.55	29.5	118	2.3	50.44	IE1	**BS20-../SSE06LA4**	2.9	9.9	19.5	29.5	35.5	84	98	118	118	118	34	5700	-
3.5	0.55	25.5	154	1.8	58.74	IE1	**BS20-../SSE06LA4**	2.5	8.5	17	25.5	30.5	110	127	154	154	154	34	5900	-
3.5	0.55	21	184	1.6	70.3	IE1	**BS20-../SSE06LA4**	2.1	7.1	14	21	25.5	131	152	184	184	184	34	6300	-
3.5	0.55	19.5	175	1.5	76.18	IE1	**BS20-../SSE06LA4**	1.9	6.5	13	19.5	23.5	125	145	175	175	175	34	6600	-
3.5	0.55	16.5	200	1.3	88.67	IE1	**BS20-../SSE06LA4**	1.6	5.6	11	16.5	20	146	169	200	200	200	34	7000	-
3.5	0.55	14.5	260	0.95	101.1	IE1	**BS20-../SSE06LA4**	1.4	4.9	9.8	14.5	17.5	187	215	260	260	260	34	7100	-
3.5	0.55	14	245	1.1	106.3	IE1	**BS20-../SSE06LA4**	1.4	4.7	9.4	14	16.5	175	200	245	245	245	34	7600	-
3.5	0.55	11.5	290	0.92	127.3	IE1	**BS20-../SSE06LA4**	1.1	3.9	7.8	11.5	14	210	240	290	290	290	34	8000	-
3.5	0.55	25.5	158	2.9	58.64	IE1	**BS30-../SSE06LA4**	2.5	8.5	17	25.5	30.5	112	130	158	158	158	51	6900	-
3.5	0.55	21	174	2.8	71.17	IE1	**BS30-../SSE06LA4**	2.1	7	14	21	25	124	144	174	174	174	51	7000	-
3.5	0.55	17.5	220	1.8	83.48	IE1	**BS30-../SSE06LA4**	1.7	5.9	11.5	17.5	21.5	160	186	220	220	220	51	6800	-
3.5	0.55	16.5	215	2.2	90.59	IE1	**BS30-../SSE06LA4**	1.6	5.5	11	16.5	19.5	156	181	215	215	215	51	7700	-
3.5	0.55	11.5	295	1.7	125.2	IE1	**BS30-../SSE06LA4**	1.1	3.9	7.9	11.5	14	210	245	295	295	295	51	8700	-
3.5	0.55	9.9	350	1.5	151.1	IE1	**BS30-../SSE06LA4**	0.95	3.3	6.6	9.9	11.5	250	290	350	350	350	51	9500	-
3.5	0.55	8	430	1.3	186.7	IE1	**BS30-../SSE06LA4**	0.8	2.6	5.3	8	9.6	305	355	430	430	430	51	10000	-
3.5	0.55	6.9	495	1	216.4	IE1	**BS30-../SSE06LA4**	0.65	2.3	4.6	6.9	8.3	355	410	495	495	495	51	10000	-
3.5	0.55	7.1	485	0.91	211.1	IE1	**BS30Z-../SSE06LA4**	0.7	2.3	4.7	7.1	8.5	345	400	485	485	485	54	10000	-
3.5	0.55	5.7	600	0.93	261.6	IE1	**BS30Z-../SSE06LA4**	0.55	1.9	3.8	5.7	6.8	430	500	600	600	600	54	10000	-
3.5	0.55	4.8	690	0.83	306.6	IE1	**BS30Z-../SSE06LA4**	0.48	1.6	3.2	4.8	5.8	495	570	690	690	690	54	10000	-
3.5	0.55	7.6	510	1.4	197.1	IE1	**BS40Z-../SSE06LA4**	0.75	2.5	5	7.6	9.1	360	420	510	510	510	68	15000	-
3.5	0.55	6	550	1.6	249.6	IE1	**BS40Z-../SSE06LA4**	0.6	2	4	6	7.2	390	455	550	550	550	68	15000	-
3.5	0.55	5.2	740	0.95	287.7	IE1	**BS40Z-../SSE06LA4**	0.5	1.7	3.4	5.2	6.2	530	610	740	740	740	68	15000	-
3.5	0.55	4.9	660	1.6	302.1	IE1	**BS40Z-../SSE06LA4**	0.49	1.6	3.3	4.9	5.9	475	550	660	660	660	68	15000	-
3.5	0.55	4.2	780	1.4	356.8	IE1	**BS40Z-../SSE06LA4**	0.42	1.4	2.8	4.2	5	560	650	780	780	780	68	15000	-
3.5	0.55	3.3	980	1	446.8	IE1	**BS40Z-../SSE06LA4**	0.33	1.1	2.2	3.3	4	700	810	980	980	980	68	15000	-
3.5	0.55	2.8	1140	0.96	520.8	IE1	**BS40Z-../SSE06LA4**	0.28	0.95	1.9	2.8	3.4	820	950	1140	1140	1140	68	15000	-

MN = 5 Nm (PN = 0.78 kW)



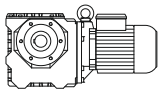
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
5	0.78	325	20	2	4.6	IE4	**BS03-../S4E08MA4**	32.5	108	215	325	390	20	20	20	20	20	10	1070	-
5	0.78	250	26	1.7	6	IE4	**BS03-../S4E08MA4**	25	83	166	250	300	26	26	26	26	26	10	1170	-
5	0.78	187	34	1.4	8	IE4	**BS03-../S4E08MA4**	18.5	62	125	187	225	34	34	34	34	34	10	1320	-
5	0.78	150	42	1.2	10	IE4	**BS03-../S4E08MA4**	15	50	100	150	180	42	42	42	42	42	10	1450	-
5	0.78	111	52	1	13.5	IE4	**BS03-../S4E08MA4**	11	37	74	111	133	52	52	52	52	52	10	1600	-
5	0.78	220	27	2.1	6.67	IE4	**BS06-../S4E08MA4**	22	74	149	220	265	27	27	27	27	27	16	1550	-
5	0.78	167	36	1.7	8.93	IE4	**BS06-../S4E08MA4**	16.5	55	111	167	200	36	36	36	36	36	16	1710	-
5	0.78	139	43	1.5	10.73	IE4	**BS06-../S4E08MA4**	13.5	46.5	93	139	167	43	43	43	43	43	16	1850	-
5	0.78	106	56	1.2	14.07	IE4	**BS06-../S4E08MA4**	10.5	35.5	71	106	127	56	56	56	56	56	16	2200	-
5	0.78	90	66	1.1	16.56	IE4	**BS06-../S4E08MA4**	9	30	60	90	108	66	66	66	66	66	16	2400	-
5	0.78	76	71	0.98	19.58	IE4	**BS06-../S4E08MA4**	7.6	25.5	51	76	91	71	71	71	71	71	16	2700	-
5	0.78	75	79	0.95	19.82	IE4	**BS06-../S4E08MA4**	7.5	25	50	75	90	79	79	79	79	79	16	2500	-
5	0.78	57	95	0.8	26.21	IE4	**BS06-../S4E08MA4**	5.7	19	38	57	68	95	95	95	95	95	16	3000	-
5	0.78	120	49.5	2.2	12.49	IE4	**BS10-../S4E08MA4**	12	40	80	120	144	49.5	49.5	49.5	49.5	49.5	27	2400	-
5	0.78	88	67	1.8	16.92	IE4	**BS10-../S4E08MA4**	8.8	29.5	59	88	106	67	67	67	67	67	27	2700	-
5	0.78	69	86	1.4	21.61	IE4	**BS10-../S4E08MA4**	6.9	23	46	69	83	86	86	86	86	86	27	3000	-
5	0.78	66	77	1.5	22.6	IE4	**BS10-../S4E08MA4**	6.6	22	44	66	79	77	77	77	77	77	27	3200	-
5	0.78	56	103	1.3	26.42	IE4	**BS10-../S4E08MA4**	5.6	18.5	37.5	56	68	103	103	103	103	103	27	3250	-
5	0.78	48.5	105	1.2	30.63	IE4	**BS10-../S4E08MA4**	4.8	16	32.5	48.5	58	105	105	105	105	105	27	3550	-
5	0.78	44.5	127	1.1	33.55	IE4	**BS10-../S4E08MA4**	4.4	14.5	29.5	44.5	53	127	127	127	127	127	27	3550	-
5	0.78	37.5	149	0.93	39.96	IE4	**BS10-../S4E08MA4**	3.7	12.5	25	37.5	45	149	149	149	149	149	27	3800	-
5	0.78	31.5	178	0.81	47.59	IE4	**BS10-../S4E08MA4**	3.1	10.5	21	31.5	37.5	178	178	178	178	178	27	4050	-
5	0.78	67	90	2.6	22.23	IE4	**BS20-../S4E08MA4**	6.7	22	44.5	67	80	90	90	90	90	90	37	4100	-
5	0.78	64	83	2.7	23.13	IE4	**BS20-../S4E08MA4**	6.4	21.5	43	64	77	83	83	83	83	83	37	4300	-
5	0.78	53	108	2.3	27.86	IE4	**BS20-../S4E08MA4**	5.3	17.5	35.5	53	64	108	108	108	108	108	37	4450	-
5	0.78	48.5	110	2.3	30.63	IE4	**BS20-../S4E08MA4**	4.8	16	32.5	48.5	58	110	110	110	110	110	37	4750	-
5	0.78	45.5	126	2.1	32.87	IE4	**BS20-../S4E08MA4**	4.5	15	30	45.5	54	126	126	126	126	126	37	4750	-
5	0.78	37	144	1.8	40.25	IE4	**BS20-../S4E08MA4**	3.7	12	24.5	37	44.5	144	144	144	144	144	37	5300	-

MN = 5 Nm (PN = 0.78 kW)



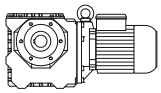
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
5	0.78	35.5	159	1.7	42.08	IE4	**BS20-../S4E08MA4**	3.5	11.5	23.5	35.5	42.5	159	159	159	159	159	37	5200	-
5	0.78	30.5	183	1.5	48.98	IE4	**BS20-../S4E08MA4**	3	10	20	30.5	36.5	183	183	183	183	183	37	5500	-
5	0.78	29.5	168	1.6	50.44	IE4	**BS20-../S4E08MA4**	2.9	9.9	19.5	29.5	35.5	168	168	168	168	168	37	5700	-
5	0.78	25.5	220	1.3	58.74	IE4	**BS20-../S4E08MA4**	2.5	8.5	17	25.5	30.5	220	220	220	220	220	37	5900	-
5	0.78	21	260	1.1	70.3	IE4	**BS20-../S4E08MA4**	2.1	7.1	14	21	25.5	260	260	260	260	260	37	6300	-
5	0.78	19.5	250	1.1	76.18	IE4	**BS20-../S4E08MA4**	1.9	6.5	13	19.5	23.5	250	250	250	250	250	37	6600	-
5	0.78	16.5	290	0.92	88.67	IE4	**BS20-../S4E08MA4**	1.6	5.6	11	16.5	20	290	290	290	290	290	37	7000	-
5	0.78	39.5	142	3	37.92	IE4	**BS30-../S4E08MA4**	3.9	13	26	39.5	47	142	142	142	142	142	55	5500	-
5	0.78	38	159	2.7	39.31	IE4	**BS30-../S4E08MA4**	3.8	12.5	25	38	45.5	159	159	159	159	159	55	5500	-
5	0.78	29.5	192	2.3	50.04	IE4	**BS30-../S4E08MA4**	2.9	9.9	19.5	29.5	35.5	192	192	192	192	192	55	5900	-
5	0.78	25.5	225	2	58.64	IE4	**BS30-../S4E08MA4**	2.5	8.5	17	25.5	30.5	225	225	225	225	225	55	6900	-
5	0.78	21	245	1.9	71.17	IE4	**BS30-../S4E08MA4**	2.1	7	14	21	25	245	245	245	245	245	55	7000	-
5	0.78	17.5	320	1.3	83.48	IE4	**BS30-../S4E08MA4**	1.7	5.9	11.5	17.5	21.5	320	320	320	320	320	55	6800	-
5	0.78	16.5	310	1.6	90.59	IE4	**BS30-../S4E08MA4**	1.6	5.5	11	16.5	19.5	310	310	310	310	310	55	7700	-
5	0.78	14	360	1.4	106.2	IE4	**BS30-../S4E08MA4**	1.4	4.7	9.4	14	16.5	360	360	360	360	360	55	8200	-
5	0.78	11.5	425	1.2	125.2	IE4	**BS30-../S4E08MA4**	1.1	3.9	7.9	11.5	14	425	425	425	425	425	55	8700	-
5	0.78	9.9	500	1.1	151.1	IE4	**BS30-../S4E08MA4**	0.95	3.3	6.6	9.9	11.5	500	500	500	500	500	55	9500	-
5	0.78	8	610	0.88	186.7	IE4	**BS30-../S4E08MA4**	0.8	2.6	5.3	8	9.6	610	610	610	610	610	55	10000	-
5	0.78	21.5	265	2.8	69.6	IE4	**BS40-../S4E08MA4**	2.1	7.1	14	21.5	25.5	265	265	265	265	265	68	11800	-
5	0.78	17	295	3	86.33	IE4	**BS40-../S4E08MA4**	1.7	5.7	11.5	17	20.5	295	295	295	295	295	68	12900	-
5	0.78	13.5	360	2.6	108.1	IE4	**BS40-../S4E08MA4**	1.3	4.6	9.2	13.5	16.5	360	360	360	360	360	68	14000	-
5	0.78	11.5	420	2.3	126	IE4	**BS40-../S4E08MA4**	1.1	3.9	7.9	11.5	14	420	420	420	420	420	68	14900	-
5	0.78	10	480	2	148.1	IE4	**BS40-../S4E08MA4**	1	3.3	6.7	10	12	480	480	480	480	480	68	15000	-
5	0.78	8.4	570	1.4	178.2	IE4	**BS40-../S4E08MA4**	0.8	2.8	5.6	8.4	10	570	570	570	570	570	68	15000	-
5	0.78	6.8	690	1.1	219.7	IE4	**BS40-../S4E08MA4**	0.65	2.2	4.5	6.8	8.1	690	690	690	690	690	68	15000	-
5	0.78	7.6	720	0.96	197.1	IE4	**BS40Z-../S4E08MA4**	0.75	2.5	5	7.6	9.1	720	720	720	720	720	71	15000	-
5	0.78	6	780	1.1	249.6	IE4	**BS40Z-../S4E08MA4**	0.6	2	4	6	7.2	780	780	780	780	780	71	15000	-
5	0.78	4.9	950	1.1	302.1	IE4	**BS40Z-../S4E08MA4**	0.49	1.6	3.3	4.9	5.9	950	950	950	950	950	71	15000	-
5	0.78	4.2	1120	0.96	356.8	IE4	**BS40Z-../S4E08MA4**	0.42	1.4	2.8	4.2	5	1120	1120	1120	1120	1120	71	15000	-

MN = 7 Nm (PN = 1.1 kW)



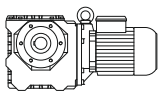
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
7	1.1	325	28	1.4	4.6	IE3	**BS03-../SPE08LA4**	32.5	108	215	325	390	26	28	28	28	28	12	1070	-
7	1.1	250	36.5	1.2	6	IE3	**BS03-../SPE08LA4**	25	83	166	250	300	34	36.5	36.5	36.5	36.5	12	1170	-
7	1.1	187	48	1	8	IE3	**BS03-../SPE08LA4**	18.5	62	125	187	225	44.5	48	48	48	48	12	1320	-
7	1.1	150	58	0.88	10	IE3	**BS03-../SPE08LA4**	15	50	100	150	180	54	58	58	58	58	12	1450	-
7	1.1	220	37.5	1.5	6.67	IE3	**BS06-../SPE08LA4**	22	74	149	220	265	35	37.5	37.5	37.5	37.5	17	1550	-
7	1.1	167	50	1.2	8.93	IE3	**BS06-../SPE08LA4**	16.5	55	111	167	200	47	50	50	50	50	17	1710	-
7	1.1	139	60	1.1	10.73	IE3	**BS06-../SPE08LA4**	13.5	46.5	93	139	167	56	60	60	60	60	17	1850	-
7	1.1	106	79	0.85	14.07	IE3	**BS06-../SPE08LA4**	10.5	35.5	71	106	127	74	79	79	79	79	17	2200	-
7	1.1	120	69	1.5	12.49	IE3	**BS10-../SPE08LA4**	12	40	80	120	144	64	69	69	69	69	28	2400	-
7	1.1	88	94	1.3	16.92	IE3	**BS10-../SPE08LA4**	8.8	29.5	59	88	106	87	94	94	94	94	28	2700	-
7	1.1	69	121	1	21.61	IE3	**BS10-../SPE08LA4**	6.9	23	46	69	83	112	121	121	121	121	28	3000	-
7	1.1	66	109	1.1	22.6	IE3	**BS10-../SPE08LA4**	6.6	22	44	66	79	101	109	109	109	109	28	3200	-
7	1.1	56	144	0.9	26.42	IE3	**BS10-../SPE08LA4**	5.6	18.5	37.5	56	68	133	144	144	144	144	28	3250	-
7	1.1	48.5	147	0.88	30.63	IE3	**BS10-../SPE08LA4**	4.8	16	32.5	48.5	58	137	147	147	147	147	28	3550	-
7	1.1	117	72	2.8	12.77	IE3	**BS20-../SPE08LA4**	11.5	39	78	117	140	67	72	72	72	72	39	3350	-
7	1.1	88	95	2.3	16.92	IE3	**BS20-../SPE08LA4**	8.8	29.5	59	88	106	89	95	95	95	95	39	3700	-
7	1.1	67	126	1.8	22.23	IE3	**BS20-../SPE08LA4**	6.7	22	44.5	67	80	117	126	126	126	126	39	4100	-
7	1.1	64	116	2	23.13	IE3	**BS20-../SPE08LA4**	6.4	21.5	43	64	77	108	116	116	116	116	39	4300	-
7	1.1	53	152	1.6	27.86	IE3	**BS20-../SPE08LA4**	5.3	17.5	35.5	53	64	141	152	152	152	152	39	4450	-
7	1.1	48.5	154	1.6	30.63	IE3	**BS20-../SPE08LA4**	4.8	16	32.5	48.5	58	143	154	154	154	154	39	4750	-
7	1.1	45.5	177	1.5	32.87	IE3	**BS20-../SPE08LA4**	4.5	15	30	45.5	54	164	177	177	177	177	39	4750	-
7	1.1	37	200	1.3	40.25	IE3	**BS20-../SPE08LA4**	3.7	12	24.5	37	44.5	188	200	200	200	200	39	5300	-
7	1.1	35.5	220	1.2	42.08	IE3	**BS20-../SPE08LA4**	3.5	11.5	23.5	35.5	42.5	205	220	220	220	220	39	5200	-
7	1.1	30.5	255	1	48.98	IE3	**BS20-../SPE08LA4**	3	10	20	30.5	36.5	235	255	255	255	255	39	5500	-
7	1.1	29.5	235	1.1	50.44	IE3	**BS20-../SPE08LA4**	2.9	9.9	19.5	29.5	35.5	215	235	235	235	235	39	5700	-
7	1.1	25.5	305	0.91	58.74	IE3	**BS20-../SPE08LA4**	2.5	8.5	17	25.5	30.5	285	305	305	305	305	39	5900	-
7	1.1	21	365	0.81	70.3	IE3	**BS20-../SPE08LA4**	2.1	7.1	14	21	25.5	340	365	365	365	365	39	6300	-
7	1.1	62	126	2.9	24.06	IE3	**BS30-../SPE08LA4**	6.2	20.5	41.5	62	74	117	126	126	126	126	56	4600	-
7	1.1	55	157	2.5	27.07	IE3	**BS30-../SPE08LA4**	5.5	18	36.5	55	66	146	157	157	157	157	56	4750	-
7	1.1	48.5	160	2.5	30.63	IE3	**BS30-../SPE08LA4**	4.8	16	32.5	48.5	58	149	160	160	160	160	56	5000	-
7	1.1	44.5	192	2.2	33.55	IE3	**BS30-../SPE08LA4**	4.4	14.5	29.5	44.5	53	178	192	192	192	192	56	5200	-
7	1.1	39.5	199	2.1	37.92	IE3	**BS30-../SPE08LA4**	3.9	13	26	39.5	47	184	199	199	199	199	56	5500	-
7	1.1	38	220	1.9	39.31	IE3	**BS30-../SPE08LA4**	3.8	12.5	25	38	45.5	205	220	220	220	220	56	5500	-
7	1.1	29.5	265	1.7	50.04	IE3	**BS30-../SPE08LA4**	2.9	9.9	19.5	29.5	35.5	250	265	265	265	265	56	5900	-
7	1.1	25.5	315	1.5	58.64	IE3	**BS30-../SPE08LA4**	2.5	8.5	17	25.5	30.5	290	315	315	315	315	56	6900	-
7	1.1	21	345	1.4	71.17	IE3	**BS30-../SPE08LA4**	2.1	7	14	21	25	320	345	345	345	345	56	7000	-
7	1.1	17.5	445	0.9	83.48	IE3	**BS30-../SPE08LA4**	1.7	5.9	11.5	17.5	21.5	415	445	445	445	445	56	6800	-

MN = 7 Nm (PN = 1.1 kW)



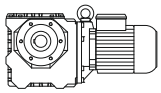
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
7	1.1	16.5	435	1.1	90.59	IE3	**BS30-../SPE08LA4**	1.6	5.5	11	16.5	19.5	405	435	435	435	435	56	7700	-
7	1.1	14	500	1	106.2	IE3	**BS30-../SPE08LA4**	1.4	4.7	9.4	14	16.5	465	500	500	500	500	56	8200	-
7	1.1	11.5	590	0.87	125.2	IE3	**BS30-../SPE08LA4**	1.1	3.9	7.9	11.5	14	550	590	590	590	590	56	8700	-
7	1.1	24.5	300	2.9	60.38	IE3	**BS40-../SPE08LA4**	2.4	8.2	16.5	24.5	29.5	275	300	300	300	300	69	11200	-
7	1.1	21.5	375	2	69.6	IE3	**BS40-../SPE08LA4**	2.1	7.1	14	21.5	25.5	345	375	375	375	375	69	11800	-
7	1.1	20.5	355	2.5	73.09	IE3	**BS40-../SPE08LA4**	2	6.8	13.5	20.5	24.5	330	355	355	355	355	69	12100	-
7	1.1	17	415	2.2	86.33	IE3	**BS40-../SPE08LA4**	1.7	5.7	11.5	17	20.5	385	415	415	415	415	69	12900	-
7	1.1	13.5	500	1.9	108.1	IE3	**BS40-../SPE08LA4**	1.3	4.6	9.2	13.5	16.5	470	500	500	500	500	69	14000	-
7	1.1	11.5	590	1.7	126	IE3	**BS40-../SPE08LA4**	1.1	3.9	7.9	11.5	14	540	590	590	590	590	69	14900	-
7	1.1	10	670	1.4	148.1	IE3	**BS40-../SPE08LA4**	1	3.3	6.7	10	12	620	670	670	670	670	69	15000	-
7	1.1	8.4	810	1	178.2	IE3	**BS40-../SPE08LA4**	0.8	2.8	5.6	8.4	10	750	810	810	810	810	69	15000	-
7	1.1	6.8	960	0.82	219.7	IE3	**BS40-../SPE08LA4**	0.65	2.2	4.5	6.8	8.1	890	960	960	960	960	69	15000	-
7	1.1	6	1100	0.82	249.6	IE3	**BS40Z-../SPE08LA4**	0.6	2	4	6	7.2	1020	1100	1100	1100	1100	73	15000	-
7	1.1	4.9	1330	0.8	302.1	IE3	**BS40Z-../SPE08LA4**	0.49	1.6	3.3	4.9	5.9	1230	1330	1330	1330	1330	73	15000	-

MN = 10 Nm (PN = 1.55 kW)



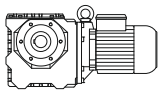
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
10	1.55	325	40	0.99	4.6	IE1	**BS03-../SSE08LA4**	32.5	108	215	325	390	26	32	40	40	40	12	1070	-
10	1.55	250	52	0.83	6	IE1	**BS03-../SSE08LA4**	25	83	166	250	300	34	42	52	52	52	12	1170	-
10	1.55	220	54	1	6.67	IE1	**BS06-../SSE08LA4**	22	74	149	220	265	35	43	54	54	54	17	1550	-
10	1.55	167	72	0.86	8.93	IE1	**BS06-../SSE08LA4**	16.5	55	111	167	200	47	57	72	72	72	17	1710	-
10	1.55	120	99	1.1	12.49	IE4	**BS10-../S4E09SA4**	12	40	80	120	144	84	99	99	99	99	32	2400	-
10	1.55	120	99	1.1	12.49	IE1	**BS10-../SSE08LA4**	12	40	80	120	144	64	79	99	99	99	28	2400	-
10	1.55	88	135	0.89	16.92	IE1	**BS10-../SSE08LA4**	8.8	29.5	59	88	106	87	108	135	135	135	28	2700	-
10	1.55	88	135	0.89	16.92	IE4	**BS10-../S4E09SA4**	8.8	29.5	59	88	106	115	135	135	135	135	32	2700	-
10	1.55	117	103	1.9	12.77	IE4	**BS20-../S4E09SA4**	11.5	39	78	117	140	87	103	103	103	103	42	3350	-
10	1.55	117	103	1.9	12.77	IE1	**BS20-../SSE08LA4**	11.5	39	78	117	140	67	82	103	103	103	39	3350	-
10	1.55	88	137	1.6	16.92	IE4	**BS20-../S4E09SA4**	8.8	29.5	59	88	106	116	137	137	137	137	42	3700	-
10	1.55	88	137	1.6	16.92	IE1	**BS20-../SSE08LA4**	8.8	29.5	59	88	106	89	109	137	137	137	39	3700	-
10	1.55	67	180	1.3	22.23	IE1	**BS20-../SSE08LA4**	6.7	22	44.5	67	80	117	144	180	180	180	39	4100	-
10	1.55	67	180	1.3	22.23	IE4	**BS20-../S4E09SA4**	6.7	22	44.5	67	80	153	180	180	180	180	42	4100	-
10	1.55	64	166	1.4	23.13	IE1	**BS20-../SSE08LA4**	6.4	21.5	43	64	77	108	133	166	166	166	39	4300	-
10	1.55	64	166	1.4	23.13	IE4	**BS20-../S4E09SA4**	6.4	21.5	43	64	77	141	166	166	166	166	42	4300	-
10	1.55	53	215	1.2	27.86	IE4	**BS20-../S4E09SA4**	5.3	17.5	35.5	53	64	184	215	215	215	215	42	4450	-
10	1.55	53	215	1.2	27.86	IE1	**BS20-../SSE08LA4**	5.3	17.5	35.5	53	64	141	173	215	215	215	39	4450	-
10	1.55	48.5	220	1.1	30.63	IE4	**BS20-../S4E09SA4**	4.8	16	32.5	48.5	58	187	220	220	220	220	42	4750	-
10	1.55	48.5	220	1.1	30.63	IE1	**BS20-../SSE08LA4**	4.8	16	32.5	48.5	58	143	176	220	220	220	39	4750	-
10	1.55	45.5	250	1.1	32.87	IE4	**BS20-../S4E09SA4**	4.5	15	30	45.5	54	215	250	250	250	250	42	4750	-
10	1.55	45.5	250	1.1	32.87	IE1	**BS20-../SSE08LA4**	4.5	15	30	45.5	54	164	200	250	250	250	39	4750	-
10	1.55	37	285	0.9	40.25	IE4	**BS20-../S4E09SA4**	3.7	12	24.5	37	44.5	245	285	285	285	285	42	5300	-
10	1.55	37	285	0.9	40.25	IE1	**BS20-../SSE08LA4**	3.7	12	24.5	37	44.5	188	230	285	285	285	39	5300	-
10	1.55	35.5	315	0.84	42.08	IE1	**BS20-../SSE08LA4**	3.5	11.5	23.5	35.5	42.5	205	255	315	315	315	39	5200	-
10	1.55	35.5	315	0.84	42.08	IE4	**BS20-../S4E09SA4**	3.5	11.5	23.5	35.5	42.5	270	315	315	315	315	42	5200	-
10	1.55	29.5	335	0.8	50.44	IE1	**BS20-../SSE08LA4**	2.9	9.9	19.5	29.5	35.5	215	270	335	335	335	39	5700	-
10	1.55	29.5	335	0.8	50.44	IE4	**BS20-../S4E09SA4**	2.9	9.9	19.5	29.5	35.5	285	335	335	335	335	42	5700	-
10	1.55	112	110	3	13.29	IE1	**BS30-../SSE08LA4**	11	37.5	75	112	135	71	88	110	110	110	56	3600	-
10	1.55	112	110	3	13.29	IE4	**BS30-../S4E09SA4**	11	37.5	75	112	135	93	110	110	110	110	60	3600	-
10	1.55	88	140	2.6	16.92	IE4	**BS30-../S4E09SA4**	8.8	29.5	59	88	106	119	140	140	140	140	60	3950	-
10	1.55	88	140	2.6	16.92	IE1	**BS30-../SSE08LA4**	8.8	29.5	59	88	106	91	112	140	140	140	56	3950	-
10	1.55	71	173	2.2	20.94	IE1	**BS30-../SSE08LA4**	7.1	23.5	47.5	71	85	112	139	173	173	173	56	4300	-
10	1.55	71	173	2.2	20.94	IE4	**BS30-../S4E09SA4**	7.1	23.5	47.5	71	85	147	173	173	173	173	60	4300	-
10	1.55	62	180	2	24.06	IE1	**BS30-../SSE08LA4**	6.2	20.5	41.5	62	74	117	144	180	180	180	56	4600	-
10	1.55	62	180	2	24.06	IE4	**BS30-../S4E09SA4**	6.2	20.5	41.5	62	74	153	180	180	180	180	60	4600	-
10	1.55	55	220	1.8	27.07	IE1	**BS30-../SSE08LA4**	5.5	18	36.5	55	66	146	179	220	220	220	56	4750	-
10	1.55	55	220	1.8	27.07	IE4	**BS30-../S4E09SA4**	5.5	18	36.5	55	66	190	220	220	220	220	60	4750	-
10	1.55	48.5	225	1.7	30.63	IE4	**BS30-../S4E09SA4**	4.8	16	32.5	48.5	58	195	225	225	225	225	60	5000	-
10	1.55	48.5	225	1.7	30.63	IE1	**BS30-../SSE08LA4**	4.8	16	32.5	48.5	58	149	183	225	225	225	56	5000	-
10	1.55	44.5	275	1.5	33.55	IE1	**BS30-../SSE08LA4**	4.4	14.5	29.5	44.5	53	178	220	275	275	275	56	5200	-
10	1.55	44.5	275	1.5	33.55	IE4	**BS30-../S4E09SA4**	4.4	14.5	29.5	44.5	53	230	275	275	275	275	60	5200	-
10	1.55	39.5	280	1.5	37.92	IE4	**BS30-../S4E09SA4**	3.9	13	26	39.5	47	240	280	280	280	280	60	5500	-
10	1.55	39.5	280	1.5	37.92	IE1	**BS30-../SSE08LA4**	3.9	13	26	39.5	47	184	225	280	280	280	56	5500	-
10	1.55	38	315	1.4	39.31	IE1	**BS30-../SSE08LA4**	3.8	12.5	25	38	45.5	205	250	315	315	315	56	5500	-
10	1.55	38	315	1.4	39.31	IE4	**BS30-../S4E09SA4**	3.8	12.5	25	38	45.5	270	315	315	315	315	60	5500	-
10	1.55	29.5	385	1.2	50.04	IE1	**BS30-../SSE08LA4**	2.9	9.9	19.5	29.5	35.5	250	305	385	385	385	56	5900	-
10	1.55	29.5	385	1.2	50.04	IE4	**BS30-../S4E09SA4**	2.9	9.9	19.5	29.5	35.5	325	385	385	385	385	60	5900	-
10	1.55	25.5	450	1	58.64	IE1	**BS30-../SSE08LA4**	2.5	8.5	17	25.5	30.5	290	360	450	450	450	56	6900	-
10	1.55	25.5	450	1	58.64	IE4	**BS30-../S4E09SA4**	2.5	8.5	17	25.5	30.5	380	450	450	450	450	60	6900	-
10	1.55	21	495	0.96	71.17	IE4	**BS30-../S4E09SA4**	2.1	7	14	21	25	420	495	495	495	495	60	7000	-
10	1.55	21	495	0.96	71.17	IE1	**BS30-../SSE08LA4**	2.1	7	14	21	25	320	395	495	495	495	56	7000	-

MN = 10 Nm (PN = 1.55 kW)



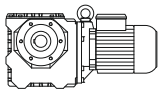
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
10	1.55	44.5	265	2.9	33.35	IE4	**BS40-../S4E09SA4**	4.4	14.5	29.5	44.5	53	225	265	265	265	265	73	8300	-
10	1.55	44.5	265	2.9	33.35	IE1	**BS40-../SSE08LA4**	4.4	14.5	29.5	44.5	53	173	210	265	265	265	69	8300	-
10	1.55	39	275	2.8	38.13	IE4	**BS40-../S4E09SA4**	3.9	13	26	39	47	235	275	275	275	275	73	9400	-
10	1.55	39	275	2.8	38.13	IE1	**BS40-../SSE08LA4**	3.9	13	26	39	47	180	220	275	275	275	69	9400	-
10	1.55	37	315	2.5	40.37	IE4	**BS40-../S4E09SA4**	3.7	12	24.5	37	44.5	270	315	315	315	315	73	9000	-
10	1.55	37	315	2.5	40.37	IE1	**BS40-../SSE08LA4**	3.7	12	24.5	37	44.5	205	255	315	315	315	69	9000	-
10	1.55	31	370	2.2	47.69	IE4	**BS40-../S4E09SA4**	3.1	10	20.5	31	37.5	315	370	370	370	370	73	9600	-
10	1.55	31	370	2.2	47.69	IE1	**BS40-../SSE08LA4**	3.1	10	20.5	31	37.5	240	295	370	370	370	69	9600	-
10	1.55	24.5	425	2	60.38	IE1	**BS40-../SSE08LA4**	2.4	8.2	16.5	24.5	29.5	275	340	425	425	425	69	11200	-
10	1.55	24.5	425	2	60.38	IE4	**BS40-../S4E09SA4**	2.4	8.2	16.5	24.5	29.5	360	425	425	425	425	73	11200	-
10	1.55	21.5	530	1.4	69.6	IE4	**BS40-../S4E09SA4**	2.1	7.1	14	21.5	25.5	455	530	530	530	530	73	11800	-
10	1.55	21.5	530	1.4	69.6	IE1	**BS40-../SSE08LA4**	2.1	7.1	14	21.5	25.5	345	425	530	530	530	69	11800	-
10	1.55	20.5	510	1.7	73.09	IE4	**BS40-../S4E09SA4**	2	6.8	13.5	20.5	24.5	430	510	510	510	510	73	12100	-
10	1.55	20.5	510	1.7	73.09	IE1	**BS40-../SSE08LA4**	2	6.8	13.5	20.5	24.5	330	405	510	510	510	69	12100	-
10	1.55	17	590	1.5	86.33	IE1	**BS40-../SSE08LA4**	1.7	5.7	11.5	17	20.5	385	475	590	590	590	69	12900	-
10	1.55	17	590	1.5	86.33	IE4	**BS40-../S4E09SA4**	1.7	5.7	11.5	17	20.5	500	590	590	590	590	73	12900	-
10	1.55	13.5	720	1.3	108.1	IE4	**BS40-../S4E09SA4**	1.3	4.6	9.2	13.5	16.5	610	720	720	720	720	73	14000	-
10	1.55	13.5	720	1.3	108.1	IE1	**BS40-../SSE08LA4**	1.3	4.6	9.2	13.5	16.5	470	570	720	720	720	69	14000	-
10	1.55	11.5	840	1.2	126	IE4	**BS40-../S4E09SA4**	1.1	3.9	7.9	11.5	14	710	840	840	840	840	73	14900	-
10	1.55	11.5	840	1.2	126	IE1	**BS40-../SSE08LA4**	1.1	3.9	7.9	11.5	14	540	670	840	840	840	69	14900	-
10	1.55	10	960	1	148.1	IE4	**BS40-../S4E09SA4**	1	3.3	6.7	10	12	810	960	960	960	960	73	15000	-
10	1.55	10	960	1	148.1	IE1	**BS40-../SSE08LA4**	1	3.3	6.7	10	12	620	770	960	960	960	69	15000	-

MN = 14 Nm (PN = 2.2 kW)



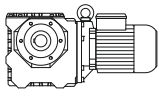
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
14	2.2	117	144	1.4	12.77	IE2	**BS20-../SHE09SA4**	11.5	39	78	117	140	87	103	144	144	144	42	3350	-
14	2.2	117	144	1.4	12.77	IE5	**BS20-../S5E09XA4**	11.5	39	78	117	140	134	144	144	144	144	50	3350	-
14	2.2	88	191	1.1	16.92	IE5	**BS20-../S5E09XA4**	8.8	29.5	59	88	106	178	191	191	191	191	50	3700	-
14	2.2	88	191	1.1	16.92	IE2	**BS20-../SHE09SA4**	8.8	29.5	59	88	106	116	137	191	191	191	42	3700	-
14	2.2	67	250	0.91	22.23	IE2	**BS20-../SHE09SA4**	6.7	22	44.5	67	80	153	180	250	250	250	42	4100	-
14	2.2	67	250	0.91	22.23	IE5	**BS20-../S5E09XA4**	6.7	22	44.5	67	80	230	250	250	250	250	50	4100	-
14	2.2	64	230	0.98	23.13	IE5	**BS20-../S5E09XA4**	6.4	21.5	43	64	77	215	230	230	230	230	50	4300	-
14	2.2	64	230	0.98	23.13	IE2	**BS20-../SHE09SA4**	6.4	21.5	43	64	77	141	166	230	230	230	42	4300	-
14	2.2	53	300	0.82	27.86	IE5	**BS20-../S5E09XA4**	5.3	17.5	35.5	53	64	280	300	300	300	300	50	4450	-
14	2.2	53	300	0.82	27.86	IE2	**BS20-../SHE09SA4**	5.3	17.5	35.5	53	64	184	215	300	300	300	42	4450	-
14	2.2	48.5	305	0.81	30.63	IE5	**BS20-../S5E09XA4**	4.8	16	32.5	48.5	58	285	305	305	305	305	50	4750	-
14	2.2	48.5	305	0.81	30.63	IE2	**BS20-../SHE09SA4**	4.8	16	32.5	48.5	58	187	220	305	305	305	42	4750	-
14	2.2	112	154	2.1	13.29	IE2	**BS30-../SHE09SA4**	11	37.5	75	112	135	93	110	154	154	154	60	3600	-
14	2.2	112	154	2.1	13.29	IE5	**BS30-../S5E09XA4**	11	37.5	75	112	135	143	154	154	154	154	68	3600	-
14	2.2	88	196	1.8	16.92	IE5	**BS30-../S5E09XA4**	8.8	29.5	59	88	106	182	196	196	196	196	68	3950	-
14	2.2	88	196	1.8	16.92	IE2	**BS30-../SHE09SA4**	8.8	29.5	59	88	106	119	140	196	196	196	60	3950	-
14	2.2	71	240	1.6	20.94	IE2	**BS30-../SHE09SA4**	7.1	23.5	47.5	71	85	147	173	240	240	240	60	4300	-
14	2.2	71	240	1.6	20.94	IE5	**BS30-../S5E09XA4**	7.1	23.5	47.5	71	85	225	240	240	240	240	68	4300	-
14	2.2	62	250	1.5	24.06	IE2	**BS30-../SHE09SA4**	6.2	20.5	41.5	62	74	153	180	250	250	250	60	4600	-
14	2.2	62	250	1.5	24.06	IE5	**BS30-../S5E09XA4**	6.2	20.5	41.5	62	74	230	250	250	250	250	68	4600	-
14	2.2	55	310	1.3	27.07	IE2	**BS30-../SHE09SA4**	5.5	18	36.5	55	66	190	220	310	310	310	60	4750	-
14	2.2	55	310	1.3	27.07	IE5	**BS30-../S5E09XA4**	5.5	18	36.5	55	66	290	310	310	310	310	68	4750	-
14	2.2	48.5	320	1.2	30.63	IE5	**BS30-../S5E09XA4**	4.8	16	32.5	48.5	58	295	320	320	320	320	68	5000	-
14	2.2	48.5	320	1.2	30.63	IE2	**BS30-../SHE09SA4**	4.8	16	32.5	48.5	58	195	225	320	320	320	60	5000	-
14	2.2	44.5	385	1.1	33.55	IE2	**BS30-../SHE09SA4**	4.4	14.5	29.5	44.5	53	230	275	385	385	385	60	5200	-
14	2.2	44.5	385	1.1	33.55	IE5	**BS30-../S5E09XA4**	4.4	14.5	29.5	44.5	53	355	385	385	385	385	68	5200	-
14	2.2	39.5	395	1.1	37.92	IE2	**BS30-../SHE09SA4**	3.9	13	26	39.5	47	240	280	395	395	395	60	5500	-
14	2.2	39.5	395	1.1	37.92	IE5	**BS30-../S5E09XA4**	3.9	13	26	39.5	47	365	395	395	395	395	68	5500	-
14	2.2	38	445	0.96	39.31	IE5	**BS30-../S5E09XA4**	3.8	12.5	25	38	45.5	410	445	445	445	445	68	5500	-
14	2.2	38	445	0.96	39.31	IE2	**BS30-../SHE09SA4**	3.8	12.5	25	38	45.5	270	315	445	445	445	60	5500	-
14	2.2	29.5	530	0.83	50.04	IE5	**BS30-../S5E09XA4**	2.9	9.9	19.5	29.5	35.5	500	530	530	530	530	68	5900	-
14	2.2	29.5	530	0.83	50.04	IE2	**BS30-../SHE09SA4**	2.9	9.9	19.5	29.5	35.5	325	385	530	530	530	60	5900	-
14	2.2	71	240	2.9	21.06	IE2	**BS40-../SHE09SA4**	7.1	23.5	47	71	85	146	172	240	240	240	73	6900	-
14	2.2	71	240	2.9	21.06	IE5	**BS40-../S5E09XA4**	7.1	23.5	47	71	85	220	240	240	240	240	81	6900	-
14	2.2	63	240	2.8	23.59	IE5	**BS40-../S5E09XA4**	6.3	21	42	63	76	225	240	240	240	240	81	7900	-
14	2.2	63	240	2.8	23.59	IE2	**BS40-../SHE09SA4**	6.3	21	42	63	76	148	174	240	240	240	73	7900	-
14	2.2	57	300	2.5	26.18	IE5	**BS40-../S5E09XA4**	5.7	19	38	57	68	275	300	300	300	300	81	7500	-
14	2.2	57	300	2.5	26.18	IE2	**BS40-../SHE09SA4**	5.7	19	38	57	68	182	210	300	300	300	73	7500	-
14	2.2	48.5	315	2.4	30.63	IE5	**BS40-../S5E09XA4**	4.8	16	32.5	48.5	58	290	315	315	315	315	81	8700	-
14	2.2	48.5	315	2.4	30.63	IE2	**BS40-../SHE09SA4**	4.8	16	32.5	48.5	58	192	225	315	315	315	73	8700	-
14	2.2	44.5	370	2.1	33.35	IE5	**BS40-../S5E09XA4**	4.4	14.5	29.5	44.5	53	345	370	370	370	370	81	8300	-
14	2.2	44.5	370	2.1	33.35	IE2	**BS40-../SHE09SA4**	4.4	14.5	29.5	44.5	53	225	265	370	370	370	73	8300	-
14	2.2	39	385	2	38.13	IE5	**BS40-../S5E09XA4**	3.9	13	26	39	47	360	385	385	385	385	81	9400	-
14	2.2	39	385	2	38.13	IE2	**BS40-../SHE09SA4**	3.9	13	26	39	47	235	275	385	385	385	73	9400	-
14	2.2	37	445	1.8	40.37	IE5	**BS40-../S5E09XA4**	3.7	12	24.5	37	44.5	410	445	445	445	445	81	9000	-
14	2.2	37	445	1.8	40.37	IE2	**BS40-../SHE09SA4**	3.7	12	24.5	37	44.5	270	315	445	445	445	73	9000	-
14	2.2	31	520	1.6	47.69	IE5	**BS40-../S5E09XA4**	3.1	10	20.5	31	37.5	480	520	520	520	520	81	9600	-
14	2.2	31	520	1.6	47.69	IE2	**BS40-../SHE09SA4**	3.1	10	20.5	31	37.5	315	370	520	520	520	73	9600	-

MN = 14 Nm (PN = 2.2 kW)



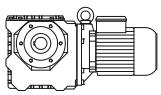
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
14	2.2	24.5	600	1.4	60.38	IE2	**BS40-../SHE09SA4**	2.4	8.2	16.5	24.5	29.5	360	425	600	600	600	73	11200	-
14	2.2	24.5	600	1.4	60.38	IE5	**BS40-../S5E09XA4**	2.4	8.2	16.5	24.5	29.5	550	600	600	600	600	81	11200	-
14	2.2	21.5	750	0.99	69.6	IE2	**BS40-../SHE09SA4**	2.1	7.1	14	21.5	25.5	455	530	750	750	750	73	11800	-
14	2.2	21.5	750	0.99	69.6	IE5	**BS40-../S5E09XA4**	2.1	7.1	14	21.5	25.5	690	750	750	750	750	81	11800	-
14	2.2	20.5	710	1.2	73.09	IE5	**BS40-../S5E09XA4**	2	6.8	13.5	20.5	24.5	660	710	710	710	710	81	12100	-
14	2.2	20.5	710	1.2	73.09	IE2	**BS40-../SHE09SA4**	2	6.8	13.5	20.5	24.5	430	510	710	710	710	73	12100	-
14	2.2	17	830	1.1	86.33	IE5	**BS40-../S5E09XA4**	1.7	5.7	11.5	17	20.5	770	830	830	830	830	81	12900	-
14	2.2	17	830	1.1	86.33	IE2	**BS40-../SHE09SA4**	1.7	5.7	11.5	17	20.5	500	590	830	830	830	73	12900	-
14	2.2	13.5	1010	0.94	108.1	IE5	**BS40-../S5E09XA4**	1.3	4.6	9.2	13.5	16.5	940	1010	1010	1010	1010	81	14000	-
14	2.2	13.5	1010	0.94	108.1	IE2	**BS40-../SHE09SA4**	1.3	4.6	9.2	13.5	16.5	610	720	1010	1010	1010	73	14000	-
14	2.2	11.5	1180	0.83	126	IE5	**BS40-../S5E09XA4**	1.1	3.9	7.9	11.5	14	1090	1180	1180	1180	1180	81	14900	-
14	2.2	11.5	1180	0.83	126	IE2	**BS40-../SHE09SA4**	1.1	3.9	7.9	11.5	14	710	840	1180	1180	1180	73	14900	-

MN = 19 Nm (PN = 3 kW)



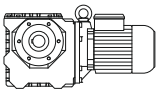
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
19	3	112	205	1.6	13.29	IE4	**BS30-../S4E11SA6**	11	37.5	75	112	135	205	205	205	205	205	77	3600	-
19	3	88	265	1.3	16.92	IE4	**BS30-../S4E11SA6**	8.8	29.5	59	88	106	265	265	265	265	265	77	3950	-
19	3	71	330	1.2	20.94	IE4	**BS30-../S4E11SA6**	7.1	23.5	47.5	71	85	330	330	330	330	330	77	4300	-
19	3	62	340	1.1	24.06	IE4	**BS30-../S4E11SA6**	6.2	20.5	41.5	62	74	340	340	340	340	340	77	4600	-
19	3	55	425	0.94	27.07	IE4	**BS30-../S4E11SA6**	5.5	18	36.5	55	66	425	425	425	425	425	77	4750	-
19	3	48.5	435	0.92	30.63	IE4	**BS30-../S4E11SA6**	4.8	16	32.5	48.5	58	435	435	435	435	435	77	5000	-
19	3	44.5	520	0.8	33.55	IE4	**BS30-../S4E11SA6**	4.4	14.5	29.5	44.5	53	520	520	520	520	520	77	5200	-
19	3	115	210	2.9	13.03	IE4	**BS40-../S4E11SA6**	11.5	38	76	115	138	210	210	210	210	210	95	5800	-
19	3	88	270	2.5	16.92	IE4	**BS40-../S4E11SA6**	8.8	29.5	59	88	106	270	270	270	270	270	95	6400	-
19	3	71	325	2.2	21.06	IE4	**BS40-../S4E11SA6**	7.1	23.5	47	71	85	325	325	325	325	325	95	6900	-
19	3	63	330	2.1	23.59	IE4	**BS40-../S4E11SA6**	6.3	21	42	63	76	330	330	330	330	330	95	7900	-
19	3	57	405	1.8	26.18	IE4	**BS40-../S4E11SA6**	5.7	19	38	57	68	405	405	405	405	405	95	7500	-
19	3	48.5	430	1.7	30.63	IE4	**BS40-../S4E11SA6**	4.8	16	32.5	48.5	58	430	430	430	430	430	95	8700	-
19	3	44.5	500	1.5	33.35	IE4	**BS40-../S4E11SA6**	4.4	14.5	29.5	44.5	53	500	500	500	500	500	95	8300	-
19	3	39	520	1.5	38.13	IE4	**BS40-../S4E11SA6**	3.9	13	26	39	47	520	520	520	520	520	95	9400	-
19	3	37	600	1.3	40.37	IE4	**BS40-../S4E11SA6**	3.7	12	24.5	37	44.5	600	600	600	600	600	95	9000	-
19	3	31	700	1.2	47.69	IE4	**BS40-../S4E11SA6**	3.1	10	20.5	31	37.5	700	700	700	700	700	95	9600	-
19	3	24.5	810	1.1	60.38	IE4	**BS40-../S4E11SA6**	2.4	8.2	16.5	24.5	29.5	810	810	810	810	810	95	11200	-
19	3	20.5	970	0.91	73.09	IE4	**BS40-../S4E11SA6**	2	6.8	13.5	20.5	24.5	970	970	970	970	970	95	12100	-
19	3	17	1130	0.8	86.33	IE4	**BS40-../S4E11SA6**	1.7	5.7	11.5	17	20.5	1130	1130	1130	1130	1130	95	12900	-

MN = 20 Nm (PN = 3.1 kW)



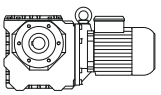
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
20	3.1	117	205	0.97	12.77	IE3	**BS20-../SPE09XA4**	11.5	39	78	117	140	134	165	205	205	205	50	3350	-
20	3.1	88	270	0.8	16.92	IE3	**BS20-../SPE09XA4**	8.8	29.5	59	88	106	178	215	270	270	270	50	3700	-
20	3.1	112	220	1.5	13.29	IE3	**BS30-../SPE09XA4**	11	37.5	75	112	135	143	176	220	220	220	68	3600	-
20	3.1	88	280	1.3	16.92	IE3	**BS30-../SPE09XA4**	8.8	29.5	59	88	106	182	220	280	280	280	68	3950	-
20	3.1	71	345	1.1	20.94	IE3	**BS30-../SPE09XA4**	7.1	23.5	47.5	71	85	225	275	345	345	345	68	4300	-
20	3.1	62	360	1	24.06	IE3	**BS30-../SPE09XA4**	6.2	20.5	41.5	62	74	230	285	360	360	360	68	4600	-
20	3.1	55	445	0.89	27.07	IE3	**BS30-../SPE09XA4**	5.5	18	36.5	55	66	290	355	445	445	445	68	4750	-
20	3.1	48.5	455	0.87	30.63	IE3	**BS30-../SPE09XA4**	4.8	16	32.5	48.5	58	295	365	455	455	455	68	5000	-
20	3.1	115	220	2.8	13.03	IE3	**BS40-../SPE09XA4**	11.5	38	76	115	138	143	177	220	220	220	81	5800	-
20	3.1	88	285	2.3	16.92	IE3	**BS40-../SPE09XA4**	8.8	29.5	59	88	106	186	230	285	285	285	81	6400	-
20	3.1	71	345	2.1	21.06	IE3	**BS40-../SPE09XA4**	7.1	23.5	47	71	85	220	275	345	345	345	81	6900	-
20	3.1	63	345	2	23.59	IE3	**BS40-../SPE09XA4**	6.3	21	42	63	76	225	275	345	345	345	81	7900	-
20	3.1	57	425	1.7	26.18	IE3	**BS40-../SPE09XA4**	5.7	19	38	57	68	275	340	425	425	425	81	7500	-
20	3.1	48.5	450	1.7	30.63	IE3	**BS40-../SPE09XA4**	4.8	16	32.5	48.5	58	290	360	450	450	450	81	8700	-
20	3.1	44.5	530	1.5	33.35	IE3	**BS40-../SPE09XA4**	4.4	14.5	29.5	44.5	53	345	425	530	530	530	81	8300	-
20	3.1	39	550	1.4	38.13	IE3	**BS40-../SPE09XA4**	3.9	13	26	39	47	360	445	550	550	550	81	9400	-
20	3.1	37	630	1.3	40.37	IE3	**BS40-../SPE09XA4**	3.7	12	24.5	37	44.5	410	510	630	630	630	81	9000	-
20	3.1	31	740	1.1	47.69	IE3	**BS40-../SPE09XA4**	3.1	10	20.5	31	37.5	480	590	740	740	740	81	9600	-
20	3.1	24.5	850	1	60.38	IE3	**BS40-../SPE09XA4**	2.4	8.2	16.5	24.5	29.5	550	680	850	850	850	81	11200	-
20	3.1	20.5	1020	0.86	73.09	IE3	**BS40-../SPE09XA4**	2	6.8	13.5	20.5	24.5	660	810	1020	1020	1020	81	12100	-

MN = 25.5 Nm (PN = 4 kW)



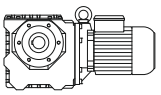
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
25.5	4	112	280	1.2	13.29	IE3	**BS30-../SPE11SA6**	11	37.5	75	112	135	205	240	280	280	280	77	3600	-
25.5	4	88	355	1	16.92	IE3	**BS30-../SPE11SA6**	8.8	29.5	59	88	106	265	305	355	355	355	77	3950	-
25.5	4	71	440	0.86	20.94	IE3	**BS30-../SPE11SA6**	7.1	23.5	47.5	71	85	330	380	440	440	440	77	4300	-
25.5	4	62	460	0.8	24.06	IE3	**BS30-../SPE11SA6**	6.2	20.5	41.5	62	74	340	395	460	460	460	77	4600	-
25.5	4	115	280	2.2	13.03	IE3	**BS40-../SPE11SA6**	11.5	38	76	115	138	210	240	280	280	280	95	5800	-
25.5	4	88	365	1.8	16.92	IE3	**BS40-../SPE11SA6**	8.8	29.5	59	88	106	270	315	365	365	365	95	6400	-
25.5	4	71	440	1.6	21.06	IE3	**BS40-../SPE11SA6**	7.1	23.5	47	71	85	325	375	440	440	440	95	6900	-
25.5	4	63	445	1.5	23.59	IE3	**BS40-../SPE11SA6**	6.3	21	42	63	76	330	380	445	445	445	95	7900	-
25.5	4	57	540	1.4	26.18	IE3	**BS40-../SPE11SA6**	5.7	19	38	57	68	405	470	540	540	540	95	7500	-
25.5	4	48.5	570	1.3	30.63	IE3	**BS40-../SPE11SA6**	4.8	16	32.5	48.5	58	430	495	570	570	570	95	8700	-
25.5	4	44.5	680	1.1	33.35	IE3	**BS40-../SPE11SA6**	4.4	14.5	29.5	44.5	53	500	580	680	680	680	95	8300	-
25.5	4	39	700	1.1	38.13	IE3	**BS40-../SPE11SA6**	3.9	13	26	39	47	520	610	700	700	700	95	9400	-
25.5	4	37	810	0.98	40.37	IE3	**BS40-../SPE11SA6**	3.7	12	24.5	37	44.5	600	700	810	810	810	95	9000	-
25.5	4	31	940	0.88	47.69	IE3	**BS40-../SPE11SA6**	3.1	10	20.5	31	37.5	700	810	940	940	940	95	9600	-

MN = 26.5 Nm (PN = 4 kW)



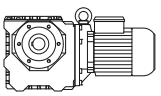
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
26.5	4	112	290	1.1	13.29	IE5	**BS30-../S5E11MA6**	11	37.5	75	112	135	290	290	290	290	290	77	3600	-
26.5	4	88	370	0.97	16.92	IE5	**BS30-../S5E11MA6**	8.8	29.5	59	88	106	370	370	370	370	370	77	3950	-
26.5	4	71	460	0.83	20.94	IE5	**BS30-../S5E11MA6**	7.1	23.5	47.5	71	85	460	460	460	460	460	77	4300	-
26.5	4	115	290	2.1	13.03	IE5	**BS40-../S5E11MA6**	11.5	38	76	115	138	290	290	290	290	290	95	5800	-
26.5	4	88	380	1.8	16.92	IE5	**BS40-../S5E11MA6**	8.8	29.5	59	88	106	380	380	380	380	380	95	6400	-
26.5	4	71	455	1.6	21.06	IE5	**BS40-../S5E11MA6**	7.1	23.5	47	71	85	455	455	455	455	455	95	6900	-
26.5	4	63	460	1.5	23.59	IE5	**BS40-../S5E11MA6**	6.3	21	42	63	76	460	460	460	460	460	95	7900	-
26.5	4	57	560	1.3	26.18	IE5	**BS40-../S5E11MA6**	5.7	19	38	57	68	560	560	560	560	560	95	7500	-
26.5	4	48.5	600	1.2	30.63	IE5	**BS40-../S5E11MA6**	4.8	16	32.5	48.5	58	600	600	600	600	600	95	8700	-
26.5	4	44.5	700	1.1	33.35	IE5	**BS40-../S5E11MA6**	4.4	14.5	29.5	44.5	53	700	700	700	700	700	95	8300	-
26.5	4	39	730	1.1	38.13	IE5	**BS40-../S5E11MA6**	3.9	13	26	39	47	730	730	730	730	730	95	9400	-
26.5	4	37	840	0.95	40.37	IE5	**BS40-../S5E11MA6**	3.7	12	24.5	37	44.5	840	840	840	840	840	95	9000	-
26.5	4	31	980	0.84	47.69	IE5	**BS40-../S5E11MA6**	3.1	10	20.5	31	37.5	980	980	980	980	980	95	9600	-

MN = 35 Nm (PN = 5.5 kW)



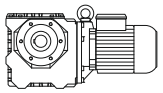
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
35	5.5	112	385	0.86	13.29	IE5	**BS30-../S5E11LA6**	11	37.5	75	112	135	385	385	385	385	385	89	3600	-
35	5.5	112	385	0.86	13.29	IE4	**BS30-../S4E11MA6**	11	37.5	75	112	135	290	330	385	385	385	77	3600	-
35	5.5	115	385	1.6	13.03	IE4	**BS40-../S4E11MA6**	11.5	38	76	115	138	290	330	385	385	385	95	5800	-
35	5.5	115	385	1.6	13.03	IE5	**BS40-../S5E11LA6**	11.5	38	76	115	138	385	385	385	385	385	107	5800	-
35	5.5	88	500	1.3	16.92	IE5	**BS40-../S5E11LA6**	8.8	29.5	59	88	106	500	500	500	500	500	107	6400	-
35	5.5	88	500	1.3	16.92	IE4	**BS40-../S4E11MA6**	8.8	29.5	59	88	106	380	430	500	500	500	95	6400	-
35	5.5	71	600	1.2	21.06	IE4	**BS40-../S4E11MA6**	7.1	23.5	47	71	85	455	510	600	600	600	95	6900	-
35	5.5	71	600	1.2	21.06	IE5	**BS40-../S5E11LA6**	7.1	23.5	47	71	85	600	600	600	600	600	107	6900	-
35	5.5	63	610	1.1	23.59	IE4	**BS40-../S4E11MA6**	6.3	21	42	63	76	460	520	610	610	610	95	7900	-
35	5.5	63	610	1.1	23.59	IE5	**BS40-../S5E11LA6**	6.3	21	42	63	76	610	610	610	610	610	107	7900	-
35	5.5	57	750	0.98	26.18	IE4	**BS40-../S4E11MA6**	5.7	19	38	57	68	560	640	750	750	750	95	7500	-
35	5.5	57	750	0.98	26.18	IE5	**BS40-../S5E11LA6**	5.7	19	38	57	68	750	750	750	750	750	107	7500	-
35	5.5	48.5	790	0.95	30.63	IE4	**BS40-../S4E11MA6**	4.8	16	32.5	48.5	58	600	670	790	790	790	95	8700	-
35	5.5	48.5	790	0.95	30.63	IE5	**BS40-../S5E11LA6**	4.8	16	32.5	48.5	58	790	790	790	790	790	107	8700	-
35	5.5	44.5	930	0.84	33.35	IE5	**BS40-../S5E11LA6**	4.4	14.5	29.5	44.5	53	930	930	930	930	930	107	8300	-
35	5.5	44.5	930	0.84	33.35	IE4	**BS40-../S4E11MA6**	4.4	14.5	29.5	44.5	53	700	800	930	930	930	95	8300	-
35	5.5	39	970	0.8	38.13	IE4	**BS40-../S4E11MA6**	3.9	13	26	39	47	730	830	970	970	970	95	9400	-
35	5.5	39	970	0.8	38.13	IE5	**BS40-../S5E11LA6**	3.9	13	26	39	47	970	970	970	970	970	107	9400	-

MN = 48 Nm (PN = 7.5 kW)



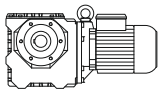
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
48	7.5	115	530	1.2	13.03	IE3	**BS40-../SPE11LA6**	11.5	38	76	115	138	385	440	530	530	530	107	5800	-
48	7.5	88	690	0.97	16.92	IE3	**BS40-../SPE11LA6**	8.8	29.5	59	88	106	500	570	690	690	690	107	6400	-

MN = 48 Nm (PN = 7.5 kW)



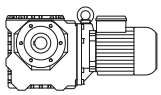
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	**Type**	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
48	7.5	71	820	0.86	21.06	IE3	**BS40-../SPE11LA6**	7.1	23.5	47	71	85	600	690	820	820	820	107	6900	-
48	7.5	63	830	0.82	23.59	IE3	**BS40-../SPE11LA6**	6.3	21	42	63	76	610	690	830	830	830	107	7900	-

MN = 0.65 Nm (PN = 0.2 kW)



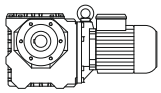
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
0.65	0.2	166	8.6	2.9	18	IE5	**BS02-../S5E04SA4-1**	8.3	27.5	55	166	200	8.6	8.6	8.6	8.6	8.6	3.5	1250	-
0.65	0.2	136	10	2.5	22	IE5	**BS02-../S5E04SA4-1**	6.8	22.5	45	136	163	10	10	10	10	10	3.5	1250	-
0.65	0.2	111	11	2.3	27	IE5	**BS02-../S5E04SA4-1**	5.5	18.5	37	111	133	11	11	11	11	11	3.5	1250	-
0.65	0.2	90	12.8	1.9	33	IE5	**BS02-../S5E04SA4-1**	4.5	15	30	90	109	12.8	12.8	12.8	12.8	12.8	3.5	1250	-
0.65	0.2	69	17.3	1.4	43	IE5	**BS02-../S5E04SA4-1**	3.4	11.5	23	69	83	17.3	17.3	17.3	17.3	17.3	3.5	1250	-
0.65	0.2	55	20	1.1	54	IE5	**BS02-../S5E04SA4-1**	2.7	9.2	18.5	55	66	20	20	20	20	20	3.5	1250	-
0.65	0.2	42.5	23	0.86	70	IE5	**BS02-../S5E04SA4-1**	2.1	7.1	14	42.5	51	23	23	23	23	23	3.5	1250	-
0.65	0.2	123	11.9	2.8	24.25	IE5	**BS04-../S5E04SA4-1**	6.1	20.5	41	123	148	11.9	11.9	11.9	11.9	11.9	3.9	2250	-
0.65	0.2	95	14.3	2.7	31.5	IE5	**BS04-../S5E04SA4-1**	4.7	15.5	31.5	95	114	14.3	14.3	14.3	14.3	14.3	3.9	2250	-
0.65	0.2	78	17.2	2.1	38.42	IE5	**BS04-../S5E04SA4-1**	3.9	13	26	78	93	17.2	17.2	17.2	17.2	17.2	3.9	2250	-
0.65	0.2	62	21	1.8	47.86	IE5	**BS04-../S5E04SA4-1**	3.1	10	20.5	62	75	21	21	21	21	21	3.9	2250	-
0.65	0.2	48.5	26.5	1.4	61.5	IE5	**BS04-../S5E04SA4-1**	2.4	8.1	16	48.5	58	26.5	26.5	26.5	26.5	26.5	3.9	2250	-
0.65	0.2	46.5	26	1.4	64.06	IE5	**BS04-../S5E04SA4-1**	2.3	7.8	15.5	46.5	56	26	26	26	26	26	3.9	2250	-
0.65	0.2	42	30.5	1.2	71.18	IE5	**BS04-../S5E04SA4-1**	2.1	7	14	42	50	30.5	30.5	30.5	30.5	30.5	3.9	2250	-
0.65	0.2	38.5	30.5	1.2	77	IE5	**BS04-../S5E04SA4-1**	1.9	6.4	12.5	38.5	46.5	30.5	30.5	30.5	30.5	30.5	3.9	2250	-
0.65	0.2	33	38	1	90	IE5	**BS04-../S5E04SA4-1**	1.6	5.5	11	33	40	38	38	38	38	38	3.9	2250	-
0.65	0.2	31.5	36	1.1	93.92	IE5	**BS04-../S5E04SA4-1**	1.5	5.3	10.5	31.5	38	36	36	36	36	36	3.9	2250	-
0.65	0.2	29	42.5	0.89	102.9	IE5	**BS04-../S5E04SA4-1**	1.4	4.8	9.7	29	34.5	42.5	42.5	42.5	42.5	42.5	3.9	2250	-
0.65	0.2	25.5	43	0.88	117	IE5	**BS04-../S5E04SA4-1**	1.2	4.2	8.5	25.5	30.5	43	43	43	43	43	3.9	2250	-
0.65	0.2	24	50	0.81	123	IE5	**BS04-../S5E04SA4-1**	1.2	4	8.1	24	29	50	50	50	50	50	3.9	2250	-
0.65	0.2	46.5	28	2.8	64.06	IE5	**BS06-../S5E04SA4-1**	2.3	7.8	15.5	46.5	56	28	28	28	28	28	8.4	3500	-
0.65	0.2	42	32.5	2.9	71.18	IE5	**BS06-../S5E04SA4-1**	2.1	7	14	42	50	32.5	32.5	32.5	32.5	32.5	8.4	3500	-
0.65	0.2	38.5	33.5	2.5	77	IE5	**BS06-../S5E04SA4-1**	1.9	6.4	12.5	38.5	46.5	33.5	33.5	33.5	33.5	33.5	8.4	3500	-
0.65	0.2	33	40.5	2.4	90	IE5	**BS06-../S5E04SA4-1**	1.6	5.5	11	33	40	40.5	40.5	40.5	40.5	40.5	8.4	3500	-
0.65	0.2	29	46	2.2	103.1	IE5	**BS06-../S5E04SA4-1**	1.4	4.8	9.6	29	34.5	46	46	46	46	46	8.4	3500	-
0.65	0.2	25	50	1.9	118.8	IE5	**BS06-../S5E04SA4-1**	1.2	4.2	8.4	25	30	50	50	50	50	50	8.4	3500	-
0.65	0.2	23	56	1.9	129	IE5	**BS06-../S5E04SA4-1**	1.1	3.8	7.7	23	27.5	56	56	56	56	56	8.4	3500	-
0.65	0.2	21	59	1.7	142.2	IE5	**BS06-../S5E04SA4-1**	1	3.5	7	21	25	59	59	59	59	59	8.4	3500	-
0.65	0.2	20	62	1.7	146.8	IE5	**BS06-../S5E04SA4-1**	1	3.4	6.8	20	24.5	62	62	62	62	62	8.4	3500	-
0.65	0.2	17.5	71	1.2	171	IE5	**BS06-../S5E04SA4-1**	0.85	2.9	5.8	17.5	21	71	71	71	71	71	8.4	3500	-
0.65	0.2	17	67	1.4	174	IE5	**BS06-../S5E04SA4-1**	0.85	2.8	5.7	17	20.5	67	67	67	67	67	8.4	3500	-
0.65	0.2	13.5	84	1.2	220	IE5	**BS06-../S5E04SA4-1**	0.65	2.2	4.5	13.5	16	84	84	84	84	84	8.4	3500	-
0.65	0.2	11.5	95	1	252	IE5	**BS06-../S5E04SA4-1**	0.55	1.9	3.9	11.5	14	95	95	95	95	95	8.4	3500	-
0.65	0.2	9.5	116	0.91	315.3	IE5	**BS06-../S5E04SA4-1**	0.47	1.5	3.1	9.5	11	116	116	116	116	116	8.4	3500	-
0.65	0.2	8.3	130	0.84	358.9	IE5	**BS06-../S5E04SA4-1**	0.41	1.3	2.7	8.3	10	130	130	130	130	130	8.4	3500	-
0.65	0.2	15	83	1.8	200	IE5	**BS10Z-../S5E04SA4-1**	0.75	2.5	5	15	18	83	83	83	83	83	21	6000	-
0.65	0.2	11.5	105	1.7	254	IE5	**BS10Z-../S5E04SA4-1**	0.55	1.9	3.9	11.5	14	105	105	105	105	105	21	6000	-
0.65	0.2	9.9	121	1.6	302.5	IE5	**BS10Z-../S5E04SA4-1**	0.49	1.6	3.3	9.9	11.5	121	121	121	121	121	21	6000	-
0.65	0.2	8.3	145	1.3	360.3	IE5	**BS10Z-../S5E04SA4-1**	0.41	1.3	2.7	8.3	9.9	145	145	145	145	145	21	6000	-
0.65	0.2	6.9	171	1.1	432.4	IE5	**BS10Z-../S5E04SA4-1**	0.34	1.1	2.3	6.9	8.3	171	171	171	171	171	21	6000	-
0.65	0.2	5.5	205	0.91	544.8	IE5	**BS10Z-../S5E04SA4-1**	0.27	0.9	1.8	5.5	6.6	205	205	205	205	205	21	6000	-
0.65	0.2	4.6	230	0.82	638.7	IE5	**BS10Z-../S5E04SA4-1**	0.23	0.75	1.5	4.6	5.6	230	230	230	230	230	21	6000	-
0.65	0.2	11.5	107	2.8	257.8	IE5	**BS20Z-../S5E04SA4-1**	0.55	1.9	3.8	11.5	13.5	107	107	107	107	107	32	8000	-
0.65	0.2	9.9	122	2.4	300.1	IE5	**BS20Z-../S5E04SA4-1**	0.49	1.6	3.3	9.9	11.5	122	122	122	122	122	32	8000	-
0.65	0.2	8.3	145	2.2	359.9	IE5	**BS20Z-../S5E04SA4-1**	0.41	1.3	2.7	8.3	10	145	145	145	145	145	32	8000	-
0.65	0.2	6.9	170	1.9	430.8	IE5	**BS20Z-../S5E04SA4-1**	0.34	1.1	2.3	6.9	8.3	170	170	170	170	170	32	8000	-
0.65	0.2	5.5	192	1.9	539.7	IE5	**BS20Z-../S5E04SA4-1**	0.27	0.9	1.8	5.5	6.6	192	192	192	192	192	32	8000	-
0.65	0.2	4.8	215	1.5	619.2	IE5	**BS20Z-../S5E04SA4-1**	0.24	0.8	1.6	4.8	5.8	215	215	215	215	215	32	8000	-
0.65	0.2	3.9	265	1.2	763.4	IE5	**BS20Z-../S5E04SA4-1**	0.19	0.65	1.3	3.9	4.7	265	265	265	265	265	32	8000	-
0.65	0.2	2.9	455	1.1	1022	IE5	**BS30G06-../S5E04SA4-1**	0.14	0.48	0.95	2.9	3.5	455	455	455	455	455	53	10000	-
0.65	0.2	2.5	520	0.93	1176	IE5	**BS30G06-../S5E04SA4-1**	0.12	0.42	0.85	2.5	3	520	520	520	520	520	53	10000	-

MN = 0.8 Nm (PN = 0.25 kW)



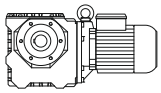
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
0.8	0.25	220	8.4	3	13.5	IE5	**BS02-../S5E04SA4-1**	11	37	74	220	265	8	8.4	8.4	8.4	8.4	3.5	1250	-
0.8	0.25	166	10.6	2.3	18	IE5	**BS02-../S5E04SA4-1**	8.3	27.5	55	166	200	10.1	10.6	10.6	10.6	10.6	3.5	1250	-
0.8	0.25	136	12.3	2	22	IE5	**BS02-../S5E04SA4-1**	6.8	22.5	45	136	163	11.7	12.3	12.3	12.3	12.3	3.5	1250	-
0.8	0.25	111	13.6	1.8	27	IE5	**BS02-../S5E04SA4-1**	5.5	18.5	37	111	133	12.9	13.6	13.6	13.6	13.6	3.5	1250	-
0.8	0.25	90	15.8	1.6	33	IE5	**BS02-../S5E04SA4-1**	4.5	15	30	90	109	15	15.8	15.8	15.8	15.8	3.5	1250	-
0.8	0.25	69	21	1.1	43	IE5	**BS02-../S5E04SA4-1**	3.4	11.5	23	69	83	20	21	21	21	21	3.5	1250	-
0.8	0.25	55	24.5	0.89	54	IE5	**BS02-../S5E04SA4-1**	2.7	9.2	18.5	55	66	23	24.5	24.5	24.5	24.5	3.5	1250	-
0.8	0.25	143	12.7	2.9	20.96	IE5	**BS04-../S5E04SA4-1**	7.1	23.5	47.5	143	171	12.1	12.7	12.7	12.7	12.7	3.9	2100	-
0.8	0.25	123	14.7	2.3	24.25	IE5	**BS04-../S5E04SA4-1**	6.1	20.5	41	123	148	14	14.7	14.7	14.7	14.7	3.9	2250	-
0.8	0.25	114	14.8	2.6	26.21	IE5	**BS04-../S5E04SA4-1**	5.7	19	38	114	137	14.1	14.8	14.8	14.8	14.8	3.9	2250	-
0.8	0.25	95	17.6	2.2	31.5	IE5	**BS04-../S5E04SA4-1**	4.7	15.5	31.5	95	114	16.7	17.6	17.6	17.6	17.6	3.9	2250	-
0.8	0.25	78	21	1.7	38.42	IE5	**BS04-../S5E04SA4-1**	3.9	13	26	78	93	20	21	21	21	21	3.9	2250	-
0.8	0.25	62	26	1.5	47.86	IE5	**BS04-../S5E04SA4-1**	3.1	10	20.5	62	75	24.5	26	26	26	26	3.9	2250	-
0.8	0.25	48.5	32.5	1.2	61.5	IE5	**BS04-../S5E04SA4-1**	2.4	8.1	16	48.5	58	31	32.5	32.5	32.5	32.5	3.9	2250	-
0.8	0.25	46.5	32	1.1	64.06	IE5	**BS04-../S5E04SA4-1**	2.3	7.8	15.5	46.5	56	30.5	32	32	32	32	3.9	2250	-

MN = 0.8 Nm (PN = 0.25 kW)



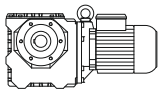
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
0.8	0.25	42	37.5	1	71.18	IE5	**BS04-../S5E04SA4-1**	2.1	7	14	42	50	35.5	37.5	37.5	37.5	37.5	3.9	2250	-
0.8	0.25	38.5	37.5	1	77	IE5	**BS04-../S5E04SA4-1**	1.9	6.4	12.5	38.5	46.5	35.5	37.5	37.5	37.5	37.5	3.9	2250	-
0.8	0.25	33	46.5	0.81	90	IE5	**BS04-../S5E04SA4-1**	1.6	5.5	11	33	40	44	46.5	46.5	46.5	46.5	3.9	2250	-
0.8	0.25	31.5	44	0.86	93.92	IE5	**BS04-../S5E04SA4-1**	1.5	5.3	10.5	31.5	38	42	44	44	44	44	3.9	2250	-
0.8	0.25	51	33	2.8	58.15	IE5	**BS06-../S5E04SA4-1**	2.5	8.5	17	51	61	31	33	33	33	33	8.4	3500	-
0.8	0.25	46.5	34.5	2.3	64.06	IE5	**BS06-../S5E04SA4-1**	2.3	7.8	15.5	46.5	56	33	34.5	34.5	34.5	34.5	8.4	3500	-
0.8	0.25	42	40	2.3	71.18	IE5	**BS06-../S5E04SA4-1**	2.1	7	14	42	50	38	40	40	40	40	8.4	3500	-
0.8	0.25	38.5	41	2.1	77	IE5	**BS06-../S5E04SA4-1**	1.9	6.4	12.5	38.5	46.5	39	41	41	41	41	8.4	3500	-
0.8	0.25	33	50	1.9	90	IE5	**BS06-../S5E04SA4-1**	1.6	5.5	11	33	40	47.5	50	50	50	50	8.4	3500	-
0.8	0.25	29	56	1.8	103.1	IE5	**BS06-../S5E04SA4-1**	1.4	4.8	9.6	29	34.5	54	56	56	56	56	8.4	3500	-
0.8	0.25	25	61	1.5	118.8	IE5	**BS06-../S5E04SA4-1**	1.2	4.2	8.4	25	30	58	61	61	61	61	8.4	3500	-
0.8	0.25	23	69	1.5	129	IE5	**BS06-../S5E04SA4-1**	1.1	3.8	7.7	23	27.5	65	69	69	69	69	8.4	3500	-
0.8	0.25	21	72	1.3	142.2	IE5	**BS06-../S5E04SA4-1**	1	3.5	7	21	25	69	72	72	72	72	8.4	3500	-
0.8	0.25	20	76	1.4	146.8	IE5	**BS06-../S5E04SA4-1**	1	3.4	6.8	20	24.5	72	76	76	76	76	8.4	3500	-
0.8	0.25	17.5	87	1	171	IE5	**BS06-../S5E04SA4-1**	0.85	2.9	5.8	17.5	21	83	87	87	87	87	8.4	3500	-
0.8	0.25	17	83	1.2	174	IE5	**BS06-../S5E04SA4-1**	0.85	2.8	5.7	17	20.5	79	83	83	83	83	8.4	3500	-
0.8	0.25	13.5	103	0.94	220	IE5	**BS06-../S5E04SA4-1**	0.65	2.2	4.5	13.5	16	98	103	103	103	103	8.4	3500	-
0.8	0.25	11.5	116	0.85	252	IE5	**BS06-../S5E04SA4-1**	0.55	1.9	3.9	11.5	14	111	116	116	116	116	8.4	3500	-
0.8	0.25	15	102	1.4	200	IE5	**BS10Z-../S5E04SA4-1**	0.75	2.5	5	15	18	97	102	102	102	102	21	6000	-
0.8	0.25	11.5	130	1.4	254	IE5	**BS10Z-../S5E04SA4-1**	0.55	1.9	3.9	11.5	14	123	130	130	130	130	21	6000	-
0.8	0.25	9.9	150	1.3	302.5	IE5	**BS10Z-../S5E04SA4-1**	0.49	1.6	3.3	9.9	11.5	142	150	150	150	150	21	6000	-
0.8	0.25	8.3	178	1.1	360.3	IE5	**BS10Z-../S5E04SA4-1**	0.41	1.3	2.7	8.3	9.9	169	178	178	178	178	21	6000	-
0.8	0.25	6.9	210	0.9	432.4	IE5	**BS10Z-../S5E04SA4-1**	0.34	1.1	2.3	6.9	8.3	200	210	210	210	210	21	6000	-
0.8	0.25	14.5	103	2.7	201.4	IE5	**BS20Z-../S5E04SA4-1**	0.7	2.4	4.9	14.5	17.5	97	103	103	103	103	32	8000	-
0.8	0.25	11.5	131	2.2	257.8	IE5	**BS20Z-../S5E04SA4-1**	0.55	1.9	3.8	11.5	13.5	125	131	131	131	131	32	8000	-
0.8	0.25	9.9	151	2	300.1	IE5	**BS20Z-../S5E04SA4-1**	0.49	1.6	3.3	9.9	11.5	143	151	151	151	151	32	8000	-
0.8	0.25	8.3	178	1.8	359.9	IE5	**BS20Z-../S5E04SA4-1**	0.41	1.3	2.7	8.3	10	169	178	178	178	178	32	8000	-
0.8	0.25	6.9	210	1.6	430.8	IE5	**BS20Z-../S5E04SA4-1**	0.34	1.1	2.3	6.9	8.3	199	210	210	210	210	32	8000	-
0.8	0.25	5.5	235	1.5	539.7	IE5	**BS20Z-../S5E04SA4-1**	0.27	0.9	1.8	5.5	6.6	225	235	235	235	235	32	8000	-
0.8	0.25	4.8	265	1.2	619.2	IE5	**BS20Z-../S5E04SA4-1**	0.24	0.8	1.6	4.8	5.8	250	265	265	265	265	32	8000	-
0.8	0.25	3.9	325	0.94	763.4	IE5	**BS20Z-../S5E04SA4-1**	0.19	0.65	1.3	3.9	4.7	310	325	325	325	325	32	8000	-
0.8	0.25	2.9	560	0.87	1022	IE5	**BS30G06-../S5E04SA4-1**	0.14	0.48	0.95	2.9	3.5	530	560	560	560	560	53	10000	-

MN = 1 Nm (PN = 0.315 kW)



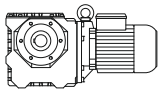
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
1	0.315	280	8.7	2.9	10.67	IE4	**BS02-../S4E04SA4-1**	14	46.5	93	280	335	6.6	7.4	8.7	8.7	8.7	3.5	1250	-
1	0.315	220	10.5	2.4	13.5	IE4	**BS02-../S4E04SA4-1**	11	37	74	220	265	8	8.9	10.5	10.5	10.5	3.5	1250	-
1	0.315	166	13.3	1.9	18	IE4	**BS02-../S4E04SA4-1**	8.3	27.5	55	166	200	10.1	11.3	13.3	13.3	13.3	3.5	1250	-
1	0.315	136	15.3	1.6	22	IE4	**BS02-../S4E04SA4-1**	6.8	22.5	45	136	163	11.7	13	15.3	15.3	15.3	3.5	1250	-
1	0.315	111	17	1.5	27	IE4	**BS02-../S4E04SA4-1**	5.5	18.5	37	111	133	12.9	14.4	17	17	17	3.5	1250	-
1	0.315	90	19.8	1.3	33	IE4	**BS02-../S4E04SA4-1**	4.5	15	30	90	109	15	16.8	19.8	19.8	19.8	3.5	1250	-
1	0.315	69	26.5	0.9	43	IE4	**BS02-../S4E04SA4-1**	3.4	11.5	23	69	83	20	22.5	26.5	26.5	26.5	3.5	1250	-
1	0.315	183	12.5	2.8	16.31	IE4	**BS04-../S4E04SA4-1**	9.1	30.5	61	183	220	9.5	10.6	12.5	12.5	12.5	3.9	1970	-
1	0.315	166	12.7	2.7	18	IE4	**BS04-../S4E04SA4-1**	8.3	27.5	55	166	200	9.7	10.8	12.7	12.7	12.7	3.9	1950	-
1	0.315	143	15.9	2.3	20.96	IE4	**BS04-../S4E04SA4-1**	7.1	23.5	47.5	143	171	12.1	13.5	15.9	15.9	15.9	3.9	2100	-
1	0.315	123	18.4	1.8	24.25	IE4	**BS04-../S4E04SA4-1**	6.1	20.5	41	123	148	14	15.6	18.4	18.4	18.4	3.9	2250	-
1	0.315	114	18.6	2	26.21	IE4	**BS04-../S4E04SA4-1**	5.7	19	38	114	137	14.1	15.8	18.6	18.6	18.6	3.9	2250	-
1	0.315	95	22	1.7	31.5	IE4	**BS04-../S4E04SA4-1**	4.7	15.5	31.5	95	114	16.7	18.7	22	22	22	3.9	2250	-
1	0.315	78	26.5	1.4	38.42	IE4	**BS04-../S4E04SA4-1**	3.9	13	26	78	93	20	22.5	26.5	26.5	26.5	3.9	2250	-
1	0.315	62	32.5	1.2	47.86	IE4	**BS04-../S4E04SA4-1**	3.1	10	20.5	62	75	24.5	27.5	32.5	32.5	32.5	3.9	2250	-
1	0.315	48.5	41	0.92	61.5	IE4	**BS04-../S4E04SA4-1**	2.4	8.1	16	48.5	58	31	35	41	41	41	3.9	2250	-
1	0.315	46.5	40	0.89	64.06	IE4	**BS04-../S4E04SA4-1**	2.3	7.8	15.5	46.5	56	30.5	34	40	40	40	3.9	2250	-
1	0.315	42	46.5	0.81	71.18	IE4	**BS04-../S4E04SA4-1**	2.1	7	14	42	50	35.5	39.5	46.5	46.5	46.5	3.9	2250	-
1	0.315	38.5	46.5	0.81	77	IE4	**BS04-../S4E04SA4-1**	1.9	6.4	12.5	38.5	46.5	35.5	39.5	46.5	46.5	46.5	3.9	2250	-
1	0.315	72	29.5	2.9	41.29	IE4	**BS06-../S4E04SA4-1**	3.6	12	24	72	87	22.5	25	29.5	29.5	29.5	8.4	3500	-
1	0.315	61	34.5	2.5	48.6	IE4	**BS06-../S4E04SA4-1**	3	10	20.5	61	74	26.5	29.5	34.5	34.5	34.5	8.4	3500	-
1	0.315	51	41	2.2	58.15	IE4	**BS06-../S4E04SA4-1**	2.5	8.5	17	51	61	31	35	41	41	41	8.4	3500	-
1	0.315	46.5	43.5	1.8	64.06	IE4	**BS06-../S4E04SA4-1**	2.3	7.8	15.5	46.5	56	33	37	43.5	43.5	43.5	8.4	3500	-
1	0.315	42	50	1.9	71.18	IE4	**BS06-../S4E04SA4-1**	2.1	7	14	42	50	38	42.5	50	50	50	8.4	3500	-
1	0.315	38.5	51	1.6	77	IE4	**BS06-../S4E04SA4-1**	1.9	6.4	12.5	38.5	46.5	39	43.5	51	51	51	8.4	3500	-
1	0.315	33	62	1.6	90	IE4	**BS06-../S4E04SA4-1**	1.6	5.5	11	33	40	47.5	53	62	62	62	8.4	3500	-
1	0.315	29	71	1.4	103.1	IE4	**BS06-../S4E04SA4-1**	1.4	4.8	9.6	29	34.5	54	60	71	71	71	8.4	3500	-
1	0.315	25	77	1.2	118.8	IE4	**BS06-../S4E04SA4-1**	1.2	4.2	8.4	25	30	58	65	77	77	77	8.4	3500	-
1	0.315	23	86	1.2	129	IE4	**BS06-../S4E04SA4-1**	1.1	3.8	7.7	23	27.5	65	73	86	86	86	8.4	3500	-
1	0.315	21	91	1.1	142.2	IE4	**BS06-../S4E04SA4-1**	1	3.5	7	21	25	69	77	91	91	91	8.4	3500	-
1	0.315	20	95	1.1	146.8	IE4	**BS06-../S4E04SA4-1**	1	3.4	6.8	20	24.5	72	81	95	95	95	8.4	3500	-
1	0.315	17.5	109	0.8	171	IE4	**BS06-../S4E04SA4-1**	0.85	2.9	5.8	17.5	21	83	93	109	109	109	8.4	3500	-
1	0.315	17	104	0.94	174	IE4	**BS06-../S4E04SA4-1**	0.85	2.8	5.7	17	20.5	79	88	104	104	104	8.4	3500	-

MN = 1 Nm (PN = 0.315 kW)



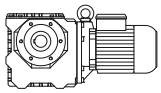
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
1	0.315	15	128	1.2	200	IE4	**BS10Z-../S4E04SA4-1**	0.75	2.5	5	15	18	97	108	128	128	128	21	6000	-
1	0.315	11.5	162	1.1	254	IE4	**BS10Z-../S4E04SA4-1**	0.55	1.9	3.9	11.5	14	123	138	162	162	162	21	6000	-
1	0.315	9.9	187	1	302.5	IE4	**BS10Z-../S4E04SA4-1**	0.49	1.6	3.3	9.9	11.5	142	159	187	187	187	21	6000	-
1	0.315	8.3	220	0.85	360.3	IE4	**BS10Z-../S4E04SA4-1**	0.41	1.3	2.7	8.3	9.9	169	189	220	220	220	21	6000	-
1	0.315	14.5	128	2.2	201.4	IE4	**BS20Z-../S4E04SA4-1**	0.7	2.4	4.9	14.5	17.5	97	109	128	128	128	32	8000	-
1	0.315	11.5	164	1.8	257.8	IE4	**BS20Z-../S4E04SA4-1**	0.55	1.9	3.8	11.5	13.5	125	140	164	164	164	32	8000	-
1	0.315	9.9	189	1.6	300.1	IE4	**BS20Z-../S4E04SA4-1**	0.49	1.6	3.3	9.9	11.5	143	160	189	189	189	32	8000	-
1	0.315	8.3	220	1.4	359.9	IE4	**BS20Z-../S4E04SA4-1**	0.41	1.3	2.7	8.3	10	169	189	220	220	220	32	8000	-
1	0.315	6.9	260	1.3	430.8	IE4	**BS20Z-../S4E04SA4-1**	0.34	1.1	2.3	6.9	8.3	199	220	260	260	260	32	8000	-
1	0.315	5.5	295	1.2	539.7	IE4	**BS20Z-../S4E04SA4-1**	0.27	0.9	1.8	5.5	6.6	225	250	295	295	295	32	8000	-
1	0.315	4.8	330	0.99	619.2	IE4	**BS20Z-../S4E04SA4-1**	0.24	0.8	1.6	4.8	5.8	250	280	330	330	330	32	8000	-

MN = 1.3 Nm (PN = 0.4 kW)



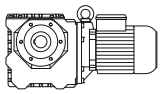
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
1.3	0.4	650	5.2	2.9	4.6	IE5	**BS02-../S5E06MA4**	32.5	108	215	650	780	5.2	5.2	5.2	5.2	5.2	6.8	1000	-
1.3	0.4	360	9	2.8	8.25	IE5	**BS02-../S5E06MA4**	18	60	121	360	435	9	9	9	9	9	6.8	1100	-
1.3	0.4	280	11.3	2.2	10.67	IE5	**BS02-../S5E06MA4**	14	46.5	93	280	335	11.3	11.3	11.3	11.3	11.3	6.8	1250	-
1.3	0.4	220	13.6	1.8	13.5	IE5	**BS02-../S5E06MA4**	11	37	74	220	265	13.6	13.6	13.6	13.6	13.6	6.8	1250	-
1.3	0.4	166	17.3	1.4	18	IE5	**BS02-../S5E06MA4**	8.3	27.5	55	166	200	17.3	17.3	17.3	17.3	17.3	6.8	1250	-
1.3	0.4	136	20	1.2	22	IE5	**BS02-../S5E06MA4**	6.8	22.5	45	136	163	20	20	20	20	20	6.8	1250	-
1.3	0.4	111	22	1.1	27	IE5	**BS02-../S5E06MA4**	5.5	18.5	37	111	133	22	22	22	22	22	6.8	1250	-
1.3	0.4	90	25.5	0.97	33	IE5	**BS02-../S5E06MA4**	4.5	15	30	90	109	25.5	25.5	25.5	25.5	25.5	6.8	1250	-
1.3	0.4	157	18.7	2.9	19	IE5	**BS03-../S5E06MA4**	7.8	26	52	157	189	18.7	18.7	18.7	18.7	18.7	6.9	1950	-
1.3	0.4	120	22	2.5	25	IE5	**BS03-../S5E06MA4**	6	20	40	120	144	22	22	22	22	22	6.9	1950	-
1.3	0.4	90	26	2.1	33	IE5	**BS03-../S5E06MA4**	4.5	15	30	90	109	26	26	26	26	26	6.9	1950	-
1.3	0.4	76	32	1.7	39	IE5	**BS03-../S5E06MA4**	3.8	12.5	25.5	76	92	32	32	32	32	32	6.9	1950	-
1.3	0.4	60	37.5	1.5	50	IE5	**BS03-../S5E06MA4**	3	10	20	60	72	37.5	37.5	37.5	37.5	37.5	6.9	1950	-
1.3	0.4	48	42.5	1.1	62	IE5	**BS03-../S5E06MA4**	2.4	8	16	48	58	42.5	42.5	42.5	42.5	42.5	6.9	1950	-
1.3	0.4	40	49.5	0.8	75	IE5	**BS03-../S5E06MA4**	2	6.6	13	40	48	49.5	49.5	49.5	49.5	49.5	6.9	1950	-
1.3	0.4	275	10.8	2.9	10.73	IE5	**BS04-../S5E06MA4**	13.5	46.5	93	275	335	10.8	10.8	10.8	10.8	10.8	7.3	1600	-
1.3	0.4	225	13.1	2.5	13.09	IE5	**BS04-../S5E06MA4**	11	38	76	225	275	13.1	13.1	13.1	13.1	13.1	7.3	1760	-
1.3	0.4	183	16.3	2.1	16.31	IE5	**BS04-../S5E06MA4**	9.1	30.5	61	183	220	16.3	16.3	16.3	16.3	16.3	7.3	1970	-
1.3	0.4	166	16.6	2	18	IE5	**BS04-../S5E06MA4**	8.3	27.5	55	166	200	16.6	16.6	16.6	16.6	16.6	7.3	1950	-
1.3	0.4	143	20.5	1.8	20.96	IE5	**BS04-../S5E06MA4**	7.1	23.5	47.5	143	171	20.5	20.5	20.5	20.5	20.5	7.3	2100	-
1.3	0.4	123	23.5	1.4	24.25	IE5	**BS04-../S5E06MA4**	6.1	20.5	41	123	148	23.5	23.5	23.5	23.5	23.5	7.3	2250	-
1.3	0.4	114	24	1.6	26.21	IE5	**BS04-../S5E06MA4**	5.7	19	38	114	137	24	24	24	24	24	7.3	2250	-
1.3	0.4	95	28.5	1.3	31.5	IE5	**BS04-../S5E06MA4**	4.7	15.5	31.5	95	114	28.5	28.5	28.5	28.5	28.5	7.3	2250	-
1.3	0.4	78	34	1.1	38.42	IE5	**BS04-../S5E06MA4**	3.9	13	26	78	93	34	34	34	34	34	7.3	2250	-
1.3	0.4	62	42	0.9	47.86	IE5	**BS04-../S5E06MA4**	3.1	10	20.5	62	75	42	42	42	42	42	7.3	2250	-
1.3	0.4	95	29.5	2.7	31.5	IE5	**BS06-../S5E06MA4**	4.7	15.5	31.5	95	114	29.5	29.5	29.5	29.5	29.5	12	3200	-
1.3	0.4	72	38.5	2.2	41.29	IE5	**BS06-../S5E06MA4**	3.6	12	24	72	87	38.5	38.5	38.5	38.5	38.5	12	3500	-
1.3	0.4	61	45	1.9	48.6	IE5	**BS06-../S5E06MA4**	3	10	20.5	61	74	45	45	45	45	45	12	3500	-
1.3	0.4	51	53	1.7	58.15	IE5	**BS06-../S5E06MA4**	2.5	8.5	17	51	61	53	53	53	53	53	12	3500	-
1.3	0.4	46.5	56	1.4	64.06	IE5	**BS06-../S5E06MA4**	2.3	7.8	15.5	46.5	56	56	56	56	56	56	12	3500	-
1.3	0.4	42	65	1.4	71.18	IE5	**BS06-../S5E06MA4**	2.1	7	14	42	50	65	65	65	65	65	12	3500	-
1.3	0.4	38.5	67	1.3	77	IE5	**BS06-../S5E06MA4**	1.9	6.4	12.5	38.5	46.5	67	67	67	67	67	12	3500	-
1.3	0.4	33	81	1.2	90	IE5	**BS06-../S5E06MA4**	1.6	5.5	11	33	40	81	81	81	81	81	12	3500	-
1.3	0.4	29	92	1.1	103.1	IE5	**BS06-../S5E06MA4**	1.4	4.8	9.6	29	34.5	92	92	92	92	92	12	3500	-
1.3	0.4	25	100	0.94	118.8	IE5	**BS06-../S5E06MA4**	1.2	4.2	8.4	25	30	100	100	100	100	100	12	3500	-
1.3	0.4	23	112	0.93	129	IE5	**BS06-../S5E06MA4**	1.1	3.8	7.7	23	27.5	112	112	112	112	112	12	3500	-
1.3	0.4	21	118	0.83	142.2	IE5	**BS06-../S5E06MA4**	1	3.5	7	21	25	118	118	118	118	118	12	3500	-
1.3	0.4	20	124	0.85	146.8	IE5	**BS06-../S5E06MA4**	1	3.4	6.8	20	24.5	124	124	124	124	124	12	3500	-
1.3	0.4	52	54	2.7	57.12	IE5	**BS10-../S5E06MA4**	2.6	8.7	17.5	52	63	54	54	54	54	54	23	4350	-
1.3	0.4	49	52	2.8	60.74	IE5	**BS10-../S5E06MA4**	2.4	8.2	16	49	59	52	52	52	52	52	23	4550	-
1.3	0.4	41.5	69	2.3	71.96	IE5	**BS10-../S5E06MA4**	2	6.9	13.5	41.5	50	69	69	69	69	69	23	5000	-
1.3	0.4	35.5	81	1.8	84.36	IE5	**BS10-../S5E06MA4**	1.7	5.9	11.5	35.5	42.5	81	81	81	81	81	23	5300	-
1.3	0.4	29	86	1.9	103.4	IE5	**BS10-../S5E06MA4**	1.4	4.8	9.6	29	34.5	86	86	86	86	86	23	5600	-
1.3	0.4	25	115	1.1	119.6	IE5	**BS10-../S5E06MA4**	1.2	4.1	8.3	25	30	115	115	115	115	115	23	6000	-
1.3	0.4	23	108	1.5	130.3	IE5	**BS10-../S5E06MA4**	1.1	3.8	7.6	23	27.5	108	108	108	108	108	23	6000	-
1.3	0.4	19.5	127	1.3	152.7	IE5	**BS10-../S5E06MA4**	0.95	3.2	6.5	19.5	23.5	127	127	127	127	127	23	6000	-
1.3	0.4	15.5	156	1.1	188.6	IE5	**BS10-../S5E06MA4**	0.75	2.6	5.3	15.5	19	156	156	156	156	156	23	6000	-
1.3	0.4	13.5	180	1	216.6	IE5	**BS10-../S5E06MA4**	0.65	2.3	4.6	13.5	16.5	180	180	180	180	180	23	6000	-
1.3	0.4	15	166	0.89	200	IE5	**BS10Z-../S5E06MA4**	0.75	2.5	5	15	18	166	166	166	166	166	24	6000	-
1.3	0.4	11.5	210	0.85	254	IE5	**BS10Z-../S5E06MA4**	0.55	1.9	3.9	11.5	14	210	210	210	210	210	24	6000	-
1.3	0.4	29.5	97	2.6	101.1	IE5	**BS20-../S5E06MA4**	1.4	4.9	9.8	29.5	35.5	97	97	97	97	97	34	7100	-
1.3	0.4	28	91	3	106.3	IE5	**BS20-../S5E06MA4**	1.4	4.7	9.4	28	33.5	91	91	91	91	91	34	7600	-
1.3	0.4	23.5	109	2.5	127.3	IE5	**BS20-../S5E06MA4**	1.1	3.9	7.8	23.5	28	109	109	109	109	109	34	8000	-
1.3	0.4	18.5	136	2	159.4	IE5	**BS20-../S5E06MA4**	0.9	3.1	6.2	18.5	22.5	136	136	136	136	136	34	8000	-
1.3	0.4	16	157	1.8	183	IE5	**BS20-../S5E06MA4**	0.8	2.7	5.4	16	19.5	157	157	157	157	157	34	8000	-

MN = 1.3 Nm (PN = 0.4 kW)



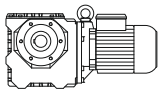
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
1.3	0.4	13	187	1.5	225.6	IE5	**BS20-../S5E06MA4**	0.65	2.2	4.4	13	15.5	187	187	187	187	187	34	8000	-
1.3	0.4	14.5	167	1.7	201.4	IE5	**BS20Z-../S5E06MA4**	0.7	2.4	4.9	14.5	17.5	167	167	167	167	167	35	8000	-
1.3	0.4	11.5	210	1.4	257.8	IE5	**BS20Z-../S5E06MA4**	0.55	1.9	3.8	11.5	13.5	210	210	210	210	210	35	8000	-
1.3	0.4	9.9	245	1.2	300.1	IE5	**BS20Z-../S5E06MA4**	0.49	1.6	3.3	9.9	11.5	245	245	245	245	245	35	8000	-
1.3	0.4	8.3	290	1.1	359.9	IE5	**BS20Z-../S5E06MA4**	0.41	1.3	2.7	8.3	10	290	290	290	290	290	35	8000	-
1.3	0.4	6.9	340	0.97	430.8	IE5	**BS20Z-../S5E06MA4**	0.34	1.1	2.3	6.9	8.3	340	340	340	340	340	35	8000	-
1.3	0.4	5.5	385	0.95	539.7	IE5	**BS20Z-../S5E06MA4**	0.27	0.9	1.8	5.5	6.6	385	385	385	385	385	35	8000	-
1.3	0.4	13.5	185	2.8	216.4	IE5	**BS30-../S5E06MA4**	0.65	2.3	4.6	13.5	16.5	185	185	185	185	185	51	10000	-
1.3	0.4	14	181	2.5	211.1	IE5	**BS30Z-../S5E06MA4**	0.7	2.3	4.7	14	17	181	181	181	181	181	54	10000	-
1.3	0.4	11	220	2.5	261.6	IE5	**BS30Z-../S5E06MA4**	0.55	1.9	3.8	11	13.5	220	220	220	220	220	54	10000	-
1.3	0.4	9.7	255	2.2	306.6	IE5	**BS30Z-../S5E06MA4**	0.48	1.6	3.2	9.7	11.5	255	255	255	255	255	54	10000	-
1.3	0.4	8.3	345	1.1	359.6	IE5	**BS30Z-../S5E06MA4**	0.41	1.3	2.7	8.3	10	345	345	345	345	345	54	10000	-
1.3	0.4	7.6	325	1.8	390.2	IE5	**BS30Z-../S5E06MA4**	0.38	1.2	2.5	7.6	9.2	325	325	325	325	325	54	10000	-
1.3	0.4	6.5	380	1.6	457.3	IE5	**BS30Z-../S5E06MA4**	0.32	1	2.1	6.5	7.8	380	380	380	380	380	54	10000	-
1.3	0.4	5.5	445	1.3	539.3	IE5	**BS30Z-../S5E06MA4**	0.27	0.9	1.8	5.5	6.6	445	445	445	445	445	54	10000	-
1.3	0.4	4.6	500	1.1	651	IE5	**BS30Z-../S5E06MA4**	0.23	0.75	1.5	4.6	5.5	500	500	500	500	500	54	10000	-
1.3	0.4	10	275	2.6	287.7	IE5	**BS40Z-../S5E06MA4**	0.5	1.7	3.4	10	12.5	275	275	275	275	275	68	15000	-
1.3	0.4	6.7	365	2.7	446.8	IE5	**BS40Z-../S5E06MA4**	0.33	1.1	2.2	6.7	8	365	365	365	365	365	68	15000	-
1.3	0.4	5.7	425	2.6	520.8	IE5	**BS40Z-../S5E06MA4**	0.28	0.95	1.9	5.7	6.9	425	425	425	425	425	68	15000	-
1.3	0.4	4.9	485	1.9	612.1	IE5	**BS40Z-../S5E06MA4**	0.24	0.8	1.6	4.9	5.8	485	485	485	485	485	68	15000	-
1.3	0.4	4	570	1.3	736.5	IE5	**BS40Z-../S5E06MA4**	0.2	0.65	1.3	4	4.8	570	570	570	570	570	68	15000	-
1.3	0.4	3.3	690	1.1	908.2	IE5	**BS40Z-../S5E06MA4**	0.16	0.55	1.1	3.3	3.9	690	690	690	690	690	68	15000	-
1.3	0.4	3.1	870	1	965.5	IE5	**BS40G10-../S5E06MA4**	0.15	0.5	1	3.1	3.7	870	870	870	870	870	73	15000	-
1.3	0.4	2.5	1070	0.82	1180	IE5	**BS40G10-../S5E06MA4**	0.12	0.42	0.8	2.5	3	1070	1070	1070	1070	1070	73	15000	-

MN = 1.75 Nm (PN = 0.55 kW)



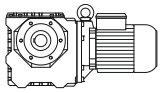
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
1.75	0.55	650	7	2.1	4.6	IE5	**BS02-../S5E06MA4**	32.5	108	215	650	780	7	7	7	7	7	6.8	1000	-
1.75	0.55	550	8.3	2.4	5.4	IE5	**BS02-../S5E06MA4**	27.5	92	185	550	660	8.3	8.3	8.3	8.3	8.3	6.8	1000	-
1.75	0.55	440	10.1	2.5	6.75	IE5	**BS02-../S5E06MA4**	22	74	148	440	530	10.1	10.1	10.1	10.1	10.1	6.8	1000	-
1.75	0.55	360	12.1	2.1	8.25	IE5	**BS02-../S5E06MA4**	18	60	121	360	435	12.1	12.1	12.1	12.1	12.1	6.8	1100	-
1.75	0.55	280	15.3	1.6	10.67	IE5	**BS02-../S5E06MA4**	14	46.5	93	280	335	15.3	15.3	15.3	15.3	15.3	6.8	1250	-
1.75	0.55	220	18.4	1.4	13.5	IE5	**BS02-../S5E06MA4**	11	37	74	220	265	18.4	18.4	18.4	18.4	18.4	6.8	1250	-
1.75	0.55	166	23	1.1	18	IE5	**BS02-../S5E06MA4**	8.3	27.5	55	166	200	23	23	23	23	23	6.8	1250	-
1.75	0.55	136	26.5	0.93	22	IE5	**BS02-../S5E06MA4**	6.8	22.5	45	136	163	26.5	26.5	26.5	26.5	26.5	6.8	1250	-
1.75	0.55	111	29.5	0.84	27	IE5	**BS02-../S5E06MA4**	5.5	18.5	37	111	133	29.5	29.5	29.5	29.5	29.5	6.8	1250	-
1.75	0.55	220	18.4	3	13.5	IE5	**BS03-../S5E06MA4**	11	37	74	220	265	18.4	18.4	18.4	18.4	18.4	6.9	1600	-
1.75	0.55	157	25	2.2	19	IE5	**BS03-../S5E06MA4**	7.8	26	52	157	189	25	25	25	25	25	6.9	1950	-
1.75	0.55	120	30	1.8	25	IE5	**BS03-../S5E06MA4**	6	20	40	120	144	30	30	30	30	30	6.9	1950	-
1.75	0.55	90	35	1.6	33	IE5	**BS03-../S5E06MA4**	4.5	15	30	90	109	35	35	35	35	35	6.9	1950	-
1.75	0.55	76	43.5	1.3	39	IE5	**BS03-../S5E06MA4**	3.8	12.5	25.5	76	92	43.5	43.5	43.5	43.5	43.5	6.9	1950	-
1.75	0.55	60	50	1.1	50	IE5	**BS03-../S5E06MA4**	3	10	20	60	72	50	50	50	50	50	6.9	1950	-
1.75	0.55	48	57	0.83	62	IE5	**BS03-../S5E06MA4**	2.4	8	16	48	58	57	57	57	57	57	6.9	1950	-
1.75	0.55	335	12.1	2.5	8.93	IE5	**BS04-../S5E06MA4**	16.5	55	111	335	400	12.1	12.1	12.1	12.1	12.1	7.3	1500	-
1.75	0.55	275	14.6	2.2	10.73	IE5	**BS04-../S5E06MA4**	13.5	46.5	93	275	335	14.6	14.6	14.6	14.6	14.6	7.3	1600	-
1.75	0.55	225	17.6	1.9	13.09	IE5	**BS04-../S5E06MA4**	11	38	76	225	275	17.6	17.6	17.6	17.6	17.6	7.3	1760	-
1.75	0.55	183	21.5	1.6	16.31	IE5	**BS04-../S5E06MA4**	9.1	30.5	61	183	220	21.5	21.5	21.5	21.5	21.5	7.3	1970	-
1.75	0.55	166	22	1.5	18	IE5	**BS04-../S5E06MA4**	8.3	27.5	55	166	200	22	22	22	22	22	7.3	1950	-
1.75	0.55	143	27.5	1.3	20.96	IE5	**BS04-../S5E06MA4**	7.1	23.5	47.5	143	171	27.5	27.5	27.5	27.5	27.5	7.3	2100	-
1.75	0.55	123	32	1.1	24.25	IE5	**BS04-../S5E06MA4**	6.1	20.5	41	123	148	32	32	32	32	32	7.3	2250	-
1.75	0.55	114	32.5	1.2	26.21	IE5	**BS04-../S5E06MA4**	5.7	19	38	114	137	32.5	32.5	32.5	32.5	32.5	7.3	2250	-
1.75	0.55	95	38.5	0.98	31.5	IE5	**BS04-../S5E06MA4**	4.7	15.5	31.5	95	114	38.5	38.5	38.5	38.5	38.5	7.3	2250	-
1.75	0.55	78	46	0.8	38.42	IE5	**BS04-../S5E06MA4**	3.9	13	26	78	93	46	46	46	46	46	7.3	2250	-
1.75	0.55	151	27.5	2.7	19.82	IE5	**BS06-../S5E06MA4**	7.5	25	50	151	181	27.5	27.5	27.5	27.5	27.5	12	2500	-
1.75	0.55	123	33.5	2.3	24.25	IE5	**BS06-../S5E06MA4**	6.1	20.5	41	123	148	33.5	33.5	33.5	33.5	33.5	12	2600	-
1.75	0.55	114	33	2.3	26.21	IE5	**BS06-../S5E06MA4**	5.7	19	38	114	137	33	33	33	33	33	12	3000	-
1.75	0.55	95	40	2	31.5	IE5	**BS06-../S5E06MA4**	4.7	15.5	31.5	95	114	40	40	40	40	40	12	3200	-
1.75	0.55	72	52	1.7	41.29	IE5	**BS06-../S5E06MA4**	3.6	12	24	72	87	52	52	52	52	52	12	3500	-
1.75	0.55	61	61	1.4	48.6	IE5	**BS06-../S5E06MA4**	3	10	20.5	61	74	61	61	61	61	61	12	3500	-
1.75	0.55	51	72	1.3	58.15	IE5	**BS06-../S5E06MA4**	2.5	8.5	17	51	61	72	72	72	72	72	12	3500	-
1.75	0.55	46.5	76	1	64.06	IE5	**BS06-../S5E06MA4**	2.3	7.8	15.5	46.5	56	76	76	76	76	76	12	3500	-
1.75	0.55	42	88	1.1	71.18	IE5	**BS06-../S5E06MA4**	2.1	7	14	42	50	88	88	88	88	88	12	3500	-
1.75	0.55	38.5	90	0.94	77	IE5	**BS06-../S5E06MA4**	1.9	6.4	12.5	38.5	46.5	90	90	90	90	90	12	3500	-
1.75	0.55	33	110	0.89	90	IE5	**BS06-../S5E06MA4**	1.6	5.5	11	33	40	110	110	110	110	110	12	3500	-
1.75	0.55	29	124	0.8	103.1	IE5	**BS06-../S5E06MA4**	1.4	4.8	9.6	29	34.5	124	124	124	124	124	12	3500	-
1.75	0.55	89	44.5	3	33.55	IE5	**BS10-../S5E06MA4**	4.4	14.5	29.5	89	107	44.5	44.5	44.5	44.5	44.5	23	3550	-
1.75	0.55	75	52	2.7	39.96	IE5	**BS10-../S5E06MA4**	3.7	12.5	25	75	90	52	52	52	52	52	23	3800	-
1.75	0.55	63	62	2.3	47.59	IE5	**BS10-../S5E06MA4**	3.1	10.5	21	63	75	62	62	62	62	62	23	4050	-
1.75	0.55	52	73	2	57.12	IE5	**BS10-../S5E06MA4**	2.6	8.7	17.5	52	63	73	73	73	73	73	23	4350	-

MN = 1.75 Nm (PN = 0.55 kW)



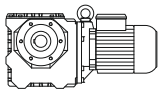
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
1.75	0.55	49	71	2.1	60.74	IE5	**BS10-../S5E06MA4**	2.4	8.2	16	49	59	71	71	71	71	71	23	4550	-
1.75	0.55	41.5	93	1.7	71.96	IE5	**BS10-../S5E06MA4**	2	6.9	13.5	41.5	50	93	93	93	93	93	23	5000	-
1.75	0.55	35.5	109	1.4	84.36	IE5	**BS10-../S5E06MA4**	1.7	5.9	11.5	35.5	42.5	109	109	109	109	109	23	5300	-
1.75	0.55	29	115	1.4	103.4	IE5	**BS10-../S5E06MA4**	1.4	4.8	9.6	29	34.5	115	115	115	115	115	23	5600	-
1.75	0.55	23	145	1.1	130.3	IE5	**BS10-../S5E06MA4**	1.1	3.8	7.6	23	27.5	145	145	145	145	145	23	6000	-
1.75	0.55	19.5	171	0.96	152.7	IE5	**BS10-../S5E06MA4**	0.95	3.2	6.5	19.5	23.5	171	171	171	171	171	23	6000	-
1.75	0.55	15.5	210	0.8	188.6	IE5	**BS10-../S5E06MA4**	0.75	2.6	5.3	15.5	19	210	210	210	210	210	23	6000	-
1.75	0.55	33.5	102	2.6	88.67	IE5	**BS20-../S5E06MA4**	1.6	5.6	11	33.5	40.5	102	102	102	102	102	34	7000	-
1.75	0.55	29.5	130	1.9	101.1	IE5	**BS20-../S5E06MA4**	1.4	4.9	9.8	29.5	35.5	130	130	130	130	130	34	7100	-
1.75	0.55	28	122	2.2	106.3	IE5	**BS20-../S5E06MA4**	1.4	4.7	9.4	28	33.5	122	122	122	122	122	34	7600	-
1.75	0.55	23.5	147	1.8	127.3	IE5	**BS20-../S5E06MA4**	1.1	3.9	7.8	23.5	28	147	147	147	147	147	34	8000	-
1.75	0.55	18.5	184	1.5	159.4	IE5	**BS20-../S5E06MA4**	0.9	3.1	6.2	18.5	22.5	184	184	184	184	184	34	8000	-
1.75	0.55	16	210	1.3	183	IE5	**BS20-../S5E06MA4**	0.8	2.7	5.4	16	19.5	210	210	210	210	210	34	8000	-
1.75	0.55	13	250	1.1	225.6	IE5	**BS20-../S5E06MA4**	0.65	2.2	4.4	13	15.5	250	250	250	250	250	34	8000	-
1.75	0.55	14.5	225	1.2	201.4	IE5	**BS20Z-../S5E06MA4**	0.7	2.4	4.9	14.5	17.5	225	225	225	225	225	35	8000	-
1.75	0.55	11.5	285	1	257.8	IE5	**BS20Z-../S5E06MA4**	0.55	1.9	3.8	11.5	13.5	285	285	285	285	285	35	8000	-
1.75	0.55	9.9	330	0.91	300.1	IE5	**BS20Z-../S5E06MA4**	0.49	1.6	3.3	9.9	11.5	330	330	330	330	330	35	8000	-
1.75	0.55	8.3	390	0.82	359.9	IE5	**BS20Z-../S5E06MA4**	0.41	1.3	2.7	8.3	10	390	390	390	390	390	35	8000	-
1.75	0.55	19.5	177	3	151.1	IE5	**BS30-../S5E06MA4**	0.95	3.3	6.6	19.5	23.5	177	177	177	177	177	51	9500	-
1.75	0.55	16	215	2.5	186.7	IE5	**BS30-../S5E06MA4**	0.8	2.6	5.3	16	19	215	215	215	215	215	51	10000	-
1.75	0.55	13.5	245	2.1	216.4	IE5	**BS30-../S5E06MA4**	0.65	2.3	4.6	13.5	16.5	245	245	245	245	245	51	10000	-
1.75	0.55	14	240	1.8	211.1	IE5	**BS30Z-../S5E06MA4**	0.7	2.3	4.7	14	17	240	240	240	240	240	54	10000	-
1.75	0.55	11	300	1.9	261.6	IE5	**BS30Z-../S5E06MA4**	0.55	1.9	3.8	11	13.5	300	300	300	300	300	54	10000	-
1.75	0.55	9.7	345	1.7	306.6	IE5	**BS30Z-../S5E06MA4**	0.48	1.6	3.2	9.7	11.5	345	345	345	345	345	54	10000	-
1.75	0.55	8.3	465	0.85	359.6	IE5	**BS30Z-../S5E06MA4**	0.41	1.3	2.7	8.3	10	465	465	465	465	465	54	10000	-
1.75	0.55	7.6	440	1.3	390.2	IE5	**BS30Z-../S5E06MA4**	0.38	1.2	2.5	7.6	9.2	440	440	440	440	440	54	10000	-
1.75	0.55	6.5	510	1.2	457.3	IE5	**BS30Z-../S5E06MA4**	0.32	1	2.1	6.5	7.8	510	510	510	510	510	54	10000	-
1.75	0.55	5.5	600	0.99	539.3	IE5	**BS30Z-../S5E06MA4**	0.27	0.9	1.8	5.5	6.6	600	600	600	600	600	54	10000	-
1.75	0.55	4.6	680	0.83	651	IE5	**BS30Z-../S5E06MA4**	0.23	0.75	1.5	4.6	5.5	680	680	680	680	680	54	10000	-
1.75	0.55	15	255	2.7	197.1	IE5	**BS40Z-../S5E06MA4**	0.75	2.5	5	15	18	255	255	255	255	255	68	15000	-
1.75	0.55	10	370	1.9	287.7	IE5	**BS40Z-../S5E06MA4**	0.5	1.7	3.4	10	12.5	370	370	370	370	370	68	15000	-
1.75	0.55	8.4	390	2.7	356.8	IE5	**BS40Z-../S5E06MA4**	0.42	1.4	2.8	8.4	10	390	390	390	390	390	68	15000	-
1.75	0.55	6.7	490	2	446.8	IE5	**BS40Z-../S5E06MA4**	0.33	1.1	2.2	6.7	8	490	490	490	490	490	68	15000	-
1.75	0.55	5.7	570	1.9	520.8	IE5	**BS40Z-../S5E06MA4**	0.28	0.95	1.9	5.7	6.9	570	570	570	570	570	68	15000	-
1.75	0.55	4.9	650	1.4	612.1	IE5	**BS40Z-../S5E06MA4**	0.24	0.8	1.6	4.9	5.8	650	650	650	650	650	68	15000	-
1.75	0.55	4	770	0.97	736.5	IE5	**BS40Z-../S5E06MA4**	0.2	0.65	1.3	4	4.8	770	770	770	770	770	68	15000	-

MN = 2.4 Nm (PN = 0.75 kW)



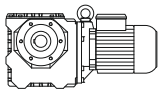
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
2.4	0.75	650	9.7	1.5	4.6	IE5	**BS02-../S5E06LA4**	32.5	108	215	650	780	9.7	9.7	9.7	9.7	9.7	6.8	1000	-
2.4	0.55	650	9.7	1.5	4.6	IE3	**BS02-../SPE06MA4**	32.5	108	215	650	780	7.2	8	8.9	9.7	9.7	6.8	1000	-
2.4	0.55	550	11.4	1.8	5.4	IE5	**BS02-../S5E06LA4**	27.5	92	185	550	660	11.4	11.4	11.4	11.4	11.4	6.8	1000	-
2.4	0.55	550	11.4	1.8	5.4	IE3	**BS02-../SPE06MA4**	27.5	92	185	550	660	8.5	9.5	10.4	11.4	11.4	6.8	1000	-
2.4	0.55	440	13.9	1.8	6.75	IE5	**BS02-../S5E06LA4**	22	74	148	440	530	13.9	13.9	13.9	13.9	13.9	6.8	1000	-
2.4	0.55	440	13.9	1.8	6.75	IE3	**BS02-../SPE06MA4**	22	74	148	440	530	10.4	11.6	12.7	13.9	13.9	6.8	1000	-
2.4	0.55	360	16.6	1.5	8.25	IE5	**BS02-../S5E06LA4**	18	60	121	360	435	16.6	16.6	16.6	16.6	16.6	6.8	1100	-
2.4	0.55	360	16.6	1.5	8.25	IE3	**BS02-../SPE06MA4**	18	60	121	360	435	12.4	13.8	15.2	16.6	16.6	6.8	1100	-
2.4	0.55	280	20.5	1.2	10.67	IE5	**BS02-../S5E06LA4**	14	46.5	93	280	335	20.5	20.5	20.5	20.5	20.5	6.8	1250	-
2.4	0.55	280	20.5	1.2	10.67	IE3	**BS02-../SPE06MA4**	14	46.5	93	280	335	15.7	17.4	19.2	20.5	20.5	6.8	1250	-
2.4	0.55	220	25	0.99	13.5	IE5	**BS02-../S5E06LA4**	11	37	74	220	265	25	25	25	25	25	6.8	1250	-
2.4	0.55	220	25	0.99	13.5	IE3	**BS02-../SPE06MA4**	11	37	74	220	265	18.9	21	23	25	25	6.8	1250	-
2.4	0.55	220	25	2.2	13.5	IE5	**BS03-../S5E06LA4**	11	37	74	220	265	25	25	25	25	25	6.9	1600	-
2.4	0.55	220	25	2.2	13.5	IE3	**BS03-../SPE06MA4**	11	37	74	220	265	18.9	21	23	25	25	6.9	1600	-
2.4	0.55	157	34.5	1.6	19	IE5	**BS03-../S5E06LA4**	7.8	26	52	157	189	34.5	34.5	34.5	34.5	34.5	6.9	1950	-
2.4	0.55	157	34.5	1.6	19	IE3	**BS03-../SPE06MA4**	7.8	26	52	157	189	25.5	28.5	31.5	34.5	34.5	6.9	1950	-
2.4	0.55	120	41	1.3	25	IE5	**BS03-../S5E06LA4**	6	20	40	120	144	41	41	41	41	41	6.9	1950	-
2.4	0.55	120	41	1.3	25	IE3	**BS03-../SPE06MA4**	6	20	40	120	144	31	34.5	37.5	41	41	6.9	1950	-
2.4	0.55	90	48	1.1	33	IE5	**BS03-../S5E06LA4**	4.5	15	30	90	109	48	48	48	48	48	6.9	1950	-
2.4	0.55	90	48	1.1	33	IE3	**BS03-../SPE06MA4**	4.5	15	30	90	109	36	40	44	48	48	6.9	1950	-
2.4	0.55	76	59	0.92	39	IE5	**BS03-../S5E06LA4**	3.8	12.5	25.5	76	92	59	59	59	59	59	6.9	1950	-
2.4	0.55	76	59	0.92	39	IE3	**BS03-../SPE06MA4**	3.8	12.5	25.5	76	92	44.5	49.5	54	59	59	6.9	1950	-
2.4	0.55	485	11.4	2.3	6.13	IE5	**BS04-../S5E06LA4**	24	81	163	485	580	11.4	11.4	11.4	11.4	11.4	7.3	1300	-
2.4	0.55	485	11.4	2.3	6.13	IE3	**BS04-../SPE06MA4**	24	81	163	485	580	8.6	9.5	10.5	11.4	11.4	7.3	1300	-
2.4	0.55	335	16.7	1.8	8.93	IE5	**BS04-../S5E06LA4**	16.5	55	111	335	400	16.7	16.7	16.7	16.7	16.7	7.3	1500	-
2.4	0.55	335	16.7	1.8	8.93	IE3	**BS04-../SPE06MA4**	16.5	55	111	335	400	12.5	13.9	15.3	16.7	16.7	7.3	1500	-
2.4	0.55	275	20	1.6	10.73	IE5	**BS04-../S5E06LA4**	13.5	46.5	93	275	335	20	20	20	20	20	7.3	1600	-
2.4	0.55	275	20	1.6	10.73	IE3	**BS04-../SPE06MA4**	13.5	46.5	93	275	335	15	16.7	18.4	20	20	7.3	1600	-
2.4	0.55	225	24	1.4	13.09	IE5	**BS04-../S5E06LA4**	11	38	76	225	275	24	24	24	24	24	7.3	1760	-
2.4	0.55	225	24	1.4	13.09	IE3	**BS04-../SPE06MA4**	11	38	76	225	275	18.1	20	22	24	24	7.3	1760	-
2.4	0.55	183	30	1.2	16.31	IE5	**BS04-../S5E06LA4**	9.1	30.5	61	183	220	30	30	30	30	30	7.3	1970	-

MN = 2.4 Nm (PN = 0.55 kW)



M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
2.4	0.55	183	30	1.2	16.31	IE3	**BS04-../SPE06MA4**	9.1	30.5	61	183	220	22.5	25	27.5	30	30	7.3	1970	-
2.4	0.55	166	30.5	1.1	18	IE5	**BS04-../S5E06LA4**	8.3	27.5	55	166	200	30.5	30.5	30.5	30.5	30.5	7.3	1950	-
2.4	0.55	166	30.5	1.1	18	IE3	**BS04-../SPE06MA4**	8.3	27.5	55	166	200	23	25.5	28	30.5	30.5	7.3	1950	-
2.4	0.55	143	38	0.97	20.96	IE5	**BS04-../S5E06LA4**	7.1	23.5	47.5	143	171	38	38	38	38	38	7.3	2100	-
2.4	0.55	143	38	0.97	20.96	IE3	**BS04-../SPE06MA4**	7.1	23.5	47.5	143	171	28.5	31.5	35	38	38	7.3	2100	-
2.4	0.55	114	44.5	0.85	26.21	IE5	**BS04-../S5E06LA4**	5.7	19	38	114	137	44.5	44.5	44.5	44.5	44.5	7.3	2250	-
2.4	0.55	114	44.5	0.85	26.21	IE3	**BS04-../SPE06MA4**	5.7	19	38	114	137	33	37	40.5	44.5	44.5	7.3	2250	-
2.4	0.55	210	27	2.5	14.07	IE5	**BS06-../S5E06LA4**	10.5	35.5	71	210	255	27	27	27	27	27	12	2200	-
2.4	0.55	210	27	2.5	14.07	IE3	**BS06-../SPE06MA4**	10.5	35.5	71	210	255	20.5	22.5	25	27	27	12	2200	-
2.4	0.55	181	31.5	2.3	16.56	IE5	**BS06-../S5E06LA4**	9	30	60	181	215	31.5	31.5	31.5	31.5	31.5	12	2400	-
2.4	0.55	181	31.5	2.3	16.56	IE3	**BS06-../SPE06MA4**	9	30	60	181	215	23.5	26	29	31.5	31.5	12	2400	-
2.4	0.55	151	38	2	19.82	IE5	**BS06-../S5E06LA4**	7.5	25	50	151	181	38	38	38	38	38	12	2500	-
2.4	0.55	151	38	2	19.82	IE3	**BS06-../SPE06MA4**	7.5	25	50	151	181	28.5	31.5	34.5	38	38	12	2500	-
2.4	0.55	123	46.5	1.7	24.25	IE5	**BS06-../S5E06LA4**	6.1	20.5	41	123	148	46.5	46.5	46.5	46.5	46.5	12	2600	-
2.4	0.55	123	46.5	1.7	24.25	IE3	**BS06-../SPE06MA4**	6.1	20.5	41	123	148	34.5	38.5	42.5	46.5	46.5	12	2600	-
2.4	0.55	114	45.5	1.7	26.21	IE5	**BS06-../S5E06LA4**	5.7	19	38	114	137	45.5	45.5	45.5	45.5	45.5	12	3000	-
2.4	0.55	114	45.5	1.7	26.21	IE3	**BS06-../SPE06MA4**	5.7	19	38	114	137	34	38	42	45.5	45.5	12	3000	-
2.4	0.55	95	55	1.4	31.5	IE5	**BS06-../S5E06LA4**	4.7	15.5	31.5	95	114	55	55	55	55	55	12	3200	-
2.4	0.55	95	55	1.4	31.5	IE3	**BS06-../SPE06MA4**	4.7	15.5	31.5	95	114	41	45.5	50	55	55	12	3200	-
2.4	0.55	72	71	1.2	41.29	IE5	**BS06-../S5E06LA4**	3.6	12	24	72	87	71	71	71	71	71	12	3500	-
2.4	0.55	72	71	1.2	41.29	IE3	**BS06-../SPE06MA4**	3.6	12	24	72	87	53	59	65	71	71	12	3500	-
2.4	0.55	61	83	1	48.6	IE5	**BS06-../S5E06LA4**	3	10	20.5	61	74	83	83	83	83	83	12	3500	-
2.4	0.55	61	83	1	48.6	IE3	**BS06-../SPE06MA4**	3	10	20.5	61	74	62	69	76	83	83	12	3500	-
2.4	0.55	51	99	0.92	58.15	IE5	**BS06-../S5E06LA4**	2.5	8.5	17	51	61	99	99	99	99	99	12	3500	-
2.4	0.55	51	99	0.92	58.15	IE3	**BS06-../SPE06MA4**	2.5	8.5	17	51	61	74	82	90	99	99	12	3500	-
2.4	0.55	138	41	3	21.61	IE5	**BS10-../S5E06LA4**	6.9	23	46	138	166	41	41	41	41	41	23	3000	-
2.4	0.55	138	41	3	21.61	IE3	**BS10-../SPE06MA4**	6.9	23	46	138	166	31	34.5	38	41	41	23	3000	-
2.4	0.55	113	49	2.6	26.42	IE5	**BS10-../S5E06LA4**	5.6	18.5	37.5	113	136	49	49	49	49	49	23	3250	-
2.4	0.55	113	49	2.6	26.42	IE3	**BS10-../SPE06MA4**	5.6	18.5	37.5	113	136	37	41	45	49	49	23	3250	-
2.4	0.55	89	61	2.2	33.55	IE5	**BS10-../S5E06LA4**	4.4	14.5	29.5	89	107	61	61	61	61	61	23	3550	-
2.4	0.55	89	61	2.2	33.55	IE3	**BS10-../SPE06MA4**	4.4	14.5	29.5	89	107	45.5	50	56	61	61	23	3550	-
2.4	0.55	75	71	1.9	39.96	IE5	**BS10-../S5E06LA4**	3.7	12.5	25	75	90	71	71	71	71	71	23	3800	-
2.4	0.55	75	71	1.9	39.96	IE3	**BS10-../SPE06MA4**	3.7	12.5	25	75	90	53	59	65	71	71	23	3800	-
2.4	0.55	63	85	1.7	47.59	IE5	**BS10-../S5E06LA4**	3.1	10.5	21	63	75	85	85	85	85	85	23	4050	-
2.4	0.55	63	85	1.7	47.59	IE3	**BS10-../SPE06MA4**	3.1	10.5	21	63	75	64	71	78	85	85	23	4050	-
2.4	0.55	52	101	1.5	57.12	IE5	**BS10-../S5E06LA4**	2.6	8.7	17.5	52	63	101	101	101	101	101	23	4350	-
2.4	0.55	52	101	1.5	57.12	IE3	**BS10-../SPE06MA4**	2.6	8.7	17.5	52	63	76	84	92	101	101	23	4350	-
2.4	0.55	49	97	1.5	60.74	IE5	**BS10-../S5E06LA4**	2.4	8.2	16	49	59	97	97	97	97	97	23	4550	-
2.4	0.55	49	97	1.5	60.74	IE3	**BS10-../SPE06MA4**	2.4	8.2	16	49	59	73	81	89	97	97	23	4550	-
2.4	0.55	41.5	127	1.3	71.96	IE5	**BS10-../S5E06LA4**	2	6.9	13.5	41.5	50	127	127	127	127	127	23	5000	-
2.4	0.55	41.5	127	1.3	71.96	IE3	**BS10-../SPE06MA4**	2	6.9	13.5	41.5	50	95	106	117	127	127	23	5000	-
2.4	0.55	35.5	149	1	84.36	IE5	**BS10-../S5E06LA4**	1.7	5.9	11.5	35.5	42.5	149	149	149	149	149	23	5300	-
2.4	0.55	35.5	149	1	84.36	IE3	**BS10-../SPE06MA4**	1.7	5.9	11.5	35.5	42.5	112	124	137	149	149	23	5300	-
2.4	0.55	29	158	1	103.4	IE5	**BS10-../S5E06LA4**	1.4	4.8	9.6	29	34.5	158	158	158	158	158	23	5600	-
2.4	0.55	29	158	1	103.4	IE3	**BS10-../SPE06MA4**	1.4	4.8	9.6	29	34.5	119	132	145	158	158	23	5600	-
2.4	0.55	23	200	0.82	130.3	IE5	**BS10-../S5E06LA4**	1.1	3.8	7.6	23	27.5	200	200	200	200	200	23	6000	-
2.4	0.55	23	200	0.82	130.3	IE3	**BS10-../SPE06MA4**	1.1	3.8	7.6	23	27.5	150	166	183	200	200	23	6000	-
2.4	0.55	51	105	2.6	58.74	IE5	**BS20-../S5E06LA4**	2.5	8.5	17	51	61	105	105	105	105	105	34	5900	-
2.4	0.55	51	105	2.6	58.74	IE3	**BS20-../SPE06MA4**	2.5	8.5	17	51	61	79	88	96	105	105	34	5900	-
2.4	0.55	42.5	126	2.4	70.3	IE5	**BS20-../S5E06LA4**	2.1	7.1	14	42.5	51	126	126	126	126	126	34	6300	-
2.4	0.55	42.5	126	2.4	70.3	IE3	**BS20-../SPE06MA4**	2.1	7.1	14	42.5	51	94	105	115	126	126	34	6300	-
2.4	0.55	39	120	2.2	76.18	IE5	**BS20-../S5E06LA4**	1.9	6.5	13	39	47	120	120	120	120	120	34	6600	-
2.4	0.55	39	120	2.2	76.18	IE3	**BS20-../SPE06MA4**	1.9	6.5	13	39	47	90	100	110	120	120	34	6600	-
2.4	0.55	33.5	140	1.9	88.67	IE5	**BS20-../S5E06LA4**	1.6	5.6	11	33.5	40.5	140	140	140	140	140	34	7000	-
2.4	0.55	33.5	140	1.9	88.67	IE3	**BS20-../SPE06MA4**	1.6	5.6	11	33.5	40.5	105	117	128	140	140	34	7000	-
2.4	0.55	29.5	179	1.4	101.1	IE5	**BS20-../S5E06LA4**	1.4	4.9	9.8	29.5	35.5	179	179	179	179	179	34	7100	-
2.4	0.55	29.5	179	1.4	101.1	IE3	**BS20-../SPE06MA4**	1.4	4.9	9.8	29.5	35.5	134	149	164	179	179	34	7100	-
2.4	0.55	28	168	1.6	106.3	IE5	**BS20-../S5E06LA4**	1.4	4.7	9.4	28	33.5	168	168	168	168	168	34	7600	-
2.4	0.55	28	168	1.6	106.3	IE3	**BS20-../SPE06MA4**	1.4	4.7	9.4	28	33.5	126	140	154	168	168	34	7600	-
2.4	0.55	23.5	200	1.3	127.3	IE5	**BS20-../S5E06LA4**	1.1	3.9	7.8	23.5	28	200	200	200	200	200	34	8000	-
2.4	0.55	23.5	200	1.3	127.3	IE3	**BS20-../SPE06MA4**	1.1	3.9	7.8	23.5	28	151	168	184	200	200	34	8000	-
2.4	0.55	18.5	250	1.1	159.4	IE5	**BS20-../S5E06LA4**	0.9	3.1	6.2	18.5	22.5	250	250	250	250	250	34	8000	-
2.4	0.55	18.5	250	1.1	159.4	IE3	**BS20-../SPE06MA4**	0.9	3.1	6.2	18.5	22.5	189	210	230	250	250	34	8000	-
2.4	0.55	16	285	0.97	183	IE5	**BS20-../S5E06LA4**	0.8	2.7	5.4	16	19.5	285	285	285	285	285	34	8000	-
2.4	0.55	16	285	0.97	183	IE3	**BS20-../SPE06MA4**	0.8	2.7	5.4	16	19.5	215	240	265	285	285	34	8000	-
2.4	0.55	13	345	0.84	225.6	IE5	**BS20-../S5E06LA4**	0.65	2.2	4.4	13	15.5	345	345	345	345	345	34	8000	-
2.4	0.55	13	345	0.84	225.6	IE3	**BS20-../SPE06MA4**	0.65	2.2	4.4	13	15.5	255	285	315	345	345	34	8000	-
2.4	0.55	14.5	305	0.91	201.4	IE5	**BS20Z-../S5E06LA4**	0.7	2.4	4.9	14.5	17.5	305	305	305	305	305	35	8000	-
2.4	0.55	14.5	305	0.91	201.4	IE3	**BS20Z-../SPE06MA4**	0.7	2.4	4.9	14.5	17.5	230	255	280	305	305	35	8000	-
2.4	0.55	35.5	154	2.6	83.48	IE5	**BS30-../S5E06LA4**	1.7	5.9	11.5	35.5	43	154	154	154	154	154	51	6800	-
2.4	0.55	35.5	154	2.6	83.48	IE3	**BS30-../SPE06MA4**	1.7	5.9	11.5	35.5	43	115	128	141	154	154	51	6800	-
2.4	0.55	28	173	2.9	106.2	IE5	**BS30-../S5E06LA4**	1.4	4.7	9.4	28	33.5	173	173	173	173	173	51	8200	-
2.4	0.55	28	173	2.9	106.2	IE3	**BS30-../SPE06MA4**	1.4	4.7	9.4	28	33.5	129	144	158	173	173	51	8200	-
2.4	0.55	23.5	200	2.5	125.2	IE5	**BS30-../S5E06LA4**	1.1	3.9	7.9	23.5	28.5	200	200	200	200	200	51	8700	-
2.4	0.55	23.5	200	2.5	125.2	IE3	**BS30-../SPE06MA4**	1.1	3.9	7.9	23.5	28.5	153	170	187	200	200	51	8700	-
2.4	0.55	19.5	240	2.2	151.1	IE5	**BS30-../S5E06LA4**	0.95	3.3	6.6	19.5	23.5	240	240	240	240	240	51	9500	-
2.4	0.55	19.5	240	2.2	151.1	IE3	**BS30-../SPE06MA4**	0.95	3.3	6.6	19.5	23.5	182	200	220	240	240	51	9500	-
2.4	0.55	16	295	1.8	186.7	IE5	**BS30-../S5E06LA4**	0.8	2.6	5.3	16	19	295	295	295	295	295	51	10000	-
2.4	0.55	16	295	1.8	186.7	IE3	**BS30-../SPE06MA4**	0.8	2.6	5.3	16	19	220	245	270	295	295	51	10000	-

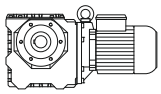
MN = 2.4 Nm (PN = 0.55 kW)



M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
2.4	0.55	13.5	340	1.5	216.4	IE5	**BS30-../S5E06LA4**	0.65	2.3	4.6	13.5	16.5	340	340	340	340	340	51	10000	-
2.4	0.55	13.5	340	1.5	216.4	IE3	**BS30-../SPE06MA4**	0.65	2.3	4.6	13.5	16.5	255	285	310	340	340	51	10000	-
2.4	0.55	14	330	1.3	211.1	IE5	**BS30Z-../S5E06LA4**	0.7	2.3	4.7	14	17	330	330	330	330	330	54	10000	-
2.4	0.55	14	330	1.3	211.1	IE3	**BS30Z-../SPE06MA4**	0.7	2.3	4.7	14	17	250	275	305	330	330	54	10000	-
2.4	0.55	11	410	1.4	261.6	IE5	**BS30Z-../S5E06LA4**	0.55	1.9	3.8	11	13.5	410	410	410	410	410	54	10000	-
2.4	0.55	11	410	1.4	261.6	IE3	**BS30Z-../SPE06MA4**	0.55	1.9	3.8	11	13.5	310	345	375	410	410	54	10000	-
2.4	0.55	9.7	475	1.2	306.6	IE5	**BS30Z-../S5E06LA4**	0.48	1.6	3.2	9.7	11.5	475	475	475	475	475	54	10000	-
2.4	0.55	9.7	475	1.2	306.6	IE3	**BS30Z-../SPE06MA4**	0.48	1.6	3.2	9.7	11.5	355	395	435	475	475	54	10000	-
2.4	0.55	7.6	600	0.97	390.2	IE5	**BS30Z-../S5E06LA4**	0.38	1.2	2.5	7.6	9.2	600	600	600	600	600	54	10000	-
2.4	0.55	7.6	600	0.97	390.2	IE3	**BS30Z-../SPE06MA4**	0.38	1.2	2.5	7.6	9.2	455	500	550	600	600	54	10000	-
2.4	0.55	6.5	700	0.85	457.3	IE5	**BS30Z-../S5E06LA4**	0.32	1	2.1	6.5	7.8	700	700	700	700	700	54	10000	-
2.4	0.55	6.5	700	0.85	457.3	IE3	**BS30Z-../SPE06MA4**	0.32	1	2.1	6.5	7.8	520	580	640	700	700	54	10000	-
2.4	0.55	15	350	2	197.1	IE5	**BS40Z-../S5E06LA4**	0.75	2.5	5	15	18	350	350	350	350	350	68	15000	-
2.4	0.55	15	350	2	197.1	IE3	**BS40Z-../SPE06MA4**	0.75	2.5	5	15	18	260	290	320	350	350	68	15000	-
2.4	0.55	12	375	2.4	249.6	IE5	**BS40Z-../S5E06LA4**	0.6	2	4	12	14	375	375	375	375	375	68	15000	-
2.4	0.55	12	375	2.4	249.6	IE3	**BS40Z-../SPE06MA4**	0.6	2	4	12	14	280	310	345	375	375	68	15000	-
2.4	0.55	10	510	1.4	287.7	IE5	**BS40Z-../S5E06LA4**	0.5	1.7	3.4	10	12.5	510	510	510	510	510	68	15000	-
2.4	0.55	10	510	1.4	287.7	IE3	**BS40Z-../SPE06MA4**	0.5	1.7	3.4	10	12.5	380	425	465	510	510	68	15000	-
2.4	0.55	9.9	455	2.3	302.1	IE5	**BS40Z-../S5E06LA4**	0.49	1.6	3.3	9.9	11.5	455	455	455	455	455	68	15000	-
2.4	0.55	9.9	455	2.3	302.1	IE3	**BS40Z-../SPE06MA4**	0.49	1.6	3.3	9.9	11.5	340	380	415	455	455	68	15000	-
2.4	0.55	8.4	530	2	356.8	IE5	**BS40Z-../S5E06LA4**	0.42	1.4	2.8	8.4	10	530	530	530	530	530	68	15000	-
2.4	0.55	8.4	530	2	356.8	IE3	**BS40Z-../SPE06MA4**	0.42	1.4	2.8	8.4	10	400	445	490	530	530	68	15000	-
2.4	0.55	6.7	670	1.5	446.8	IE5	**BS40Z-../S5E06LA4**	0.33	1.1	2.2	6.7	8	670	670	670	670	670	68	15000	-
2.4	0.55	6.7	670	1.5	446.8	IE3	**BS40Z-../SPE06MA4**	0.33	1.1	2.2	6.7	8	500	560	610	670	670	68	15000	-
2.4	0.55	5.7	780	1.4	520.8	IE5	**BS40Z-../S5E06LA4**	0.28	0.95	1.9	5.7	6.9	780	780	780	780	780	68	15000	-
2.4	0.55	5.7	780	1.4	520.8	IE3	**BS40Z-../SPE06MA4**	0.28	0.95	1.9	5.7	6.9	590	650	720	780	780	68	15000	-
2.4	0.55	4.9	890	1	612.1	IE5	**BS40Z-../S5E06LA4**	0.24	0.8	1.6	4.9	5.8	890	890	890	890	890	68	15000	-
2.4	0.55	4.9	890	1	612.1	IE3	**BS40Z-../SPE06MA4**	0.24	0.8	1.6	4.9	5.8	670	740	820	890	890	68	15000	-

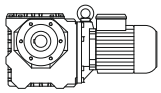
9

MN = 3.5 Nm (PN = 1.1 kW)



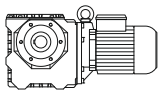
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
3.5	1.1	650	14.1	1.1	4.6	IE4	**BS02-../S4E06LA4**	32.5	108	215	650	780	10.1	11.7	14.1	14.1	14.1	6.8	1000	-
3.5	1.1	550	16.6	1.2	5.4	IE4	**BS02-../S4E06LA4**	27.5	92	185	550	660	11.8	13.7	16.6	16.6	16.6	6.8	1000	-
3.5	1.1	440	20	1.2	6.75	IE4	**BS02-../S4E06LA4**	22	74	148	440	530	14.5	16.8	20	20	20	6.8	1000	-
3.5	1.1	360	24	1	8.25	IE4	**BS02-../S4E06LA4**	18	60	121	360	435	17.3	20	24	24	24	6.8	1100	-
3.5	1.1	280	30.5	0.82	10.67	IE4	**BS02-../S4E06LA4**	14	46.5	93	280	335	21.5	25	30.5	30.5	30.5	6.8	1250	-
3.5	1.1	220	36.5	1.5	13.5	IE4	**BS03-../S4E06LA4**	11	37	74	220	265	26	30.5	36.5	36.5	36.5	6.9	1600	-
3.5	1.1	157	50	1.1	19	IE4	**BS03-../S4E06LA4**	7.8	26	52	157	189	36	41.5	50	50	50	6.9	1950	-
3.5	1.1	120	60	0.91	25	IE4	**BS03-../S4E06LA4**	6	20	40	120	144	43	50	60	60	60	6.9	1950	-
3.5	1.1	485	16.7	1.6	6.13	IE4	**BS04-../S4E06LA4**	24	81	163	485	580	11.9	13.8	16.7	16.7	16.7	7.3	1300	-
3.5	1.1	335	24	1.2	8.93	IE4	**BS04-../S4E06LA4**	16.5	55	111	335	400	17.4	20	24	24	24	7.3	1500	-
3.5	1.1	275	29	1.1	10.73	IE4	**BS04-../S4E06LA4**	13.5	46.5	93	275	335	20.5	24	29	29	29	7.3	1600	-
3.5	1.1	225	35	0.94	13.09	IE4	**BS04-../S4E06LA4**	11	38	76	225	275	25	29	35	35	35	7.3	1760	-
3.5	1.1	183	43.5	0.8	16.31	IE4	**BS04-../S4E06LA4**	9.1	30.5	61	183	220	31	36	43.5	43.5	43.5	7.3	1970	-
3.5	1.1	335	25	2.4	8.93	IE4	**BS06-../S4E06LA4**	16.5	55	111	335	400	18	20.5	25	25	25	12	1710	-
3.5	1.1	275	30	2.1	10.73	IE4	**BS06-../S4E06LA4**	13.5	46.5	93	275	335	21.5	25	30	30	30	12	1850	-
3.5	1.1	210	39.5	1.7	14.07	IE4	**BS06-../S4E06LA4**	10.5	35.5	71	210	255	28	33	39.5	39.5	39.5	12	2200	-
3.5	1.1	181	46	1.6	16.56	IE4	**BS06-../S4E06LA4**	9	30	60	181	215	33	38	46	46	46	12	2400	-
3.5	1.1	151	55	1.4	19.82	IE4	**BS06-../S4E06LA4**	7.5	25	50	151	181	39.5	45.5	55	55	55	12	2500	-
3.5	1.1	123	67	1.1	24.25	IE4	**BS06-../S4E06LA4**	6.1	20.5	41	123	148	48.5	56	67	67	67	12	2600	-
3.5	1.1	114	66	1.1	26.21	IE4	**BS06-../S4E06LA4**	5.7	19	38	114	137	47.5	55	66	66	66	12	3000	-
3.5	1.1	95	80	0.99	31.5	IE4	**BS06-../S4E06LA4**	4.7	15.5	31.5	95	114	57	66	80	80	80	12	3200	-
3.5	1.1	72	104	0.83	41.29	IE4	**BS06-../S4E06LA4**	3.6	12	24	72	87	74	86	104	104	104	12	3500	-
3.5	1.1	138	60	2.1	21.61	IE4	**BS10-../S4E06LA4**	6.9	23	46	138	166	43	50	60	60	60	23	3000	-
3.5	1.1	113	72	1.8	26.42	IE4	**BS10-../S4E06LA4**	5.6	18.5	37.5	113	136	51	59	72	72	72	23	3250	-
3.5	1.1	89	89	1.5	33.55	IE4	**BS10-../S4E06LA4**	4.4	14.5	29.5	89	107	63	73	89	89	89	23	3550	-
3.5	1.1	75	104	1.3	39.96	IE4	**BS10-../S4E06LA4**	3.7	12.5	25	75	90	74	86	104	104	104	23	3800	-
3.5	1.1	63	124	1.2	47.59	IE4	**BS10-../S4E06LA4**	3.1	10.5	21	63	75	89	103	124	124	124	23	4050	-
3.5	1.1	52	147	1	57.12	IE4	**BS10-../S4E06LA4**	2.6	8.7	17.5	52	63	105	122	147	147	147	23	4350	-
3.5	1.1	49	142	1.1	60.74	IE4	**BS10-../S4E06LA4**	2.4	8.2	16	49	59	101	118	142	142	142	23	4550	-
3.5	1.1	41.5	186	0.86	71.96	IE4	**BS10-../S4E06LA4**	2	6.9	13.5	41.5	50	133	154	186	186	186	23	5000	-
3.5	1.1	91	88	3	32.87	IE4	**BS20-../S4E06LA4**	4.5	15	30	91	109	63	73	88	88	88	34	4750	-
3.5	1.1	71	111	2.4	42.08	IE4	**BS20-../S4E06LA4**	3.5	11.5	23.5	71	85	79	92	111	111	111	34	5200	-
3.5	1.1	61	128	2.1	48.98	IE4	**BS20-../S4E06LA4**	3	10	20	61	73	91	106	128	128	128	34	5500	-
3.5	1.1	59	118	2.3	50.44	IE4	**BS20-../S4E06LA4**	2.9	9.9	19.5	59	71	84	98	118	118	118	34	5700	-
3.5	1.1	51	154	1.8	58.74	IE4	**BS20-../S4E06LA4**	2.5	8.5	17	51	61	110	127	154	154	154	34	5900	-
3.5	1.1	42.5	184	1.6	70.3	IE4	**BS20-../S4E06LA4**	2.1	7.1	14	42.5	51	131	152	184	184	184	34	6300	-
3.5	1.1	39	175	1.5	76.18	IE4	**BS20-../S4E06LA4**	1.9	6.5	13	39	47	125	145	175	175	175	34	6600	-
3.5	1.1	33.5	200	1.3	88.67	IE4	**BS20-../S4E06LA4**	1.6	5.6	11	33.5	40.5	146	169	200	200	200	34	7000	-

MN = 3.5 Nm (PN = 1.1 kW)



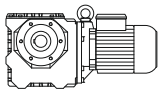
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
3.5	1.1	29.5	260	0.95	101.1	IE4	**BS20-../S4E06LA4**	1.4	4.9	9.8	29.5	35.5	187	215	260	260	260	34	7100	-
3.5	1.1	28	245	1.1	106.3	IE4	**BS20-../S4E06LA4**	1.4	4.7	9.4	28	33.5	175	200	245	245	245	34	7600	-
3.5	1.1	23.5	290	0.92	127.3	IE4	**BS20-../S4E06LA4**	1.1	3.9	7.8	23.5	28	210	240	290	290	290	34	8000	-
3.5	1.1	51	158	2.9	58.64	IE4	**BS30-../S4E06LA4**	2.5	8.5	17	51	61	112	130	158	158	158	51	6900	-
3.5	1.1	42	174	2.8	71.17	IE4	**BS30-../S4E06LA4**	2.1	7	14	42	50	124	144	174	174	174	51	7000	-
3.5	1.1	35.5	220	1.8	83.48	IE4	**BS30-../S4E06LA4**	1.7	5.9	11.5	35.5	43	160	186	220	220	220	51	6800	-
3.5	1.1	33	215	2.2	90.59	IE4	**BS30-../S4E06LA4**	1.6	5.5	11	33	39.5	156	181	215	215	215	51	7700	-
3.5	1.1	28	250	2	106.2	IE4	**BS30-../S4E06LA4**	1.4	4.7	9.4	28	33.5	180	205	250	250	250	51	8200	-
3.5	1.1	23.5	295	1.7	125.2	IE4	**BS30-../S4E06LA4**	1.1	3.9	7.9	23.5	28.5	210	245	295	295	295	51	8700	-
3.5	1.1	19.5	350	1.5	151.1	IE4	**BS30-../S4E06LA4**	0.95	3.3	6.6	19.5	23.5	250	290	350	350	350	51	9500	-
3.5	1.1	16	430	1.3	186.7	IE4	**BS30-../S4E06LA4**	0.8	2.6	5.3	16	19	305	355	430	430	430	51	10000	-
3.5	1.1	13.5	495	1	216.4	IE4	**BS30-../S4E06LA4**	0.65	2.3	4.6	13.5	16.5	355	410	495	495	495	51	10000	-
3.5	1.1	14	485	0.91	211.1	IE4	**BS30Z-../S4E06LA4**	0.7	2.3	4.7	14	17	345	400	485	485	485	54	10000	-
3.5	1.1	11	600	0.93	261.6	IE4	**BS30Z-../S4E06LA4**	0.55	1.9	3.8	11	13.5	430	500	600	600	600	54	10000	-
3.5	1.1	9.7	690	0.83	306.6	IE4	**BS30Z-../S4E06LA4**	0.48	1.6	3.2	9.7	11.5	495	570	690	690	690	54	10000	-
3.5	1.1	15	510	1.4	197.1	IE4	**BS40Z-../S4E06LA4**	0.75	2.5	5	15	18	360	420	510	510	510	68	15000	-
3.5	1.1	12	550	1.6	249.6	IE4	**BS40Z-../S4E06LA4**	0.6	2	4	12	14	390	455	550	550	550	68	15000	-
3.5	1.1	10	740	0.95	287.7	IE4	**BS40Z-../S4E06LA4**	0.5	1.7	3.4	10	12.5	530	610	740	740	740	68	15000	-
3.5	1.1	9.9	660	1.6	302.1	IE4	**BS40Z-../S4E06LA4**	0.49	1.6	3.3	9.9	11.5	475	550	660	660	660	68	15000	-
3.5	1.1	8.4	780	1.4	356.8	IE4	**BS40Z-../S4E06LA4**	0.42	1.4	2.8	8.4	10	560	650	780	780	780	68	15000	-
3.5	1.1	6.7	980	1	446.8	IE4	**BS40Z-../S4E06LA4**	0.33	1.1	2.2	6.7	8	700	810	980	980	980	68	15000	-
3.5	1.1	5.7	1140	0.96	520.8	IE4	**BS40Z-../S4E06LA4**	0.28	0.95	1.9	5.7	6.9	820	950	1140	1140	1140	68	15000	-

MN = 5 Nm (PN = 1.55 kW)



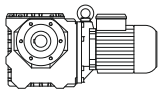
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
5	1.55	650	20	2	4.6	IE5	**BS03-../S5E08MA4**	32.5	108	215	650	780	20	20	20	20	20	10	1070	-
5	1.55	500	26	1.7	6	IE5	**BS03-../S5E08MA4**	25	83	166	500	600	26	26	26	26	26	10	1170	-
5	1.55	375	34	1.4	8	IE5	**BS03-../S5E08MA4**	18.5	62	125	375	450	34	34	34	34	34	10	1320	-
5	1.55	300	42	1.2	10	IE5	**BS03-../S5E08MA4**	15	50	100	300	360	42	42	42	42	42	10	1450	-
5	1.55	220	52	1	13.5	IE5	**BS03-../S5E08MA4**	11	37	74	220	265	52	52	52	52	52	10	1600	-
5	1.55	445	27	2.1	6.67	IE5	**BS06-../S5E08MA4**	22	74	149	445	530	27	27	27	27	27	16	1550	-
5	1.55	335	36	1.7	8.93	IE5	**BS06-../S5E08MA4**	16.5	55	111	335	400	36	36	36	36	36	16	1710	-
5	1.55	275	43	1.5	10.73	IE5	**BS06-../S5E08MA4**	13.5	46.5	93	275	335	43	43	43	43	43	16	1850	-
5	1.55	210	56	1.2	14.07	IE5	**BS06-../S5E08MA4**	10.5	35.5	71	210	255	56	56	56	56	56	16	2200	-
5	1.55	181	66	1.1	16.56	IE5	**BS06-../S5E08MA4**	9	30	60	181	215	66	66	66	66	66	16	2400	-
5	1.55	153	71	0.98	19.58	IE5	**BS06-../S5E08MA4**	7.6	25.5	51	153	183	71	71	71	71	71	16	2700	-
5	1.55	151	79	0.95	19.82	IE5	**BS06-../S5E08MA4**	7.5	25	50	151	181	79	79	79	79	79	16	2500	-
5	1.55	114	95	0.8	26.21	IE5	**BS06-../S5E08MA4**	5.7	19	38	114	137	95	95	95	95	95	16	3000	-
5	1.55	240	49.5	2.2	12.49	IE5	**BS10-../S5E08MA4**	12	40	80	240	285	49.5	49.5	49.5	49.5	49.5	27	2400	-
5	1.55	177	67	1.8	16.92	IE5	**BS10-../S5E08MA4**	8.8	29.5	59	177	210	67	67	67	67	67	27	2700	-
5	1.55	138	86	1.4	21.61	IE5	**BS10-../S5E08MA4**	6.9	23	46	138	166	86	86	86	86	86	27	3000	-
5	1.55	132	77	1.5	22.6	IE5	**BS10-../S5E08MA4**	6.6	22	44	132	159	77	77	77	77	77	27	3200	-
5	1.55	113	103	1.3	26.42	IE5	**BS10-../S5E08MA4**	5.6	18.5	37.5	113	136	103	103	103	103	103	27	3250	-
5	1.55	97	105	1.2	30.63	IE5	**BS10-../S5E08MA4**	4.8	16	32.5	97	117	105	105	105	105	105	27	3550	-
5	1.55	89	127	1.1	33.55	IE5	**BS10-../S5E08MA4**	4.4	14.5	29.5	89	107	127	127	127	127	127	27	3550	-
5	1.55	75	149	0.93	39.96	IE5	**BS10-../S5E08MA4**	3.7	12.5	25	75	90	149	149	149	149	149	27	3800	-
5	1.55	63	178	0.81	47.59	IE5	**BS10-../S5E08MA4**	3.1	10.5	21	63	75	178	178	178	178	178	27	4050	-
5	1.55	134	90	2.6	22.23	IE5	**BS20-../S5E08MA4**	6.7	22	44.5	134	161	90	90	90	90	90	37	4100	-
5	1.55	129	83	2.7	23.13	IE5	**BS20-../S5E08MA4**	6.4	21.5	43	129	155	83	83	83	83	83	37	4300	-
5	1.55	107	108	2.3	27.86	IE5	**BS20-../S5E08MA4**	5.3	17.5	35.5	107	129	108	108	108	108	108	37	4450	-
5	1.55	97	110	2.3	30.63	IE5	**BS20-../S5E08MA4**	4.8	16	32.5	97	117	110	110	110	110	110	37	4750	-
5	1.55	91	126	2.1	32.87	IE5	**BS20-../S5E08MA4**	4.5	15	30	91	109	126	126	126	126	126	37	4750	-
5	1.55	74	144	1.8	40.25	IE5	**BS20-../S5E08MA4**	3.7	12	24.5	74	89	144	144	144	144	144	37	5300	-
5	1.55	71	159	1.7	42.08	IE5	**BS20-../S5E08MA4**	3.5	11.5	23.5	71	85	159	159	159	159	159	37	5200	-
5	1.55	61	183	1.5	48.98	IE5	**BS20-../S5E08MA4**	3	10	20	61	73	183	183	183	183	183	37	5500	-
5	1.55	59	168	1.6	50.44	IE5	**BS20-../S5E08MA4**	2.9	9.9	19.5	59	71	168	168	168	168	168	37	5700	-
5	1.55	51	220	1.3	58.74	IE5	**BS20-../S5E08MA4**	2.5	8.5	17	51	61	220	220	220	220	220	37	5900	-
5	1.55	42.5	260	1.1	70.3	IE5	**BS20-../S5E08MA4**	2.1	7.1	14	42.5	51	260	260	260	260	260	37	6300	-
5	1.55	39	250	1.1	76.18	IE5	**BS20-../S5E08MA4**	1.9	6.5	13	39	47	250	250	250	250	250	37	6600	-
5	1.55	33.5	290	0.92	88.67	IE5	**BS20-../S5E08MA4**	1.6	5.6	11	33.5	40.5	290	290	290	290	290	37	7000	-
5	1.55	79	142	3	37.92	IE5	**BS30-../S5E08MA4**	3.9	13	26	79	94	142	142	142	142	142	55	5500	-
5	1.55	76	159	2.7	39.31	IE5	**BS30-../S5E08MA4**	3.8	12.5	25	76	91	159	159	159	159	159	55	5500	-
5	1.55	59	192	2.3	50.04	IE5	**BS30-../S5E08MA4**	2.9	9.9	19.5	59	71	192	192	192	192	192	55	5900	-
5	1.55	51	225	2	58.64	IE5	**BS30-../S5E08MA4**	2.5	8.5	17	51	61	225	225	225	225	225	55	6900	-
5	1.55	42	245	1.9	71.17	IE5	**BS30-../S5E08MA4**	2.1	7	14	42	50	245	245	245	245	245	55	7000	-
5	1.55	35.5	320	1.3	83.48	IE5	**BS30-../S5E08MA4**	1.7	5.9	11.5	35.5	43	320	320	320	320	320	55	6800	-
5	1.55	33	310	1.6	90.59	IE5	**BS30-../S5E08MA4**	1.6	5.5	11	33	39.5	310	310	310	310	310	55	7700	-
5	1.55	28	360	1.4	106.2	IE5	**BS30-../S5E08MA4**	1.4	4.7	9.4	28	33.5	360	360	360	360	360	55	8200	-
5	1.55	23.5	425	1.2	125.2	IE5	**BS30-../S5E08MA4**	1.1	3.9	7.9	23.5	28.5	425	425	425	425	425	55	8700	-

MN = 5 Nm (PN = 1.55 kW)



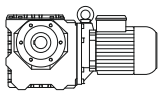
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
5	1.55	19.5	500	1.1	151.1	IE5	**BS30-../S5E08MA4**	0.95	3.3	6.6	19.5	23.5	500	500	500	500	500	55	9500	-
5	1.55	16	610	0.88	186.7	IE5	**BS30-../S5E08MA4**	0.8	2.6	5.3	16	19	610	610	610	610	610	55	10000	-
5	1.55	43	265	2.8	69.6	IE5	**BS40-../S5E08MA4**	2.1	7.1	14	43	51	265	265	265	265	265	68	11800	-
5	1.55	34.5	295	3	86.33	IE5	**BS40-../S5E08MA4**	1.7	5.7	11.5	34.5	41.5	295	295	295	295	295	68	12900	-
5	1.55	27.5	360	2.6	108.1	IE5	**BS40-../S5E08MA4**	1.3	4.6	9.2	27.5	33	360	360	360	360	360	68	14000	-
5	1.55	23.5	420	2.3	126	IE5	**BS40-../S5E08MA4**	1.1	3.9	7.9	23.5	28.5	420	420	420	420	420	68	14900	-
5	1.55	20	480	2	148.1	IE5	**BS40-../S5E08MA4**	1	3.3	6.7	20	24	480	480	480	480	480	68	15000	-
5	1.55	16.5	570	1.4	178.2	IE5	**BS40-../S5E08MA4**	0.8	2.8	5.6	16.5	20	570	570	570	570	570	68	15000	-
5	1.55	13.5	690	1.1	219.7	IE5	**BS40-../S5E08MA4**	0.65	2.2	4.5	13.5	16	690	690	690	690	690	68	15000	-
5	1.55	15	720	0.96	197.1	IE5	**BS40Z-../S5E08MA4**	0.75	2.5	5	15	18	720	720	720	720	720	71	15000	-
5	1.55	12	780	1.1	249.6	IE5	**BS40Z-../S5E08MA4**	0.6	2	4	12	14	780	780	780	780	780	71	15000	-
5	1.55	9.9	950	1.1	302.1	IE5	**BS40Z-../S5E08MA4**	0.49	1.6	3.3	9.9	11.5	950	950	950	950	950	71	15000	-
5	1.55	8.4	1120	0.96	356.8	IE5	**BS40Z-../S5E08MA4**	0.42	1.4	2.8	8.4	10	1120	1120	1120	1120	1120	71	15000	-

MN = 7 Nm (PN = 2.2 kW)



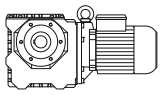
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
7	2.2	650	28	1.4	4.6	IE4	**BS03-../S4E08MA4**	32.5	108	215	650	780	20	23.5	28	28	28	10	1070	-
7	2.2	650	28	1.4	4.6	IE5	**BS03-../S5E08LA4**	32.5	108	215	650	780	26	28	28	28	28	12	1070	-
7	2.2	500	36.5	1.2	6	IE4	**BS03-../S4E08MA4**	25	83	166	500	600	26	31	36.5	36.5	36.5	10	1170	-
7	2.2	500	36.5	1.2	6	IE5	**BS03-../S5E08LA4**	25	83	166	500	600	34	36.5	36.5	36.5	36.5	12	1170	-
7	2.2	375	48	1	8	IE4	**BS03-../S4E08MA4**	18.5	62	125	375	450	34	40.5	48	48	48	10	1320	-
7	2.2	375	48	1	8	IE5	**BS03-../S5E08LA4**	18.5	62	125	375	450	44.5	48	48	48	48	12	1320	-
7	2.2	300	58	0.88	10	IE4	**BS03-../S4E08MA4**	15	50	100	300	360	42	49.5	58	58	58	10	1450	-
7	2.2	300	58	0.88	10	IE5	**BS03-../S5E08LA4**	15	50	100	300	360	54	58	58	58	58	12	1450	-
7	2.2	445	37.5	1.5	6.67	IE4	**BS06-../S4E08MA4**	22	74	149	445	530	27	31.5	37.5	37.5	37.5	16	1550	-
7	2.2	445	37.5	1.5	6.67	IE5	**BS06-../S5E08LA4**	22	74	149	445	530	35	37.5	37.5	37.5	37.5	17	1550	-
7	2.2	335	50	1.2	8.93	IE4	**BS06-../S4E08MA4**	16.5	55	111	335	400	36	42.5	50	50	50	16	1710	-
7	2.2	335	50	1.2	8.93	IE5	**BS06-../S5E08LA4**	16.5	55	111	335	400	47	50	50	50	50	17	1710	-
7	2.2	275	60	1.1	10.73	IE4	**BS06-../S4E08MA4**	13.5	46.5	93	275	335	43	51	60	60	60	16	1850	-
7	2.2	275	60	1.1	10.73	IE5	**BS06-../S5E08LA4**	13.5	46.5	93	275	335	56	60	60	60	60	17	1850	-
7	2.2	210	79	0.85	14.07	IE4	**BS06-../S4E08MA4**	10.5	35.5	71	210	255	56	67	79	79	79	16	2200	-
7	2.2	210	79	0.85	14.07	IE5	**BS06-../S5E08LA4**	10.5	35.5	71	210	255	74	79	79	79	79	17	2200	-
7	2.2	240	69	1.5	12.49	IE4	**BS10-../S4E08MA4**	12	40	80	240	285	49.5	58	69	69	69	27	2400	-
7	2.2	240	69	1.5	12.49	IE5	**BS10-../S5E08LA4**	12	40	80	240	285	64	69	69	69	69	28	2400	-
7	2.2	177	94	1.3	16.92	IE4	**BS10-../S4E08MA4**	8.8	29.5	59	177	210	67	79	94	94	94	27	2700	-
7	2.2	177	94	1.3	16.92	IE5	**BS10-../S5E08LA4**	8.8	29.5	59	177	210	87	94	94	94	94	28	2700	-
7	2.2	138	121	1	21.61	IE4	**BS10-../S4E08MA4**	6.9	23	46	138	166	86	101	121	121	121	27	3000	-
7	2.2	138	121	1	21.61	IE5	**BS10-../S5E08LA4**	6.9	23	46	138	166	112	121	121	121	121	28	3000	-
7	2.2	132	109	1.1	22.6	IE4	**BS10-../S4E08MA4**	6.6	22	44	132	159	77	92	109	109	109	27	3200	-
7	2.2	132	109	1.1	22.6	IE5	**BS10-../S5E08LA4**	6.6	22	44	132	159	101	109	109	109	109	28	3200	-
7	2.2	113	144	0.9	26.42	IE4	**BS10-../S4E08MA4**	5.6	18.5	37.5	113	136	103	121	144	144	144	27	3250	-
7	2.2	113	144	0.9	26.42	IE5	**BS10-../S5E08LA4**	5.6	18.5	37.5	113	136	133	144	144	144	144	28	3250	-
7	2.2	97	147	0.88	30.63	IE4	**BS10-../S4E08MA4**	4.8	16	32.5	97	117	105	124	147	147	147	27	3550	-
7	2.2	97	147	0.88	30.63	IE5	**BS10-../S5E08LA4**	4.8	16	32.5	97	117	137	147	147	147	147	28	3550	-
7	2.2	230	72	2.8	12.77	IE4	**BS20-../S4E08MA4**	11.5	39	78	230	280	51	61	72	72	72	37	3350	-
7	2.2	230	72	2.8	12.77	IE5	**BS20-../S5E08LA4**	11.5	39	78	230	280	67	72	72	72	72	39	3350	-
7	2.2	177	95	2.3	16.92	IE4	**BS20-../S4E08MA4**	8.8	29.5	59	177	210	68	80	95	95	95	37	3700	-
7	2.2	177	95	2.3	16.92	IE5	**BS20-../S5E08LA4**	8.8	29.5	59	177	210	89	95	95	95	95	39	3700	-
7	2.2	134	126	1.8	22.23	IE4	**BS20-../S4E08MA4**	6.7	22	44.5	134	161	90	106	126	126	126	37	4100	-
7	2.2	134	126	1.8	22.23	IE5	**BS20-../S5E08LA4**	6.7	22	44.5	134	161	117	126	126	126	126	39	4100	-
7	2.2	129	116	2	23.13	IE4	**BS20-../S4E08MA4**	6.4	21.5	43	129	155	83	98	116	116	116	37	4300	-
7	2.2	129	116	2	23.13	IE5	**BS20-../S5E08LA4**	6.4	21.5	43	129	155	108	116	116	116	116	39	4300	-
7	2.2	107	152	1.6	27.86	IE4	**BS20-../S4E08MA4**	5.3	17.5	35.5	107	129	108	128	152	152	152	37	4450	-
7	2.2	107	152	1.6	27.86	IE5	**BS20-../S5E08LA4**	5.3	17.5	35.5	107	129	141	152	152	152	152	39	4450	-
7	2.2	97	154	1.6	30.63	IE4	**BS20-../S4E08MA4**	4.8	16	32.5	97	117	110	130	154	154	154	37	4750	-
7	2.2	97	154	1.6	30.63	IE5	**BS20-../S5E08LA4**	4.8	16	32.5	97	117	143	154	154	154	154	39	4750	-
7	2.2	91	177	1.5	32.87	IE4	**BS20-../S4E08MA4**	4.5	15	30	91	109	126	149	177	177	177	37	4750	-
7	2.2	91	177	1.5	32.87	IE5	**BS20-../S5E08LA4**	4.5	15	30	91	109	164	177	177	177	177	39	4750	-
7	2.2	74	200	1.3	40.25	IE4	**BS20-../S4E08MA4**	3.7	12	24.5	74	89	144	170	200	200	200	37	5300	-
7	2.2	74	200	1.3	40.25	IE5	**BS20-../S5E08LA4**	3.7	12	24.5	74	89	188	200	200	200	200	39	5300	-
7	2.2	71	220	1.2	42.08	IE4	**BS20-../S4E08MA4**	3.5	11.5	23.5	71	85	159	188	220	220	220	37	5200	-
7	2.2	71	220	1.2	42.08	IE5	**BS20-../S5E08LA4**	3.5	11.5	23.5	71	85	205	220	220	220	220	39	5200	-
7	2.2	61	255	1	48.98	IE4	**BS20-../S4E08MA4**	3	10	20	61	73	183	215	255	255	255	37	5500	-
7	2.2	61	255	1	48.98	IE5	**BS20-../S5E08LA4**	3	10	20	61	73	235	255	255	255	255	39	5500	-
7	2.2	59	235	1.1	50.44	IE4	**BS20-../S4E08MA4**	2.9	9.9	19.5	59	71	168	199	235	235	235	37	5700	-
7	2.2	59	235	1.1	50.44	IE5	**BS20-../S5E08LA4**	2.9	9.9	19.5	59	71	215	235	235	235	235	39	5700	-
7	2.2	51	305	0.91	58.74	IE4	**BS20-../S4E08MA4**	2.5	8.5	17	51	61	220	255	305	305	305	37	5900	-
7	2.2	51	305	0.91	58.74	IE5	**BS20-../S5E08LA4**	2.5	8.5	17	51	61	285	305	305	305	305	39	5900	-
7	2.2	42.5	365	0.81	70.3	IE4	**BS20-../S4E08MA4**	2.1	7.1	14	42.5	51	260	310	365	365	365	37	6300	-
7	2.2	42.5	365	0.81	70.3	IE5	**BS20-../S5E08LA4**	2.1	7.1	14	42.5	51	340	365	365	365	365	39	6300	-

MN = 7 Nm (PN = 2.2 kW)



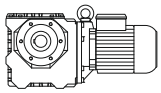
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
7	2.2	124	126	2.9	24.06	IE4	**BS30-../S4E08MA4**	6.2	20.5	41.5	124	149	90	106	126	126	126	55	4600	-
7	2.2	124	126	2.9	24.06	IE5	**BS30-../S5E08LA4**	6.2	20.5	41.5	124	149	117	126	126	126	126	56	4600	-
7	2.2	110	157	2.5	27.07	IE4	**BS30-../S4E08MA4**	5.5	18	36.5	110	132	112	132	157	157	157	55	4750	-
7	2.2	110	157	2.5	27.07	IE5	**BS30-../S5E08LA4**	5.5	18	36.5	110	132	146	157	157	157	157	56	4750	-
7	2.2	97	160	2.5	30.63	IE4	**BS30-../S4E08MA4**	4.8	16	32.5	97	117	114	135	160	160	160	55	5000	-
7	2.2	97	160	2.5	30.63	IE5	**BS30-../S5E08LA4**	4.8	16	32.5	97	117	149	160	160	160	160	56	5000	-
7	2.2	89	192	2.2	33.55	IE4	**BS30-../S4E08MA4**	4.4	14.5	29.5	89	107	137	162	192	192	192	55	5200	-
7	2.2	89	192	2.2	33.55	IE5	**BS30-../S5E08LA4**	4.4	14.5	29.5	89	107	178	192	192	192	192	56	5200	-
7	2.2	79	199	2.1	37.92	IE4	**BS30-../S4E08MA4**	3.9	13	26	79	94	142	167	199	199	199	55	5500	-
7	2.2	79	199	2.1	37.92	IE5	**BS30-../S5E08LA4**	3.9	13	26	79	94	184	199	199	199	199	56	5500	-
7	2.2	76	220	1.9	39.31	IE4	**BS30-../S4E08MA4**	3.8	12.5	25	76	91	159	187	220	220	220	55	5500	-
7	2.2	76	220	1.9	39.31	IE5	**BS30-../S5E08LA4**	3.8	12.5	25	76	91	205	220	220	220	220	56	5500	-
7	2.2	59	265	1.7	50.04	IE4	**BS30-../S4E08MA4**	2.9	9.9	19.5	59	71	192	225	265	265	265	55	5900	-
7	2.2	59	265	1.7	50.04	IE5	**BS30-../S5E08LA4**	2.9	9.9	19.5	59	71	250	265	265	265	265	56	5900	-
7	2.2	51	315	1.5	58.64	IE4	**BS30-../S4E08MA4**	2.5	8.5	17	51	61	225	265	315	315	315	55	6900	-
7	2.2	51	315	1.5	58.64	IE5	**BS30-../S5E08LA4**	2.5	8.5	17	51	61	290	315	315	315	315	56	6900	-
7	2.2	42	345	1.4	71.17	IE4	**BS30-../S4E08MA4**	2.1	7	14	42	50	245	290	345	345	345	55	7000	-
7	2.2	42	345	1.4	71.17	IE5	**BS30-../S5E08LA4**	2.1	7	14	42	50	320	345	345	345	345	56	7000	-
7	2.2	35.5	445	0.9	83.48	IE4	**BS30-../S4E08MA4**	1.7	5.9	11.5	35.5	43	320	375	445	445	445	55	6800	-
7	2.2	35.5	445	0.9	83.48	IE5	**BS30-../S5E08LA4**	1.7	5.9	11.5	35.5	43	415	445	445	445	445	56	6800	-
7	2.2	33	435	1.1	90.59	IE4	**BS30-../S4E08MA4**	1.6	5.5	11	33	39.5	310	365	435	435	435	55	7700	-
7	2.2	33	435	1.1	90.59	IE5	**BS30-../S5E08LA4**	1.6	5.5	11	33	39.5	405	435	435	435	435	56	7700	-
7	2.2	28	500	1	106.2	IE4	**BS30-../S4E08MA4**	1.4	4.7	9.4	28	33.5	360	425	500	500	500	55	8200	-
7	2.2	28	500	1	106.2	IE5	**BS30-../S5E08LA4**	1.4	4.7	9.4	28	33.5	465	500	500	500	500	56	8200	-
7	2.2	23.5	590	0.87	125.2	IE4	**BS30-../S4E08MA4**	1.1	3.9	7.9	23.5	28.5	425	500	590	590	590	55	8700	-
7	2.2	23.5	590	0.87	125.2	IE5	**BS30-../S5E08LA4**	1.1	3.9	7.9	23.5	28.5	550	590	590	590	590	56	8700	-
7	2.2	49.5	300	2.9	60.38	IE4	**BS40-../S4E08MA4**	2.4	8.2	16.5	49.5	59	210	250	300	300	300	68	11200	-
7	2.2	49.5	300	2.9	60.38	IE5	**BS40-../S5E08LA4**	2.4	8.2	16.5	49.5	59	275	300	300	300	300	69	11200	-
7	2.2	43	375	2	69.6	IE4	**BS40-../S4E08MA4**	2.1	7.1	14	43	51	265	315	375	375	375	68	11800	-
7	2.2	43	375	2	69.6	IE5	**BS40-../S5E08LA4**	2.1	7.1	14	43	51	345	375	375	375	375	69	11800	-
7	2.2	41	355	2.5	73.09	IE4	**BS40-../S4E08MA4**	2	6.8	13.5	41	49	255	300	355	355	355	68	12100	-
7	2.2	41	355	2.5	73.09	IE5	**BS40-../S5E08LA4**	2	6.8	13.5	41	49	330	355	355	355	355	69	12100	-
7	2.2	34.5	415	2.2	86.33	IE4	**BS40-../S4E08MA4**	1.7	5.7	11.5	34.5	41.5	295	350	415	415	415	68	12900	-
7	2.2	34.5	415	2.2	86.33	IE5	**BS40-../S5E08LA4**	1.7	5.7	11.5	34.5	41.5	385	415	415	415	415	69	12900	-
7	2.2	27.5	500	1.9	108.1	IE4	**BS40-../S4E08MA4**	1.3	4.6	9.2	27.5	33	360	425	500	500	500	68	14000	-
7	2.2	27.5	500	1.9	108.1	IE5	**BS40-../S5E08LA4**	1.3	4.6	9.2	27.5	33	470	500	500	500	500	69	14000	-
7	2.2	23.5	590	1.7	126	IE4	**BS40-../S4E08MA4**	1.1	3.9	7.9	23.5	28.5	420	495	590	590	590	68	14900	-
7	2.2	23.5	590	1.7	126	IE5	**BS40-../S5E08LA4**	1.1	3.9	7.9	23.5	28.5	540	590	590	590	590	69	14900	-
7	2.2	20	670	1.4	148.1	IE4	**BS40-../S4E08MA4**	1	3.3	6.7	20	24	480	560	670	670	670	68	15000	-
7	2.2	20	670	1.4	148.1	IE5	**BS40-../S5E08LA4**	1	3.3	6.7	20	24	620	670	670	670	670	69	15000	-
7	2.2	16.5	810	1	178.2	IE4	**BS40-../S4E08MA4**	0.8	2.8	5.6	16.5	20	570	680	810	810	810	68	15000	-
7	2.2	16.5	810	1	178.2	IE5	**BS40-../S5E08LA4**	0.8	2.8	5.6	16.5	20	750	810	810	810	810	69	15000	-
7	2.2	13.5	960	0.82	219.7	IE4	**BS40-../S4E08MA4**	0.65	2.2	4.5	13.5	16	690	810	960	960	960	68	15000	-
7	2.2	13.5	960	0.82	219.7	IE5	**BS40-../S5E08LA4**	0.65	2.2	4.5	13.5	16	890	960	960	960	960	69	15000	-
7	2.2	12	1100	0.82	249.6	IE4	**BS40Z-../S4E08MA4**	0.6	2	4	12	14	780	920	1100	1100	1100	71	15000	-
7	2.2	12	1100	0.82	249.6	IE5	**BS40Z-../S5E08LA4**	0.6	2	4	12	14	1020	1100	1100	1100	1100	73	15000	-
7	2.2	9.9	1330	0.8	302.1	IE4	**BS40Z-../S4E08MA4**	0.49	1.6	3.3	9.9	11.5	950	1120	1330	1330	1330	71	15000	-
7	2.2	9.9	1330	0.8	302.1	IE5	**BS40Z-../S5E08LA4**	0.49	1.6	3.3	9.9	11.5	1230	1330	1330	1330	1330	73	15000	-

MN = 10 Nm (PN = 3.1 kW)



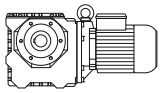
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
10	3.1	650	40	0.99	4.6	IE3	**BS03-../SPE08LA4**	32.5	108	215	650	780	26	32	40	40	40	12	1070	-
10	3.1	500	52	0.83	6	IE3	**BS03-../SPE08LA4**	25	83	166	500	600	34	42	52	52	52	12	1170	-
10	3.1	445	54	1	6.67	IE3	**BS06-../SPE08LA4**	22	74	149	445	530	35	43	54	54	54	17	1550	-
10	3.1	335	72	0.86	8.93	IE3	**BS06-../SPE08LA4**	16.5	55	111	335	400	47	57	72	72	72	17	1710	-
10	3.1	240	99	1.1	12.49	IE3	**BS10-../SPE08LA4**	12	40	80	240	285	64	79	99	99	99	28	2400	-
10	3.1	177	135	0.89	16.92	IE3	**BS10-../SPE08LA4**	8.8	29.5	59	177	210	87	108	135	135	135	28	2700	-
10	3.1	230	103	1.9	12.77	IE3	**BS20-../SPE08LA4**	11.5	39	78	230	280	67	82	103	103	103	39	3350	-
10	3.1	177	137	1.6	16.92	IE3	**BS20-../SPE08LA4**	8.8	29.5	59	177	210	89	109	137	137	137	39	3700	-
10	3.1	134	180	1.3	22.23	IE3	**BS20-../SPE08LA4**	6.7	22	44.5	134	161	117	144	180	180	180	39	4100	-
10	3.1	129	166	1.4	23.13	IE3	**BS20-../SPE08LA4**	6.4	21.5	43	129	155	108	133	166	166	166	39	4300	-
10	3.1	107	215	1.2	27.86	IE3	**BS20-../SPE08LA4**	5.3	17.5	35.5	107	129	141	173	215	215	215	39	4450	-
10	3.1	97	220	1.1	30.63	IE3	**BS20-../SPE08LA4**	4.8	16	32.5	97	117	143	176	220	220	220	39	4750	-
10	3.1	91	250	1.1	32.87	IE3	**BS20-../SPE08LA4**	4.5	15	30	91	109	164	200	250	250	250	39	4750	-
10	3.1	74	285	0.9	40.25	IE3	**BS20-../SPE08LA4**	3.7	12	24.5	74	89	188	230	285	285	285	39	5300	-
10	3.1	71	315	0.84	42.08	IE3	**BS20-../SPE08LA4**	3.5	11.5	23.5	71	85	205	255	315	315	315	39	5200	-
10	3.1	59	335	0.8	50.44	IE3	**BS20-../SPE08LA4**	2.9	9.9	19.5	59	71	215	270	335	335	335	39	5700	-
10	3.1	225	110	3	13.29	IE3	**BS30-../SPE08LA4**	11	37.5	75	225	270	71	88	110	110	110	56	3600	-
10	3.1	177	140	2.6	16.92	IE3	**BS30-../SPE08LA4**	8.8	29.5	59	177	210	91	112	140	140	140	56	3950	-
10	3.1	143	173	2.2	20.94	IE3	**BS30-../SPE08LA4**	7.1	23.5	47.5	143	171	112	139	173	173	173	56	4300	-

MN = 10 Nm (PN = 3.1 kW)



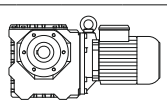
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
10	3.1	124	180	2	24.06	IE3	**BS30-../SPE08LA4**	6.2	20.5	41.5	124	149	117	144	180	180	180	56	4600	-
10	3.1	110	220	1.8	27.07	IE3	**BS30-../SPE08LA4**	5.5	18	36.5	110	132	146	179	220	220	220	56	4750	-
10	3.1	97	225	1.7	30.63	IE3	**BS30-../SPE08LA4**	4.8	16	32.5	97	117	149	183	225	225	225	56	5000	-
10	3.1	89	275	1.5	33.55	IE3	**BS30-../SPE08LA4**	4.4	14.5	29.5	89	107	178	220	275	275	275	56	5200	-
10	3.1	79	280	1.5	37.92	IE3	**BS30-../SPE08LA4**	3.9	13	26	79	94	184	225	280	280	280	56	5500	-
10	3.1	76	315	1.4	39.31	IE3	**BS30-../SPE08LA4**	3.8	12.5	25	76	91	205	250	315	315	315	56	5500	-
10	3.1	59	385	1.2	50.04	IE3	**BS30-../SPE08LA4**	2.9	9.9	19.5	59	71	250	305	385	385	385	56	5900	-
10	3.1	51	450	1	58.64	IE3	**BS30-../SPE08LA4**	2.5	8.5	17	51	61	290	360	450	450	450	56	6900	-
10	3.1	42	495	0.96	71.17	IE3	**BS30-../SPE08LA4**	2.1	7	14	42	50	320	395	495	495	495	56	7000	-
10	3.1	89	265	2.9	33.35	IE3	**BS40-../SPE08LA4**	4.4	14.5	29.5	89	107	173	210	265	265	265	69	8300	-
10	3.1	78	275	2.8	38.13	IE3	**BS40-../SPE08LA4**	3.9	13	26	78	94	180	220	275	275	275	69	9400	-
10	3.1	74	315	2.5	40.37	IE3	**BS40-../SPE08LA4**	3.7	12	24.5	74	89	205	255	315	315	315	69	9000	-
10	3.1	62	370	2.2	47.69	IE3	**BS40-../SPE08LA4**	3.1	10	20.5	62	75	240	295	370	370	370	69	9600	-
10	3.1	49.5	425	2	60.38	IE3	**BS40-../SPE08LA4**	2.4	8.2	16.5	49.5	59	275	340	425	425	425	69	11200	-
10	3.1	43	530	1.4	69.6	IE3	**BS40-../SPE08LA4**	2.1	7.1	14	43	51	345	425	530	530	530	69	11800	-
10	3.1	41	510	1.7	73.09	IE3	**BS40-../SPE08LA4**	2	6.8	13.5	41	49	330	405	510	510	510	69	12100	-
10	3.1	34.5	590	1.5	86.33	IE3	**BS40-../SPE08LA4**	1.7	5.7	11.5	34.5	41.5	385	475	590	590	590	69	12900	-
10	3.1	27.5	720	1.3	108.1	IE3	**BS40-../SPE08LA4**	1.3	4.6	9.2	27.5	33	470	570	720	720	720	69	14000	-
10	3.1	23.5	840	1.2	126	IE3	**BS40-../SPE08LA4**	1.1	3.9	7.9	23.5	28.5	540	670	840	840	840	69	14900	-
10	3.1	20	960	1	148.1	IE3	**BS40-../SPE08LA4**	1	3.3	6.7	20	24	620	770	960	960	960	69	15000	-

MN = 13 Nm (PN = 4 kW)



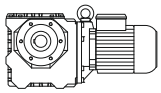
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
13	4	240	129	0.83	12.49	IE4	**BS10-../S4E09SA4**	12	40	80	240	285	84	99	129	129	129	32	2400	-
13	4	230	134	1.5	12.77	IE4	**BS20-../S4E09SA4**	11.5	39	78	230	280	87	103	134	134	134	42	3350	-
13	4	177	178	1.2	16.92	IE4	**BS20-../S4E09SA4**	8.8	29.5	59	177	210	116	137	178	178	178	42	3700	-
13	4	134	230	0.98	22.23	IE4	**BS20-../S4E09SA4**	6.7	22	44.5	134	161	153	180	230	230	230	42	4100	-
13	4	129	215	1.1	23.13	IE4	**BS20-../S4E09SA4**	6.4	21.5	43	129	155	141	166	215	215	215	42	4300	-
13	4	107	280	0.88	27.86	IE4	**BS20-../S4E09SA4**	5.3	17.5	35.5	107	129	184	215	280	280	280	42	4450	-
13	4	97	285	0.87	30.63	IE4	**BS20-../S4E09SA4**	4.8	16	32.5	97	117	187	220	285	285	285	42	4750	-
13	4	91	325	0.82	32.87	IE4	**BS20-../S4E09SA4**	4.5	15	30	91	109	215	250	325	325	325	42	4750	-
13	4	225	143	2.3	13.29	IE4	**BS30-../S4E09SA4**	11	37.5	75	225	270	93	110	143	143	143	60	3600	-
13	4	177	182	2	16.92	IE4	**BS30-../S4E09SA4**	8.8	29.5	59	177	210	119	140	182	182	182	60	3950	-
13	4	143	225	1.7	20.94	IE4	**BS30-../S4E09SA4**	7.1	23.5	47.5	143	171	147	173	225	225	225	60	4300	-
13	4	124	230	1.6	24.06	IE4	**BS30-../S4E09SA4**	6.2	20.5	41.5	124	149	153	180	230	230	230	60	4600	-
13	4	110	290	1.4	27.07	IE4	**BS30-../S4E09SA4**	5.5	18	36.5	110	132	190	220	290	290	290	60	4750	-
13	4	97	295	1.3	30.63	IE4	**BS30-../S4E09SA4**	4.8	16	32.5	97	117	195	225	295	295	295	60	5000	-
13	4	89	355	1.2	33.55	IE4	**BS30-../S4E09SA4**	4.4	14.5	29.5	89	107	230	275	355	355	355	60	5200	-
13	4	79	365	1.1	37.92	IE4	**BS30-../S4E09SA4**	3.9	13	26	79	94	240	280	365	365	365	60	5500	-
13	4	76	410	1	39.31	IE4	**BS30-../S4E09SA4**	3.8	12.5	25	76	91	270	315	410	410	410	60	5500	-
13	4	59	500	0.9	50.04	IE4	**BS30-../S4E09SA4**	2.9	9.9	19.5	59	71	325	385	500	500	500	60	5900	-
13	4	127	225	3	23.59	IE4	**BS40-../S4E09SA4**	6.3	21	42	127	152	148	174	225	225	225	73	7900	-
13	4	114	275	2.7	26.18	IE4	**BS40-../S4E09SA4**	5.7	19	38	114	137	182	210	275	275	275	73	7500	-
13	4	97	290	2.5	30.63	IE4	**BS40-../S4E09SA4**	4.8	16	32.5	97	117	192	225	290	290	290	73	8700	-
13	4	89	345	2.2	33.35	IE4	**BS40-../S4E09SA4**	4.4	14.5	29.5	89	107	225	265	345	345	345	73	8300	-
13	4	78	360	2.2	38.13	IE4	**BS40-../S4E09SA4**	3.9	13	26	78	94	235	275	360	360	360	73	9400	-
13	4	74	410	1.9	40.37	IE4	**BS40-../S4E09SA4**	3.7	12	24.5	74	89	270	315	410	410	410	73	9000	-
13	4	62	480	1.7	47.69	IE4	**BS40-../S4E09SA4**	3.1	10	20.5	62	75	315	370	480	480	480	73	9600	-
13	4	49.5	550	1.5	60.38	IE4	**BS40-../S4E09SA4**	2.4	8.2	16.5	49.5	59	360	425	550	550	550	73	11200	-
13	4	43	690	1.1	69.6	IE4	**BS40-../S4E09SA4**	2.1	7.1	14	43	51	455	530	690	690	690	73	11800	-
13	4	41	660	1.3	73.09	IE4	**BS40-../S4E09SA4**	2	6.8	13.5	41	49	430	510	660	660	660	73	12100	-
13	4	34.5	770	1.2	86.33	IE4	**BS40-../S4E09SA4**	1.7	5.7	11.5	34.5	41.5	500	590	770	770	770	73	12900	-
13	4	27.5	940	1	108.1	IE4	**BS40-../S4E09SA4**	1.3	4.6	9.2	27.5	33	610	720	940	940	940	73	14000	-
13	4	23.5	1090	0.89	126	IE4	**BS40-../S4E09SA4**	1.1	3.9	7.9	23.5	28.5	710	840	1090	1090	1090	73	14900	-

MN = 17.5 Nm (PN = 5.5 kW)



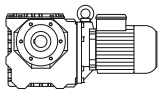
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
17.5	5.5	230	181	1.1	12.77	IE5	**BS20-../S5E09XA4**	11.5	39	78	230	280	134	165	181	181	181	50	3350	-
17.5	5.5	177	235	0.92	16.92	IE5	**BS20-../S5E09XA4**	8.8	29.5	59	177	210	178	215	235	235	235	50	3700	-
17.5	5.5	225	193	1.7	13.29	IE4	**BS30-../S4E11SA6**	11	37.5	75	225	270	193	193	193	193	193	77	3600	-
17.5	5.5	225	193	1.7	13.29	IE5	**BS30-../S5E09XA4**	11	37.5	75	225	270	143	176	193	193	193	68	3600	-
17.5	5.5	177	245	1.5	16.92	IE4	**BS30-../S4E11SA6**	8.8	29.5	59	177	210	245	245	245	245	245	77	3950	-

MN = 17.5 Nm (PN = 5.5 kW)



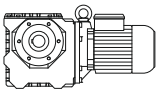
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
17.5	5.5	177	245	1.5	16.92	IE5	**BS30-../S5E09XA4**	8.8	29.5	59	177	210	182	220	245	245	245	68	3950	-
17.5	5.5	143	300	1.2	20.94	IE4	**BS30-../S4E11SA6**	7.1	23.5	47.5	143	171	300	300	300	300	300	77	4300	-
17.5	5.5	143	300	1.2	20.94	IE5	**BS30-../S5E09XA4**	7.1	23.5	47.5	143	171	225	275	300	300	300	68	4300	-
17.5	5.5	124	315	1.2	24.06	IE4	**BS30-../S4E11SA6**	6.2	20.5	41.5	124	149	315	315	315	315	315	77	4600	-
17.5	5.5	124	315	1.2	24.06	IE5	**BS30-../S5E09XA4**	6.2	20.5	41.5	124	149	230	285	315	315	315	68	4600	-
17.5	5.5	110	390	1	27.07	IE4	**BS30-../S4E11SA6**	5.5	18	36.5	110	132	390	390	390	390	390	77	4750	-
17.5	5.5	110	390	1	27.07	IE5	**BS30-../S5E09XA4**	5.5	18	36.5	110	132	290	355	390	390	390	68	4750	-
17.5	5.5	97	400	0.99	30.63	IE4	**BS30-../S4E11SA6**	4.8	16	32.5	97	117	400	400	400	400	400	77	5000	-
17.5	5.5	97	400	0.99	30.63	IE5	**BS30-../S5E09XA4**	4.8	16	32.5	97	117	295	365	400	400	400	68	5000	-
17.5	5.5	89	480	0.87	33.55	IE4	**BS30-../S4E11SA6**	4.4	14.5	29.5	89	107	480	480	480	480	480	77	5200	-
17.5	5.5	89	480	0.87	33.55	IE5	**BS30-../S5E09XA4**	4.4	14.5	29.5	89	107	355	440	480	480	480	68	5200	-
17.5	5.5	79	495	0.84	37.92	IE4	**BS30-../S4E11SA6**	3.9	13	26	79	94	495	495	495	495	495	77	5500	-
17.5	5.5	79	495	0.84	37.92	IE5	**BS30-../S5E09XA4**	3.9	13	26	79	94	365	455	495	495	495	68	5500	-
17.5	5.5	177	250	2.7	16.92	IE4	**BS40-../S4E11SA6**	8.8	29.5	59	177	210	250	250	250	250	250	95	6400	-
17.5	5.5	177	250	2.7	16.92	IE5	**BS40-../S5E09XA4**	8.8	29.5	59	177	210	186	230	250	250	250	81	6400	-
17.5	5.5	142	300	2.3	21.06	IE4	**BS40-../S4E11SA6**	7.1	23.5	47	142	170	300	300	300	300	300	95	6900	-
17.5	5.5	142	300	2.3	21.06	IE5	**BS40-../S5E09XA4**	7.1	23.5	47	142	170	220	275	300	300	300	81	6900	-
17.5	5.5	127	305	2.2	23.59	IE4	**BS40-../S4E11SA6**	6.3	21	42	127	152	305	305	305	305	305	95	7900	-
17.5	5.5	127	305	2.2	23.59	IE5	**BS40-../S5E09XA4**	6.3	21	42	127	152	225	275	305	305	305	81	7900	-
17.5	5.5	114	375	2	26.18	IE4	**BS40-../S4E11SA6**	5.7	19	38	114	137	375	375	375	375	375	95	7500	-
17.5	5.5	114	375	2	26.18	IE5	**BS40-../S5E09XA4**	5.7	19	38	114	137	275	340	375	375	375	81	7500	-
17.5	5.5	97	395	1.9	30.63	IE4	**BS40-../S4E11SA6**	4.8	16	32.5	97	117	395	395	395	395	395	95	8700	-
17.5	5.5	97	395	1.9	30.63	IE5	**BS40-../S5E09XA4**	4.8	16	32.5	97	117	290	360	395	395	395	81	8700	-
17.5	5.5	89	465	1.7	33.35	IE4	**BS40-../S4E11SA6**	4.4	14.5	29.5	89	107	465	465	465	465	465	95	8300	-
17.5	5.5	89	465	1.7	33.35	IE5	**BS40-../S5E09XA4**	4.4	14.5	29.5	89	107	345	425	465	465	465	81	8300	-
17.5	5.5	78	485	1.6	38.13	IE4	**BS40-../S4E11SA6**	3.9	13	26	78	94	485	485	485	485	485	95	9400	-
17.5	5.5	78	485	1.6	38.13	IE5	**BS40-../S5E09XA4**	3.9	13	26	78	94	360	445	485	485	485	81	9400	-
17.5	5.5	74	550	1.4	40.37	IE4	**BS40-../S4E11SA6**	3.7	12	24.5	74	89	550	550	550	550	550	95	9000	-
17.5	5.5	74	550	1.4	40.37	IE5	**BS40-../S5E09XA4**	3.7	12	24.5	74	89	410	510	550	550	550	81	9000	-
17.5	5.5	62	650	1.3	47.69	IE4	**BS40-../S4E11SA6**	3.1	10	20.5	62	75	650	650	650	650	650	95	9600	-
17.5	5.5	62	650	1.3	47.69	IE5	**BS40-../S5E09XA4**	3.1	10	20.5	62	75	480	590	650	650	650	81	9600	-
17.5	5.5	49.5	750	1.1	60.38	IE4	**BS40-../S4E11SA6**	2.4	8.2	16.5	49.5	59	750	750	750	750	750	95	11200	-
17.5	5.5	49.5	750	1.1	60.38	IE5	**BS40-../S5E09XA4**	2.4	8.2	16.5	49.5	59	550	680	750	750	750	81	11200	-
17.5	5.5	41	890	0.98	73.09	IE4	**BS40-../S4E11SA6**	2	6.8	13.5	41	49	890	890	890	890	890	95	12100	-
17.5	5.5	41	890	0.98	73.09	IE5	**BS40-../S5E09XA4**	2	6.8	13.5	41	49	660	810	890	890	890	81	12100	-
17.5	5.5	34.5	1040	0.86	86.33	IE4	**BS40-../S4E11SA6**	1.7	5.7	11.5	34.5	41.5	1040	1040	1040	1040	1040	95	12900	-
17.5	5.5	34.5	1040	0.86	86.33	IE5	**BS40-../S5E09XA4**	1.7	5.7	11.5	34.5	41.5	770	950	1040	1040	1040	81	12900	-

MN = 20 Nm (PN = 6.3 kW)



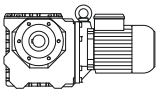
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
20	6.3	230	205	0.97	12.77	IE5	**BS20-../S5E09XA4**	11.5	39	78	230	280	134	165	205	205	181	50	3350	-
20	6.3	177	270	0.8	16.92	IE5	**BS20-../S5E09XA4**	8.8	29.5	59	177	210	178	215	270	270	235	50	3700	-
20	6.3	225	220	1.5	13.29	IE5	**BS30-../S5E09XA4**	11	37.5	75	225	270	143	176	220	220	193	68	3600	-
20	6.3	177	280	1.3	16.92	IE5	**BS30-../S5E09XA4**	8.8	29.5	59	177	210	182	220	280	280	245	68	3950	-
20	6.3	143	345	1.1	20.94	IE5	**BS30-../S5E09XA4**	7.1	23.5	47.5	143	171	225	275	345	345	300	68	4300	-
20	6.3	124	360	1	24.06	IE5	**BS30-../S5E09XA4**	6.2	20.5	41.5	124	149	230	285	360	360	315	68	4600	-
20	6.3	110	445	0.89	27.07	IE5	**BS30-../S5E09XA4**	5.5	18	36.5	110	132	290	355	445	445	390	68	4750	-
20	6.3	97	455	0.87	30.63	IE5	**BS30-../S5E09XA4**	4.8	16	32.5	97	117	295	365	455	455	400	68	5000	-
20	6.3	230	220	2.8	13.03	IE5	**BS40-../S5E09XA4**	11.5	38	76	230	275	143	177	220	220	193	81	5800	-
20	6.3	177	285	2.3	16.92	IE5	**BS40-../S5E09XA4**	8.8	29.5	59	177	210	186	230	285	285	250	81	6400	-
20	6.3	142	345	2.1	21.06	IE5	**BS40-../S5E09XA4**	7.1	23.5	47	142	170	220	275	345	345	300	81	6900	-
20	6.3	127	345	2	23.59	IE5	**BS40-../S5E09XA4**	6.3	21	42	127	152	225	275	345	345	305	81	7900	-
20	6.3	114	425	1.7	26.18	IE5	**BS40-../S5E09XA4**	5.7	19	38	114	137	275	340	425	425	375	81	7500	-
20	6.3	97	450	1.7	30.63	IE5	**BS40-../S5E09XA4**	4.8	16	32.5	97	117	290	360	450	450	395	81	8700	-
20	6.3	89	530	1.5	33.35	IE5	**BS40-../S5E09XA4**	4.4	14.5	29.5	89	107	345	425	530	530	465	81	8300	-
20	6.3	78	550	1.4	38.13	IE5	**BS40-../S5E09XA4**	3.9	13	26	78	94	360	445	550	550	485	81	9400	-
20	6.3	74	630	1.3	40.37	IE5	**BS40-../S5E09XA4**	3.7	12	24.5	74	89	410	510	630	630	550	81	9000	-
20	6.3	62	740	1.1	47.69	IE5	**BS40-../S5E09XA4**	3.1	10	20.5	62	75	480	590	740	740	650	81	9600	-
20	6.3	49.5	850	1	60.38	IE5	**BS40-../S5E09XA4**	2.4	8.2	16.5	49.5	59	550	680	850	850	750	81	11200	-
20	6.3	41	1020	0.86	73.09	IE5	**BS40-../S5E09XA4**	2	6.8	13.5	41	49	660	810	1020	1020	890	81	12100	-

MN = 24 Nm (PN = 7.5 kW)



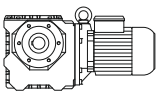
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
24	7.5	225	260	1.3	13.29	IE4	**BS30-../S4E11SA6**	11	37.5	75	225	270	205	235	260	260	260	77	3600	-
24	7.5	225	260	1.3	13.29	IE5	**BS30-../S5E11MA6**	11	37.5	75	225	270	260	260	260	260	260	77	3600	-
24	7.5	177	335	1.1	16.92	IE4	**BS30-../S4E11SA6**	8.8	29.5	59	177	210	265	300	335	335	335	77	3950	-
24	7.5	177	335	1.1	16.92	IE5	**BS30-../S5E11MA6**	8.8	29.5	59	177	210	335	335	335	335	335	77	3950	-
24	7.5	143	415	0.91	20.94	IE4	**BS30-../S4E11SA6**	7.1	23.5	47.5	143	171	330	370	415	415	415	77	4300	-
24	7.5	143	415	0.91	20.94	IE5	**BS30-../S5E11MA6**	7.1	23.5	47.5	143	171	415	415	415	415	415	77	4300	-
24	7.5	124	430	0.85	24.06	IE4	**BS30-../S4E11SA6**	6.2	20.5	41.5	124	149	340	385	430	430	430	77	4600	-
24	7.5	124	430	0.85	24.06	IE5	**BS30-../S5E11MA6**	6.2	20.5	41.5	124	149	430	430	430	430	430	77	4600	-
24	7.5	230	265	2.3	13.03	IE4	**BS40-../S4E11SA6**	11.5	38	76	230	275	210	235	265	265	265	95	5800	-
24	7.5	230	265	2.3	13.03	IE5	**BS40-../S5E11MA6**	11.5	38	76	230	275	265	265	265	265	265	95	5800	-
24	7.5	177	345	1.9	16.92	IE4	**BS40-../S4E11SA6**	8.8	29.5	59	177	210	270	305	345	345	345	95	6400	-
24	7.5	177	345	1.9	16.92	IE5	**BS40-../S5E11MA6**	8.8	29.5	59	177	210	345	345	345	345	345	95	6400	-
24	7.5	142	410	1.7	21.06	IE4	**BS40-../S4E11SA6**	7.1	23.5	47	142	170	325	370	410	410	410	95	6900	-
24	7.5	142	410	1.7	21.06	IE5	**BS40-../S5E11MA6**	7.1	23.5	47	142	170	410	410	410	410	410	95	6900	-
24	7.5	127	415	1.6	23.59	IE4	**BS40-../S4E11SA6**	6.3	21	42	127	152	330	375	415	415	415	95	7900	-
24	7.5	127	415	1.6	23.59	IE5	**BS40-../S5E11MA6**	6.3	21	42	127	152	415	415	415	415	415	95	7900	-
24	7.5	114	510	1.4	26.18	IE4	**BS40-../S4E11SA6**	5.7	19	38	114	137	405	460	510	510	510	95	7500	-
24	7.5	114	510	1.4	26.18	IE5	**BS40-../S5E11MA6**	5.7	19	38	114	137	510	510	510	510	510	95	7500	-
24	7.5	97	540	1.4	30.63	IE4	**BS40-../S4E11SA6**	4.8	16	32.5	97	117	430	485	540	540	540	95	8700	-
24	7.5	97	540	1.4	30.63	IE5	**BS40-../S5E11MA6**	4.8	16	32.5	97	117	540	540	540	540	540	95	8700	-
24	7.5	89	640	1.2	33.35	IE4	**BS40-../S4E11SA6**	4.4	14.5	29.5	89	107	500	570	640	640	640	95	8300	-
24	7.5	89	640	1.2	33.35	IE5	**BS40-../S5E11MA6**	4.4	14.5	29.5	89	107	640	640	640	640	640	95	8300	-
24	7.5	78	660	1.2	38.13	IE4	**BS40-../S4E11SA6**	3.9	13	26	78	94	520	590	660	660	660	95	9400	-
24	7.5	78	660	1.2	38.13	IE5	**BS40-../S5E11MA6**	3.9	13	26	78	94	660	660	660	660	660	95	9400	-
24	7.5	74	760	1	40.37	IE4	**BS40-../S4E11SA6**	3.7	12	24.5	74	89	600	680	760	760	760	95	9000	-
24	7.5	74	760	1	40.37	IE5	**BS40-../S5E11MA6**	3.7	12	24.5	74	89	760	760	760	760	760	95	9000	-
24	7.5	62	890	0.93	47.69	IE4	**BS40-../S4E11SA6**	3.1	10	20.5	62	75	700	790	890	890	890	95	9600	-
24	7.5	62	890	0.93	47.69	IE5	**BS40-../S5E11MA6**	3.1	10	20.5	62	75	890	890	890	890	890	95	9600	-
24	7.5	49.5	1020	0.84	60.38	IE4	**BS40-../S4E11SA6**	2.4	8.2	16.5	49.5	59	810	920	1020	1020	1020	95	11200	-
24	7.5	49.5	1020	0.84	60.38	IE5	**BS40-../S5E11MA6**	2.4	8.2	16.5	49.5	59	1020	1020	1020	1020	1020	95	11200	-

MN = 30 Nm (PN = 9.5 kW)



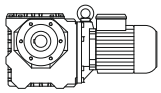
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
30	9.5	225	330	1	13.29	IE5	**BS30-../S5E11LA6**	11	37.5	75	225	270	330	330	330	330	330	89	3600	-
30	9.5	225	330	1	13.29	IE5	**BS30-../S5E11MA6**	11	37.5	75	225	270	290	330	330	330	330	77	3600	-
30	9.5	177	420	0.85	16.92	IE5	**BS30-../S5E11LA6**	8.8	29.5	59	177	210	420	420	420	420	420	89	3950	-
30	9.5	177	420	0.85	16.92	IE5	**BS30-../S5E11MA6**	8.8	29.5	59	177	210	370	420	420	420	420	77	3950	-
30	9.5	230	330	1.8	13.03	IE5	**BS40-../S5E11LA6**	11.5	38	76	230	275	330	330	330	330	330	107	5800	-
30	9.5	230	330	1.8	13.03	IE5	**BS40-../S5E11MA6**	11.5	38	76	230	275	290	330	330	330	330	95	5800	-
30	9.5	177	430	1.6	16.92	IE5	**BS40-../S5E11LA6**	8.8	29.5	59	177	210	430	430	430	430	430	107	6400	-
30	9.5	177	430	1.6	16.92	IE5	**BS40-../S5E11MA6**	8.8	29.5	59	177	210	380	430	430	430	430	95	6400	-
30	9.5	142	510	1.4	21.06	IE5	**BS40-../S5E11LA6**	7.1	23.5	47	142	170	510	510	510	510	510	107	6900	-
30	9.5	142	510	1.4	21.06	IE5	**BS40-../S5E11MA6**	7.1	23.5	47	142	170	455	510	510	510	510	95	6900	-
30	9.5	127	520	1.3	23.59	IE5	**BS40-../S5E11LA6**	6.3	21	42	127	152	520	520	520	520	520	107	7900	-
30	9.5	127	520	1.3	23.59	IE5	**BS40-../S5E11MA6**	6.3	21	42	127	152	460	520	520	520	520	95	7900	-
30	9.5	114	640	1.1	26.18	IE5	**BS40-../S5E11LA6**	5.7	19	38	114	137	640	640	640	640	640	107	7500	-
30	9.5	114	640	1.1	26.18	IE5	**BS40-../S5E11MA6**	5.7	19	38	114	137	560	640	640	640	640	95	7500	-
30	9.5	97	670	1.1	30.63	IE5	**BS40-../S5E11LA6**	4.8	16	32.5	97	117	670	670	670	670	670	107	8700	-
30	9.5	97	670	1.1	30.63	IE5	**BS40-../S5E11MA6**	4.8	16	32.5	97	117	600	670	670	670	670	95	8700	-
30	9.5	89	800	0.97	33.35	IE5	**BS40-../S5E11LA6**	4.4	14.5	29.5	89	107	800	800	800	800	800	107	8300	-
30	9.5	89	800	0.97	33.35	IE5	**BS40-../S5E11MA6**	4.4	14.5	29.5	89	107	700	800	800	800	800	95	8300	-
30	9.5	78	830	0.93	38.13	IE5	**BS40-../S5E11LA6**	3.9	13	26	78	94	830	830	830	830	830	107	9400	-
30	9.5	78	830	0.93	38.13	IE5	**BS40-../S5E11MA6**	3.9	13	26	78	94	730	830	830	830	830	95	9400	-
30	9.5	74	950	0.84	40.37	IE5	**BS40-../S5E11LA6**	3.7	12	24.5	74	89	950	950	950	950	950	107	9000	-
30	9.5	74	950	0.84	40.37	IE5	**BS40-../S5E11MA6**	3.7	12	24.5	74	89	840	950	950	950	950	95	9000	-

MN = 35 Nm (PN = 11 kW)



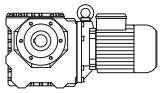
M_N	P_N	n_2	M_2	f_B	i	IE-Classe	Type	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
35	11	225	385	0.86	13.29	IE4	**BS30-../S4E11MA6**	11	37.5	75	225	270	290	330	385	385	385	77	3600	-
35	11	225	385	0.86	13.29	IE5	**BS30-../S5E11LA6**	11	37.5	75	225	270	385	385	385	385	385	89	3600	-
35	11	230	385	1.6	13.03	IE4	**BS40-../S4E11MA6**	11.5	38	76	230	275	290	330	385	385	385	95	5800	-
35	11	230	385	1.6	13.03	IE5	**BS40-../S5E11LA6**	11.5	38	76	230	275	385	385	385	385	385	107	5800	-
35	11	177	500	1.3	16.92	IE4	**BS40-../S4E11MA6**	8.8	29.5	59	177	210	380	430	500	500	500	95	6400	-
35	11	177	500	1.3	16.92	IE5	**BS40-../S5E11LA6**	8.8	29.5	59	177	210	500	500	500	500	500	107	6400	-

MN = 35 Nm (PN = 11 kW)

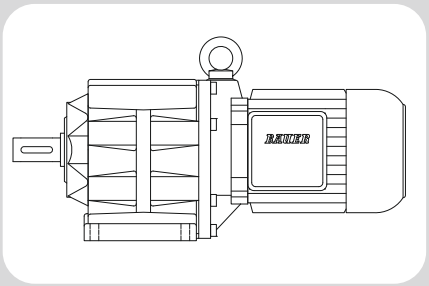


M_N	P_N	n_2	M_2	f_B	i	IE-Classe	**Type**	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
35	11	142	600	1.2	21.06	IE4	**BS40-../S4E11MA6**	7.1	23.5	47	142	170	455	510	600	600	600	95	6900	-
35	11	142	600	1.2	21.06	IE5	**BS40-../S5E11LA6**	7.1	23.5	47	142	170	600	600	600	600	600	107	6900	-
35	11	127	610	1.1	23.59	IE4	**BS40-../S4E11MA6**	6.3	21	42	127	152	460	520	610	610	610	95	7900	-
35	11	127	610	1.1	23.59	IE5	**BS40-../S5E11LA6**	6.3	21	42	127	152	610	610	610	610	610	107	7900	-
35	11	114	750	0.98	26.18	IE4	**BS40-../S4E11MA6**	5.7	19	38	114	137	560	640	750	750	750	95	7500	-
35	11	114	750	0.98	26.18	IE5	**BS40-../S5E11LA6**	5.7	19	38	114	137	750	750	750	750	750	107	7500	-
35	11	97	790	0.95	30.63	IE4	**BS40-../S4E11MA6**	4.8	16	32.5	97	117	600	670	790	790	790	95	8700	-
35	11	97	790	0.95	30.63	IE5	**BS40-../S5E11LA6**	4.8	16	32.5	97	117	790	790	790	790	790	107	8700	-
35	11	89	930	0.84	33.35	IE4	**BS40-../S4E11MA6**	4.4	14.5	29.5	89	107	700	800	930	930	930	95	8300	-
35	11	89	930	0.84	33.35	IE5	**BS40-../S5E11LA6**	4.4	14.5	29.5	89	107	930	930	930	930	930	107	8300	-
35	11	78	970	0.8	38.13	IE4	**BS40-../S4E11MA6**	3.9	13	26	78	94	730	830	970	970	970	95	9400	-
35	11	78	970	0.8	38.13	IE5	**BS40-../S5E11LA6**	3.9	13	26	78	94	970	970	970	970	970	107	9400	-

MN = 48 Nm (PN = 15 kW)



M_N	P_N	n_2	M_2	f_B	i	IE-Classe	**Type**	Speed range n_2 [1/min] at engine speed n_1 [1/min]					Torque range M_2 [Nm] at engine speed n_1 [1/min]					m	F_{RN}	F_{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
48	15	230	530	1.2	13.03	IE5	**BS40-../S5E11LA6**	11.5	38	76	230	275	385	440	530	530	440	107	5800	-
48	15	177	690	0.97	16.92	IE5	**BS40-../S5E11LA6**	8.8	29.5	59	177	210	500	570	690	690	570	107	6400	-
48	15	142	820	0.86	21.06	IE5	**BS40-../S5E11LA6**	7.1	23.5	47	142	170	600	690	820	820	690	107	6900	-
48	15	127	830	0.82	23.59	IE5	**BS40-../S5E11LA6**	6.3	21	42	127	152	610	690	830	830	690	107	7900	-



10

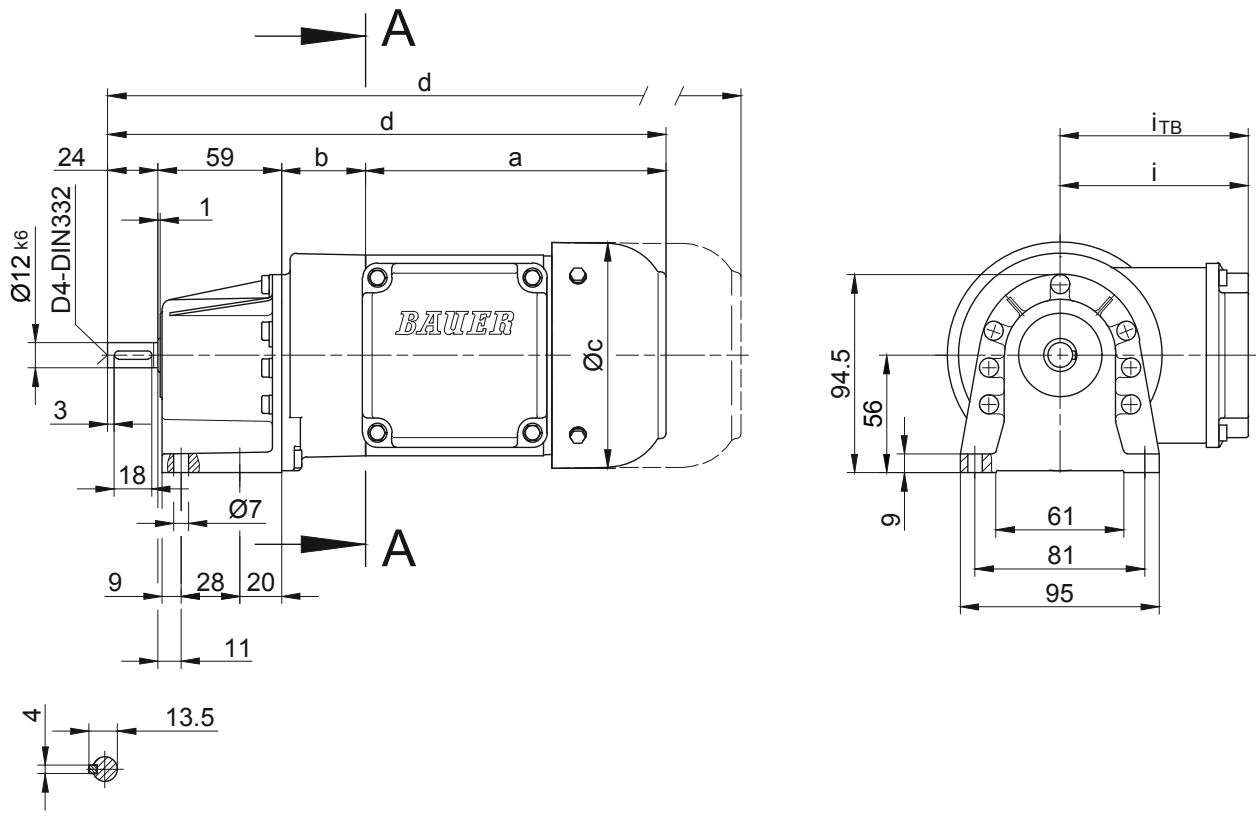
BG-series helical-geared motors - Dimensions

Dimension - Standard 293
BG04 293
BG05 294
BG06 295
BG10-BG10Z 296
BG10X-BG10XZ 298
BG15 301
BG20-BG20Z 302
BG30-BG30Z 304
BG40-BG40Z 306
BG50-BG50Z 308
BG60-BG60Z 310
BG70 - BG70Z 312
BG80-BG80Z 314
BG90-BG90Z 316
BG100-BG100Z 318
Dimension - Tandem Gearbox 321
BG06G04 321
BG10G06 322
BG10XG06 324
BG20G06 326
BG30G06 328
BG40G10 330
BG50G10 332
BG60G20 334
BG70G20 336
BG80G40 338
BG90G50 340
BG100G50 342

BG04

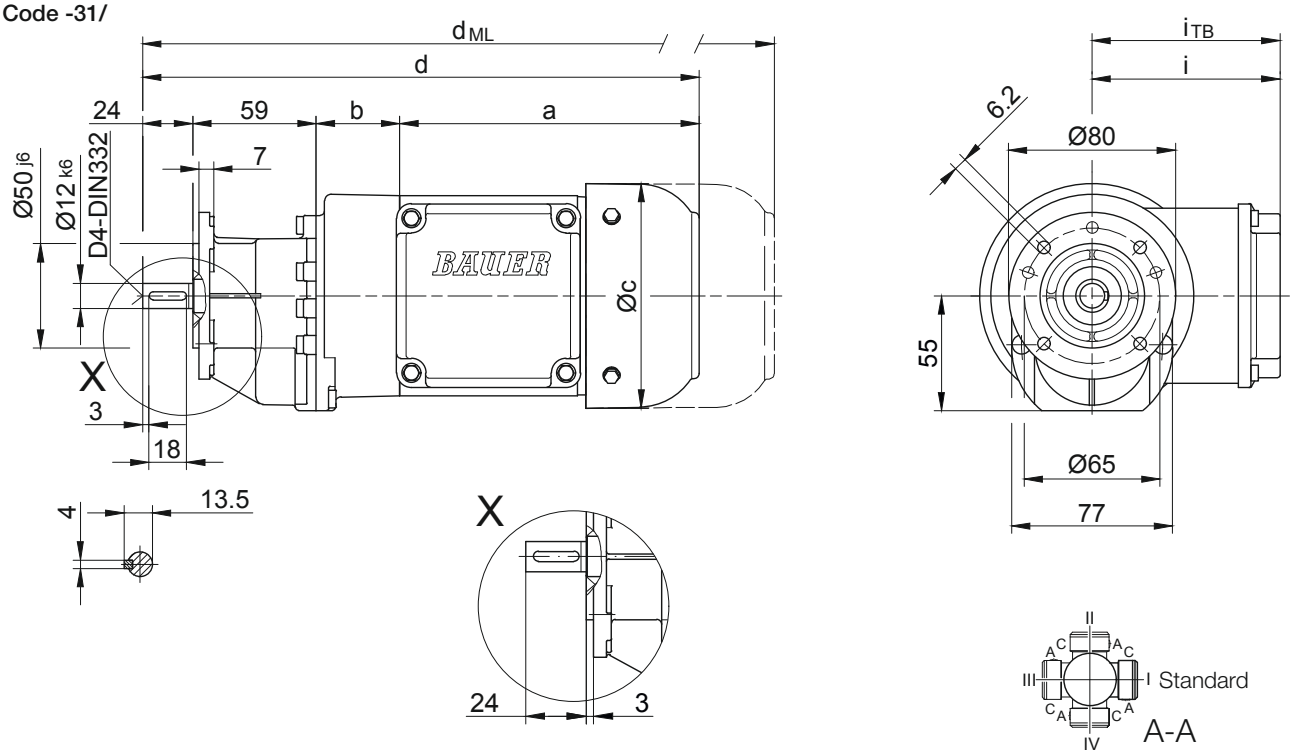
Foot mounting

Code -11/



Flange with clearance holes

Code -31/



Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BG04-../S04S	142.5	40	110.5	265.5	90	112	309	353	396.5	-
Dimensions in millimetres (mm)										

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

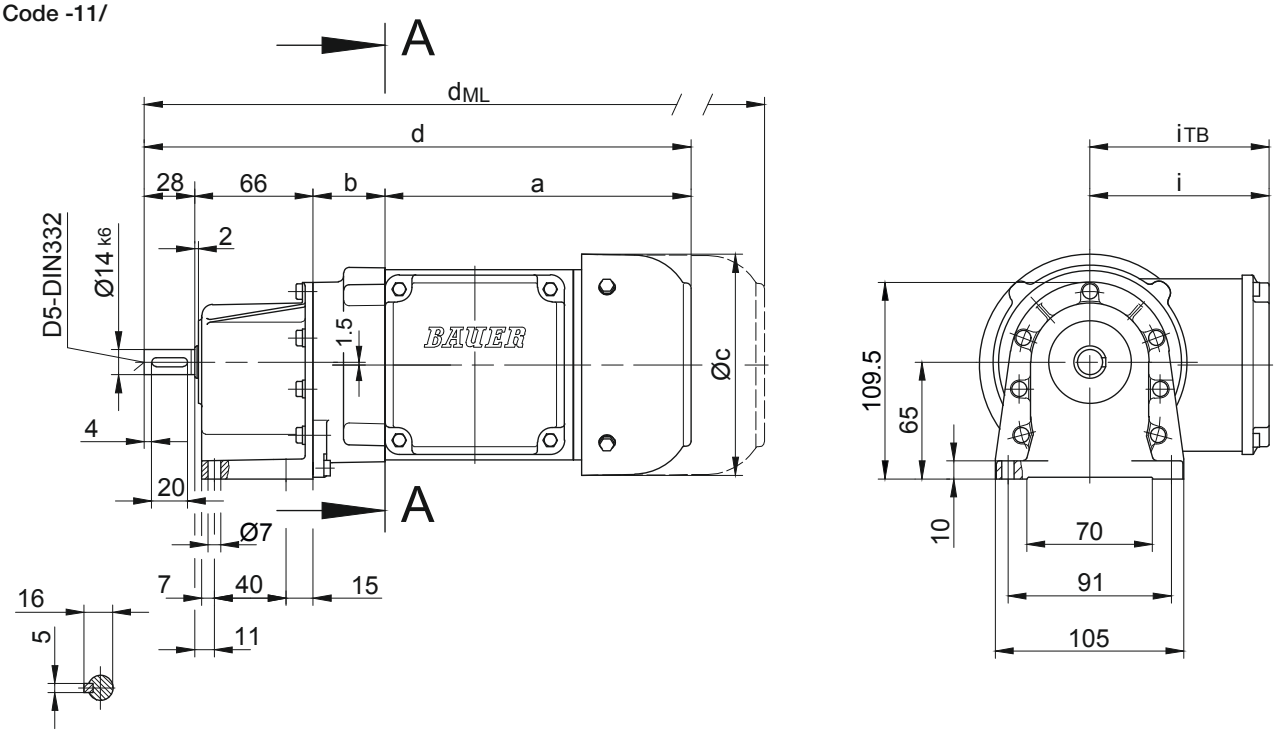
BG-series helical-geared motors

Dimension - Standard

BG05

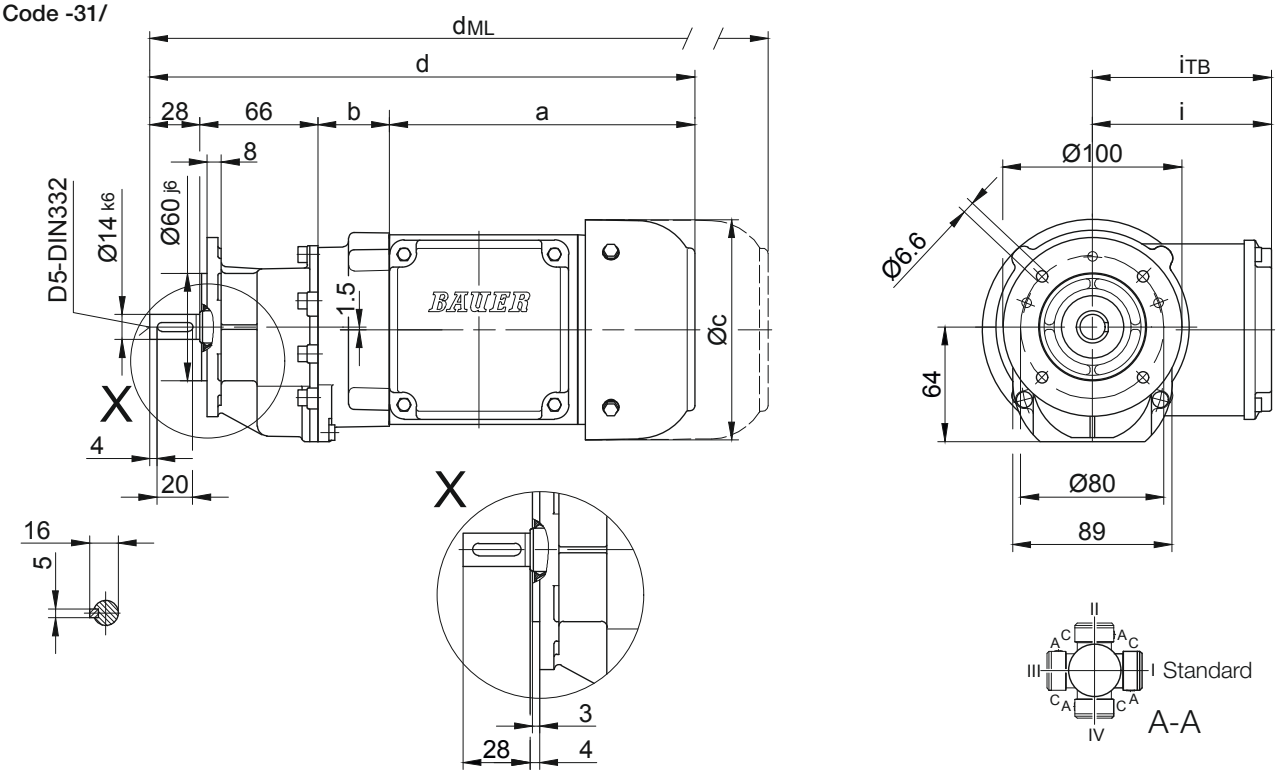
Foot mounting

Code -11/



Flange with clearance holes

Code -31/



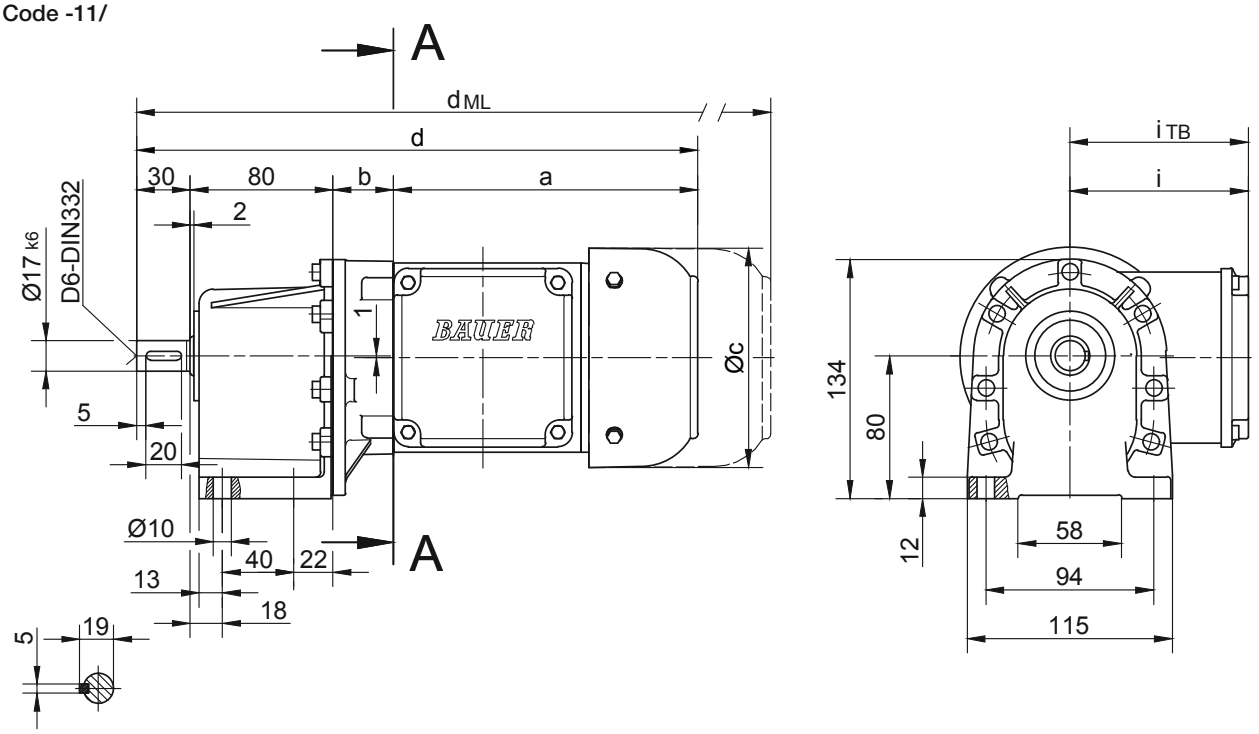
Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BG05-../S04S	142.5	38	110.5	274.5	90	112	318	362	405.5	-
BG05-../S..06 (M, L)	170.5	40	123	304.5	99	119	346.5	407	444.5	-

Dimensions in millimetres (mm)

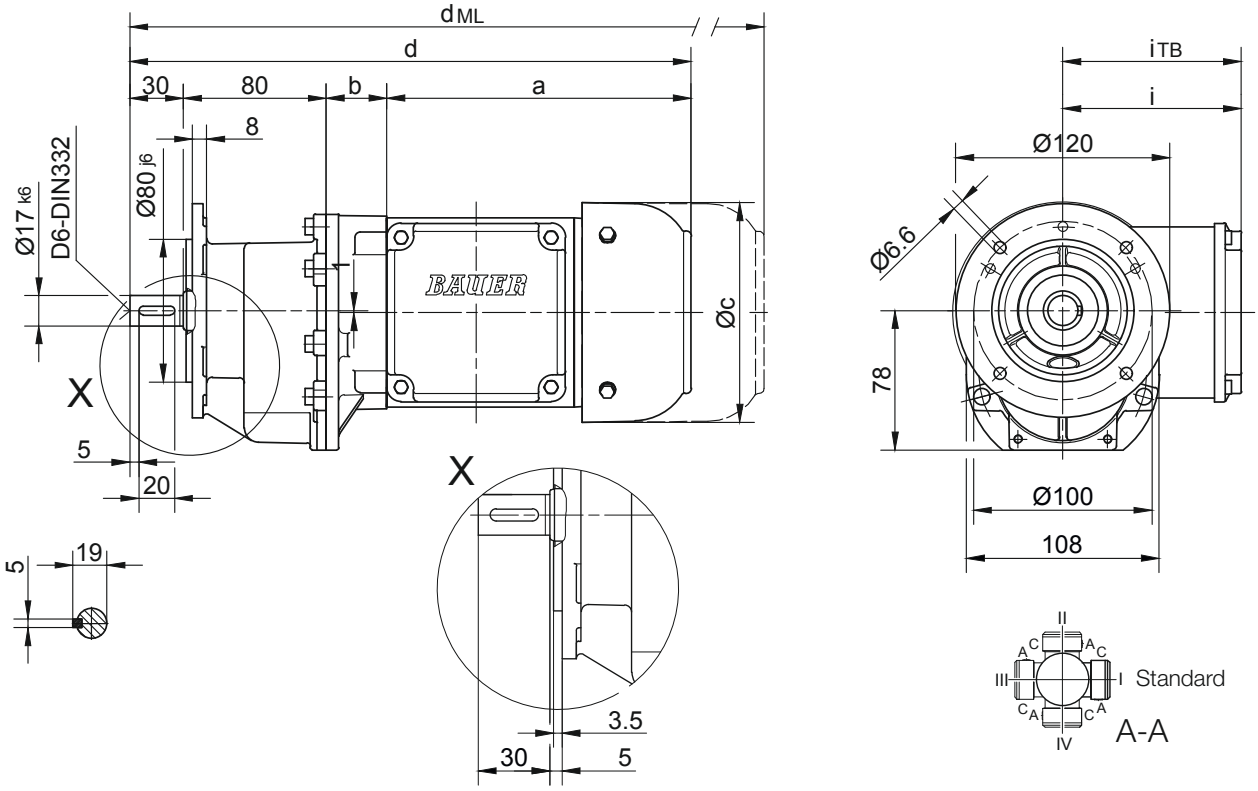
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG06

Foot mounting
Code -11/



Flange with clearance holes
Code -31/



Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BG06-../S04S	142.5	32	110.5	284.5	90	112	328	372	415.5	-
BG06-../S..06 (M, L)	170.5	34	123	314.5	99	119	356.5	417	454.5	-
BG06-../S..08 (M, L)	199.5	78	156	387.5	114.5	136.5	453.5	499.5	561	-
Dimensions in millimetres (mm)										

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

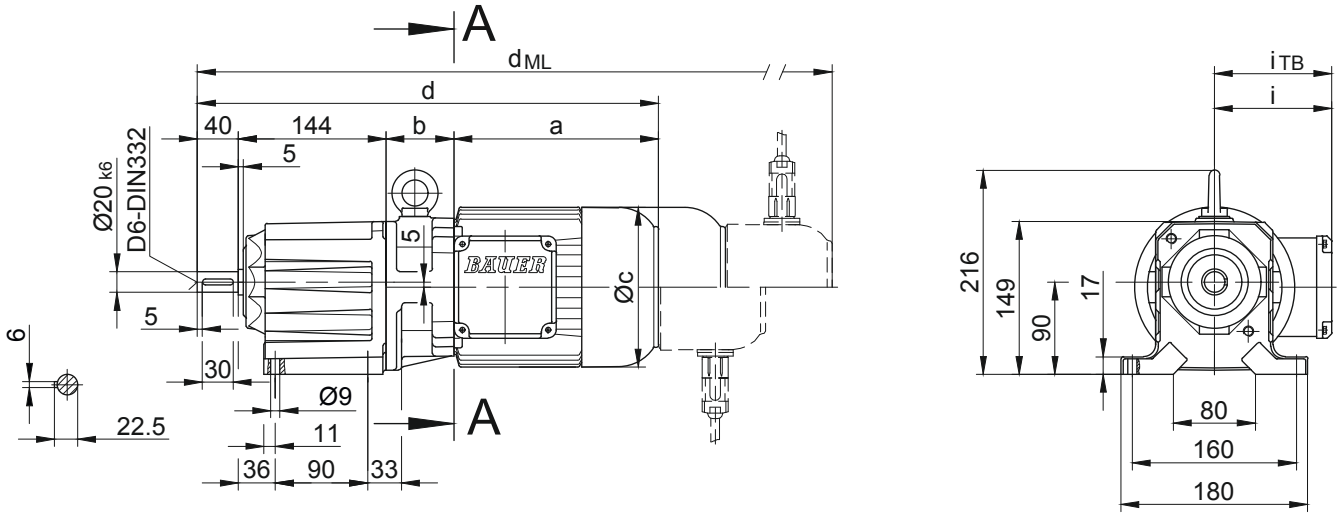
BG-series helical-geared motors

Dimension - Standard

BG10-BG10Z

Foot mounting with clearance holes

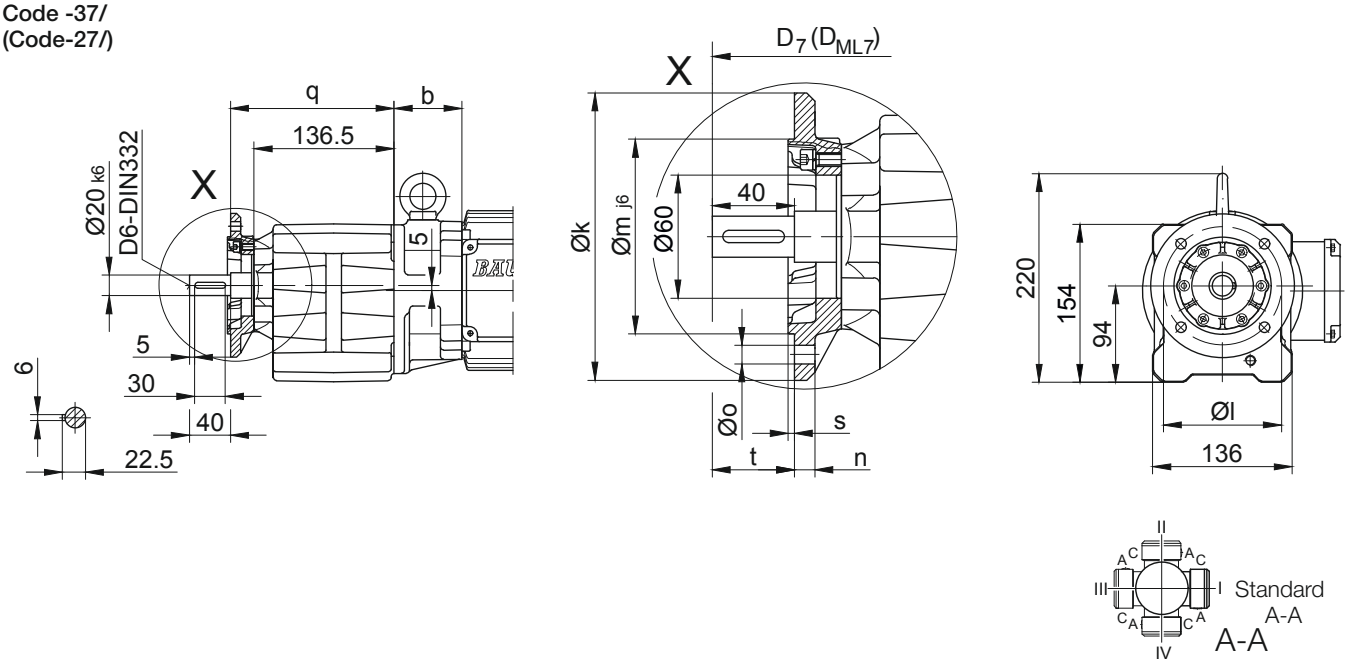
Code -11/



Flange with clearance holes

Code -37/

(Code-27/)



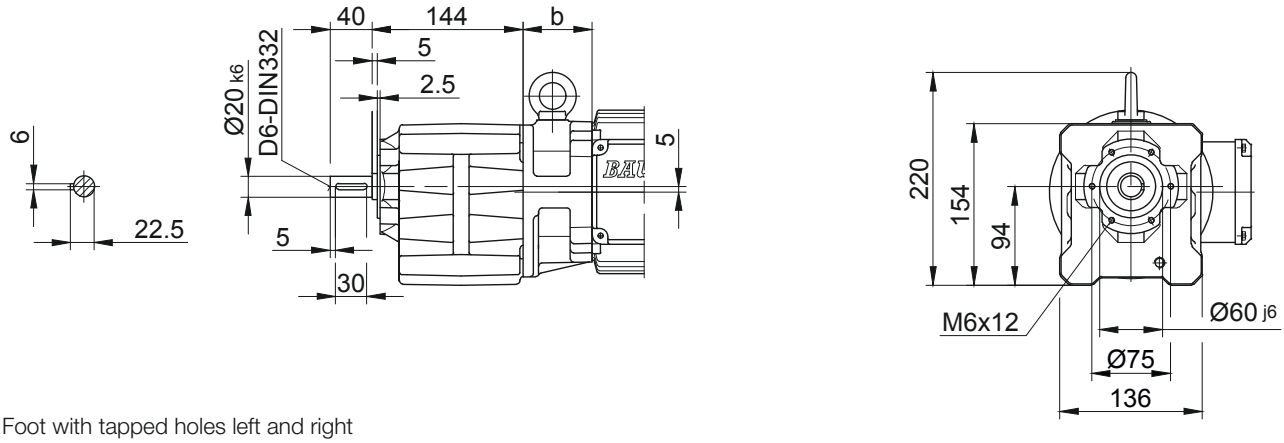
Flange Dimensions											
Type	Design	k	l	m	n	o	q	s	t	D_7	D_{ML7}
BG10..	Code -37V/	140	115	95	10	9	159.5	3	40.5	d+15.5	d_{ML}+15.5
BG10..	Code -27V/	120	100	80	8	6.6	154.5	3	45.5	d+15.5	d_{ML}+15.5
Dimensions in millimetres (mm)											

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BG10Z-../S04S	142.5	86	110.5	412.5	90	112	456	500	543.5	-
BG10-../S..06 (M, L)	170.5	62	123	416.5	99	119	458.5	519	556.5	-
BG10Z-../S..06 (M, L)	170.5	88	123	442.5	99	119	484.5	545	582.5	-
BG10-../S..08 (M, L)	199.5	66	156	449.5	114.5	136.5	515.5	561.5	623	-
BG10Z-../S..08 (M, L)	199.5	132	156	515.5	114.5	136.5	581.5	627.5	689	-
BG10-../S..09 (S, X)	250.5	80.5	176	515	124	157	608	622.5	712	-
Dimensions in millimetres (mm)										

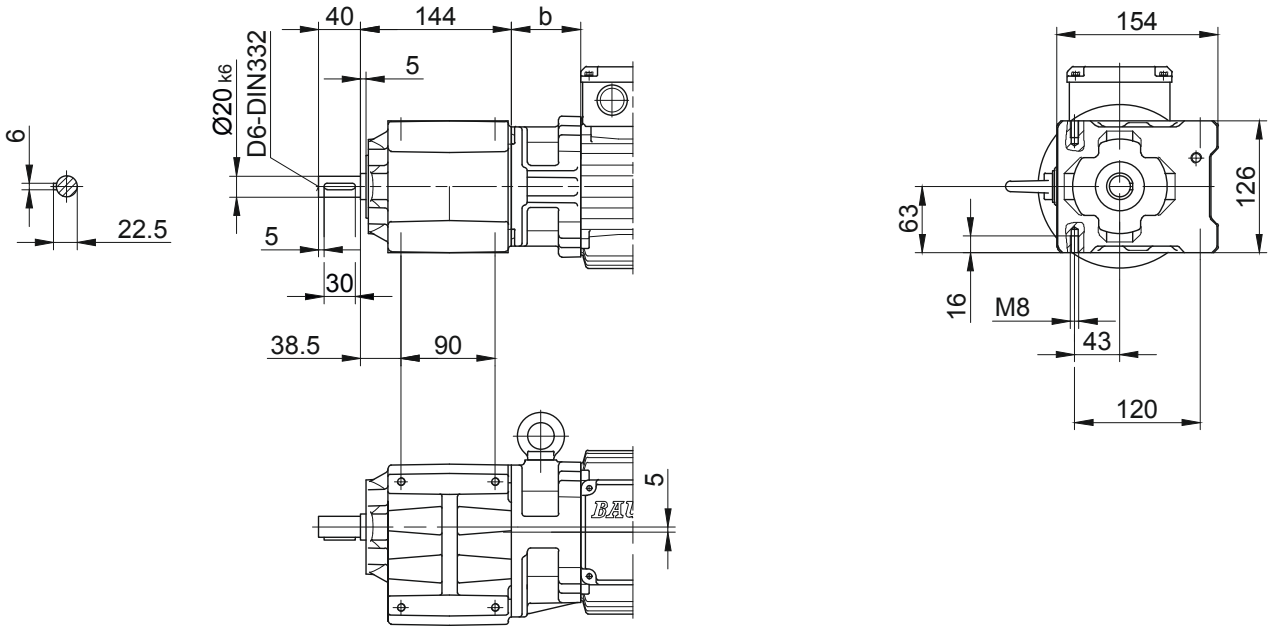
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG10-BG10Z

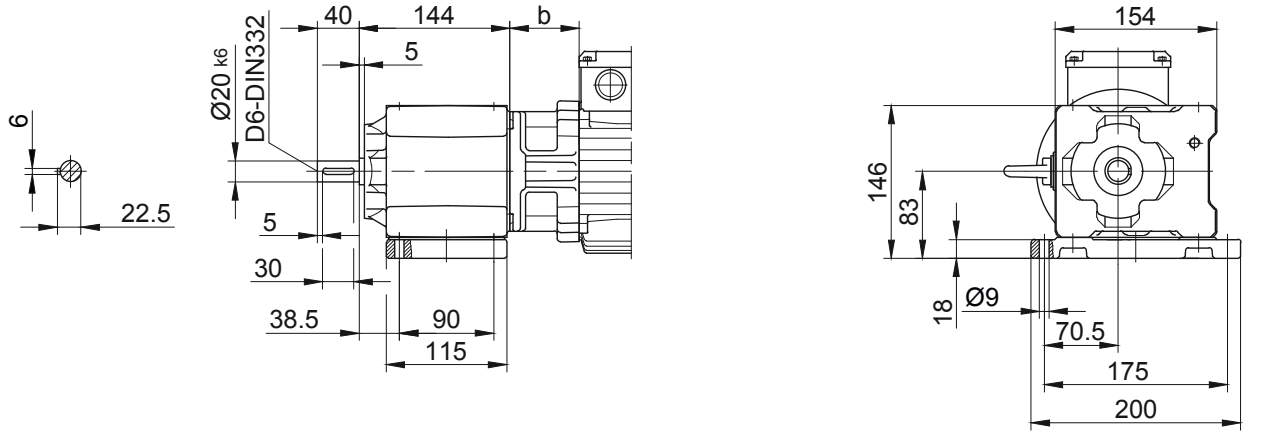
Flange with tapped holes
Code -71/



Foot with tapped holes left and right
Code -61LR/



Foot plate left
Code -91L/



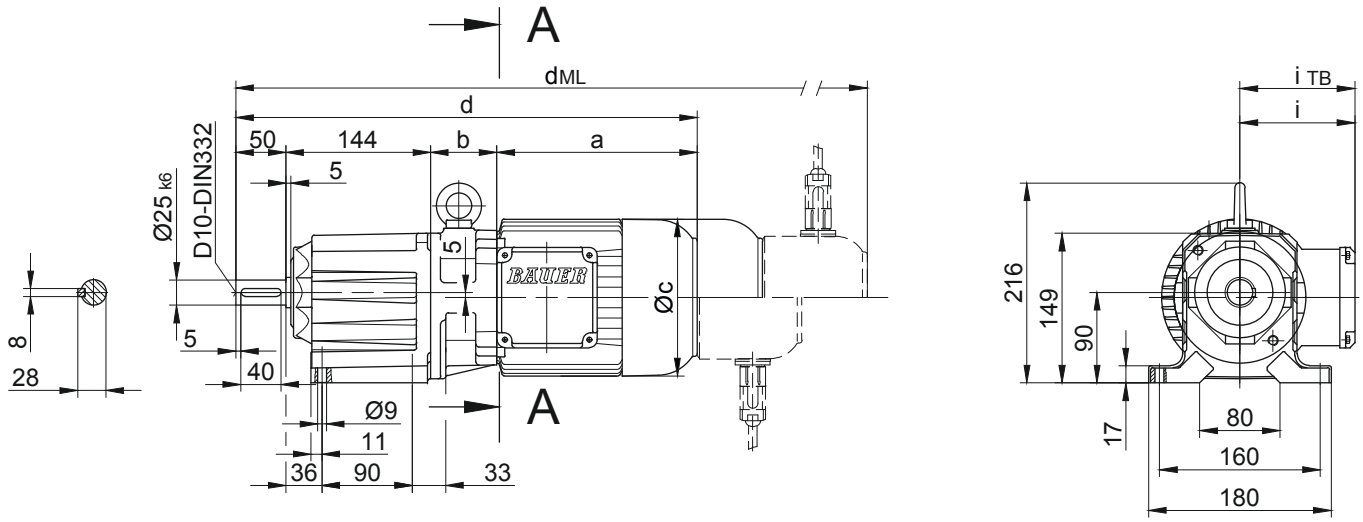
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG-series helical-geared motors

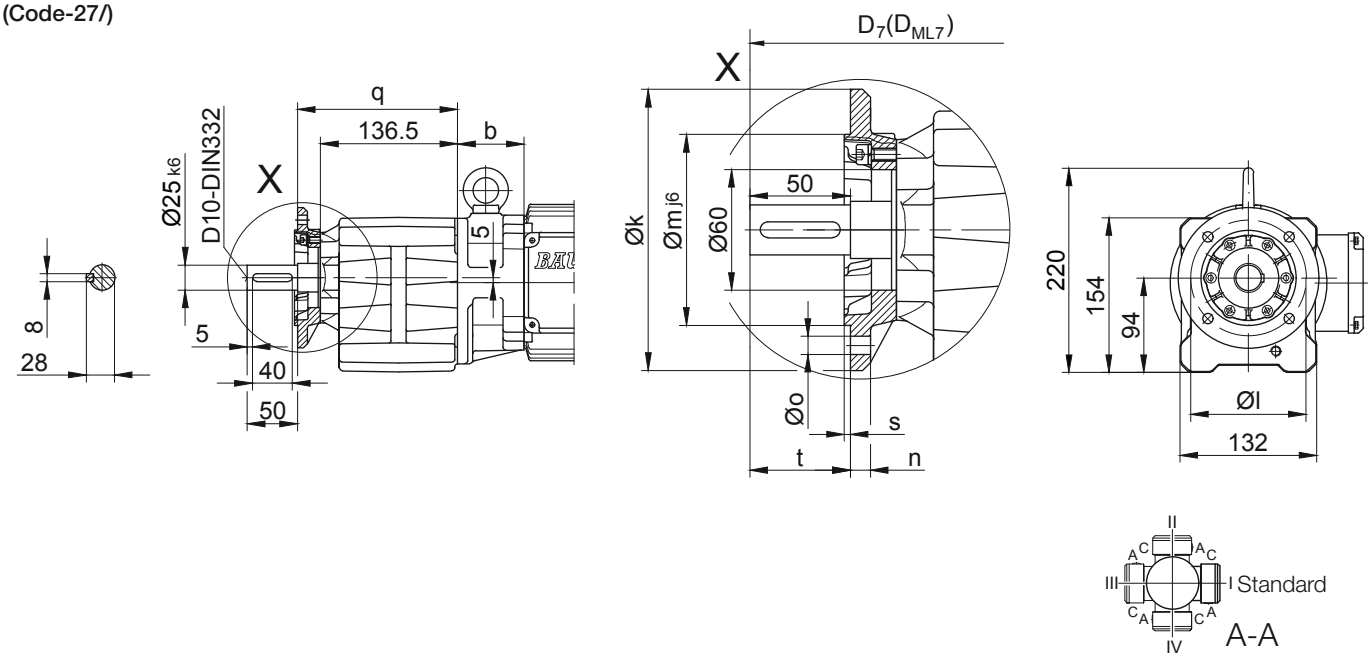
Dimension - Standard

BG10X-BG10XZ

Foot mounting with clearance holes
Code -11/



Flange with clearance holes
Code -37/
(Code-27/)



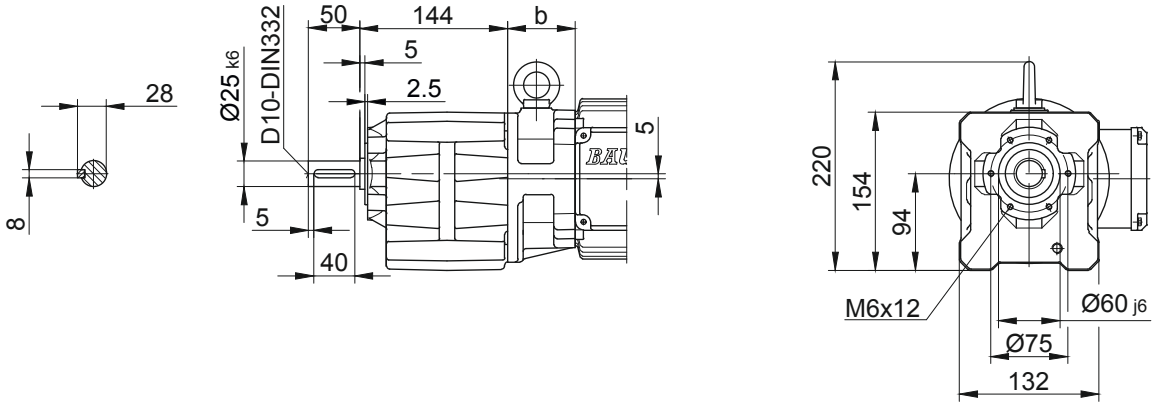
Flange Dimensions											
Type	Design	k	l	m	n	o	q	s	t	D_7	D_{ML7}
BG10X..	Code -37V/	140	115	95	10	9	159.5	3	50.5	d+15.5	d_{ML}+15.5
BG10X..	Code -27V/	120	100	80	8	6.6	154.5	3	55.5	d+15.5	d_{ML}+15.5
Dimensions in millimetres (mm)											

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BG10XZ-../S04S	142.5	86	110.5	422.5	90	112	466	510	553.5	-
BG10X-../S..06 (M, L)	170.5	62	123	426.5	99	119	468.5	529	566.5	-
BG10XZ-../S..06 (M, L)	170.5	88	123	452.5	99	119	494.5	555	592.5	-
BG10X-../S..08 (M, L)	199.5	66	156	459.5	114.5	136.5	525.5	571.5	633	-
BG10XZ-../S..08 (M, L)	199.5	132	156	525.5	114.5	136.5	591.5	637.5	699	-
BG10X-../S..09 (S, X)	250.5	80.5	176	525	124	157	618	632.5	722	-
Dimensions in millimetres (mm)										

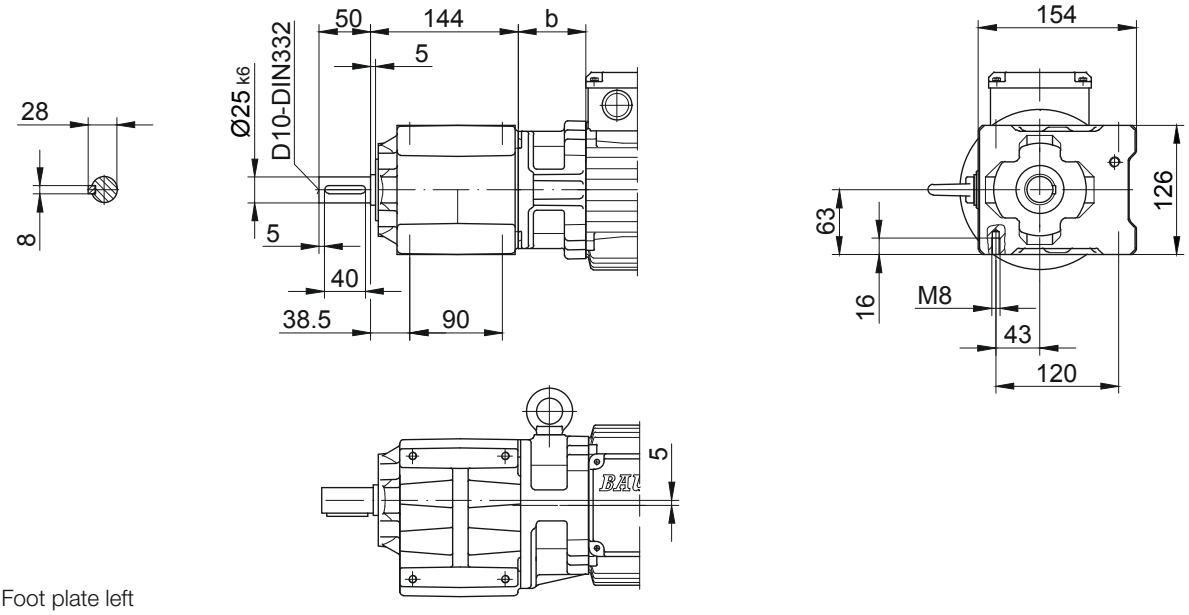
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG10X-BG10XZ

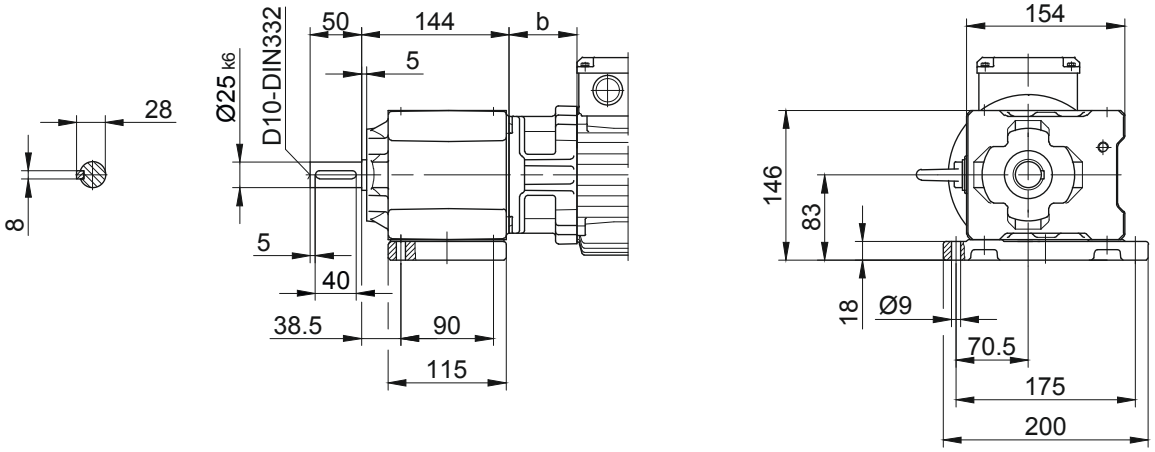
Flange with tapped holes
Code -71/



Foot with tapped holes left and right
Code -61LR/



Foot plate left
Code -91L/

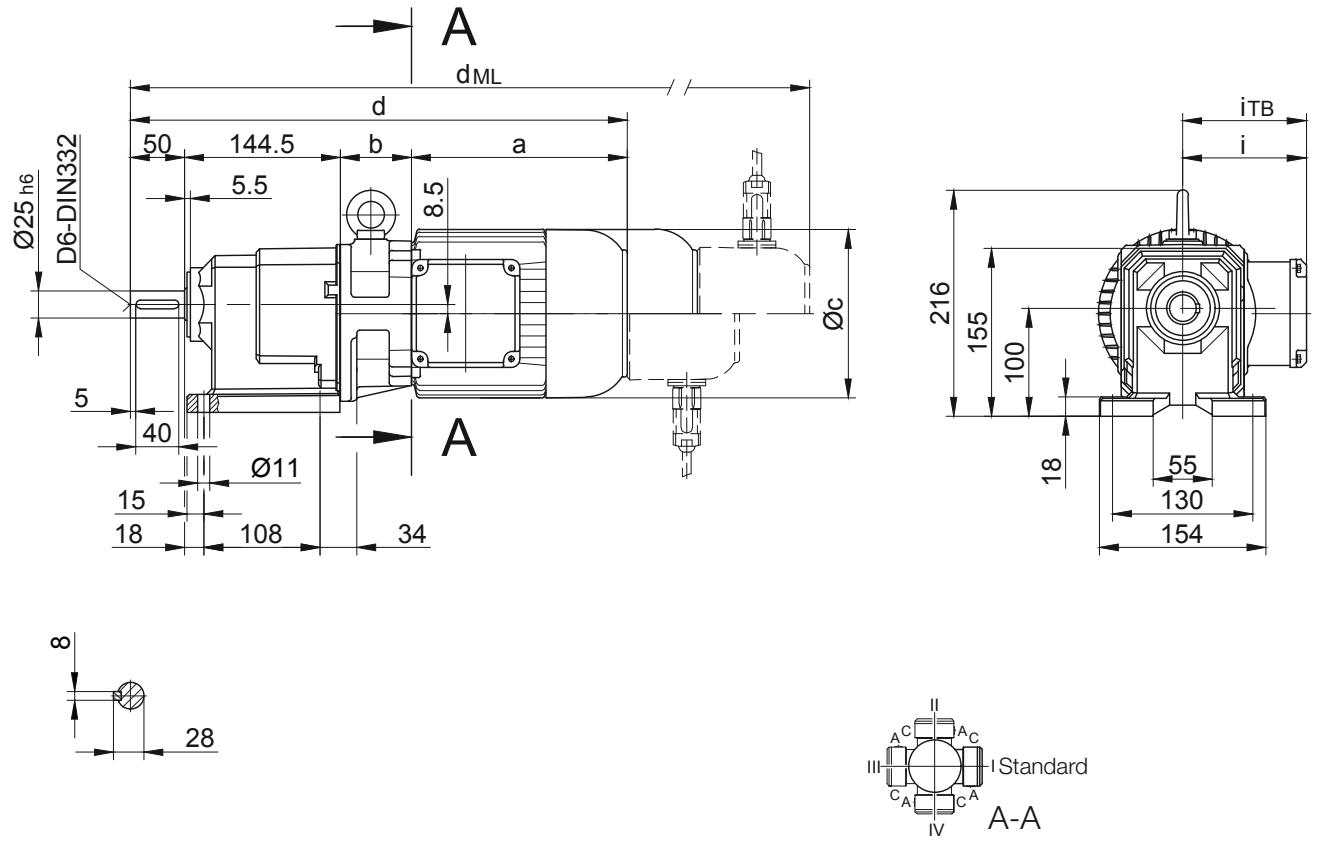


The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG15

Foot mounting with clearance holes

Code -11/



Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BG15-../S..06 (M, L)	170.5	62	123	427	99	119	469	529.5	567	-
BG15-../S..08 (M, L)	199.5	66	156	460	114.5	136.5	526	572	633.5	-
BG15-../S..09 (S, X)	250.5	80.5	176	525.5	124	157	618.5	633	722.5	-
Dimensions in millimetres (mm)										

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

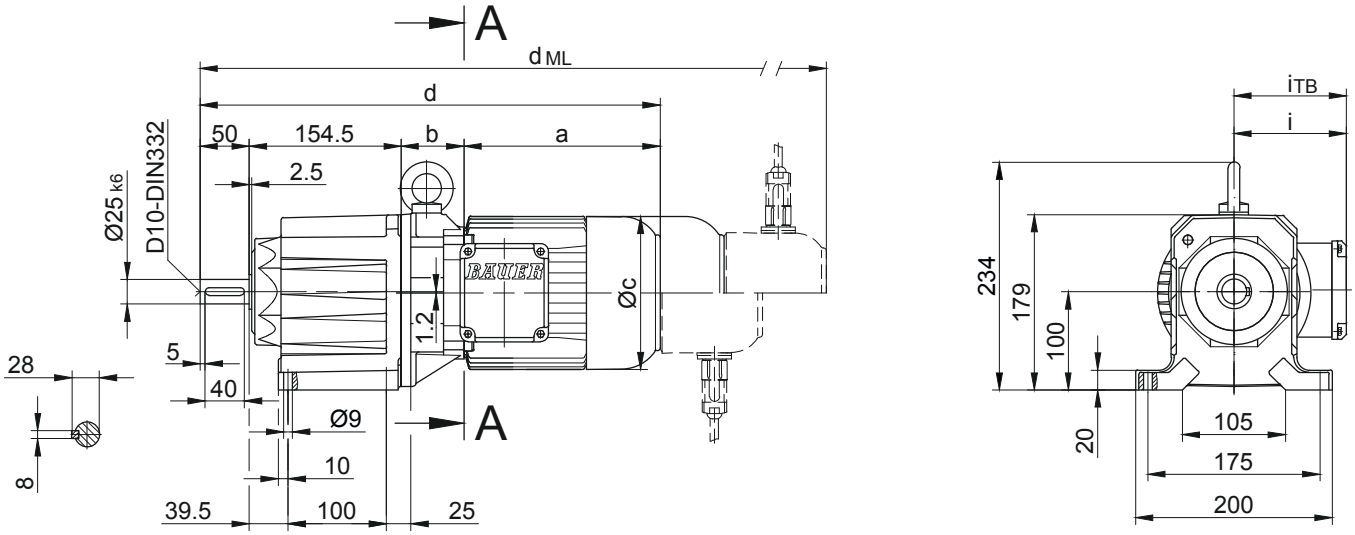
BG-series helical-geared motors

Dimension - Standard

BG20-BG20Z

Foot mounting with clearance holes

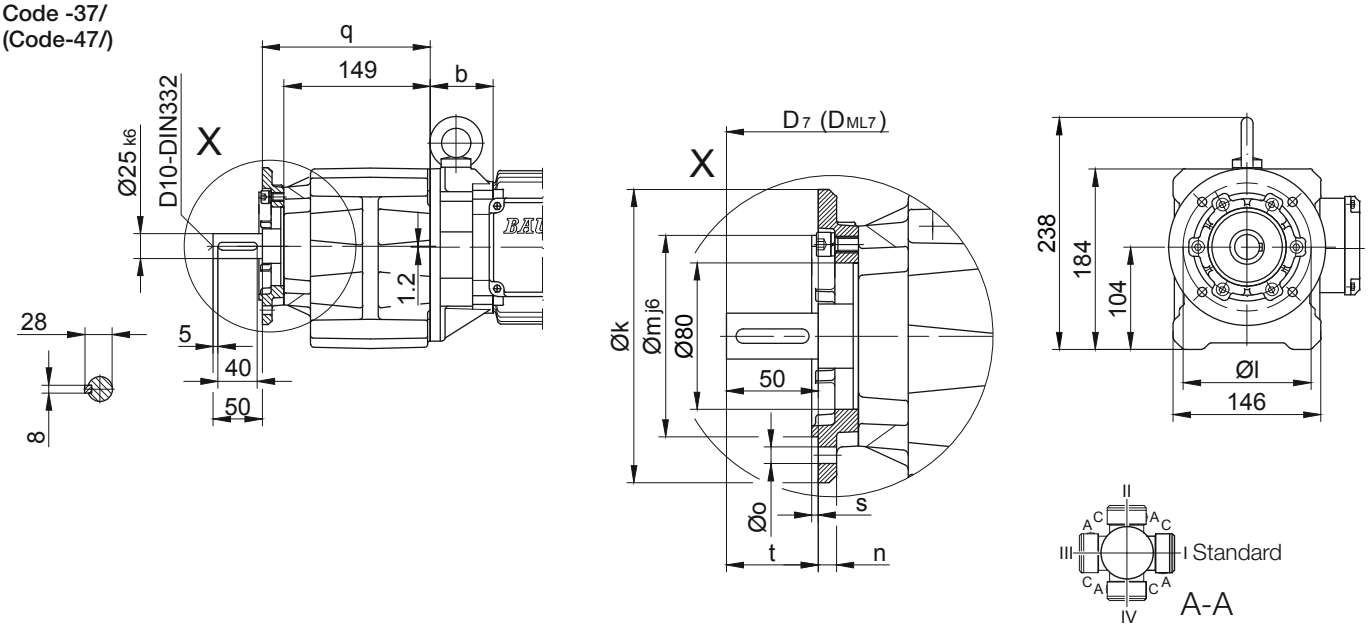
Code -11/



Flange with clearance holes

Code -37/

(Code-47/)



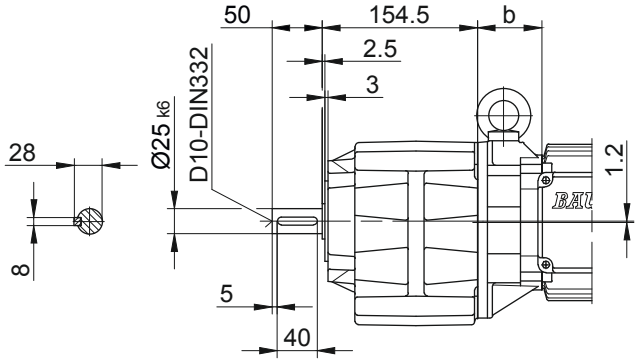
Flange Dimensions											
Type	Design	k	l	m	n	o	q	s	t	D_7	D_{ML7}
BG20..	Code -37V/	160	130	110	10	9	171	3.5	50.5	d+16.5	d_{ML}+16.5
BG20..	Code -47V/	200	165	130	12	11	178	3.5	43.5	d+16.5	d_{ML}+16.5
Dimensions in millimetres (mm)											

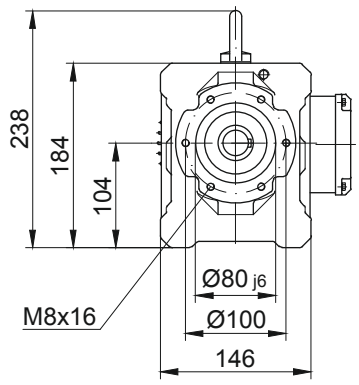
Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BG20Z-../S04S	142.5	100	110.5	447	90	112	490.5	534.5	578	-
BG20-../S..06 (M, L)	170.5	60	123	435	99	119	477	537.5	575	-
BG20Z-../S..06 (M, L)	170.5	102	123	477	99	119	519	579.5	617	-
BG20-../S..08 (M, L)	199.5	64	156	468	114.5	136.5	534	580	641.5	-
BG20Z-../S..08 (M, L)	199.5	146	156	550	114.5	136.5	616	662	723.5	-
BG20-../S..09 (S, X)	250.5	78.5	176	533.5	124	157	626.5	641	730.5	-
Dimensions in millimetres (mm)										

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

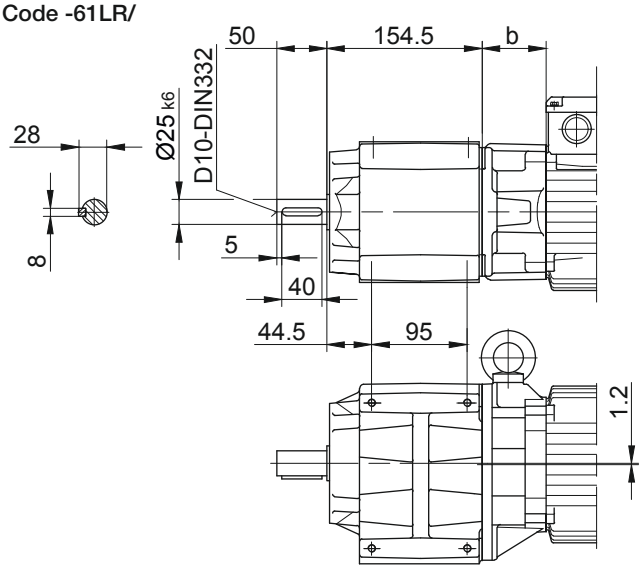
BG20-BG20Z

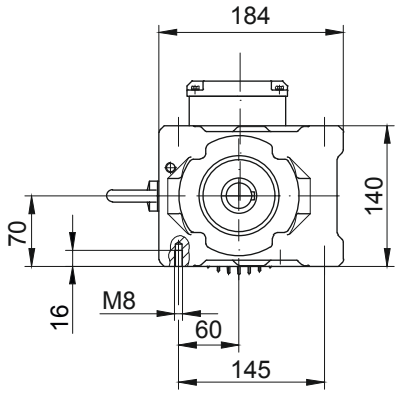
Flange with tapped holes
Code -71/



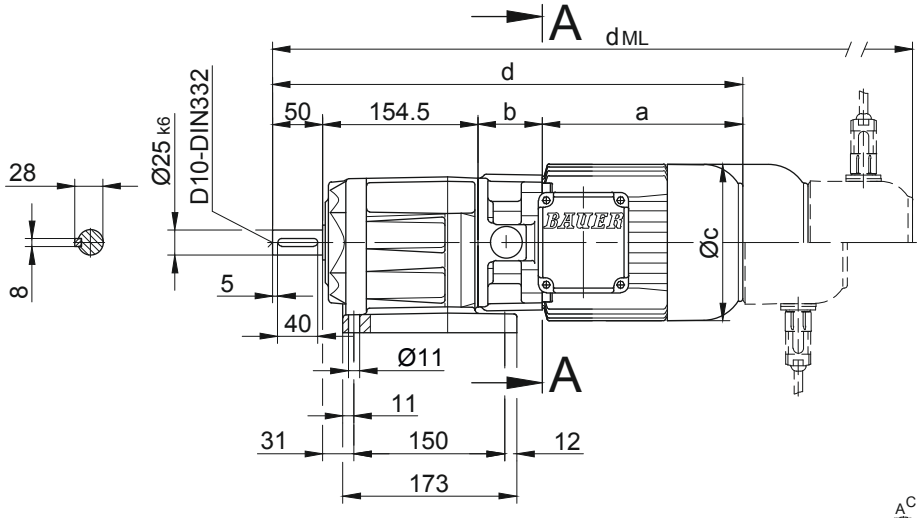


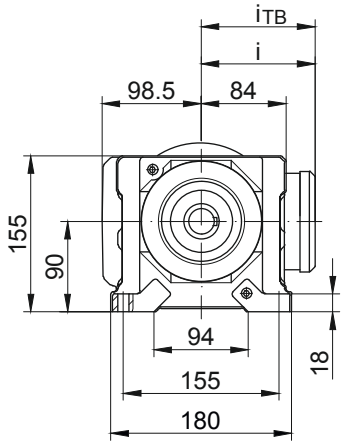
Foot with tapped holes left and right
Code -61LR/

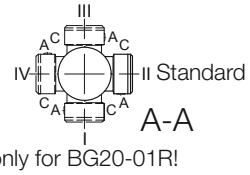




Foot mounting right with clearance holes
Code -01R/







only for BG20-01R!

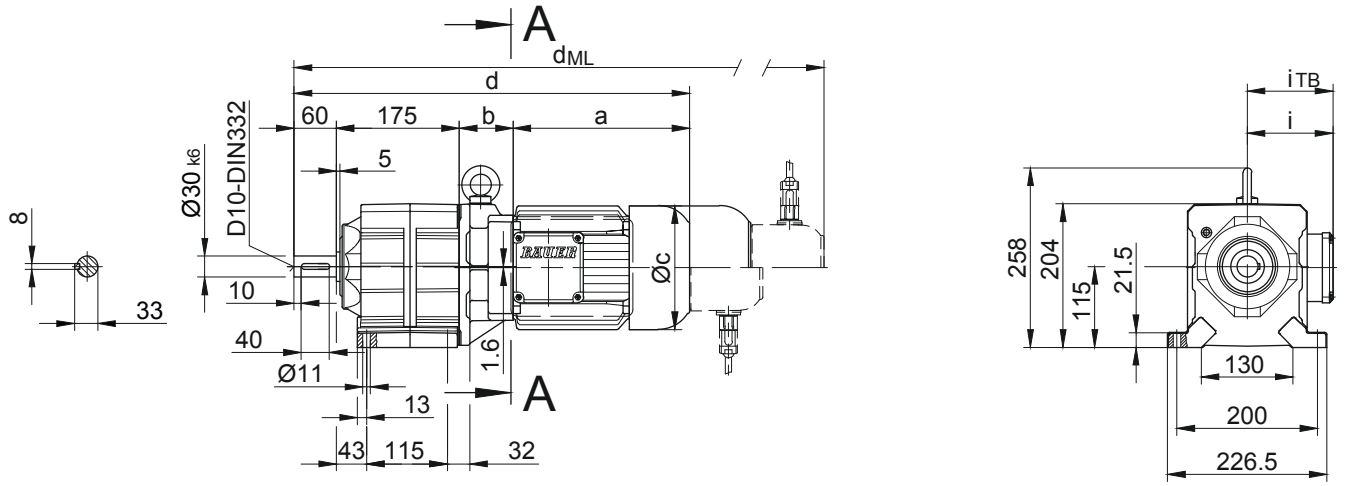
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG-series helical-geared motors

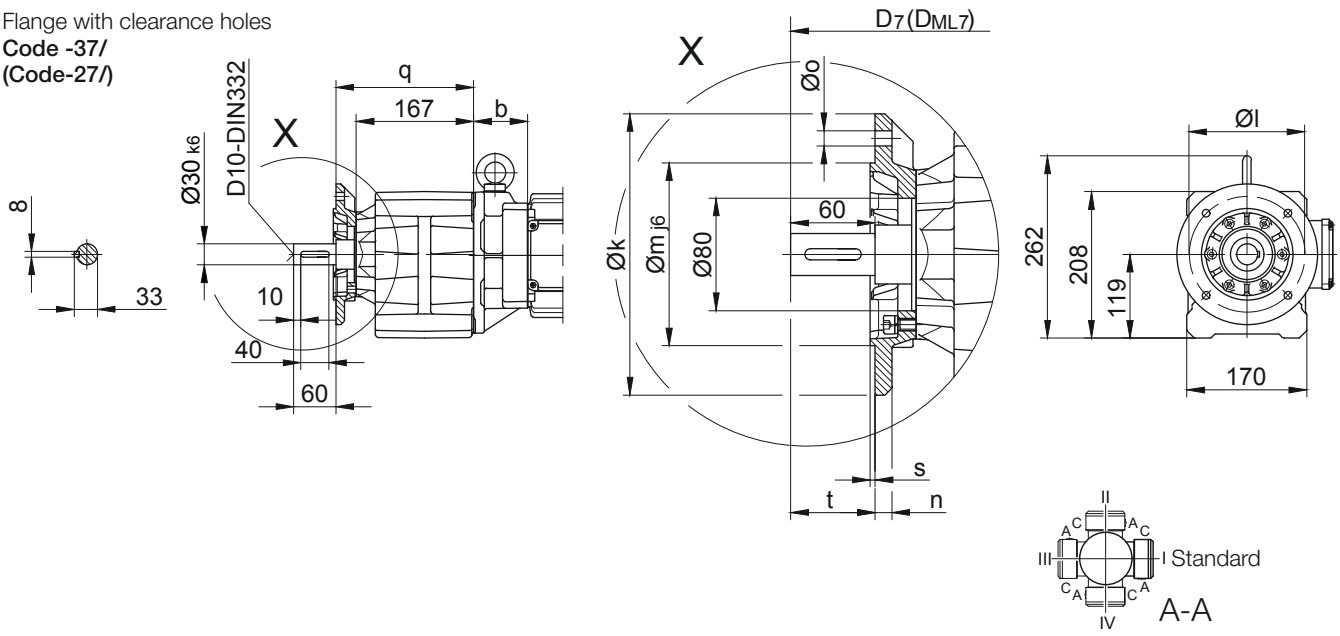
Dimension - Standard

BG30-BG30Z

Foot mounting with clearance holes
Code -11/



Flange with clearance holes
Code -37/
(Code-27/)



10

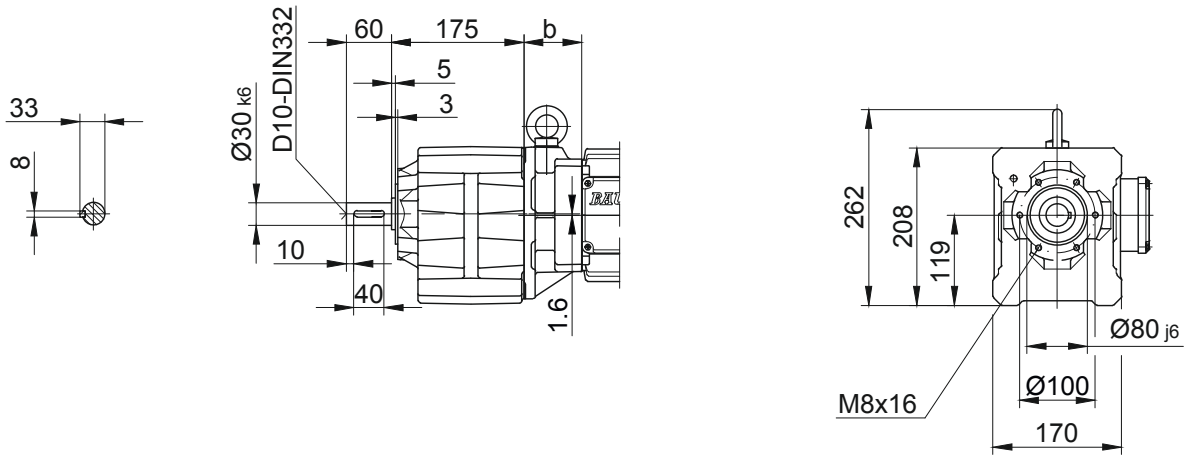
Flange Dimensions											
Type	Design	k	l	m	n	o	q	s	t	D_7	D_{ML7}
BG30..	Code -37/	200	165	130	12	11	196	3.5	60.5	d+21	d_{ML}+21
BG30..	Code -27/	160	130	110	10	9	189	3.5	67.5	d+21	d_{ML}+21
Dimensions in millimetres (mm)											

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BG30-../S..06 (M, L)	170.5	58	123	463.5	99	119	505.5	566	603.5	-
BG30Z-../S..06 (M, L)	170.5	133.5	123	539	99	119	581	641.5	679	-
BG30-../S..08 (M, L)	199.5	62	156	496.5	114.5	136.5	562.5	608.5	670	-
BG30Z-../S..08 (M, L)	199.5	137.5	156	572	114.5	136.5	638	684	745.5	-
BG30-../S..09 (S, X)	250.5	76.5	176	562	124	157	655	727	759	-
BG30Z-../S..09 (S, X)	250.5	152	176	637.5	124	157	730.5	802.5	834.5	-
BG30-../S..11 (S, M, L)	319	83	218	637	165	176	735	744.5	837	-
Dimensions in millimetres (mm)										

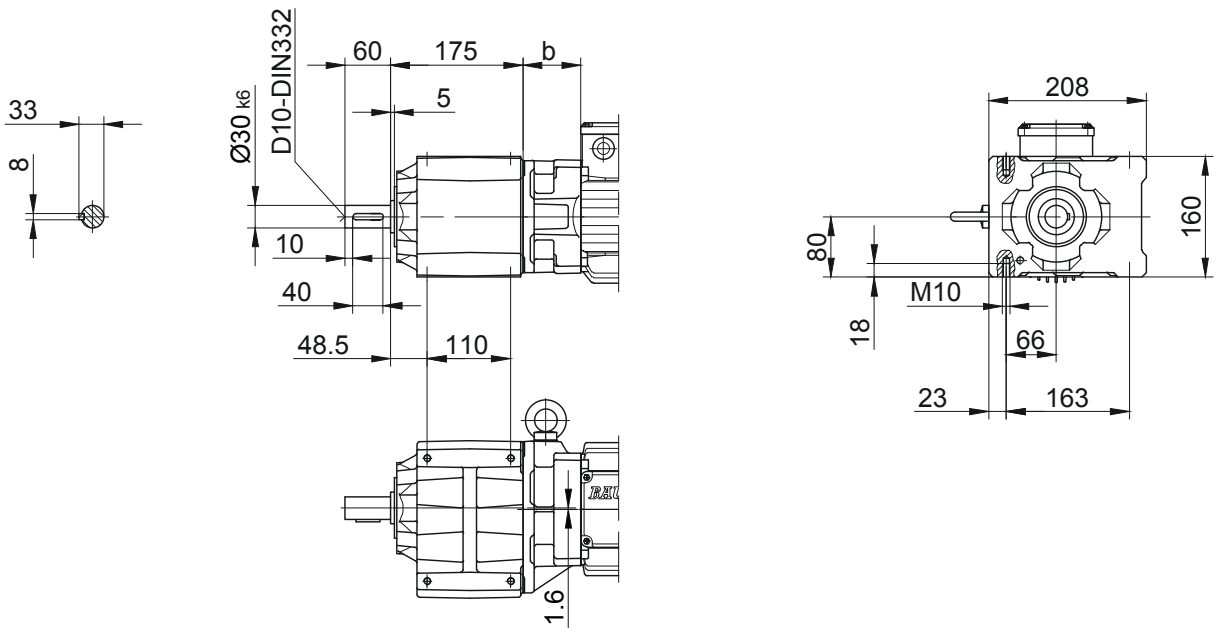
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG30-BG30Z

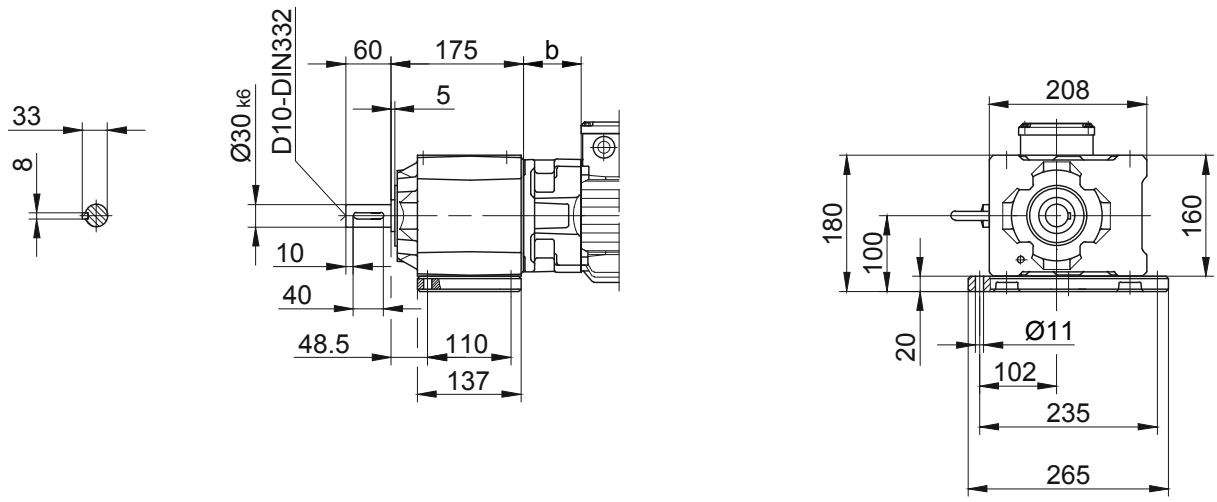
Flange with tapped holes
Code -71/



Foot with tapped holes left and right
Code -61LR/



Foot plate left
Code -91L/



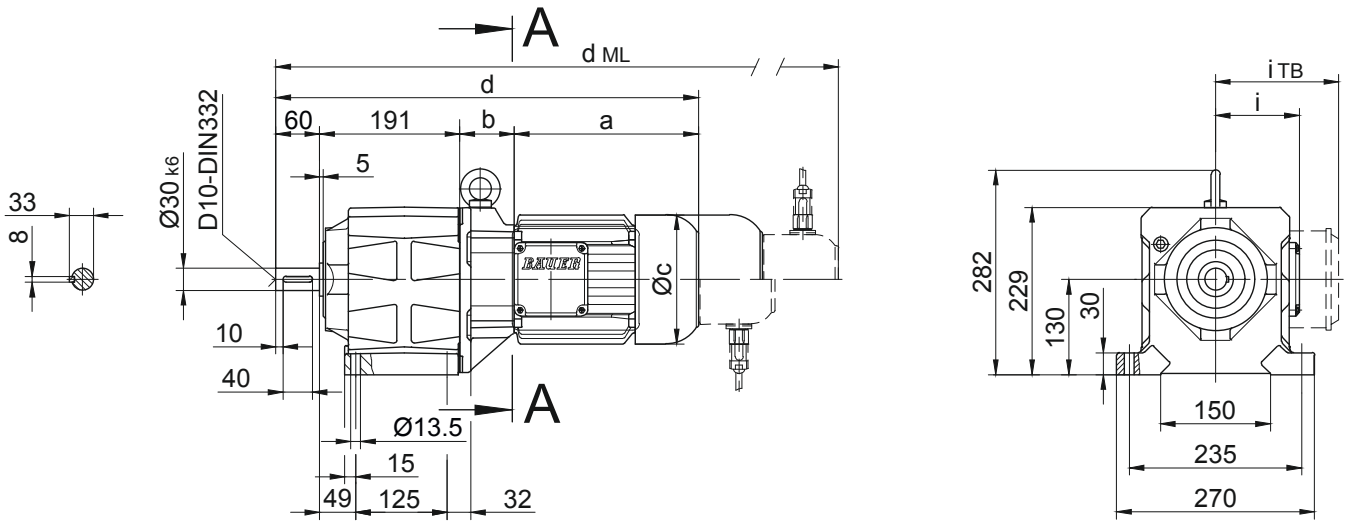
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG-series helical-geared motors

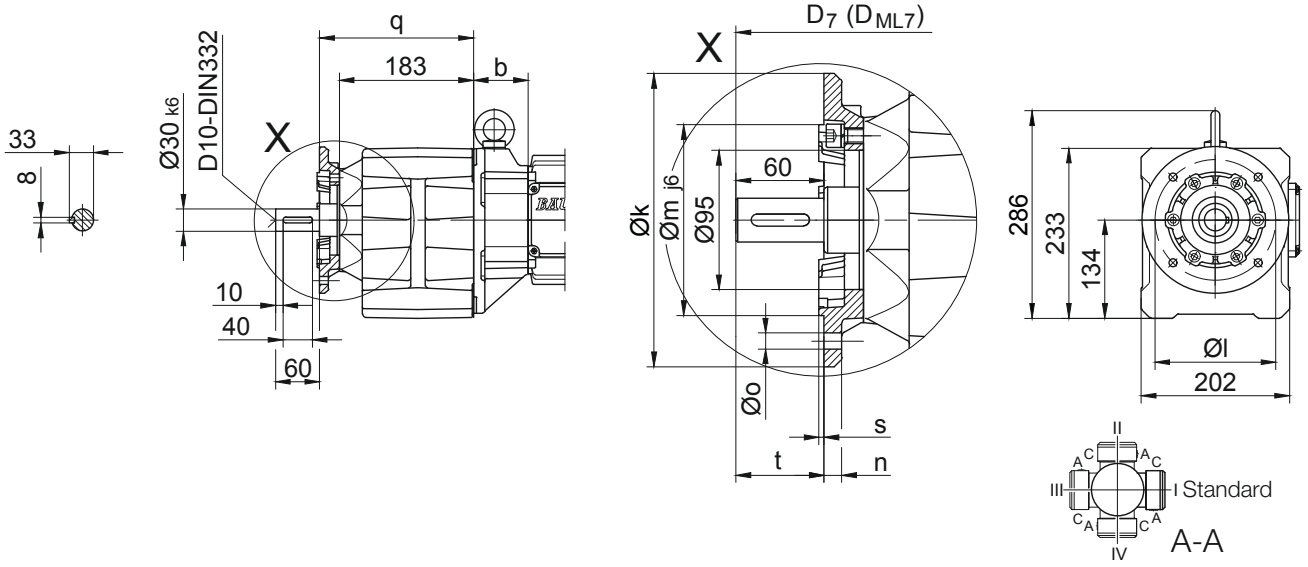
Dimension - Standard

BG40-BG40Z

Foot mounting with clearance holes
Code -11/



Flange with clearance holes
Code -37/
(Code-47/)



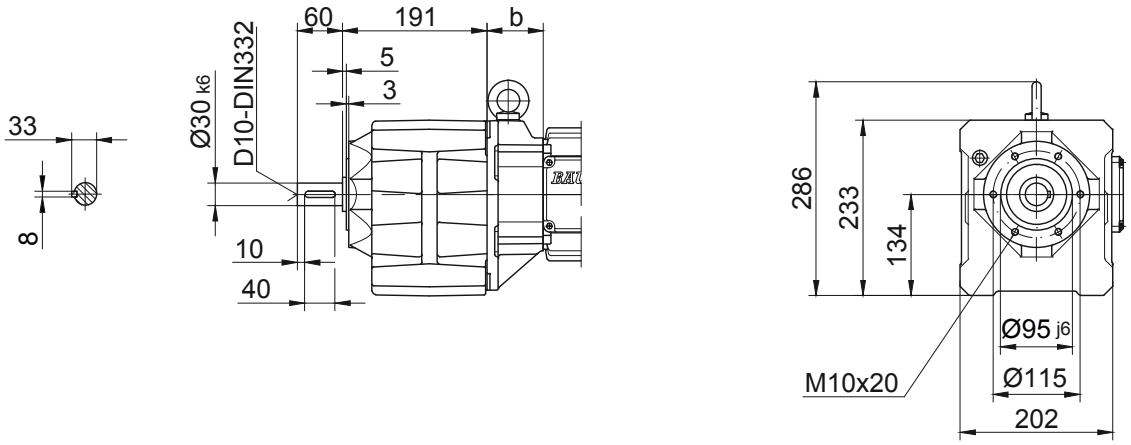
Flange Dimensions											
Type	Design	k	l	m	n	o	q	s	t	D_7	D_{ML7}
BG40..	Code -37/	200	165	130	12	11	210	3.5	61	d+19	d_{ML}+19
BG40..	Code -47/	250	215	180	16	13.5	219	4	52	d+19	d_{ML}+19
Dimensions in millimetres (mm)											

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BG40Z-../S..06 (M, L)	170.5	138.5	123	560	99	119	602	662.5	700	-
BG40-../S..08 (M, L)	199.5	60	156	510.5	114.5	136.5	576.5	622.5	684	-
BG40Z-../S..08 (M, L)	199.5	142.5	156	593	114.5	136.5	659	705	766.5	-
BG40-../S..09 (S, X)	250.5	74.5	176	576	124	157	669	683.5	773	-
BG40Z-../S..09 (S, X)	250.5	157	176	658.5	124	157	751.5	766	855.5	-
BG40-../S..11 (S, M, L)	319	81	218	651	165	176	749	758.5	851	-
Dimensions in millimetres (mm)										

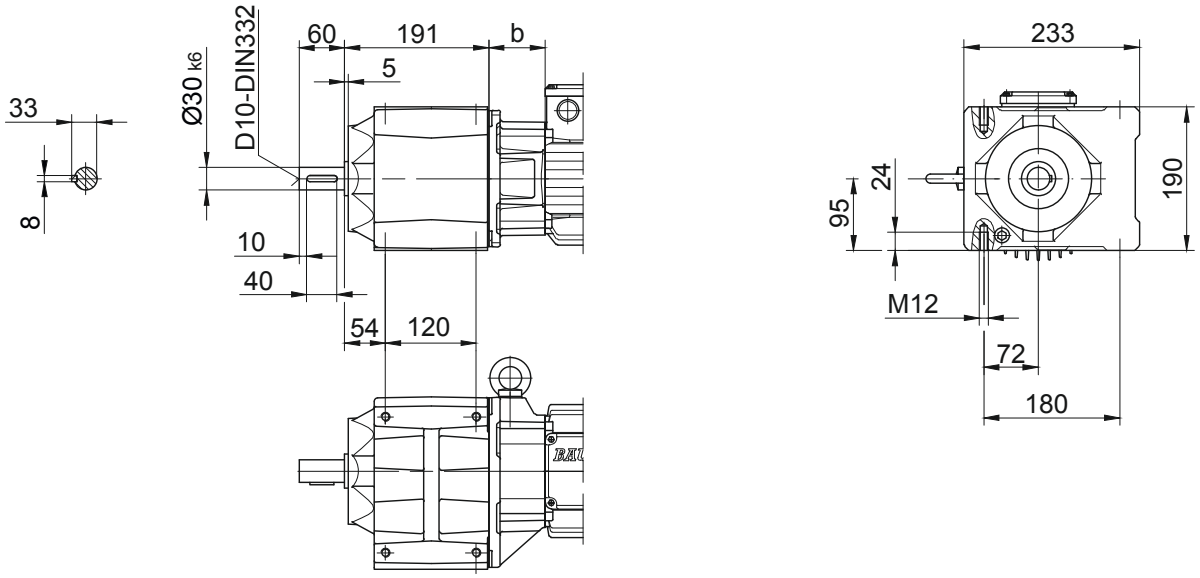
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG40-BG40Z

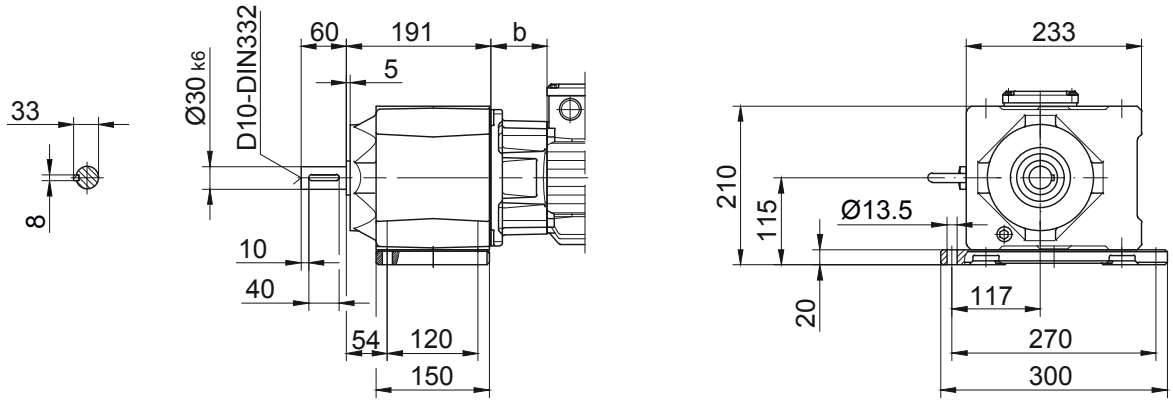
Flange with tapped holes
Code -71/



Foot with tapped holes left and right
Code -61LR/



Foot plate left
Code -91L/



10

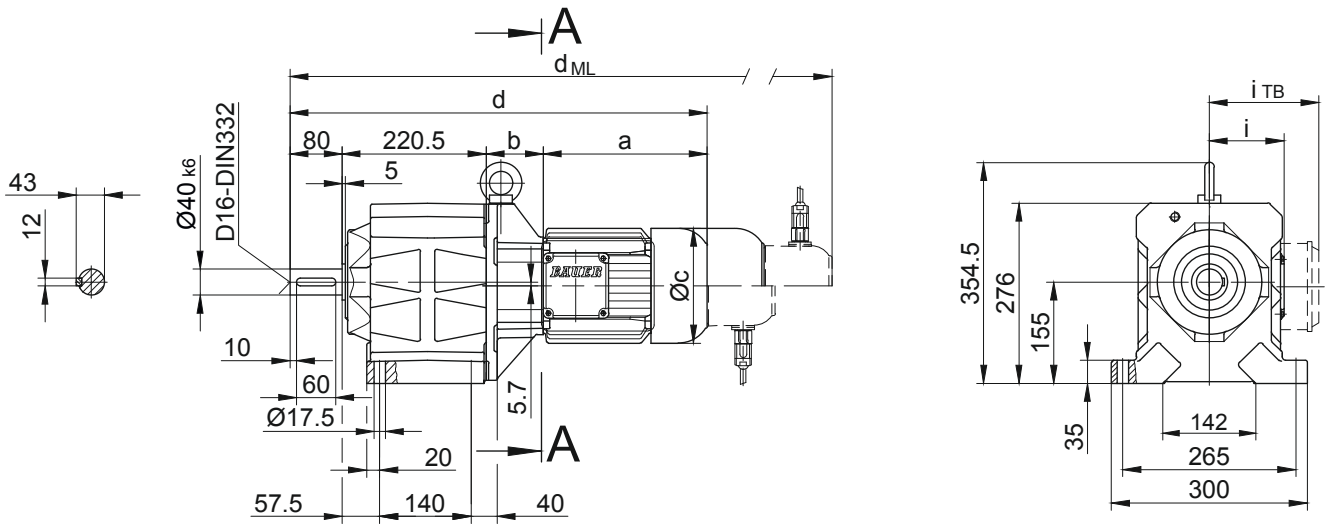
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG-series helical-geared motors

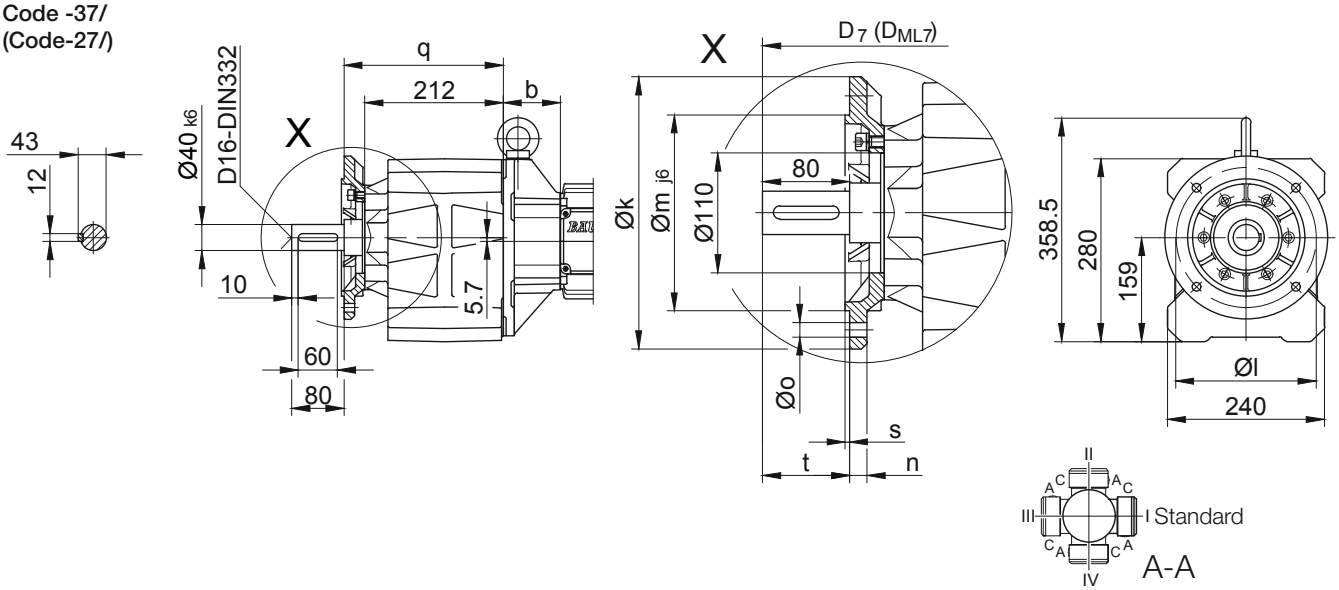
Dimension - Standard

BG50-BG50Z

Foot mounting with clearance holes
Code -11/



Flange with clearance holes
Code -37/
(Code-27/)



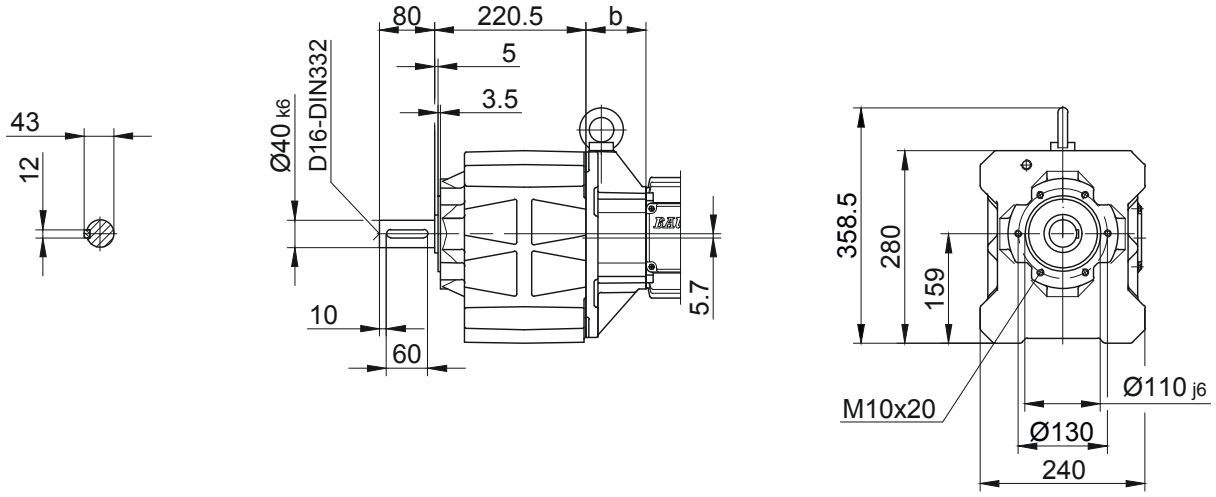
Flange Dimensions											
Type	Design	k	l	m	n	o	q	s	t	D_7	D_{ML7}
BG50..	Code -37/	250	215	180	16	13.5	244	4	80.5	d+23.5	d_{ML}+23.5
BG50..	Code -27/	200	165	130	12	11	241	3.5	83.5	d+23.5	d_{ML}+23.5
Dimensions in millimetres (mm)											

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BG50Z-../S..06 (M, L)	170.5	155	123	626	99	119	668	728.5	766	-
BG50-../S..08 (M, L)	199.5	73	156	573	114.5	136.5	639	685	746.5	-
BG50Z-../S..08 (M, L)	199.5	159	156	659	114.5	136.5	725	771	832.5	-
BG50-../S..09 (S, X)	250.5	87.5	176	638.5	124	157	731.5	746	835.5	-
BG50Z-../S..09 (S, X)	250.5	173.5	176	724.5	124	157	817.5	832	921.5	-
BG50-../S..11 (S, M, L)	319	94	218	713.5	165	176	811.5	821	913.5	-
Dimensions in millimetres (mm)										

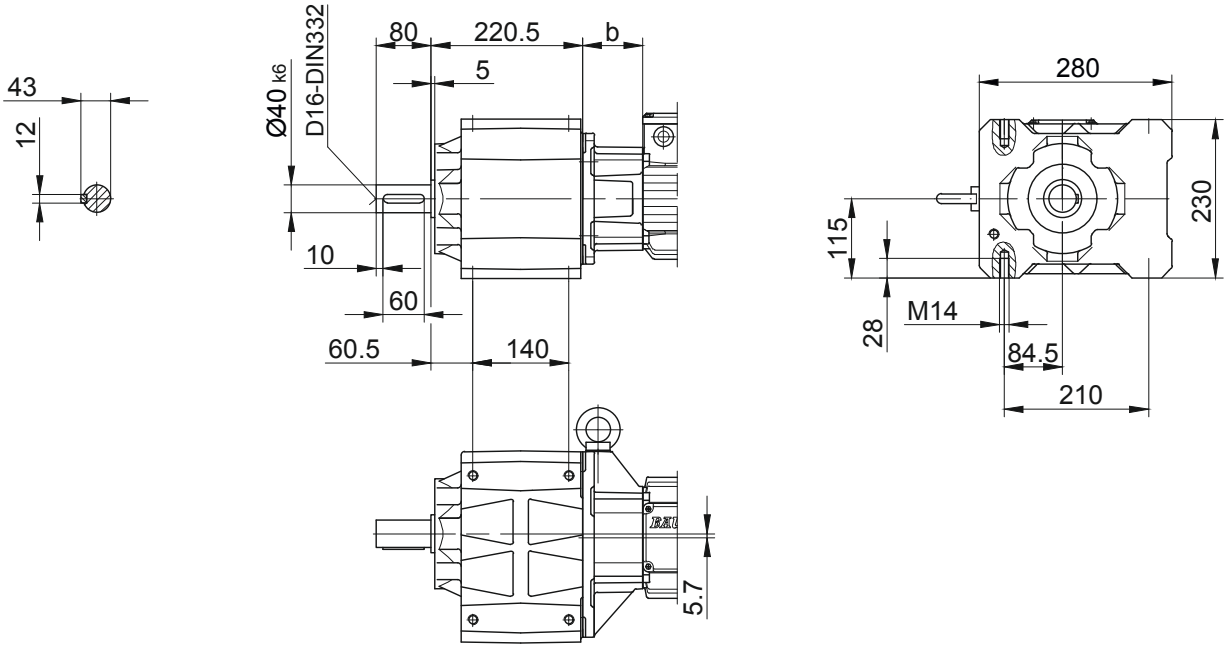
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG50-BG50Z

Flange with tapped holes
Code -71/



Foot with tapped holes left and right
Code -61LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

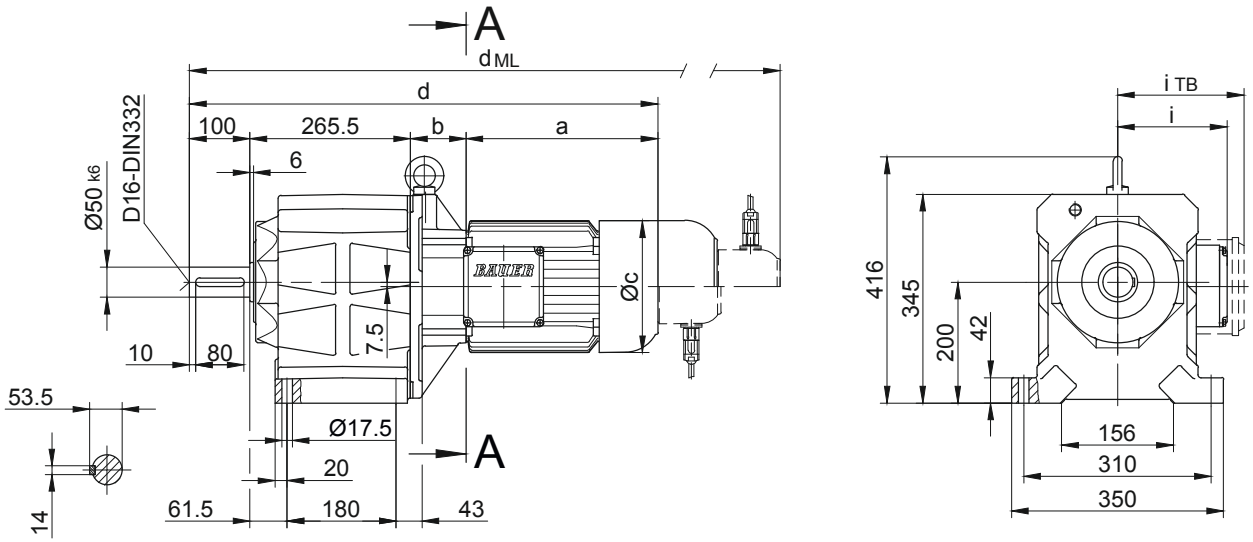
BG-series helical-geared motors

Dimension - Standard

BG60-BG60Z

Foot mounting with clearance holes

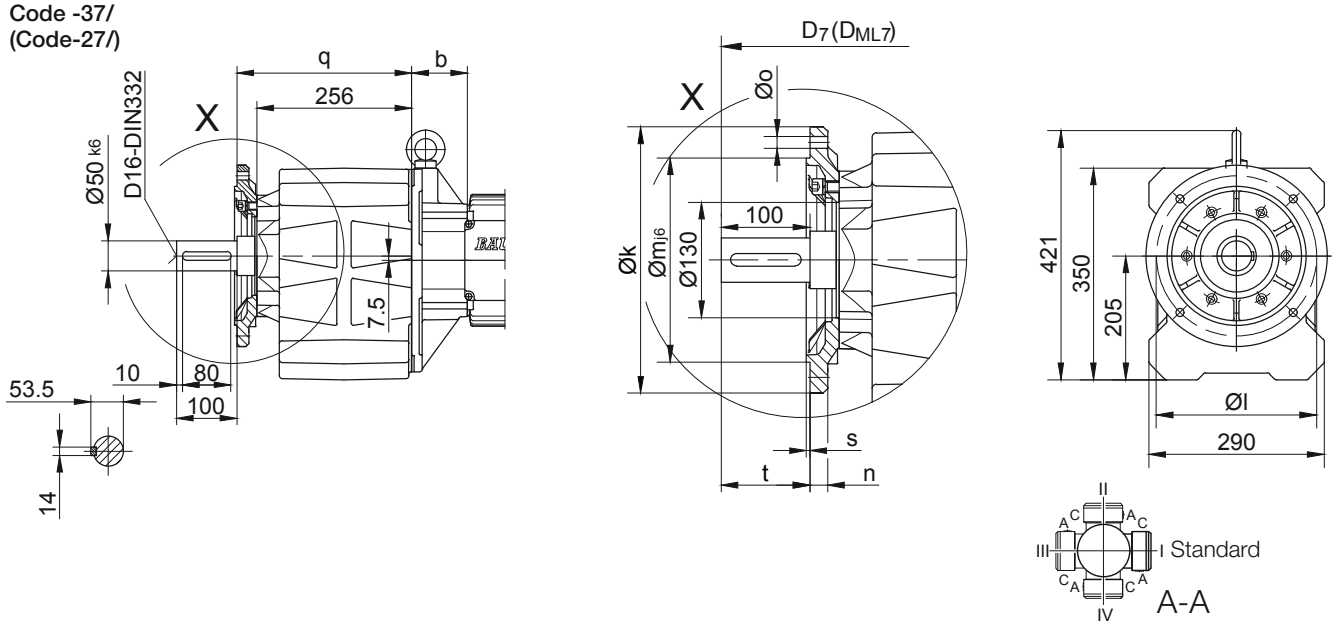
Code -11/



Flange with clearance holes

Code -37/

(Code-27/)

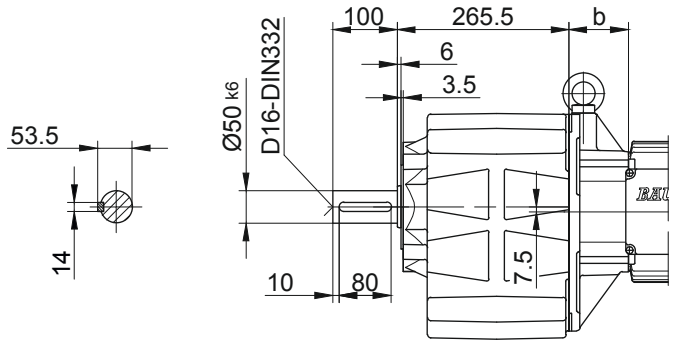


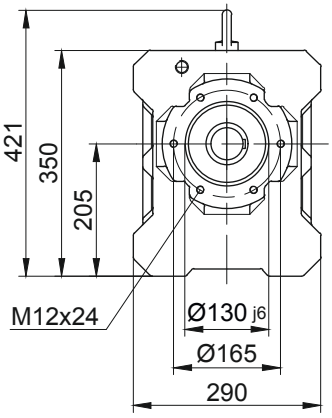
Flange Dimensions											
Type	Design	k	l	m	n	o	q	s	t	D_7	D_{ML7}
BG60..	Code -37/	300	265	230	20	13.5	289	4	100.5	d+23.5	d_{ML}+23.5
BG60..	Code -27/	250	215	180	16	13.5	286	4	103.5	d+23.5	d_{ML}+23.5
Dimensions in millimetres (mm)											

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BG60Z-../S..08 (M, L)	199.5	181	156	746	114.5	136.5	812	858	919.5	-
BG60-../S..09 (S, X)	250.5	85.5	176	701.5	124	157	794.5	809	898.5	-
BG60Z-../S..09 (S, X)	250.5	195.5	176	811.5	124	157	904.5	919	1008.5	-
BG60-../S..11 (S, M, L)	319	92	218	776.5	165	176	874.5	884	976.5	-
BG60Z-../S..11 (S, M, L)	319	202	218	886.5	165	176	984.5	994	1086.5	-
Dimensions in millimetres (mm)										

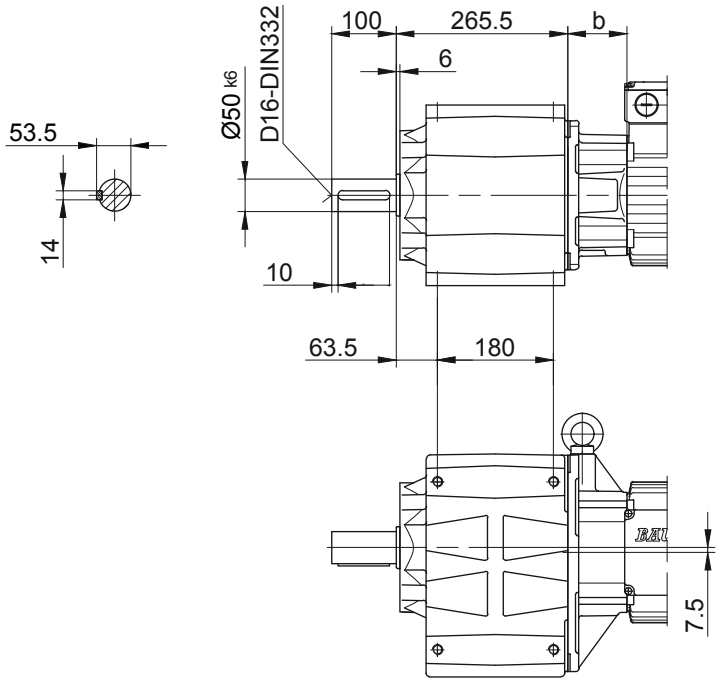
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

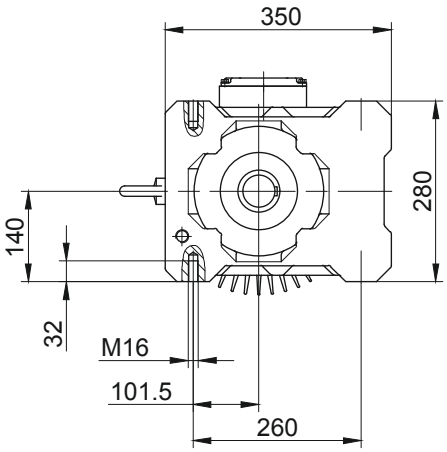
BG60-BG60Z
Flange with tapped holes
Code -71/





Foot with tapped holes left and right
Code -61LR/





10

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

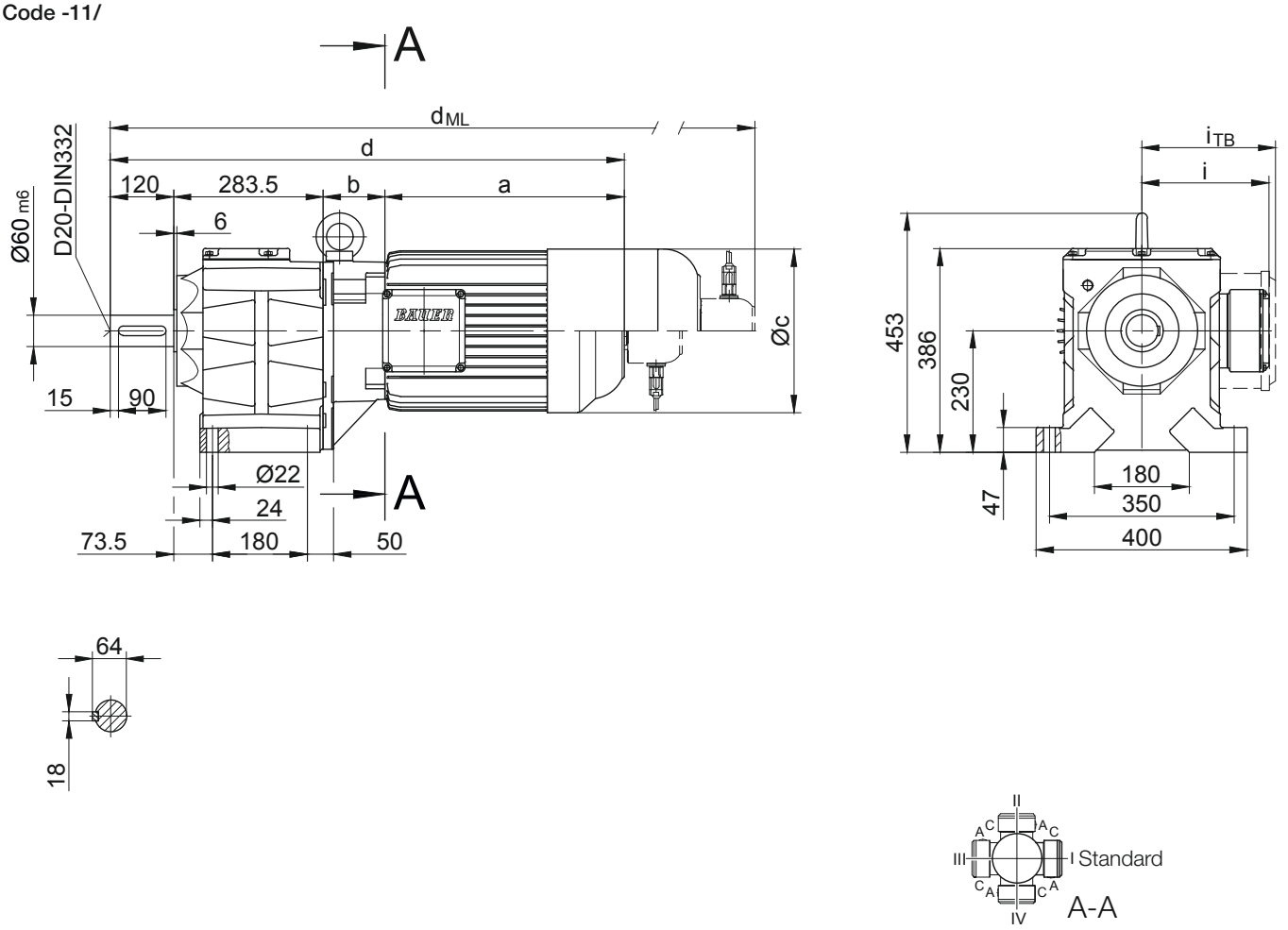
BG-series helical-geared motors

Dimension - Standard

BG70 - BG70Z

Foot mounting with clearance holes

Code -11/



10

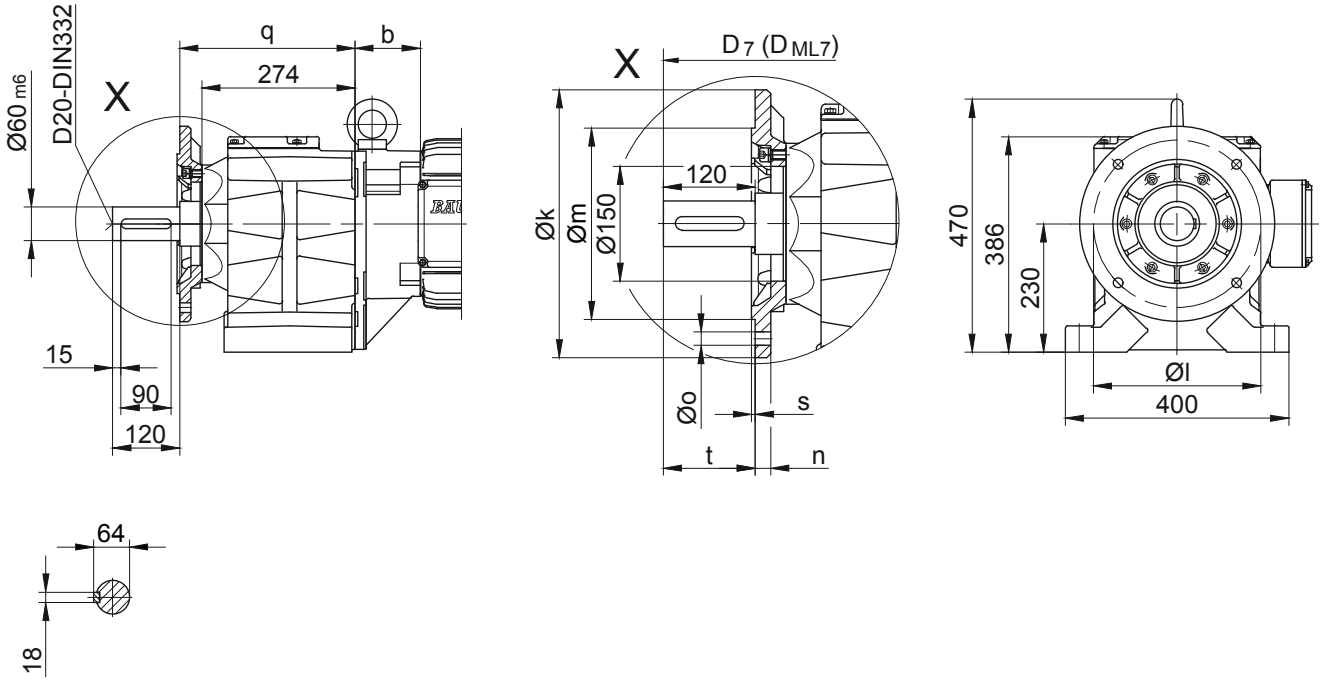
Flange Dimensions											
Type	Design	k	l	m	n	o	q	s	t	D_7	D_{ML7}
BG70..	Code -37/	350	300	250	20	17.5	314	5	120.5	d+30.5	d_{ML}+30.5
BG70..	Code -27/	300	265	230	20	13.5	322	4	113.5	d+30.5	d_{ML}+30.5
Dimensions in millimetres (mm)											

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BG70Z-../S..08 (M, L)	199.5	202	156	805	114.5	136.5	871	917	978.5	-
BG70-../S..09 (S, X)	250.5	83.5	176	737.5	124	157	830.5	845	934.5	-
BG70Z-../S..09 (S, X)	250.5	216.5	176	870.5	124	157	963.5	978	1067.5	-
BG70-../S..11 (S, M, L)	319	90	218	812.5	165	176	910.5	920	1012.5	-
BG70Z-../S..11 (S, M, L)	319	223	218	945.5	165	176	1043.5	1053	1145.5	-
Dimensions in millimetres (mm)										

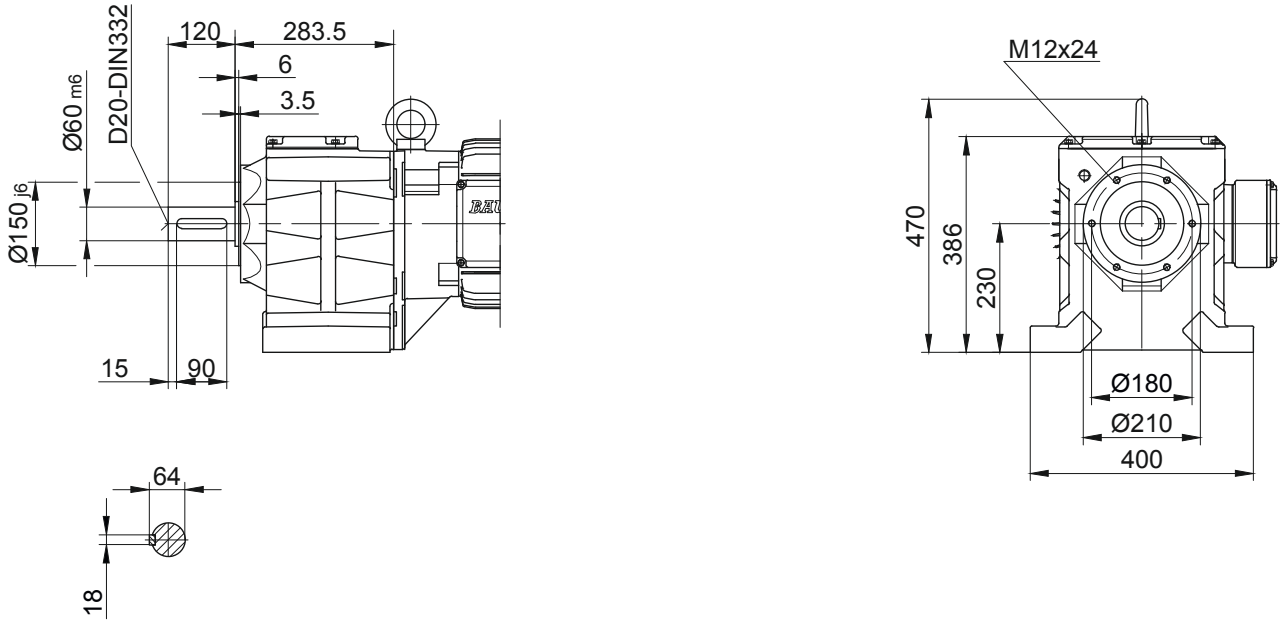
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG70 - BG70Z

Flange with clearance holes
Code -37/
(Code -27/)



Flange with tapped holes
Code -71/



10

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

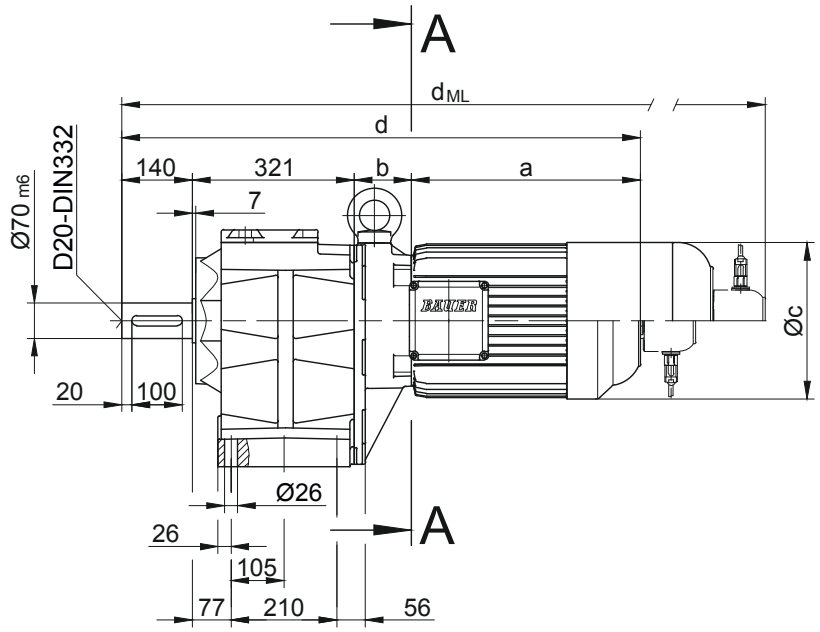
BG-series helical-geared motors

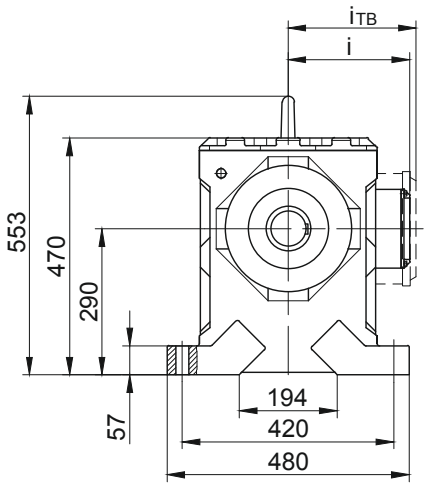
Dimension - Standard

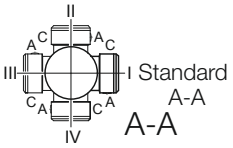
BG80-BG80Z

Foot mounting with clearance holes

Code -11/







10

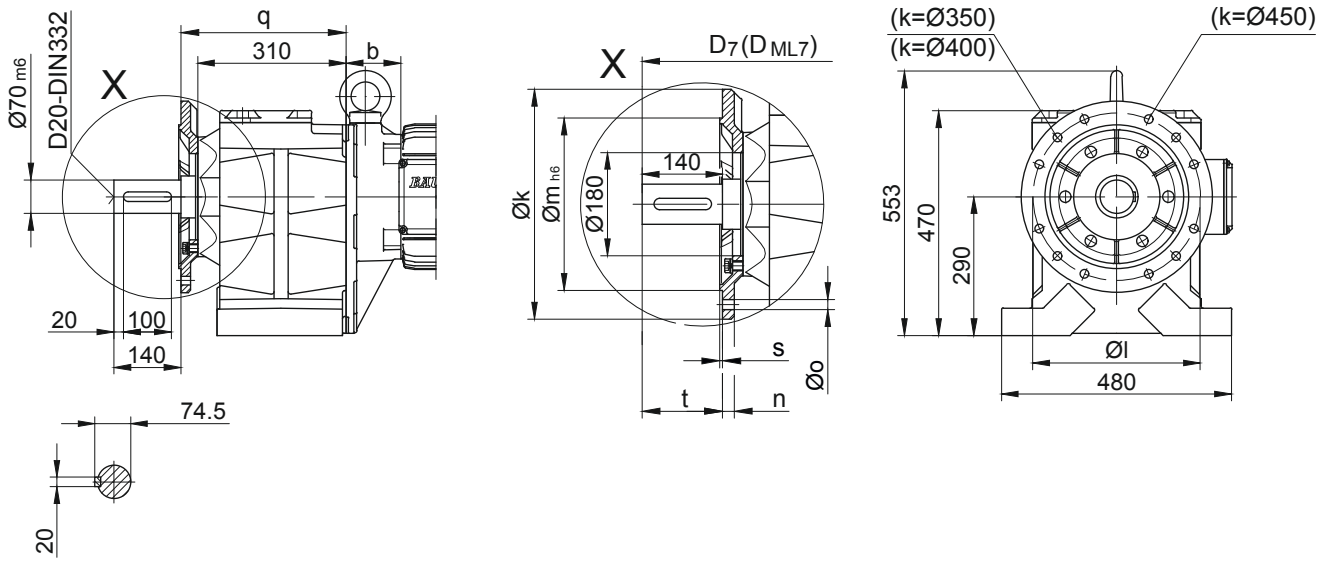
Flange Dimensions											
Type	Design	k	l	m	n	o	q	s	t	D_7	D_{ML7}
BG80..	Code -37/	400	350	300	20	4 x 17.5	345	5	141	d+24	d_{ML}+24
BG80..	Code -27/	350	300	250	20	4 x 17.5	345	5	141	d+24	d_{ML}+24
BG80..	Code -47/	450	400	350	22	8 x 17.5	355	5	131	d+24	d_{ML}+24
Dimensions in millimetres (mm)											

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BG80Z-../S..09 (S, X)	250.5	252.5	176	964	124	157	1057	1071.5	1161	-
BG80-../S..11 (S, M, L)	319	87	218	867	165	176	965	974.5	1067	-
BG80Z-../S..11 (S, M, L)	319	259	218	1039	165	176	1137	1146.5	1067	-
Dimensions in millimetres (mm)										

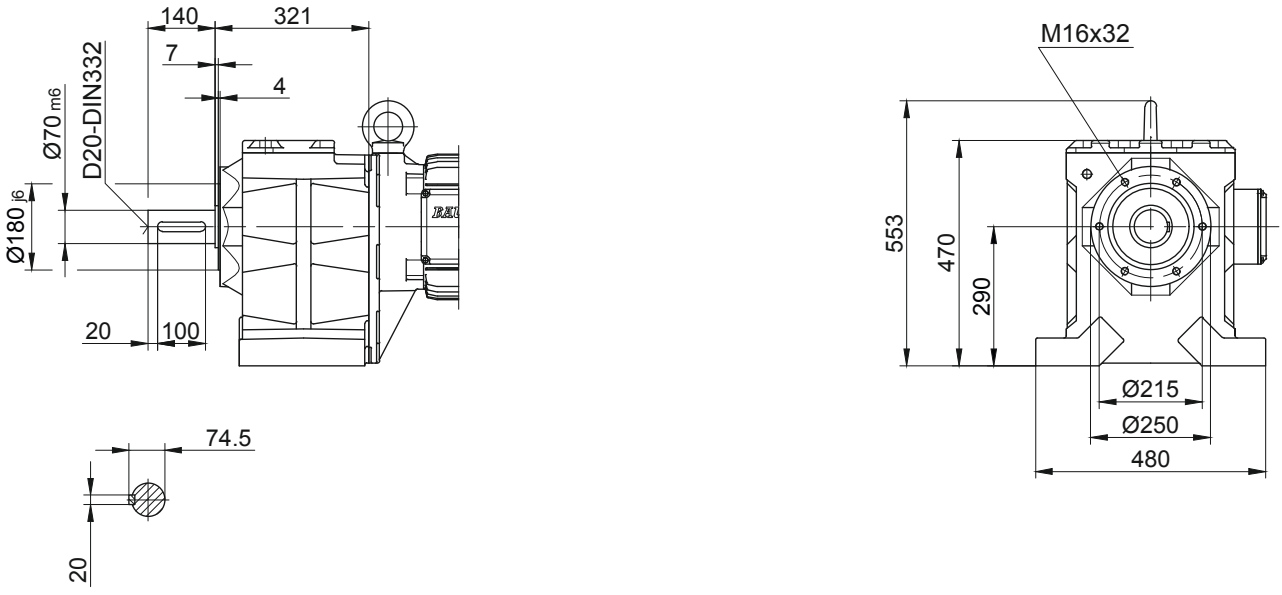
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG80-BG80Z

Flange with clearance holes
Code -37/
(Code -27/)
(Code -47/)



Flange with tapped holes
Code -71/



10

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

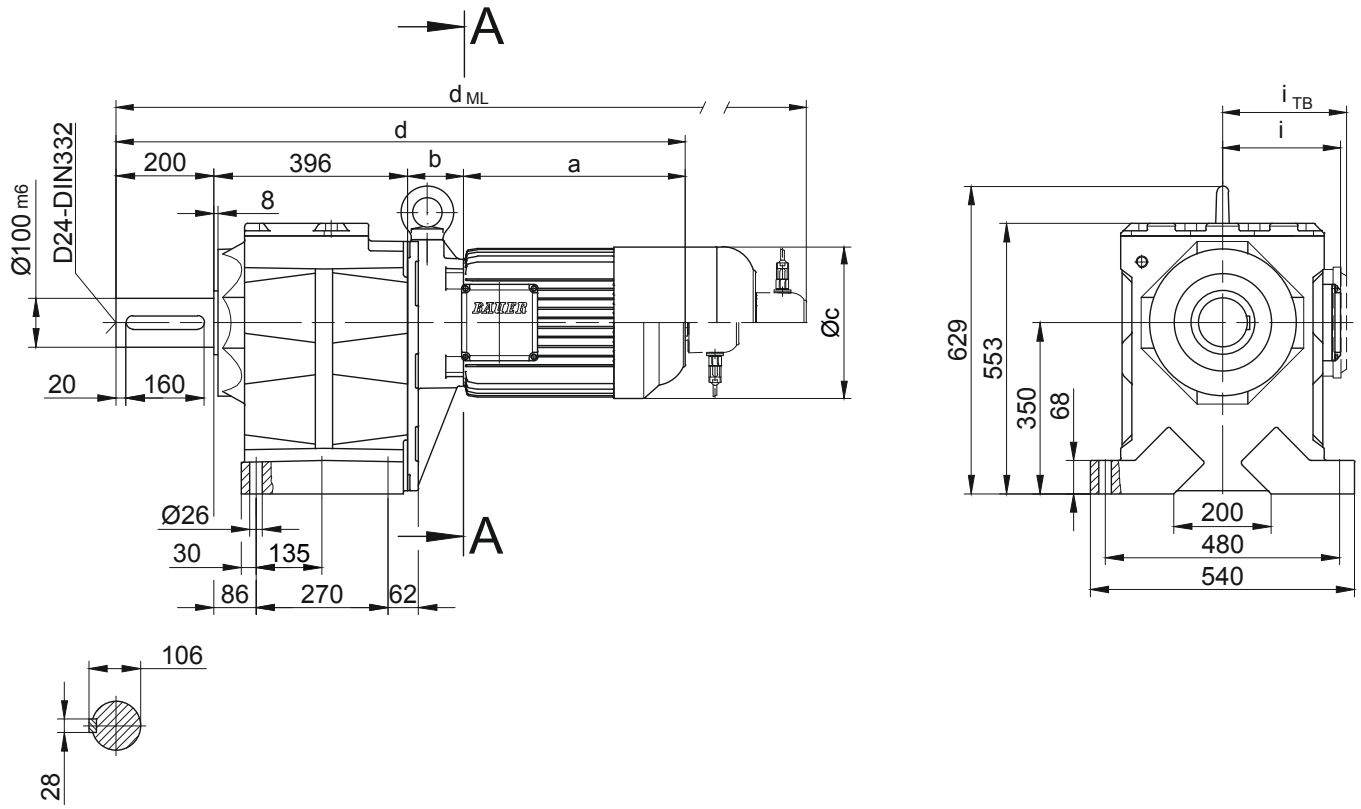
BG-series helical-geared motors

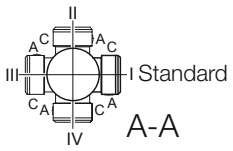
Dimension - Standard

BG90-BG90Z

Foot mounting with clearance holes

Code -11/





10

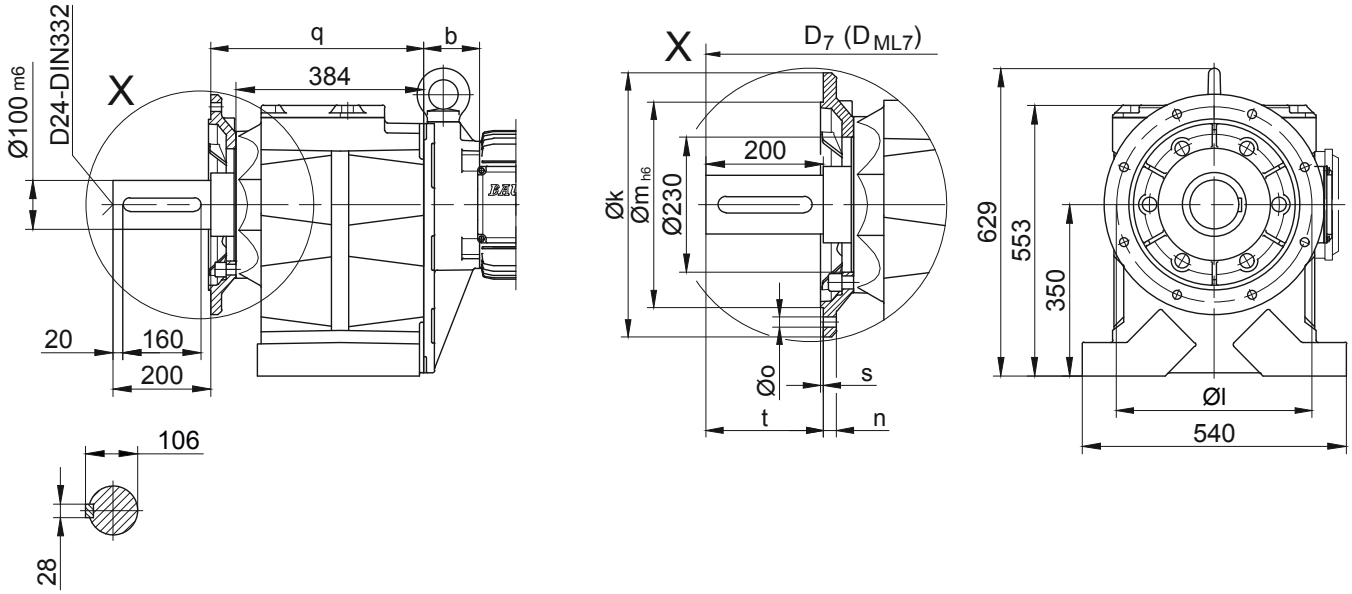
Flange Dimensions											
Type	Design	k	l	m	n	o	q	s	t	D_7	D_{ML7}
BG90..	Code -37/	450	400	350	22	17.5	439	5	201	d+43	d_{ML}+43
BG90..	Code -47/	550	500	450	22	17.5	444	5	196	d+43	d_{ML}+43
Dimensions in millimetres (mm)											

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BG90Z-../S..09 (S, X)	250.5	267	176	1113.5	124	157	1206.5	1221	1310.5	-
BG90Z-../S..11 (S, M, L)	319	273.5	218	1188.5	165	176	1286.5	1296	1388.5	-
Dimensions in millimetres (mm)										

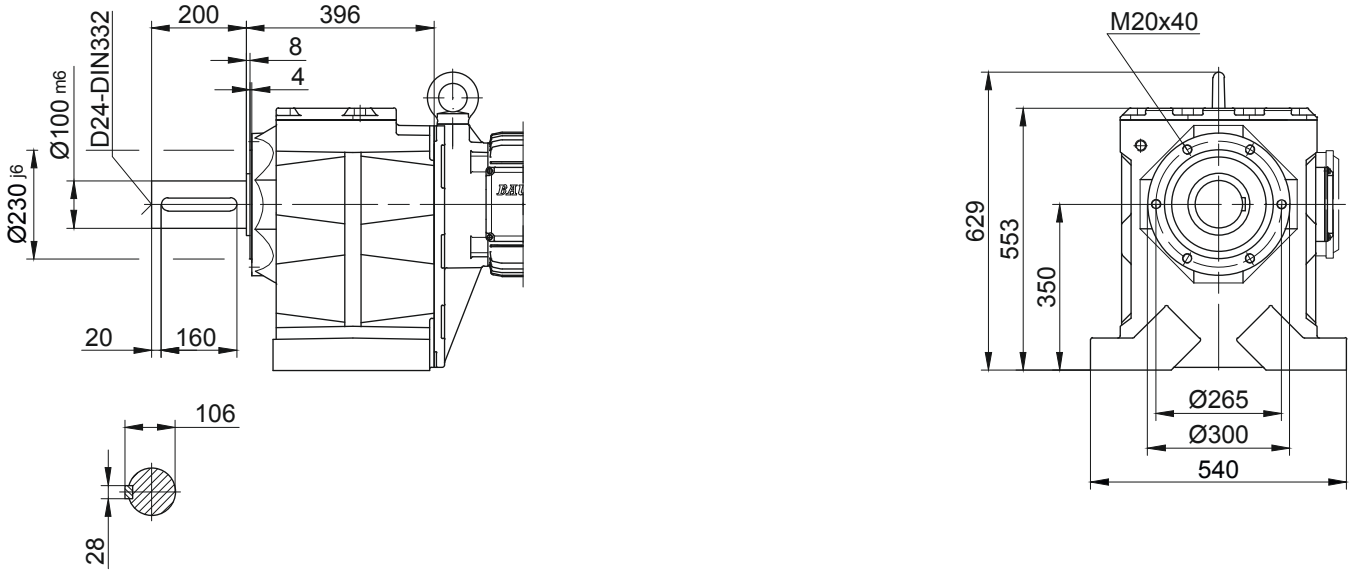
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG90-BG90Z

Flange with clearance holes
Code -37/
(Code -47/)



Flange with tapped holes
Code -71/



10

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

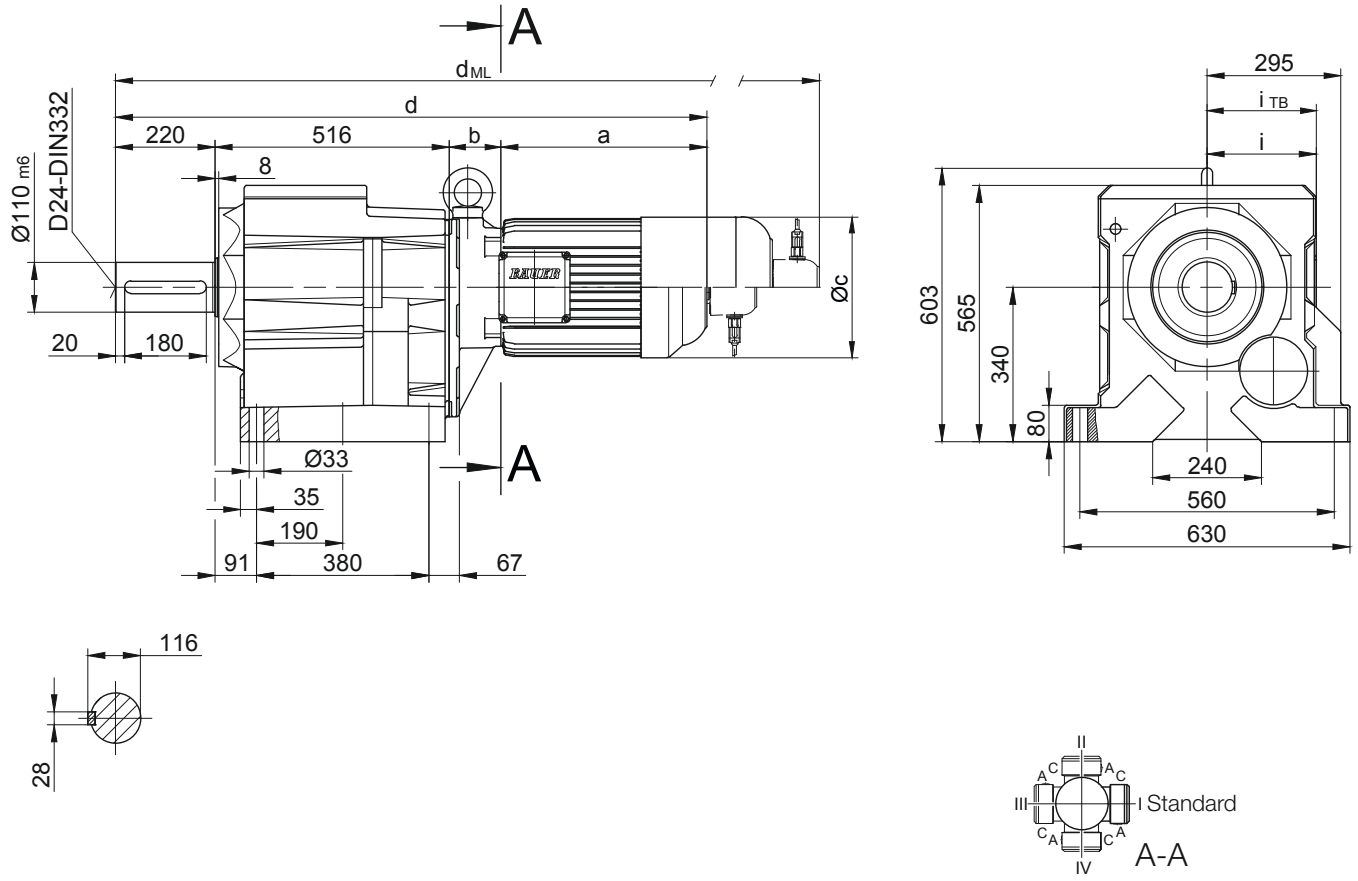
BG-series helical-geared motors

Dimension - Standard

BG100-BG100Z

Foot mounting with clearance holes

Code -11/



10

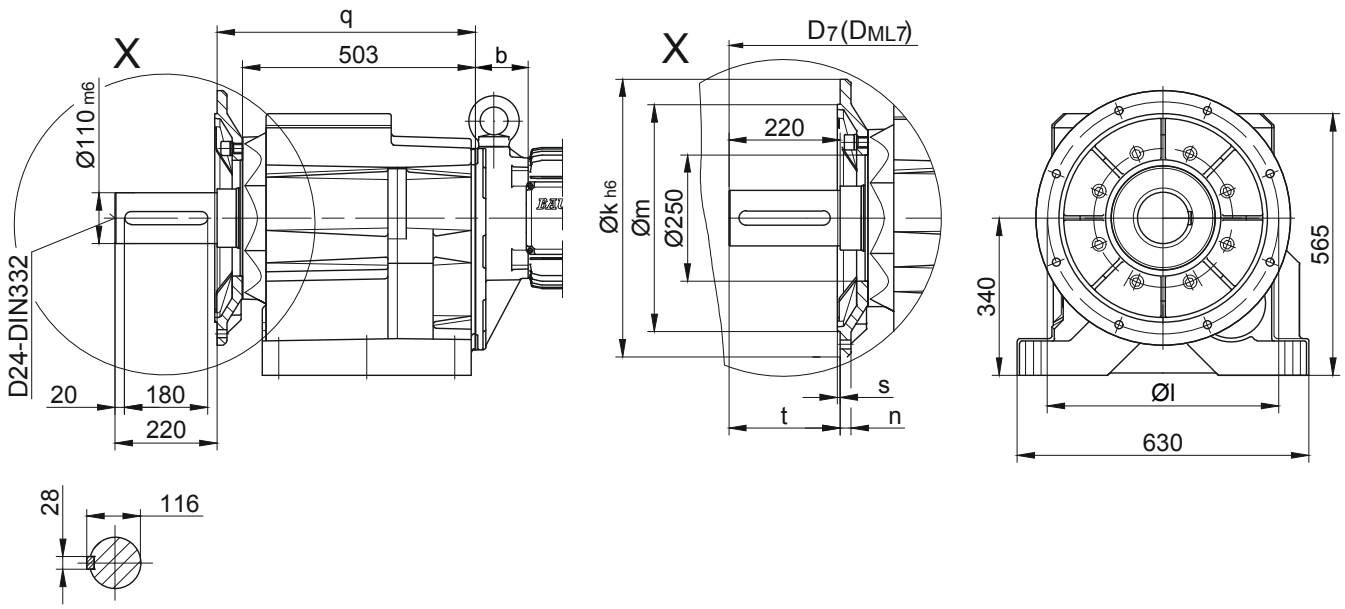
Flange Dimensions											
Type	Design	k	l	m	n	o	q	s	t	D_7	D_{ML7}
BG100..	Code -37/	550	500	450	22	17.5	558	5	220	d+42	d_{ML}+42
BG100..	Code -47/	660	600	550	25	22	552	6	227	d+42	d_{ML}+42
Dimensions in millimetres (mm)											

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BG100Z-../S..09 (S, X)	250.5	252.5	176	1239	124	157	1332	1346.5	1436	-
BG100-../S..11 (S, M, L)	319	87	218	1142	165	176	1240	1249.5	1342	-
BG100Z-../S..11 (S, M, L)	319	259	218	1314	165	176	1412	1421.5	1514	-
Dimensions in millimetres (mm)										

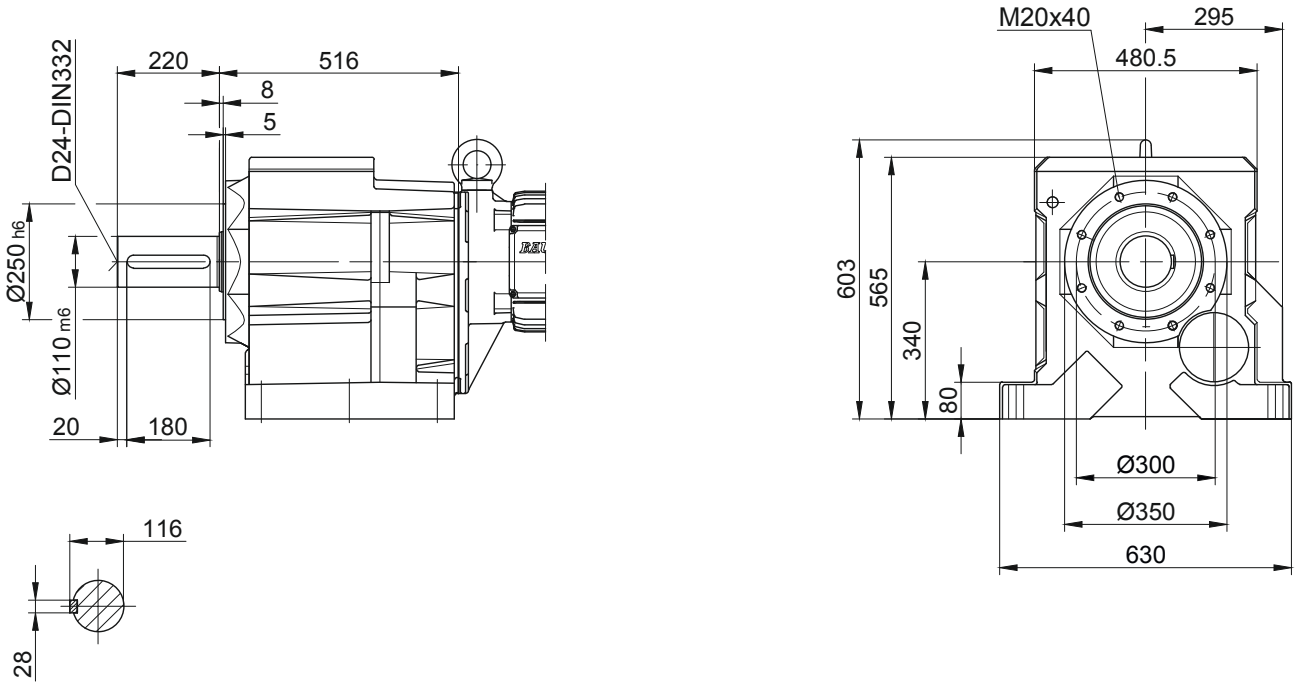
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG100-BG100Z

Flange with clearance holes
Code -37/
(Code -47/)



Flange with tapped holes
Code -71/



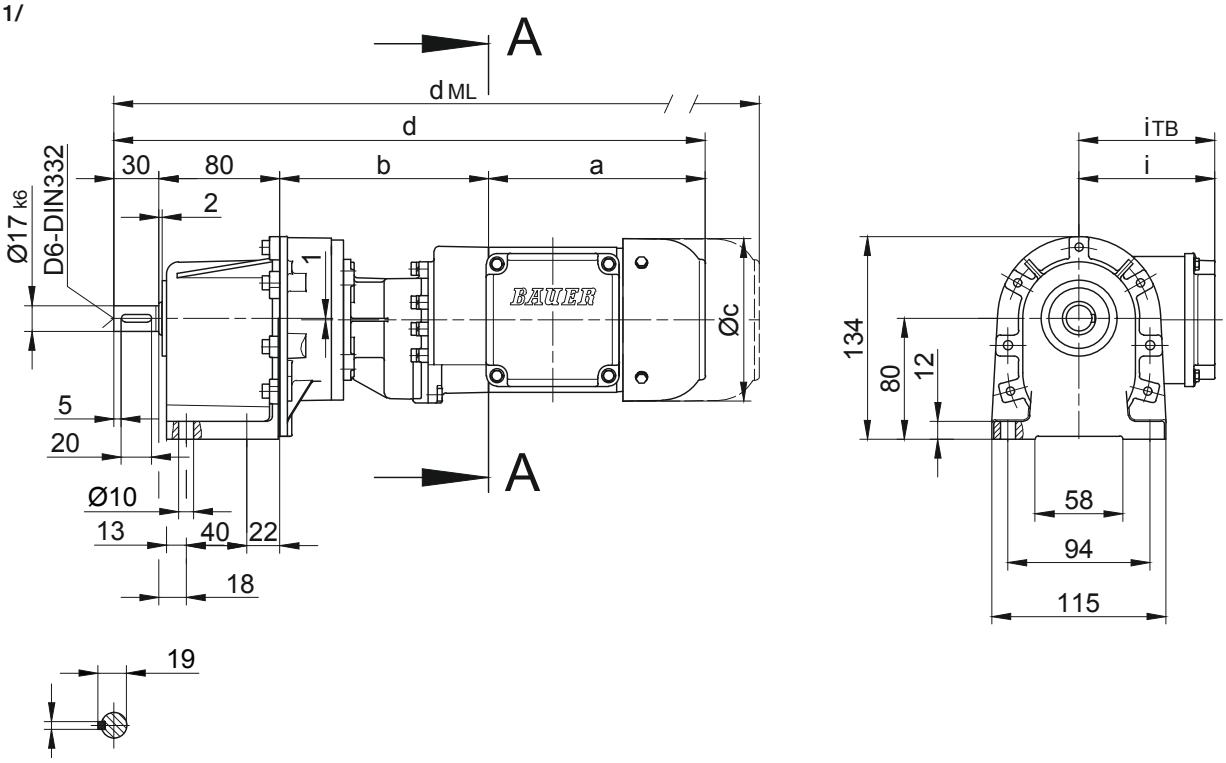
10

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG06G04

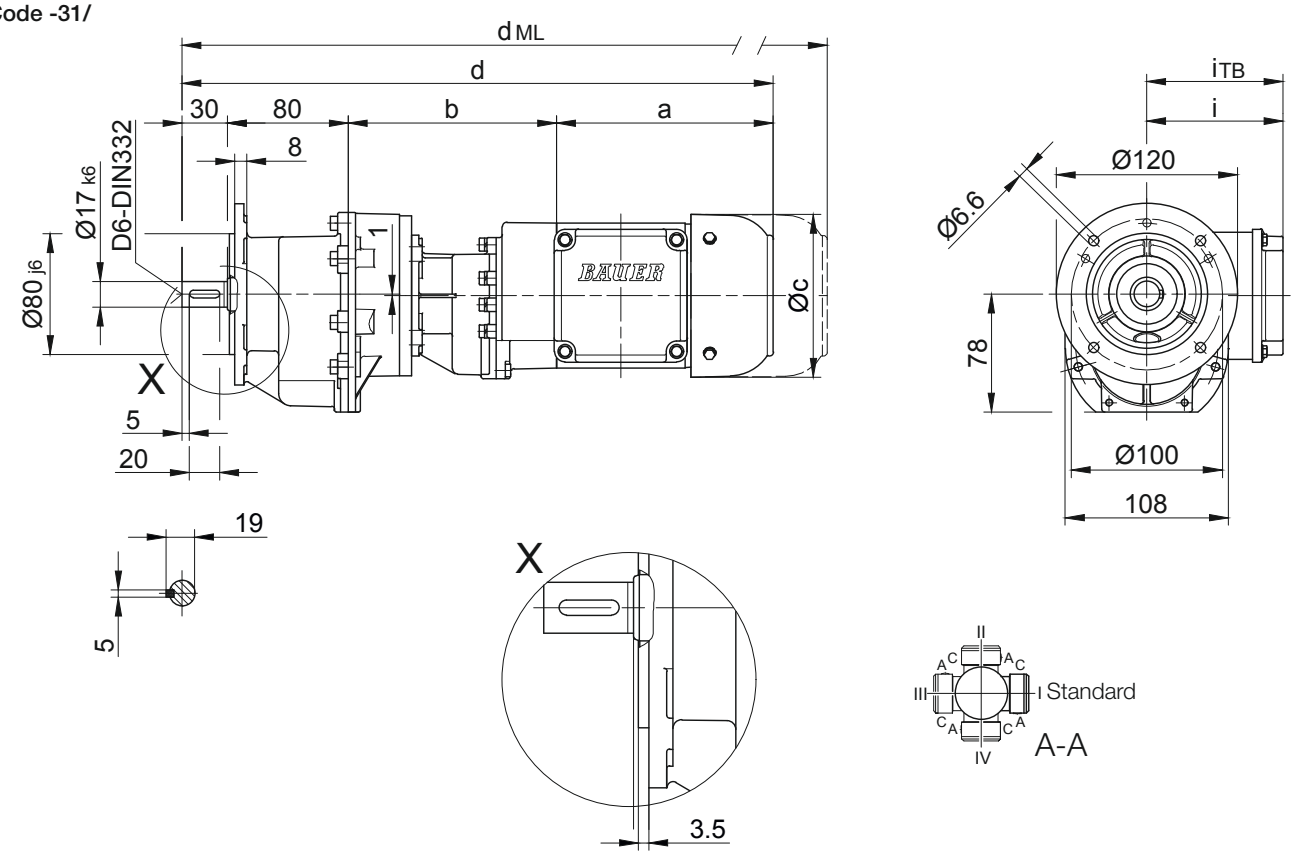
Foot mounting

Code -11/



Flange with clearance holes

Code -31/



Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BG06G04-../S04S	142.5	134	110.5	386.5	90	112	430	474	517.5	-
Dimensions in millimetres (mm)										

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

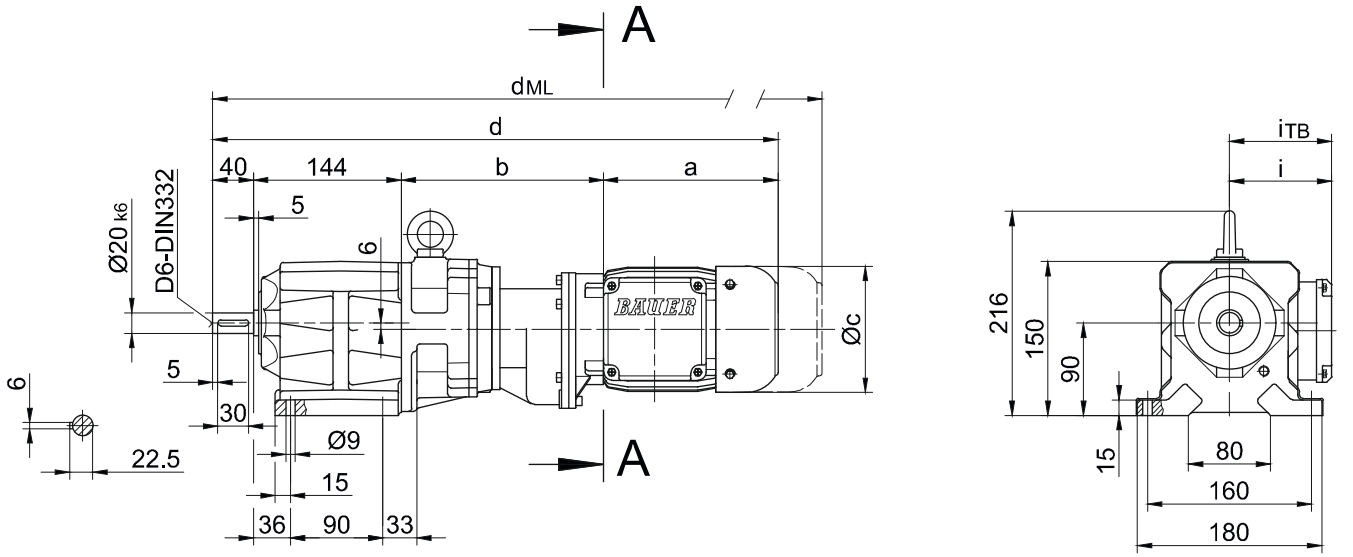
BG-series helical-geared motors

Dimension - Tandem Gearbox

BG10G06

Foot mounting with clearance holes

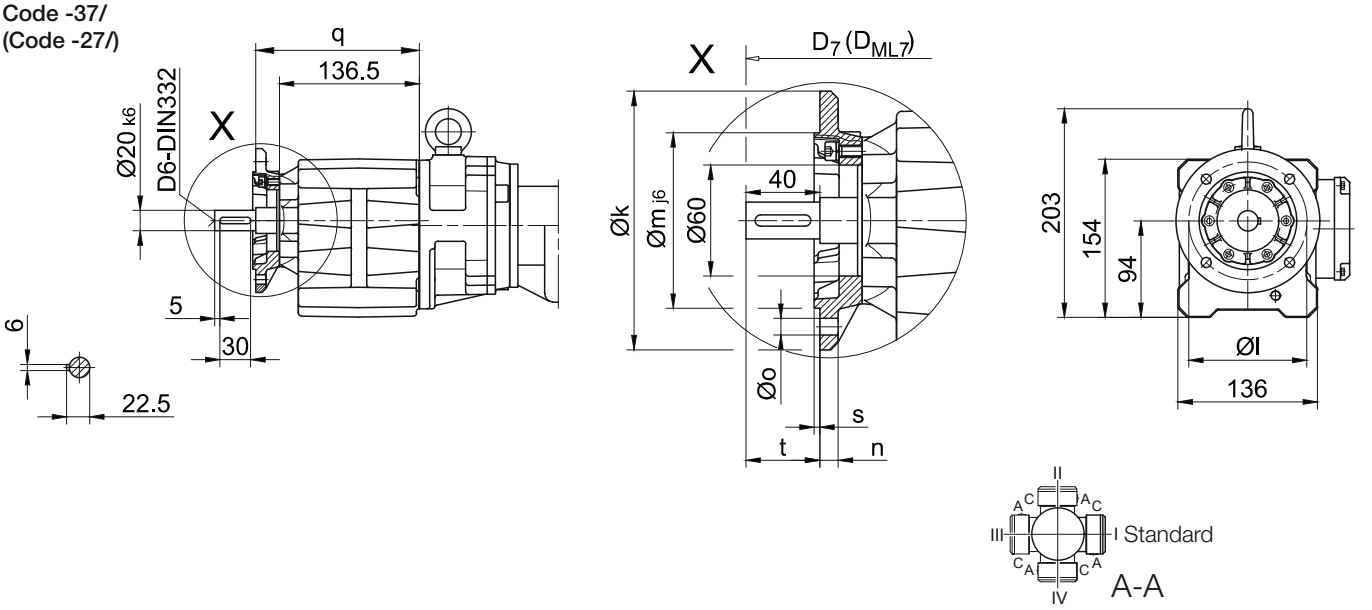
Code -11/



Flange with clearance holes

Code -37/

(Code -27/)



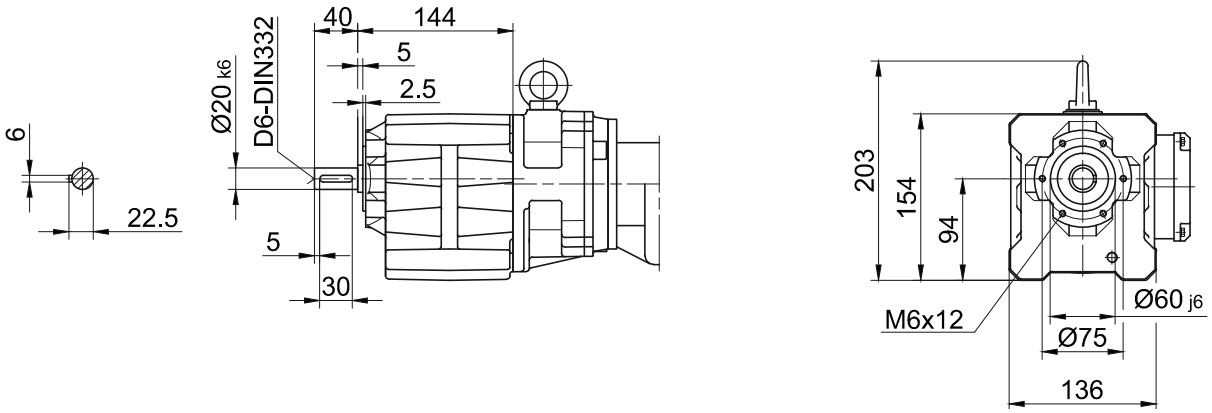
Flange Dimensions											
Type	Design	k	l	m	n	o	q	s	t	D_7	D_{ML7}
BG10..	Code -37V/	140	115	95	10	9	159.5	3	40.5	d+15.5	d_{ML}+15.5
BG10..	Code -27V/	120	100	80	8	6.6	154.5	3	45.5	d+15.5	d_{ML}+15.5
Dimensions in millimetres (mm)											

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BG10G06-../S04S	142.5	195	110.5	521.5	90	112	565	609	652.5	-
BG10G06-../S..06 (M, L)	170.5	197	123	551.5	99	119	593.5	654	691.5	-
BG10G06-../S..08 (M, L)	199.5	241	156	624.5	114.5	136.5	690.5	736.5	798	-
Dimensions in millimetres (mm)										

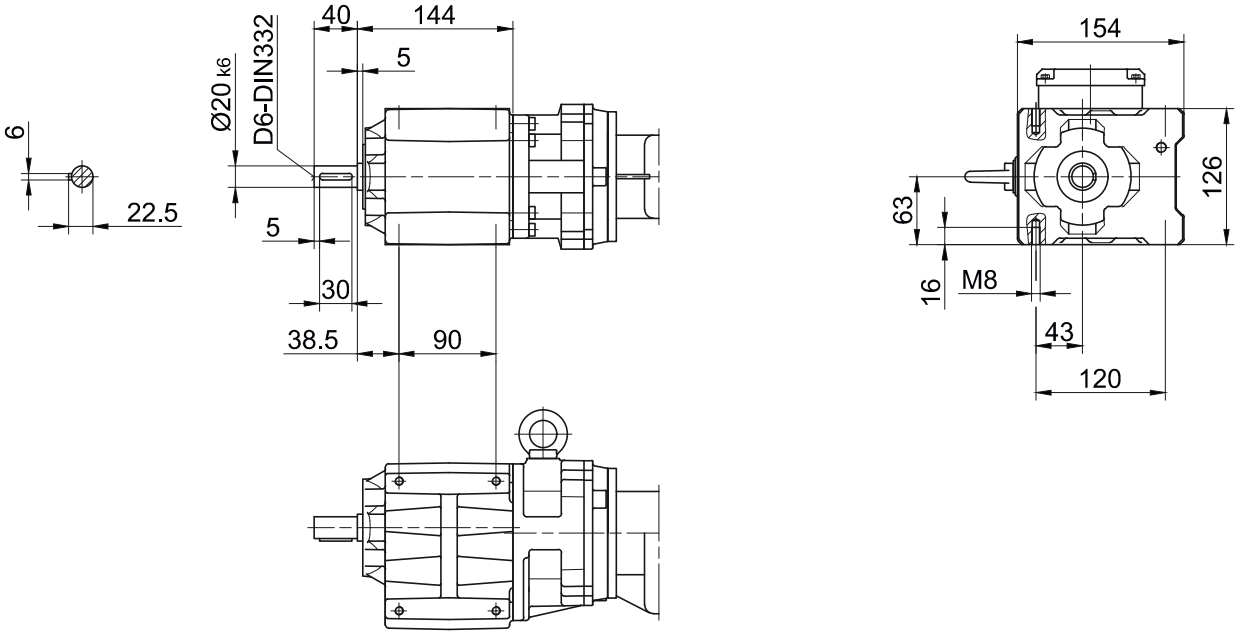
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG10G06

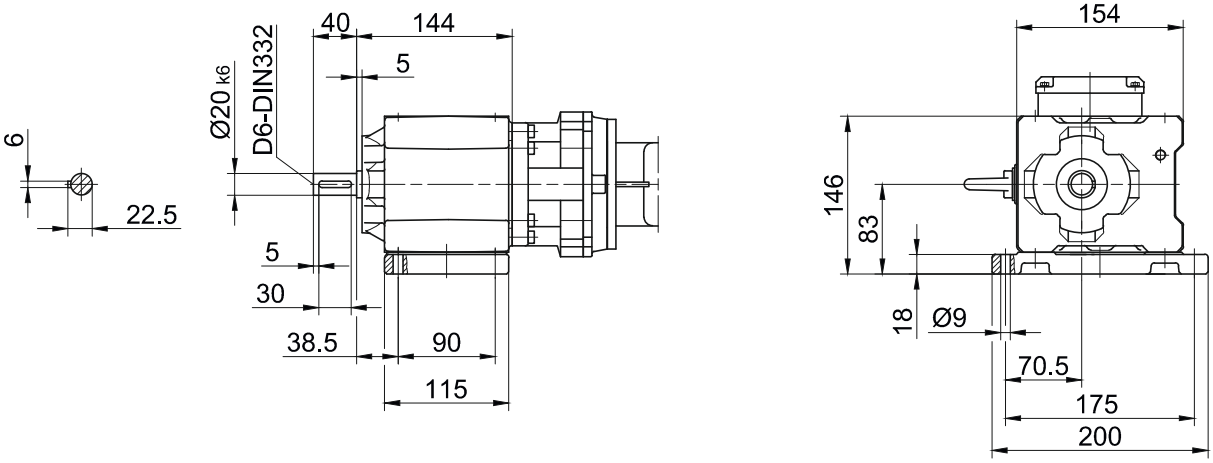
Flange with tapped holes
Code -71/



Foot with tapped holes left and right
Code -61LR/



Foot plate left
Code -91L/



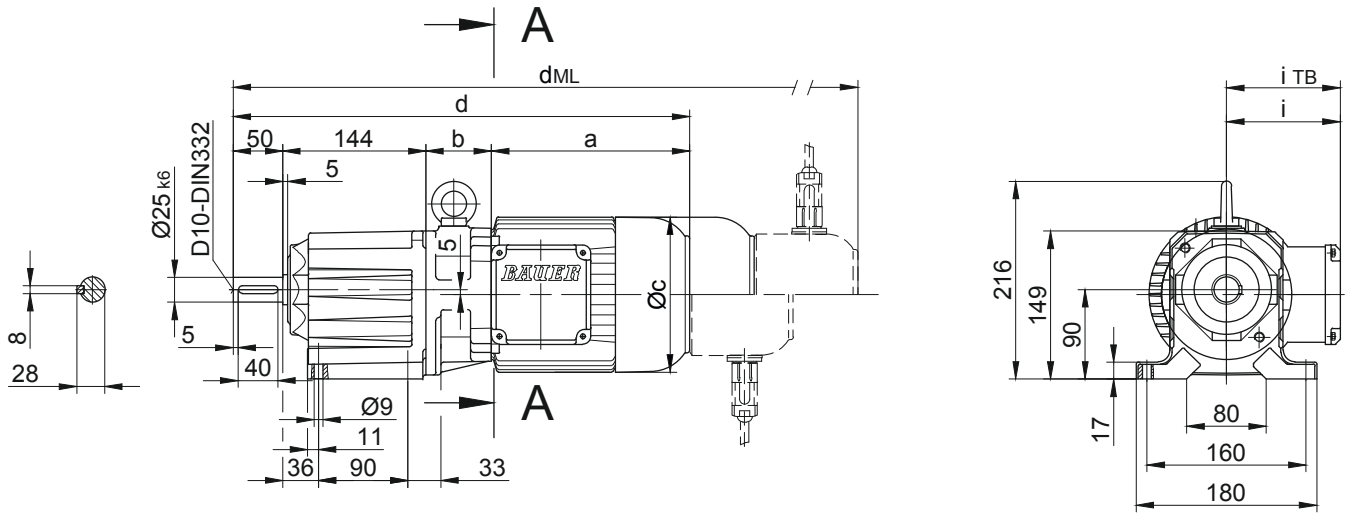
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG-series helical-geared motors

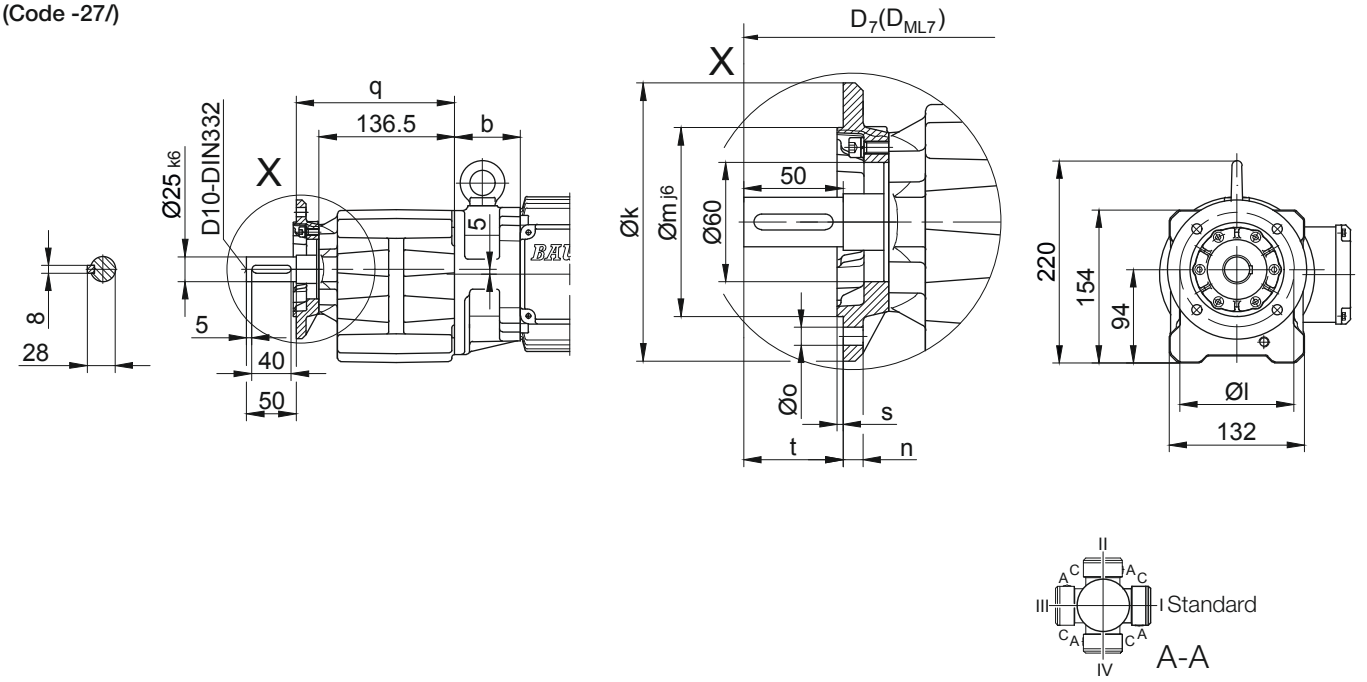
Dimension - Tandem Gearbox

BG10XG06

Foot mounting with clearance holes
Code -11/



Flange with clearance holes
Code -37/
(Code -27/)



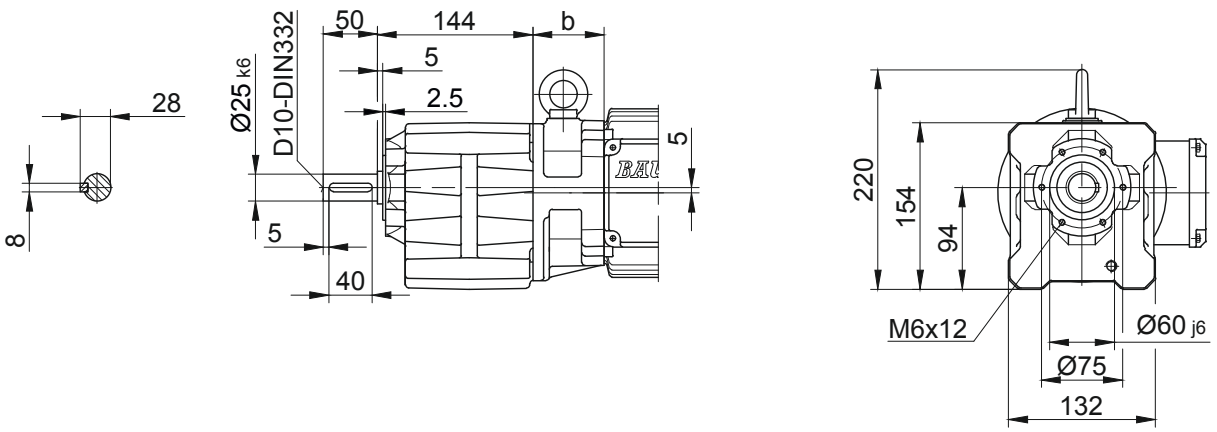
Flange Dimensions											
Type	Design	k	l	m	n	o	q	s	t	D_7	D_{ML7}
BG10X..	Code -37V/	140	115	95	10	9	159.5	3	50.5	d+15.5	d_{ML}+15.5
BG10X..	Code -27V/	120	100	80	8	6.6	154.5	3	55.5	d+15.5	d_{ML}+15.5
Dimensions in millimetres (mm)											

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BG10XG06-../S04S	142.5	195	110.5	531.5	90	112	575	619	662.5	-
BG10XG06-../S..06 (M, L)	170.5	197	123	561.5	99	119	603.5	664	701.5	-
BG10XG06-../S..08 (M, L)	199.5	241	156	634.5	114.5	136.5	700.5	746.5	808	-
Dimensions in millimetres (mm)										

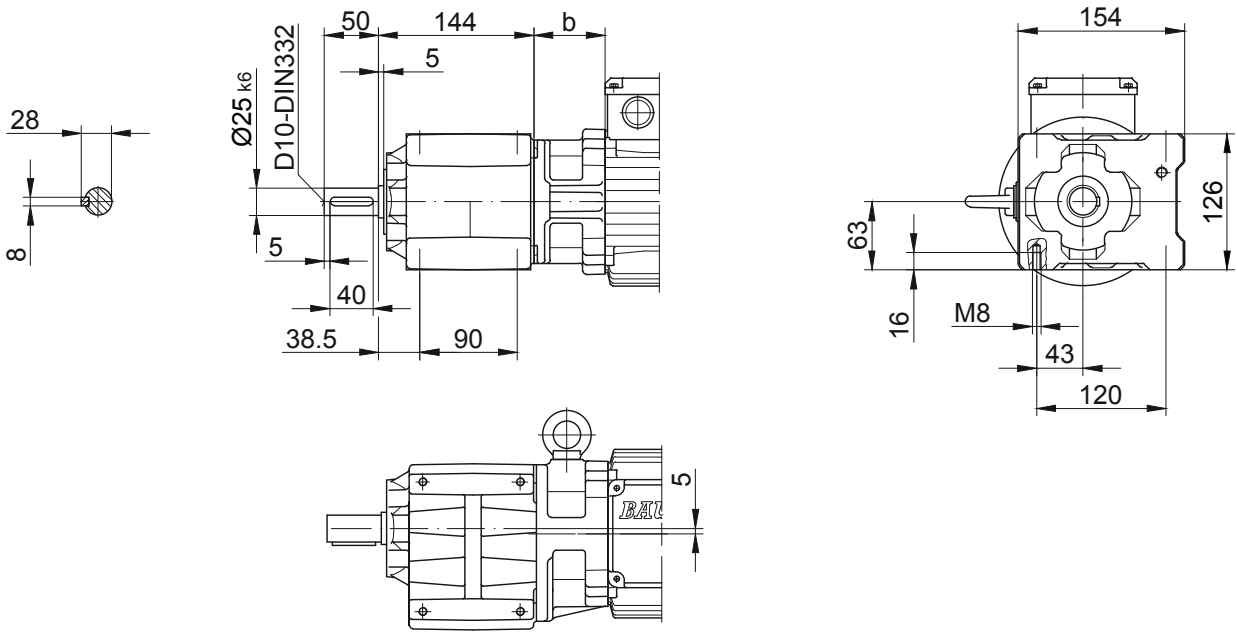
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG10XG06

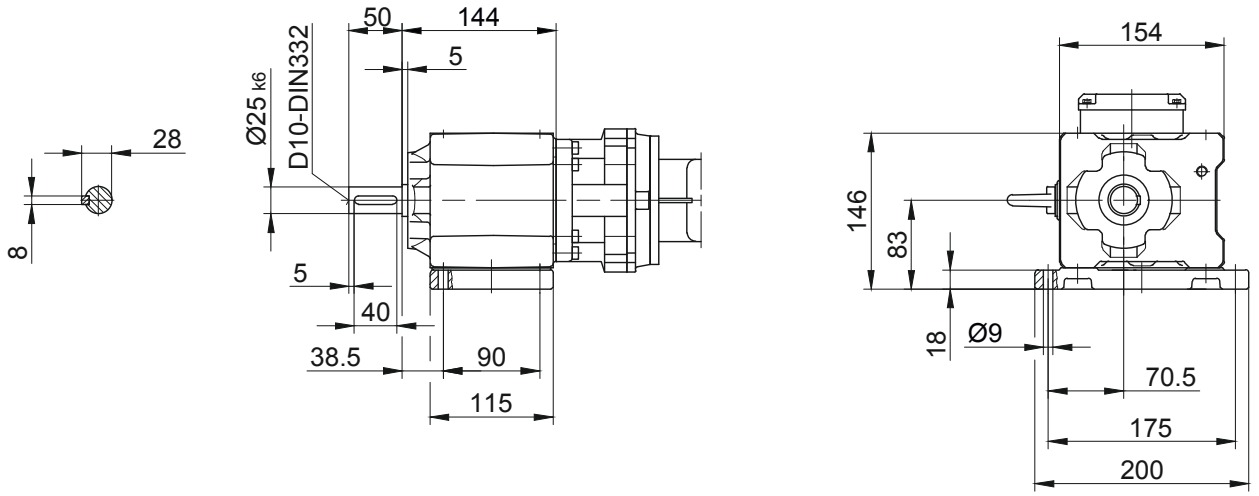
Flange with tapped holes
Code -71/



Foot with tapped holes left and right
Code -61LR/



Foot plate left
Code -91L/



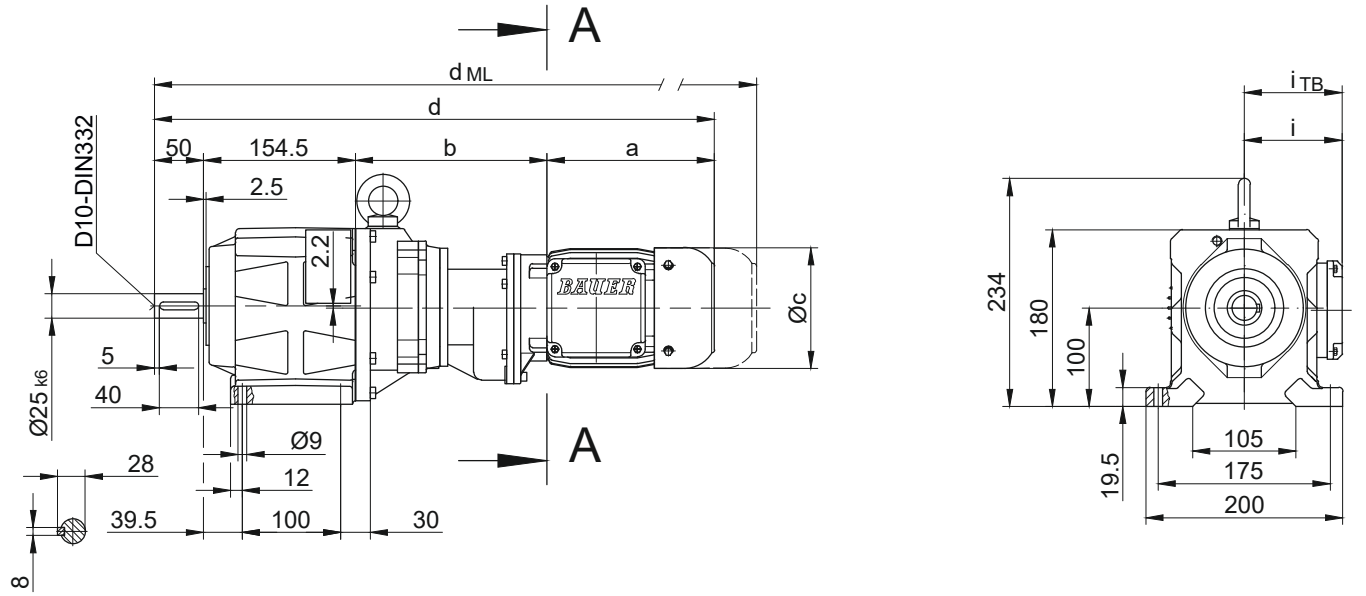
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG-series helical-geared motors

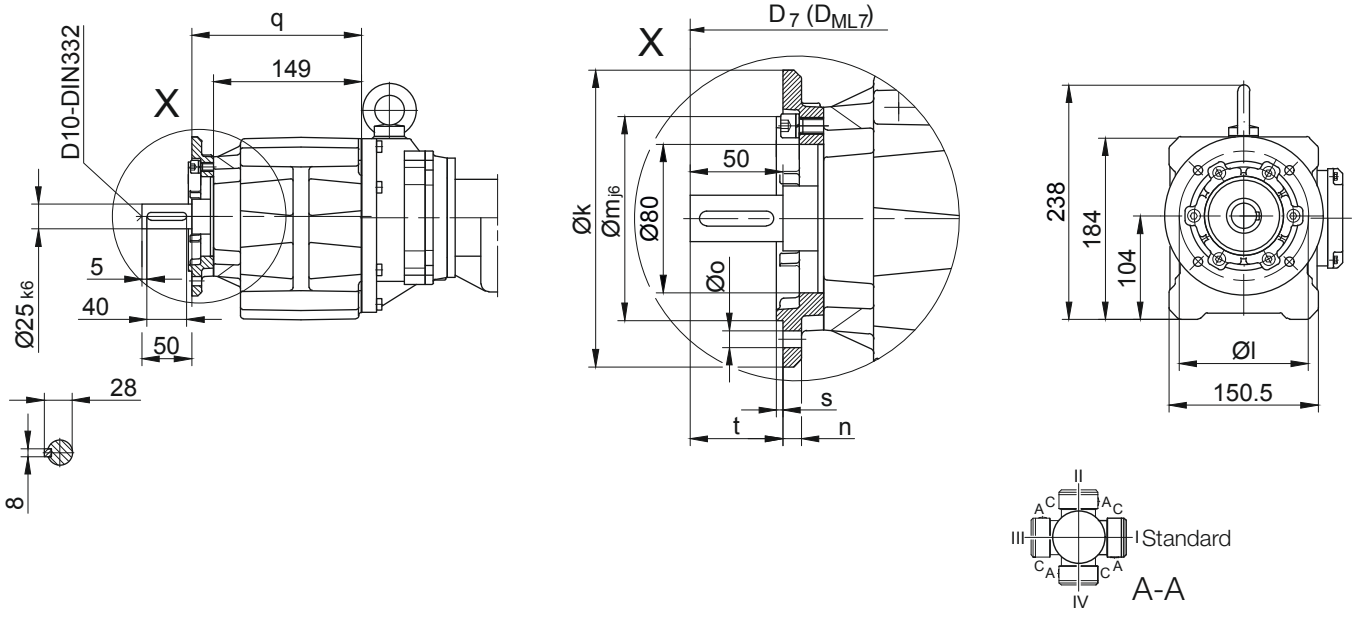
Dimension - Tandem Gearbox

BG20G06

Foot mounting with clearance holes
Code -11/



Flange with clearance holes
Code -37/
(Code -47/)



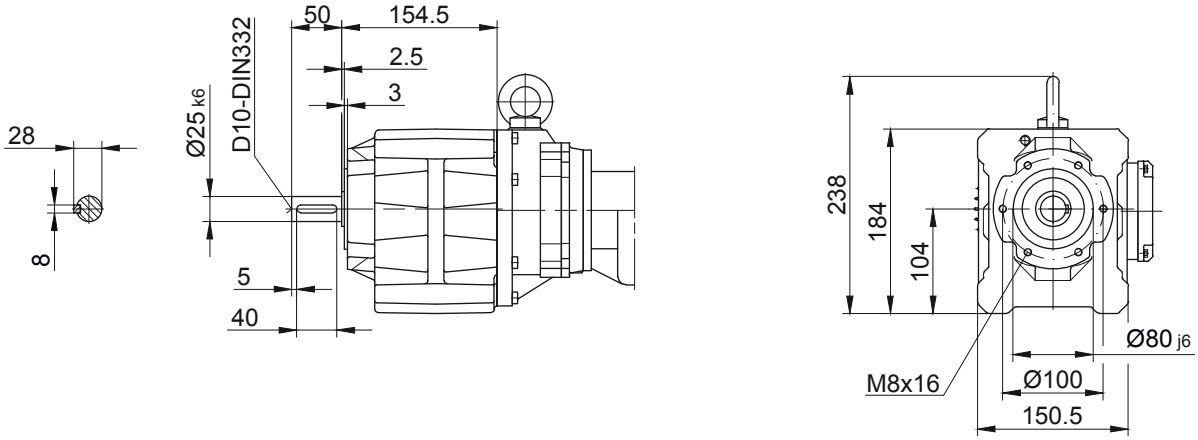
Flange Dimensions											
Type	Design	k	l	m	n	o	q	s	t	D_7	D_{ML7}
BG20..	Code -37V/	160	130	110	10	9	171	3.5	50.5	d+16.5	d_{ML}+16.5
BG20..	Code -47V/	200	165	130	12	11	178	3.5	43.5	d+16.5	d_{ML}+16.5
Dimensions in millimetres (mm)											

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BG20G06-../S04S	142.5	193	110.5	540	90	112	583.5	627.5	671	-
BG20G06-../S..06 (M, L)	170.5	195	123	570	99	119	612	672.5	710	-
BG20G06-../S..08 (M, L)	199.5	239	156	643	114.5	136.5	709	755	816.5	-
Dimensions in millimetres (mm)										

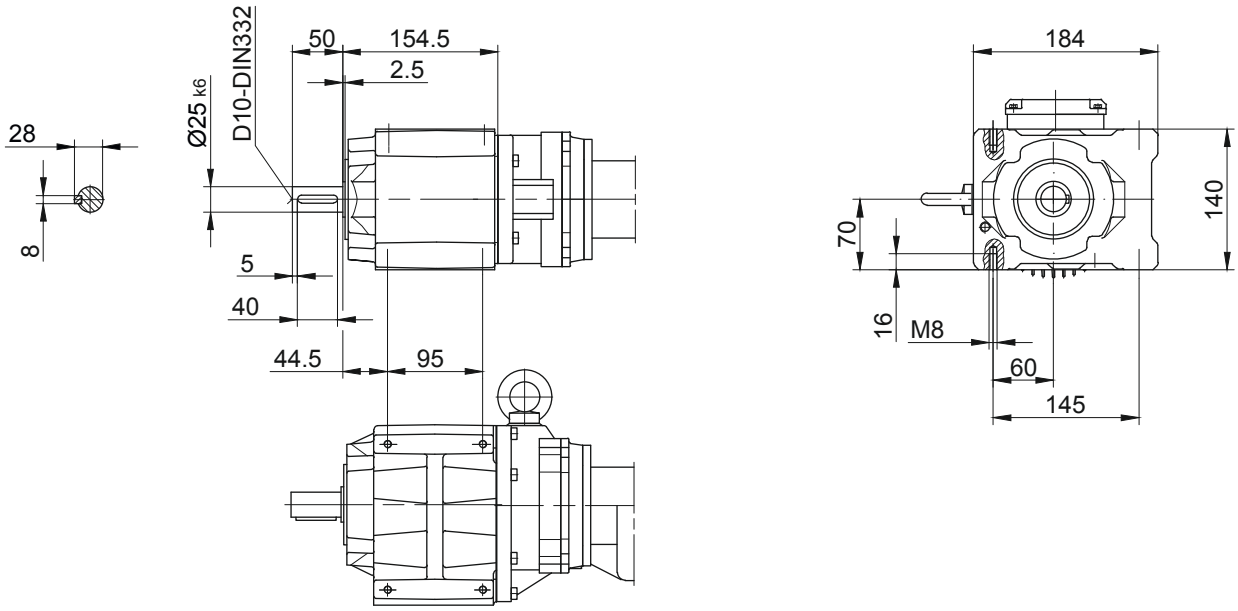
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG20G06

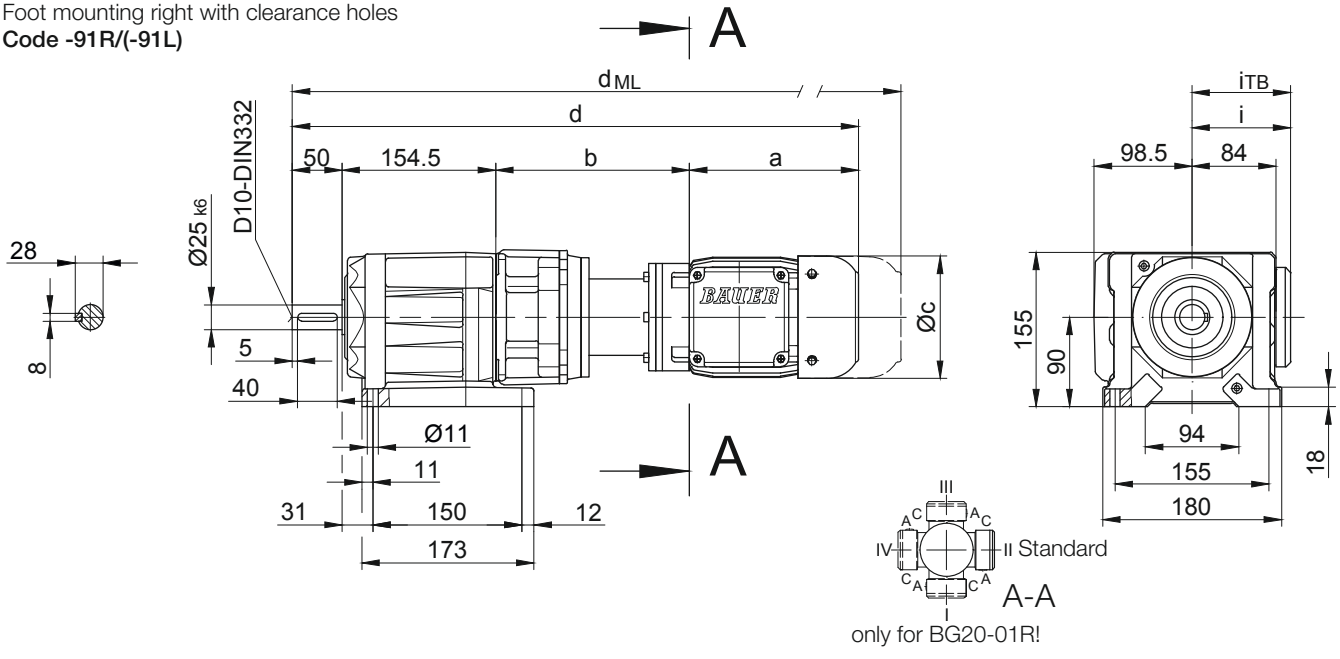
Flange with tapped holes
Code -71/



Foot with tapped holes left and right
Code -61LR/



Foot mounting right with clearance holes
Code -91R/(-91L)



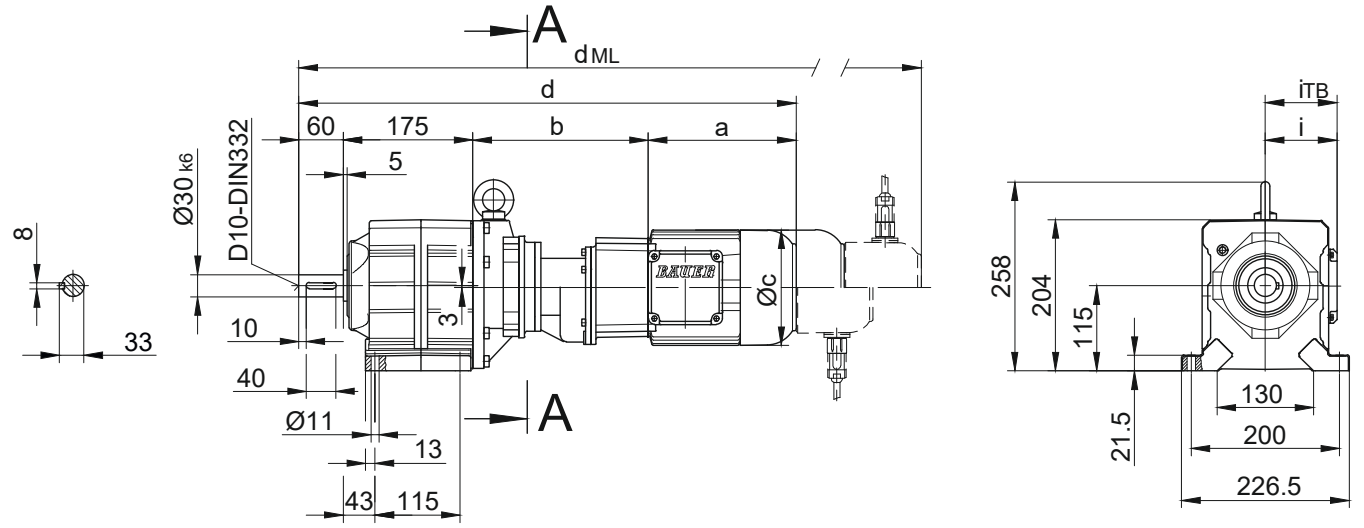
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG-series helical-geared motors

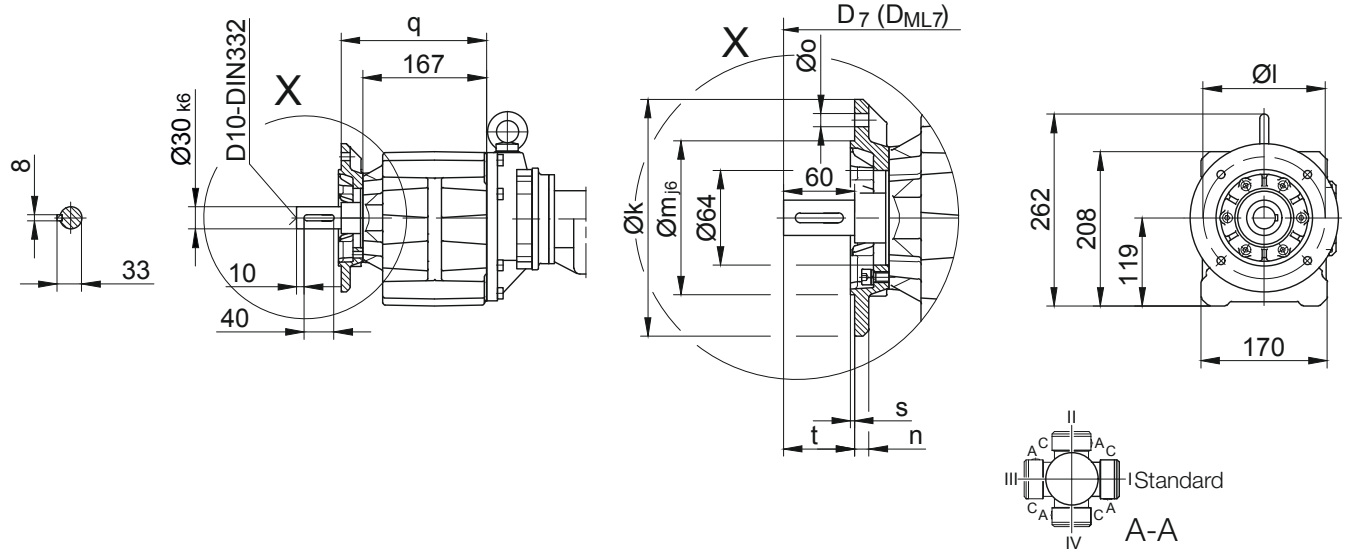
Dimension - Tandem Gearbox

BG30G06

Foot mounting with clearance holes
Code -11/



Flange with clearance holes
Code -37/
(Code -27/)



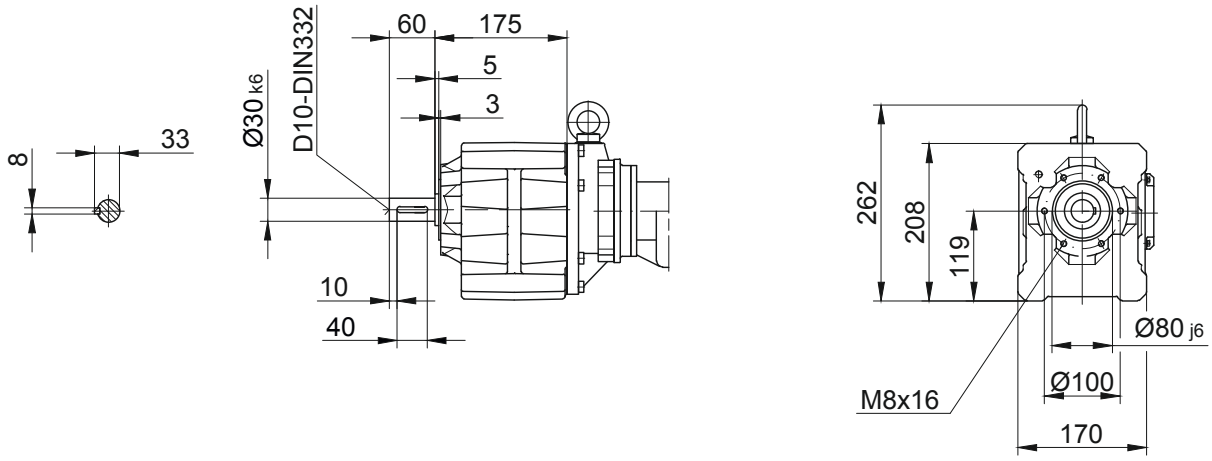
Flange Dimensions											
Type	Design	k	l	m	n	o	q	s	t	D_7	D_{ML7}
BG30..	Code -37/	200	165	130	12	11	196	3.5	60.5	d+21	d_{ML}+21
BG30..	Code -27/	160	130	110	10	9	189	3.5	67.5	d+21	d_{ML}+21
Dimensions in millimetres (mm)											

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BG30G06-../S04S	142.5	191	110.5	568.5	90	112	612	656	699.5	-
BG30G06-../S..06 (M, L)	170.5	193	123	598.5	99	119	640.5	701	738.5	-
BG30G06-../S..08 (M, L)	199.5	237	156	671.5	114.5	136.5	737.5	783.5	845	-
Dimensions in millimetres (mm)										

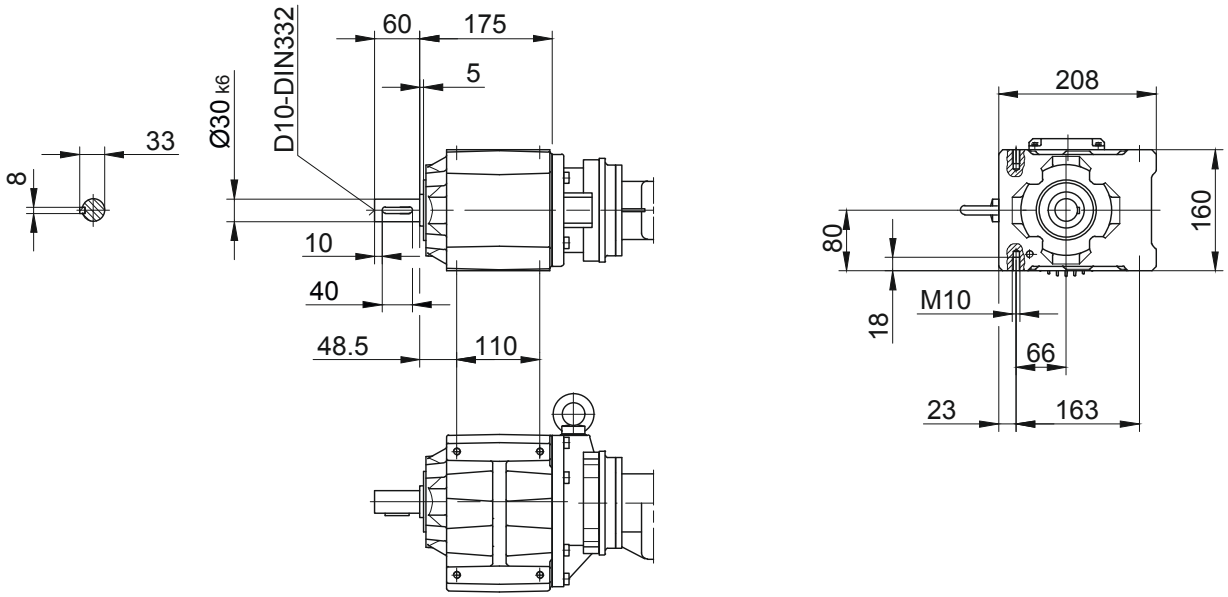
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG30G06

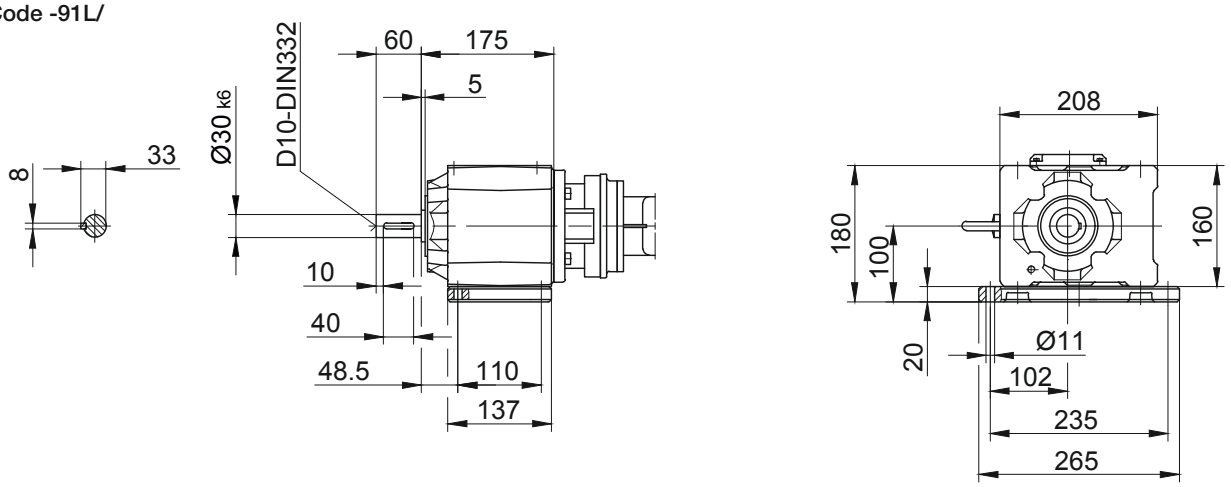
Flange with tapped holes
Code -71/



Foot with tapped holes left and right
Code -61LR/



Foot plate left
Code -91L/



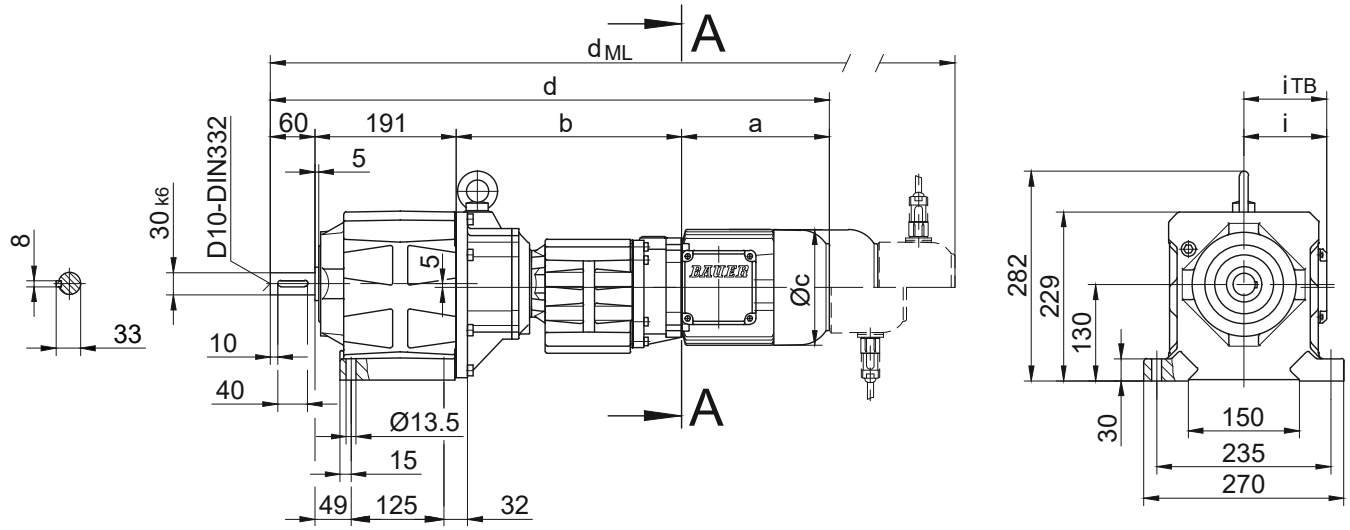
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG-series helical-geared motors

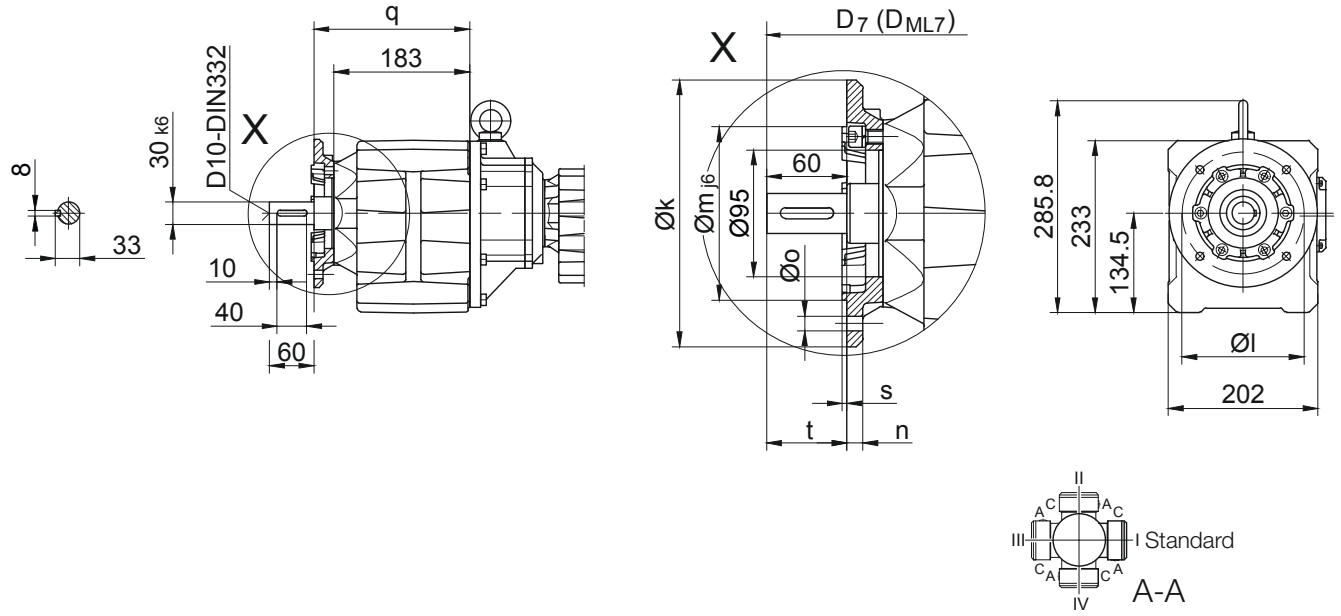
Dimension - Tandem Gearbox

BG40G10

Foot mounting with clearance holes
Code -11/



Flange with clearance holes
Code -37/
(Code -47/)



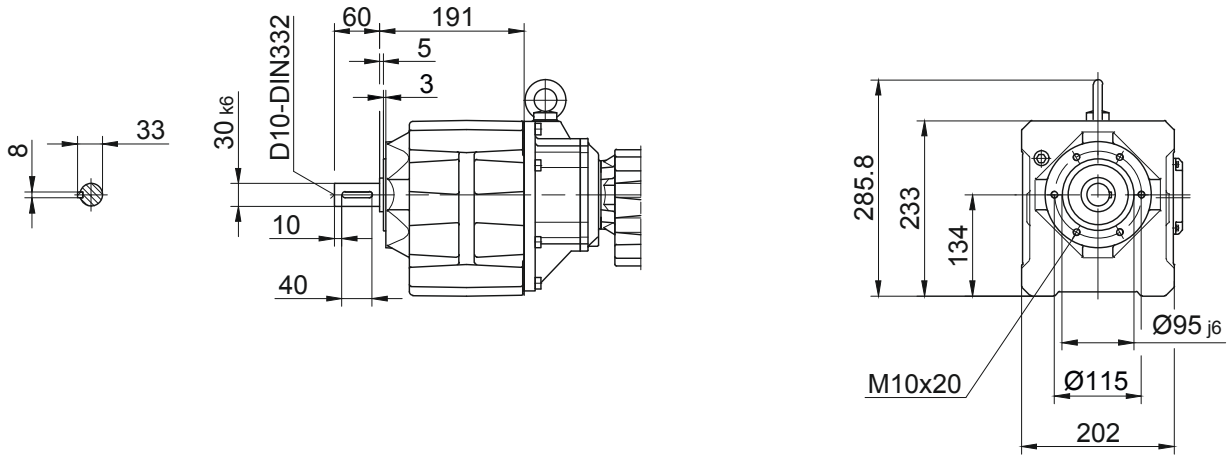
Flange Dimensions											
Type	Design	k	l	m	n	o	q	s	t	D_7	D_{ML7}
BG40..	Code -37/	200	165	130	12	11	210	3.5	61	d+19	d_{ML}+19
BG40..	Code -47/	250	215	180	16	13.5	219	4	52	d+19	d_{ML}+19
Dimensions in millimetres (mm)											

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BG40G10-../S..06 (M, L)	170.5	300	123	721.5	99	119	763.5	824	861.5	-
BG40G10-../S..08 (M, L)	199.5	304	156	754.5	114.5	136.5	820.5	866.5	928	-
BG40G10-../S..09 (S, X)	250.5	318.5	176	820	124	157	913	927.5	1017	-
Dimensions in millimetres (mm)										

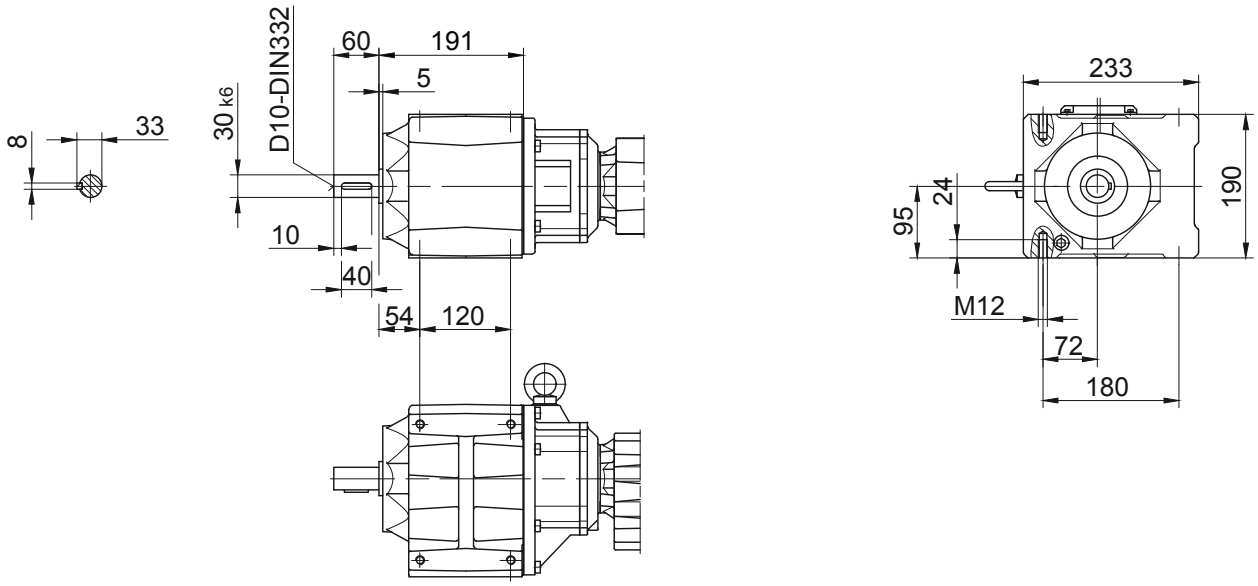
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG40G10

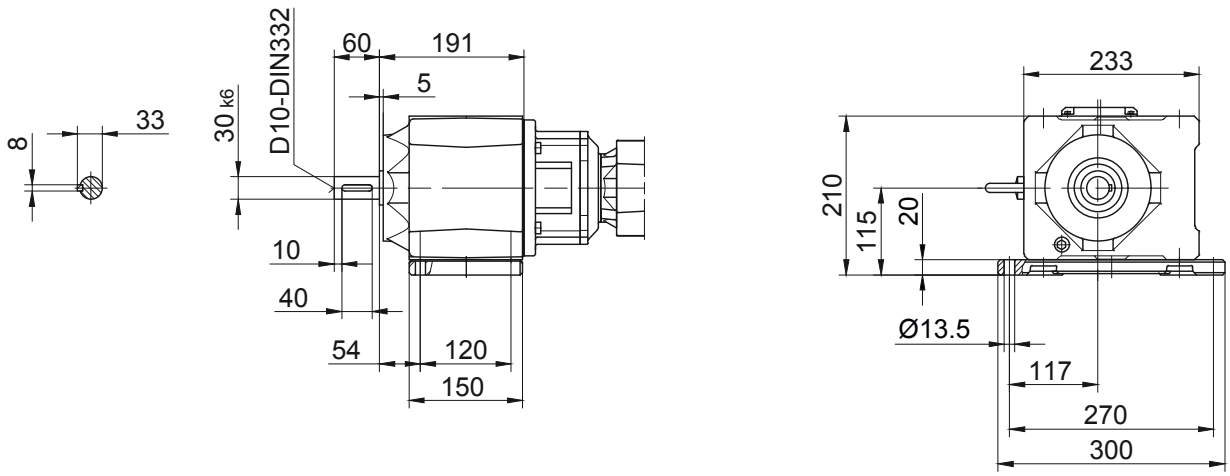
Flange with tapped holes
Code -71/



Foot with tapped holes left and right
Code -61LR/



Foot plate left
Code -91L/



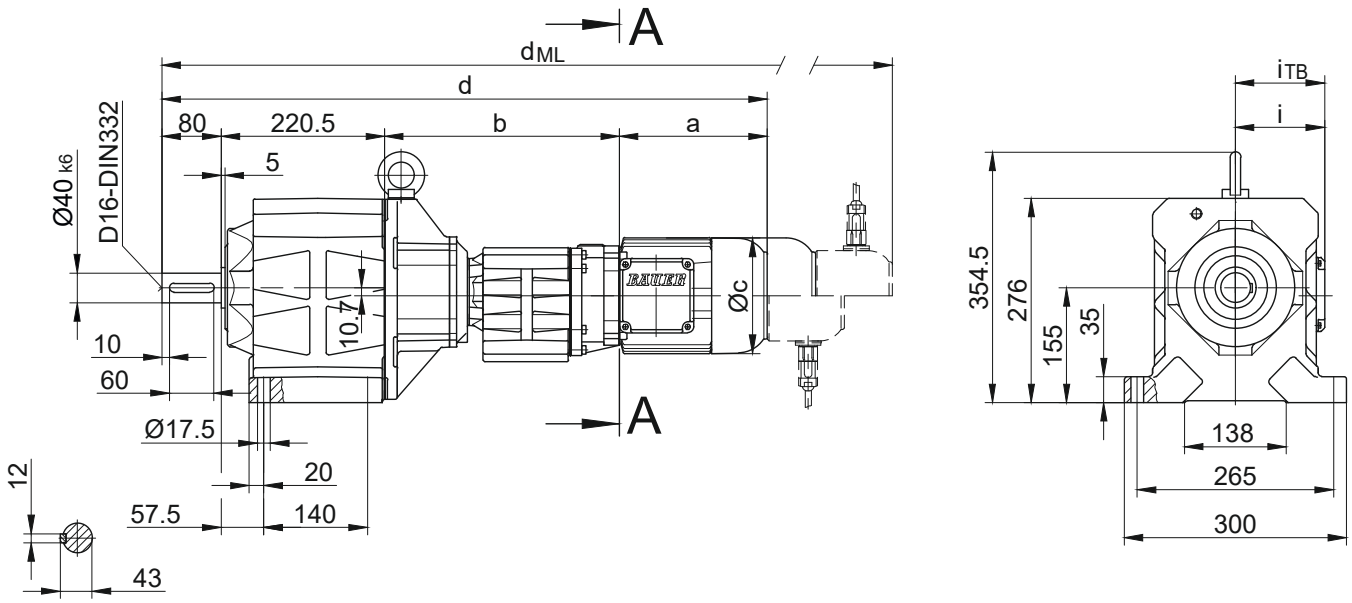
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG-series helical-geared motors

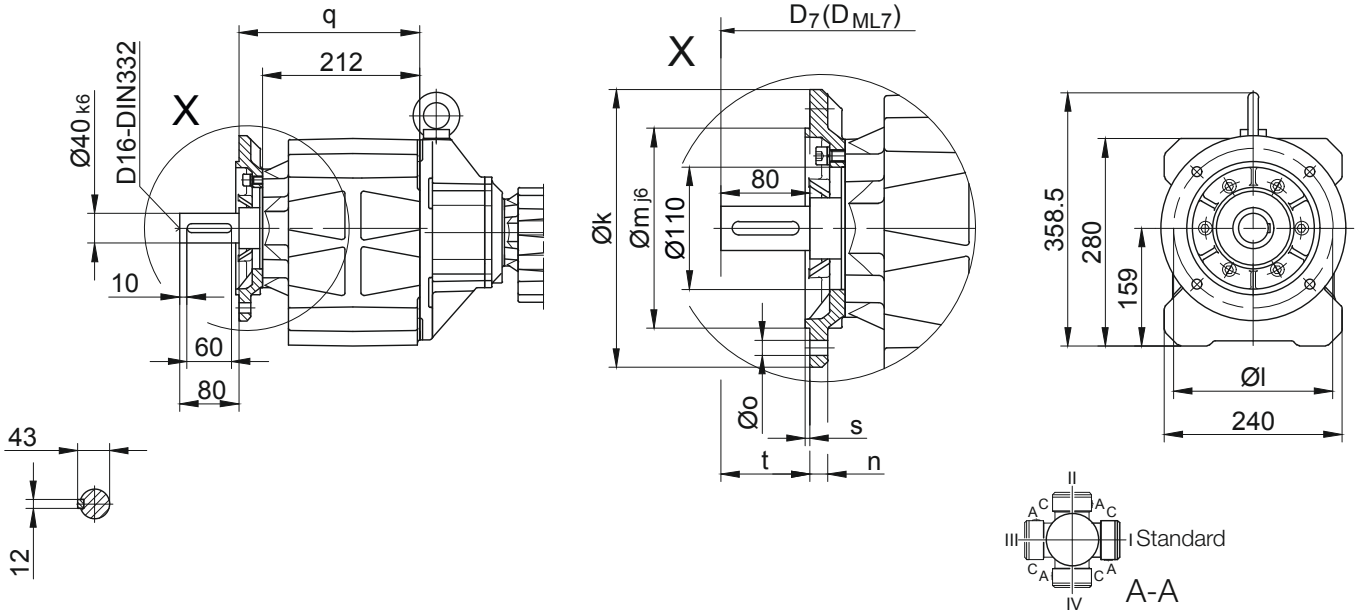
Dimension - Tandem Gearbox

BG50G10

Foot mounting with clearance holes
Code -11/



Flange with clearance holes
Code -37/
(Code -27/)



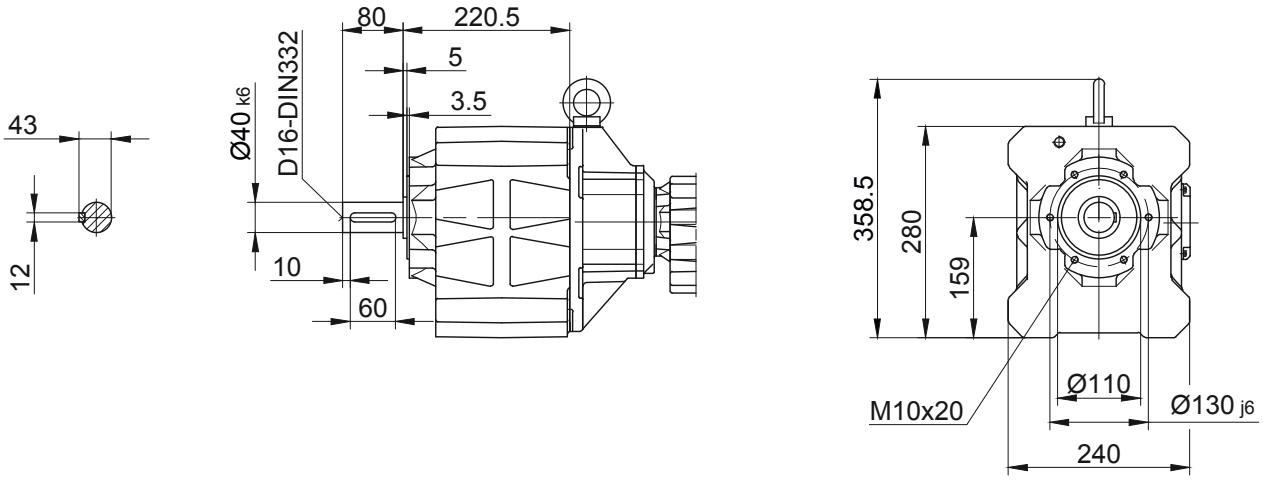
Flange Dimensions											
Type	Design	k	l	m	n	o	q	s	t	D_7	D_{ML7}
BG50..	Code -37/	250	215	180	16	13.5	244	4	80.5	d+23.5	d_{ML}+23.5
BG50..	Code -27/	200	165	130	12	11	241	3.5	83.5	d+23.5	d_{ML}+23.5
Dimensions in millimetres (mm)											

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BG50G10-../S..06 (M, L)	170.5	313	123	784	99	119	826	886.5	924	-
BG50G10-../S..08 (M, L)	199.5	317	156	817	114.5	136.5	883	929	990.5	-
BG50G10-../S..09 (S, X)	250.5	331.5	176	882.5	124	157	975.5	990	1079.5	-
Dimensions in millimetres (mm)										

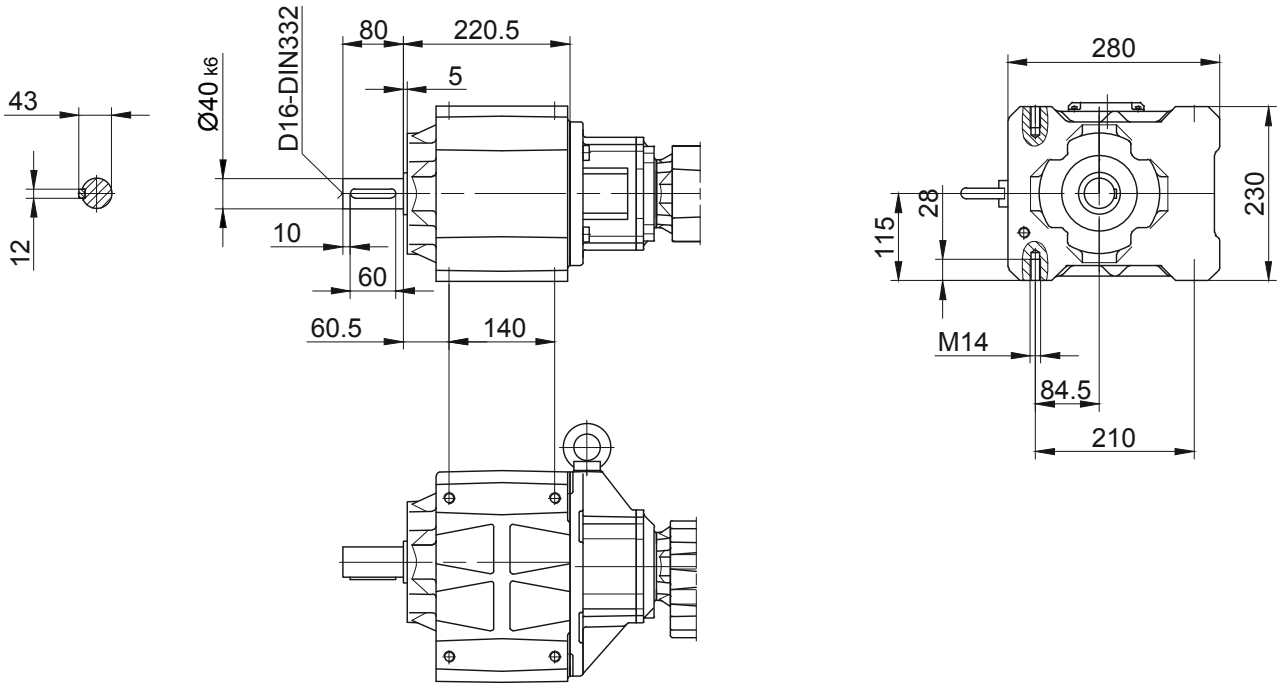
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG50G10

Flange with tapped holes
Code -71/



Foot with tapped holes left and right
Code -61LR/



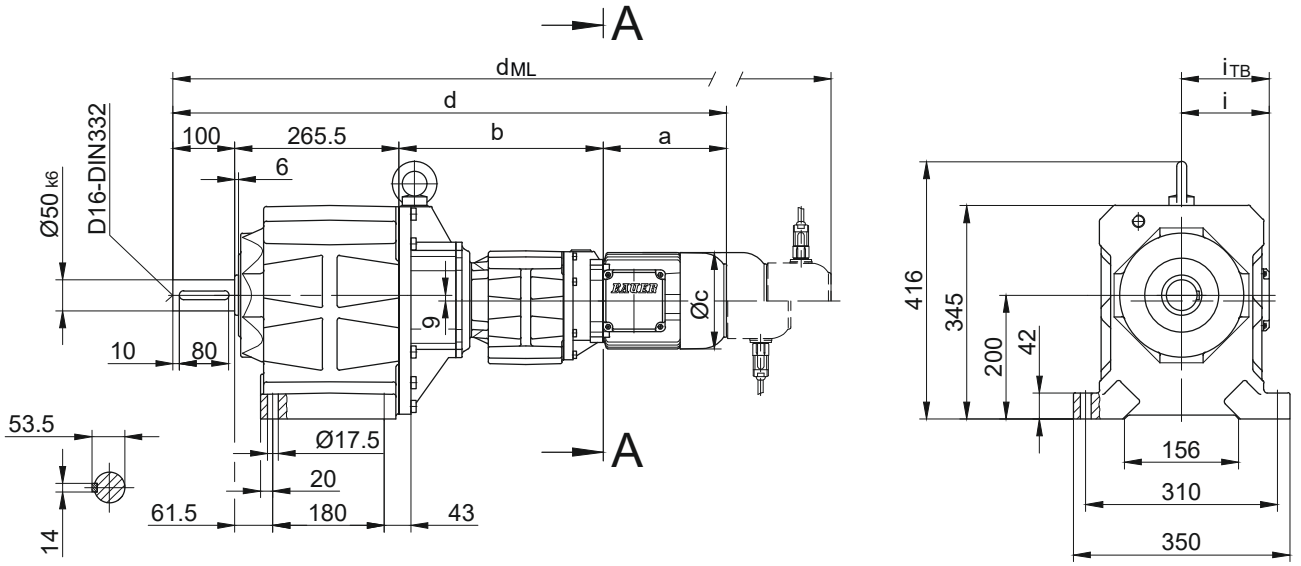
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG-series helical-geared motors

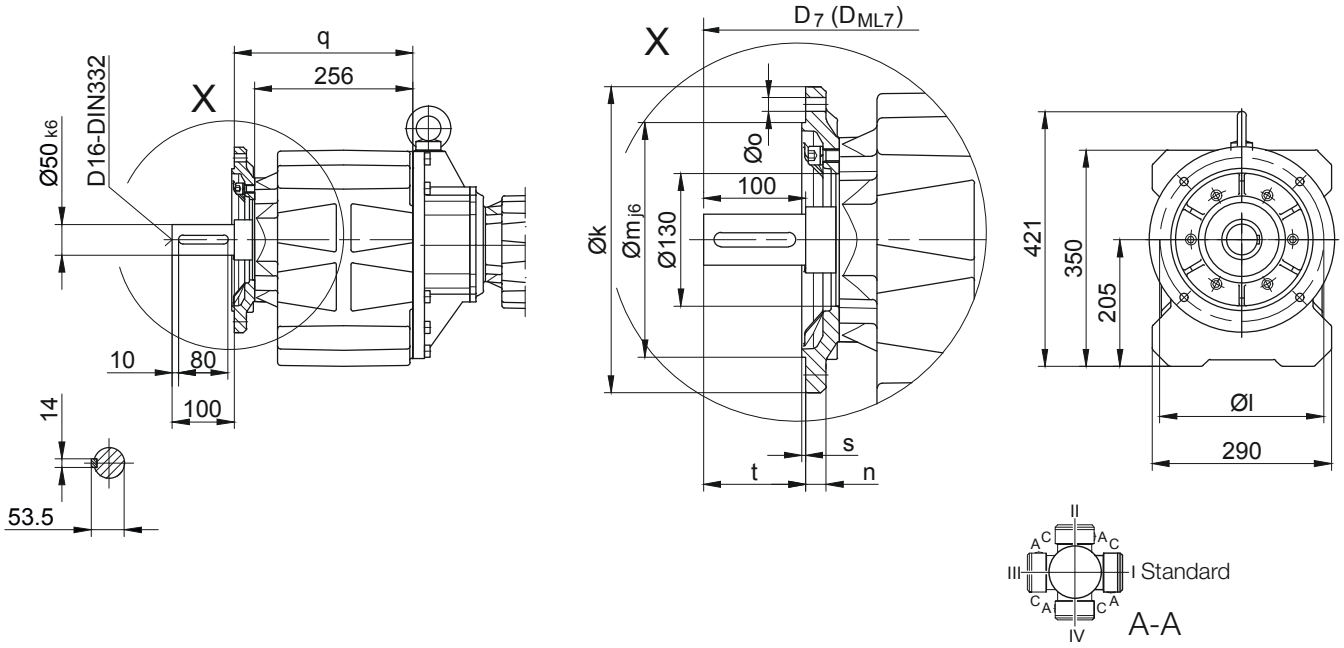
Dimension - Tandem Gearbox

BG60G20

Foot mounting with clearance holes
Code -11/



Flange with clearance holes
Code -37/
(Code -27/)



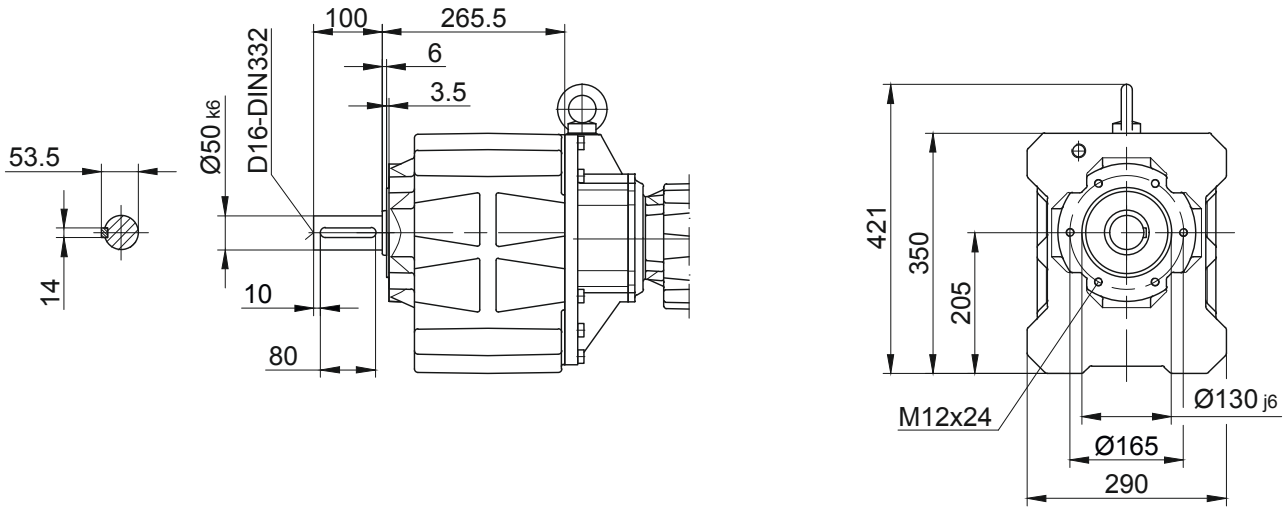
Flange Dimensions											
Type	Design	k	l	m	n	o	q	s	t	D_7	D_{ML7}
BG60..	Code -37/	300	265	230	20	13.5	289	4	100.5	d+23.5	d_{ML}+23.5
BG60..	Code -27/	250	215	180	16	13.5	286	4	103.5	d+23.5	d_{ML}+23.5
Dimensions in millimetres (mm)											

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BG60G20-../S..06 (M, L)	170.5	326	123	862	99	119	904	964.5	1002	-
BG60G20-../S..08 (M, L)	199.5	330	156	895	114.5	136.5	961	1007	1068.5	-
BG60G20-../S..09 (S, X)	250.5	344.5	176	960.5	124	157	1053.5	1068	1157.5	-
Dimensions in millimetres (mm)										

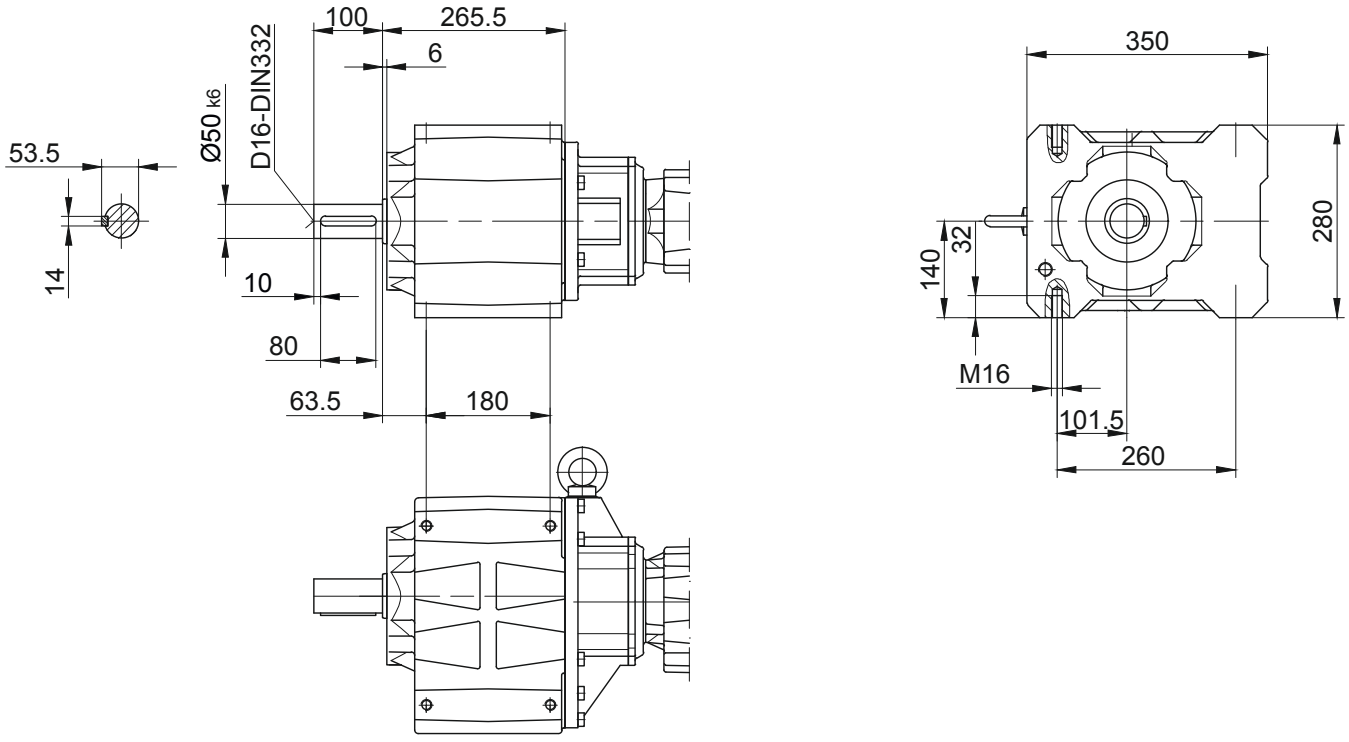
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG60G20

Flange with tapped holes
Code -71/



Foot with tapped holes left and right
Code -61LR/



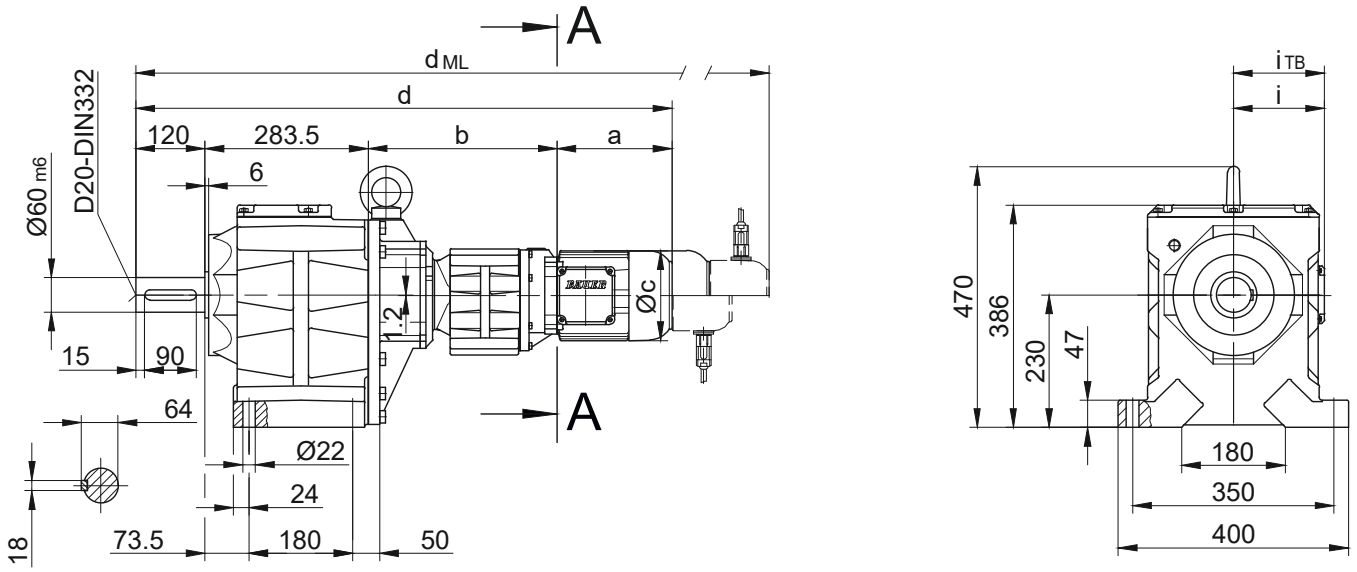
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG-series helical-geared motors

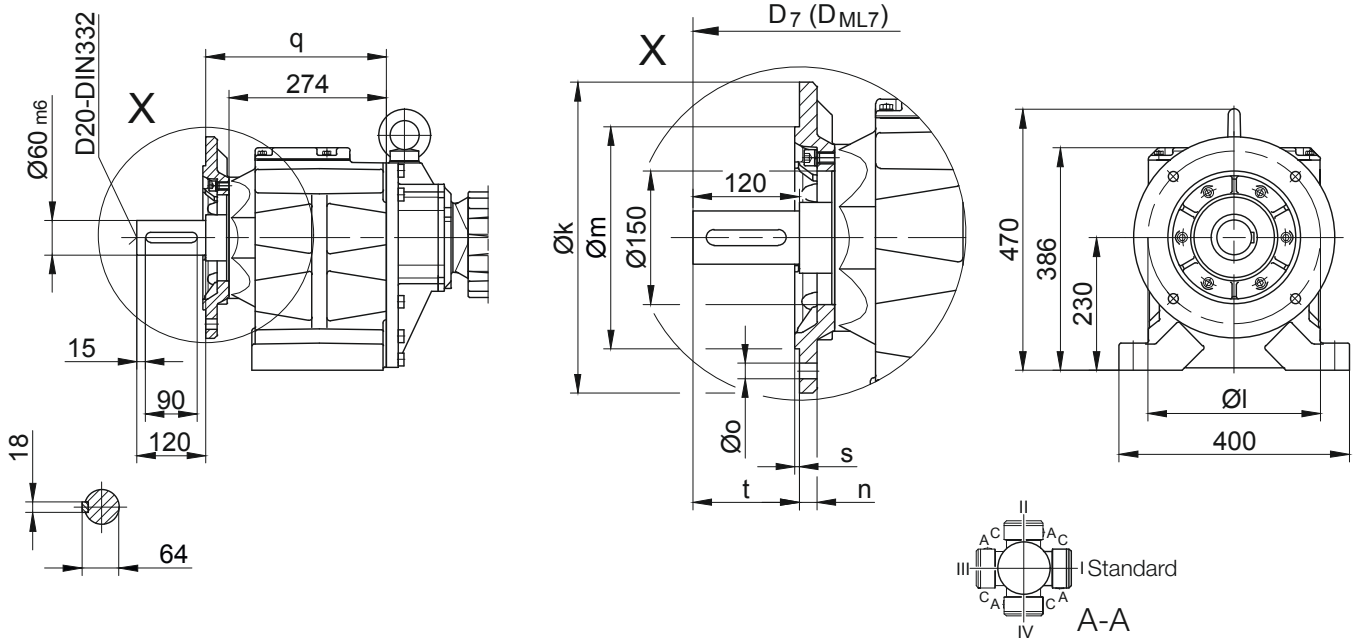
Dimension - Tandem Gearbox

BG70G20

Foot mounting with clearance holes
Code -11/



Flange with clearance holes
Code -37/
(Code -27/)



10

Flange Dimensions											
Type	Design	k	l	m	n	o	q	s	t	D_7	D_{ML7}
BG70..	Code -37/	350	300	250	20	17.5	314	5	120.5	d+30.5	d_{ML}+30.5
BG70..	Code -27/	300	265	230	20	13.5	322	4	113.5	d+30.5	d_{ML}+30.5
Dimensions in millimetres (mm)											

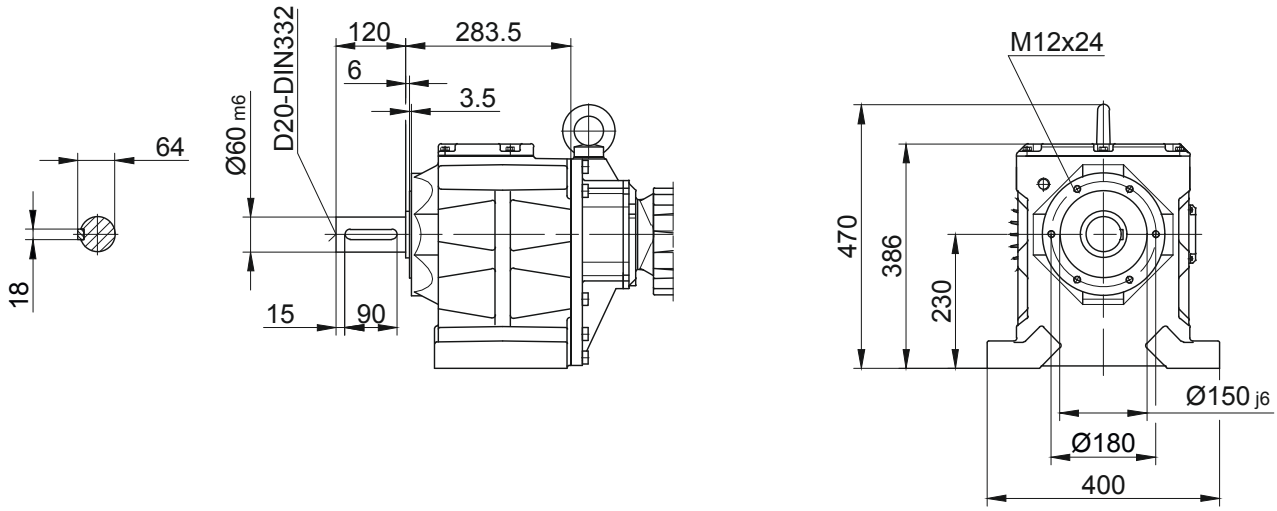
Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BG70G20-../S..06 (M, L)	170.5	324	123	898	99	119	940	1000.5	1038	-
BG70G20-../S..08 (M, L)	199.5	328	156	931	114.5	136.5	997	1043	1104.5	-
BG70G20-../S..09 (S, X)	250.5	342.5	176	996.5	124	157	1089.5	1104	1193.5	-
Dimensions in millimetres (mm)										

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG70G20

Flange with tapped holes

Code -71/



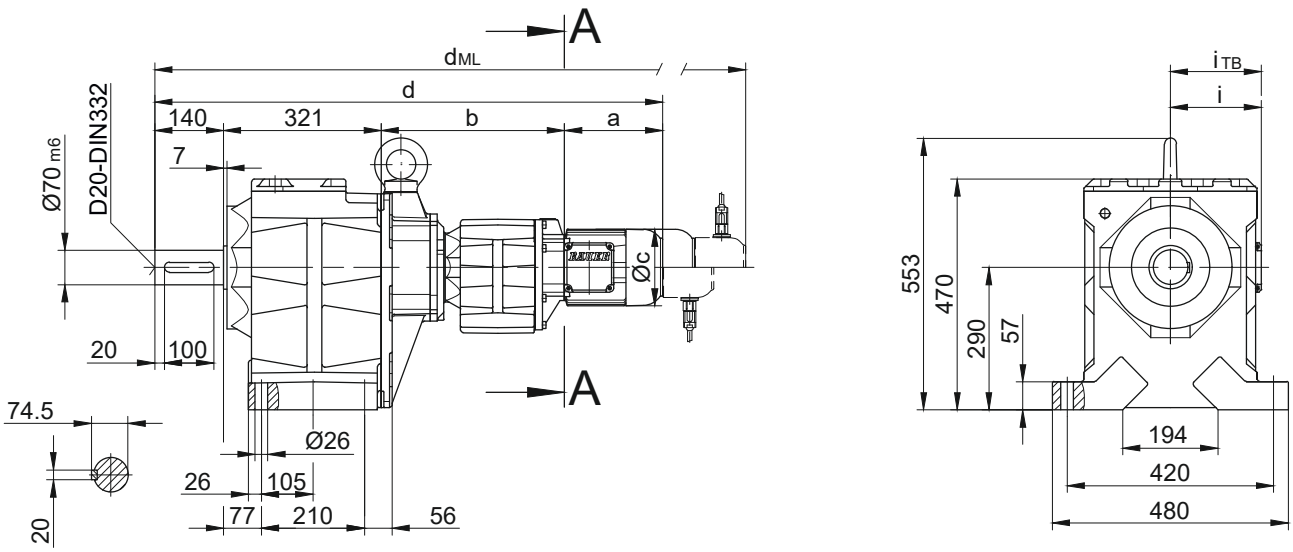
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG-series helical-geared motors

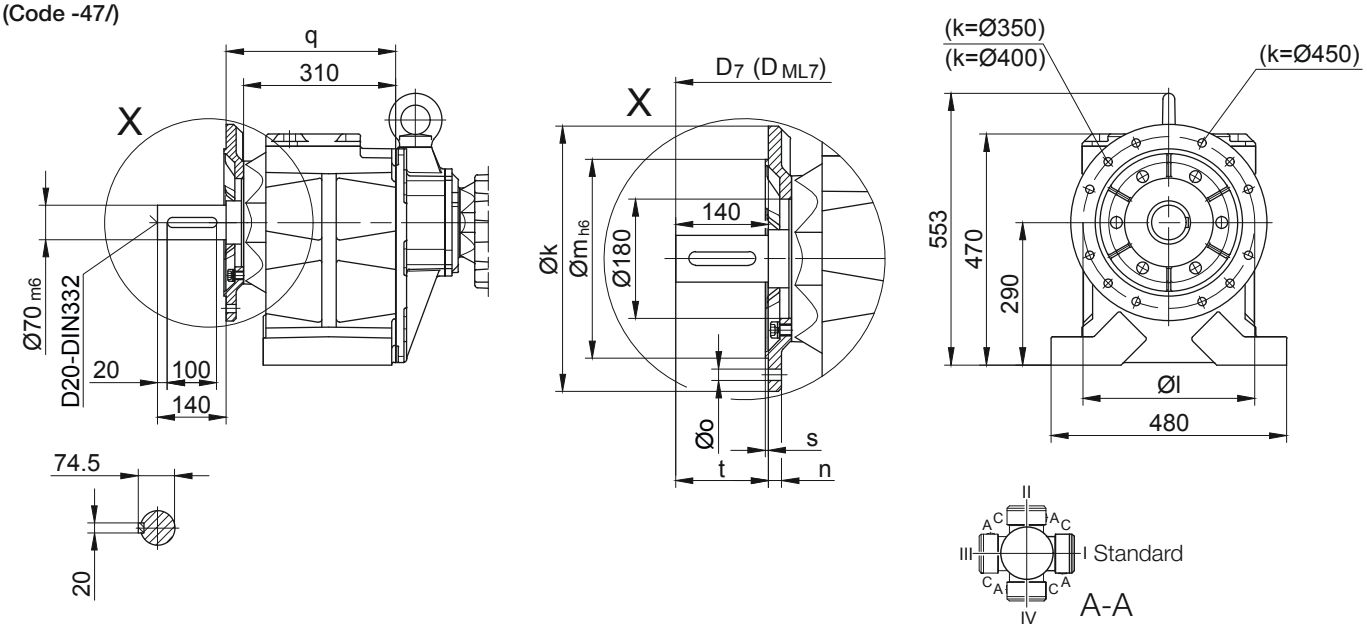
Dimension - Tandem Gearbox

BG80G40

Foot mounting with clearance holes
Code -11/



Flange with clearance holes
Code -37/
(Code -27/)
(Code -47/)

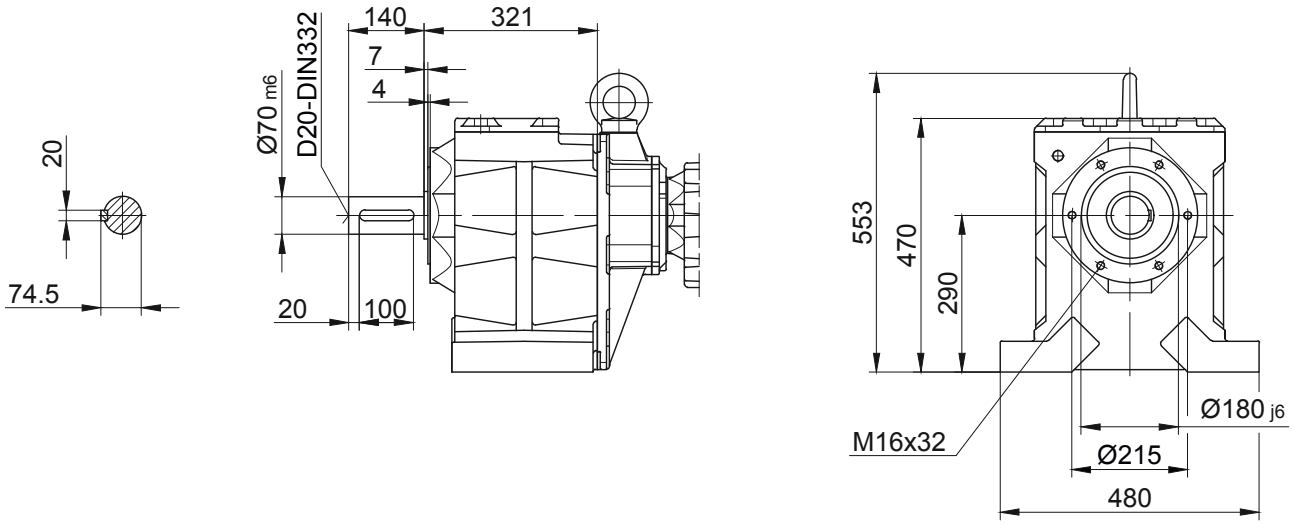


Flange Dimensions											
Type	Design	k	l	m	n	o	q	s	t	D_7	D_{ML7}
BG80..	Code -37/	400	350	300	20	4 x 17.5	345	5	141	d+24	d_{ML}+24
BG80..	Code -27/	350	300	250	20	4 x 17.5	345	5	141	d+24	d_{ML}+24
BG80..	Code -47/	450	400	350	22	8 x 17.5	355	5	131	d+24	d_{ML}+24
Dimensions in millimetres (mm)											

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BG80G40-../S..08 (M, L)	199.5	373	156	1033.5	114.5	136.5	1099.5	1145.5	1207	-
BG80G40-../S..09 (S, X)	250.5	387.5	176	1099	124	157	1192	1206.5	1296	-
BG80G40-../S..11 (S, M, L)	319	394	218	1174	165	176	1272	1281.5	1374	-
Dimensions in millimetres (mm)										

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG80G40
Flange with tapped holes
Code -71/



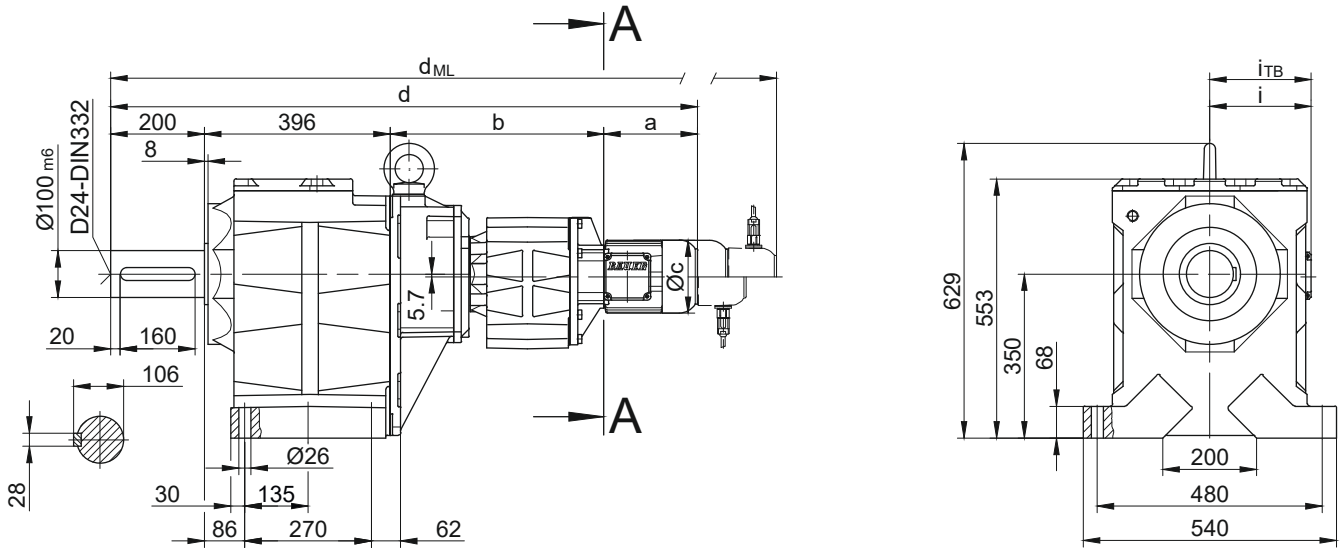
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG-series helical-geared motors

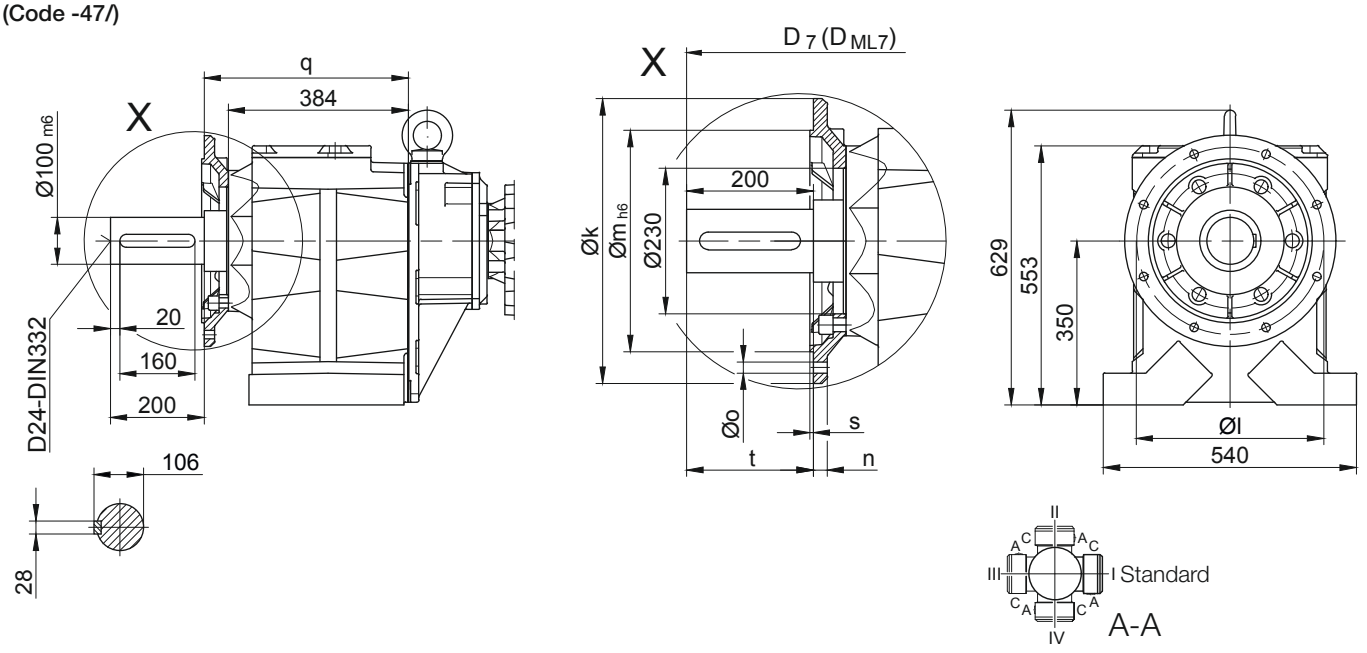
Dimension - Tandem Gearbox

BG90G50

Foot mounting with clearance holes
Code -11/



Flange with clearance holes
Code -37/
(Code -47/)



Flange Dimensions											
Type	Design	k	l	m	n	o	q	s	t	D_7	D_{ML7}
BG90..	Code -37/	450	400	350	22	17.5	439	5	201	d+43	d_{ML}+43
BG90..	Code -47/	550	500	450	22	17.5	444	5	196	d+43	d_{ML}+43
Dimensions in millimetres (mm)											

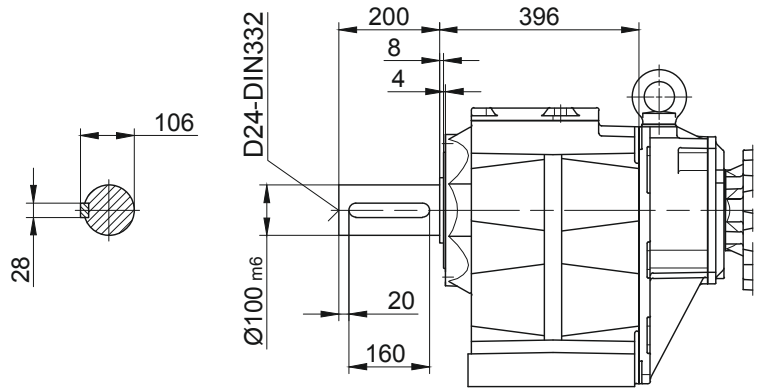
Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BG90G50-../S..08 (M, L)	199.5	456	156	1251.5	114.5	136.5	1317.5	1363.5	1425	-
BG90G50-../S..09 (S, X)	250.5	470.5	176	1317	124	157	1410	1424.5	1514	-
BG90G50-../S..11 (S, M, L)	319	477	218	1392	165	176	1490	1499.5	1592	-
Dimensions in millimetres (mm)										

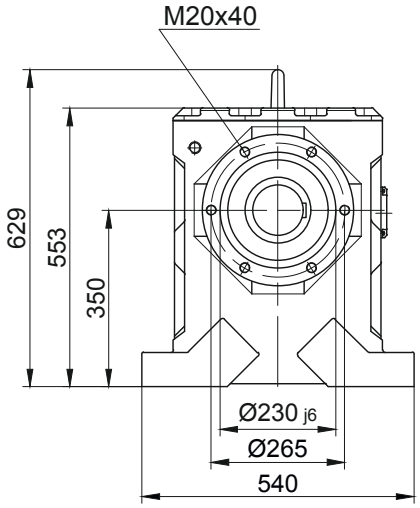
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG90G50

Flange with tapped holes

Code -71/





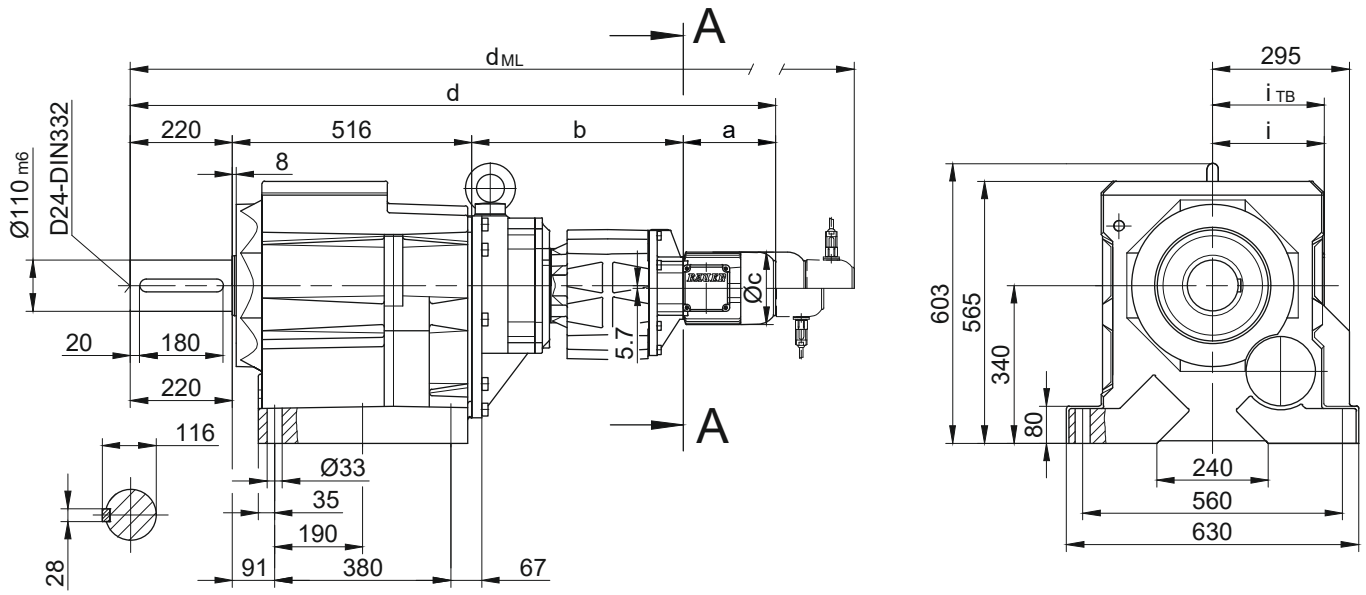
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG-series helical-geared motors

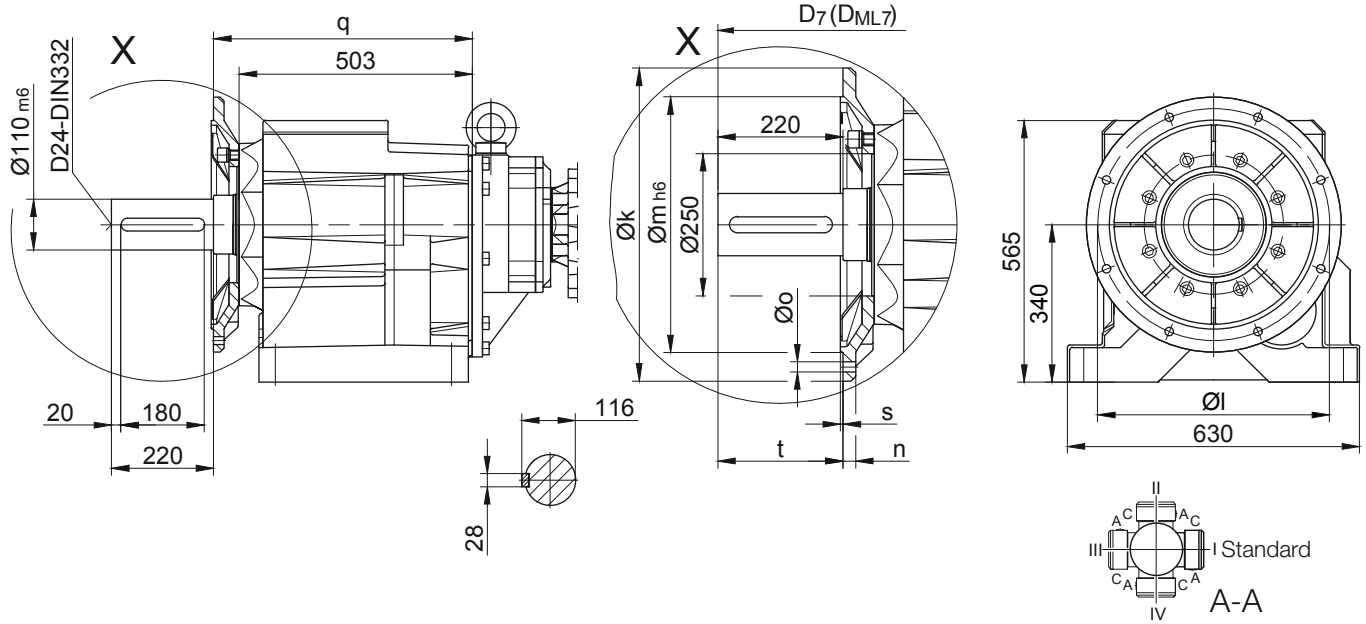
Dimension - Tandem Gearbox

BG100G50

Foot mounting with clearance holes
Code -11/



Flange with clearance holes
Code -37/
(Code -47/)

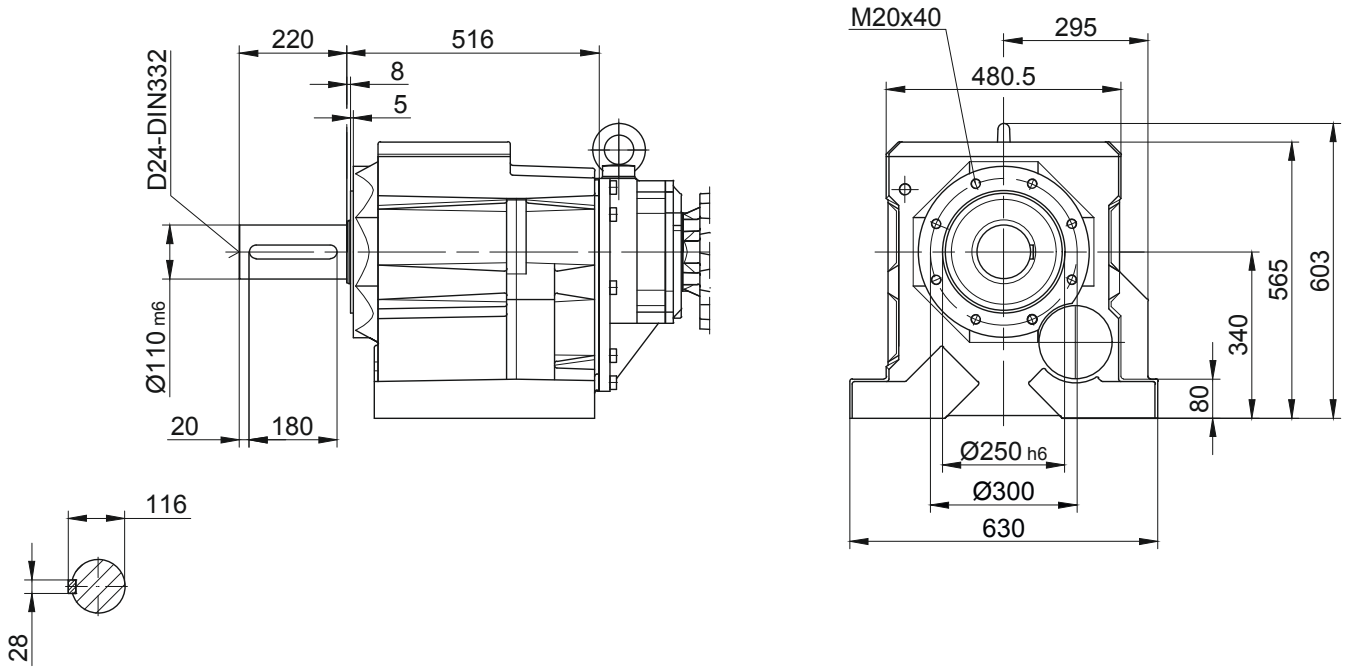


Flange Dimensions											
Type	Design	k	l	m	n	o	q	s	t	D_7	D_{ML7}
BG100..	Code -37/	550	500	450	22	17.5	558	5	220	d+42	d_{ML}+42
BG100..	Code -47/	660	600	550	25	22	552	6	227	d+42	d_{ML}+42
Dimensions in millimetres (mm)											

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BG100G50-../S..08 (M, L)	199.5	456	156	1391.5	114.5	136.5	1457.5	1503.5	1565	-
BG100G50-../S..09 (S, X)	250.5	470.5	176	1457	124	157	1550	1564.5	1654	-
BG100G50-../S..11 (S, M, L)	319	477	218	1532	165	176	1630	1639.5	1732	-
Dimensions in millimetres (mm)										

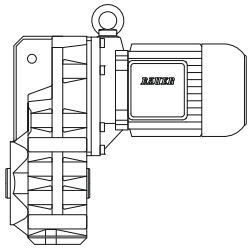
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BG100G50
Flange with tapped holes
Code -71/



10

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.



11

BF-series shaft-mounted geared motors - Dimensions

Dimension - Standard **346**
BF06 346
BF10-BF10Z 348
BF20-BF20Z 350
BF30-BF30Z 352
BF40-BF40Z 354
BF50-BF50Z 356
BF60-BF60Z 358
BF70-BF70Z 360
BF80-BF80Z 362
BF90-BF90Z 364
Dimension - Tandem Gearbox **366**
BF10G06 366
BF20G06 368
BF30G06 370
BF40G10 372
BF50G10 374
BF60G20 376
BF70G20 378
BF80G40 380
BF90G50 382
Additional Dimension Sheet **385**
Splined shaft 385
Shrink disc coupling (SSV) 386
Shrink disc coupling with (SSV) cover 387
Tapped Holes Side (H) → shaft cover 388
Rubber buffer for torque restraint 389
Assembly tools for hollow shaft and keyway 390
Assembly tools for shaft mounted gears with splined shaft 392
Shaft cap (VK) 394
Shaft cover (VD) 395

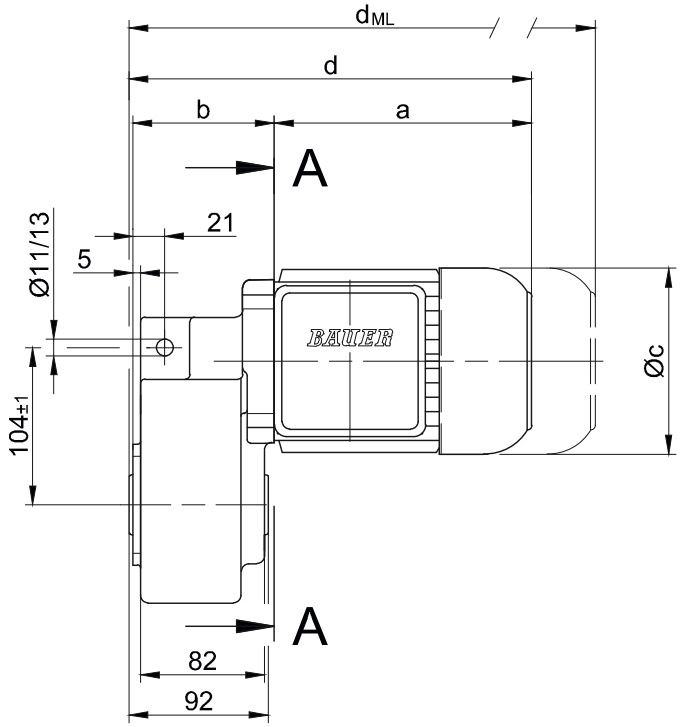
BF-series shaft-mounted geared motors

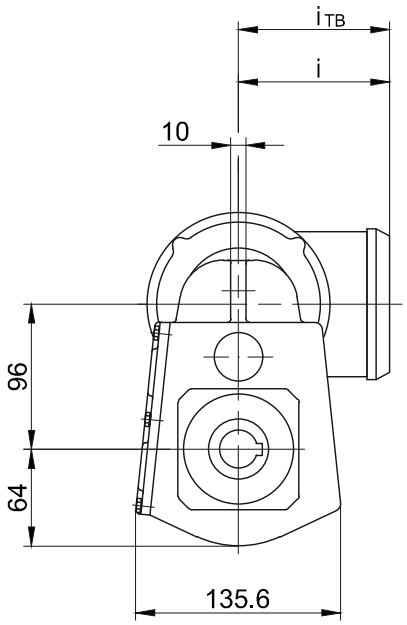
Dimension - Standard

BF06

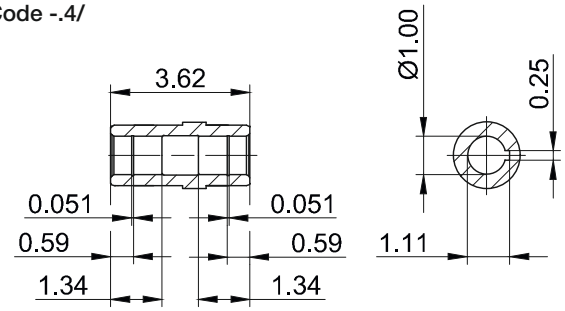
with torque arm

Code -0./

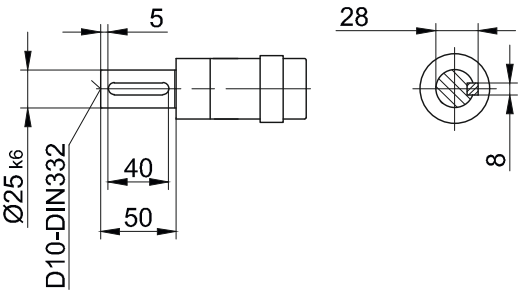


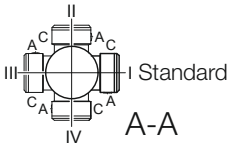


Code -.4/



Code -.1/



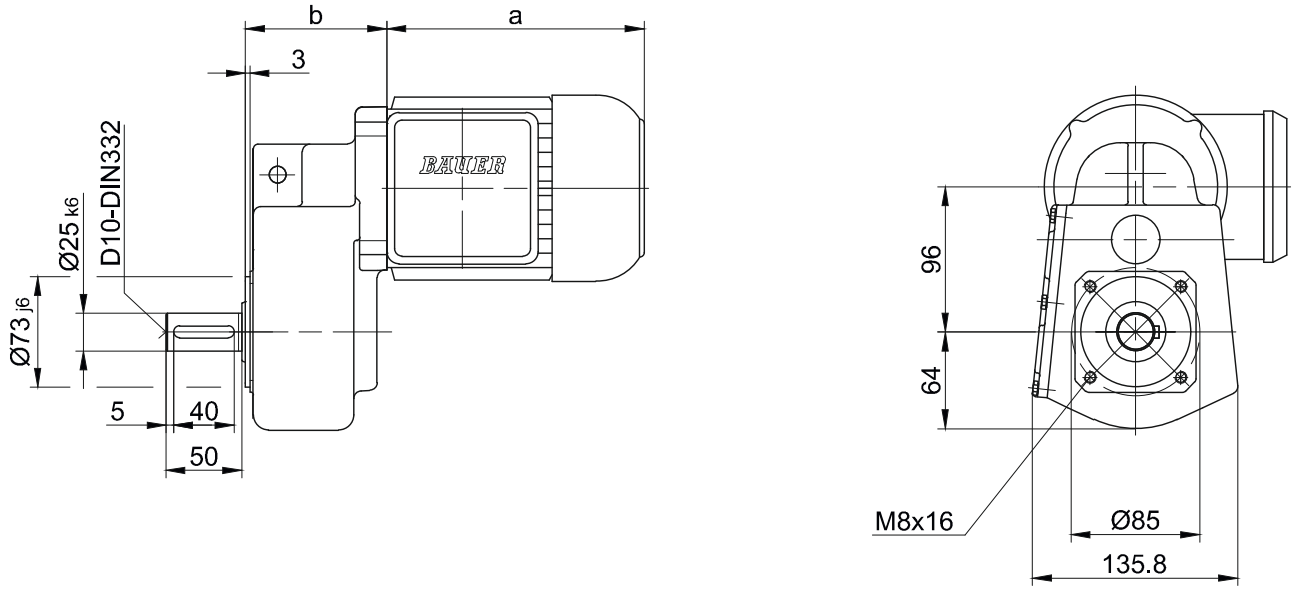


Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BF06-../S..06 (M, L)	170.5	93.5	123	266.5	99	119	306	366.5	404	-
BF06-../S..08 (M, L)	199.5	141.5	156	343.5	114.5	136.5	407	453	514.5	-
Dimensions in millimetres (mm)										

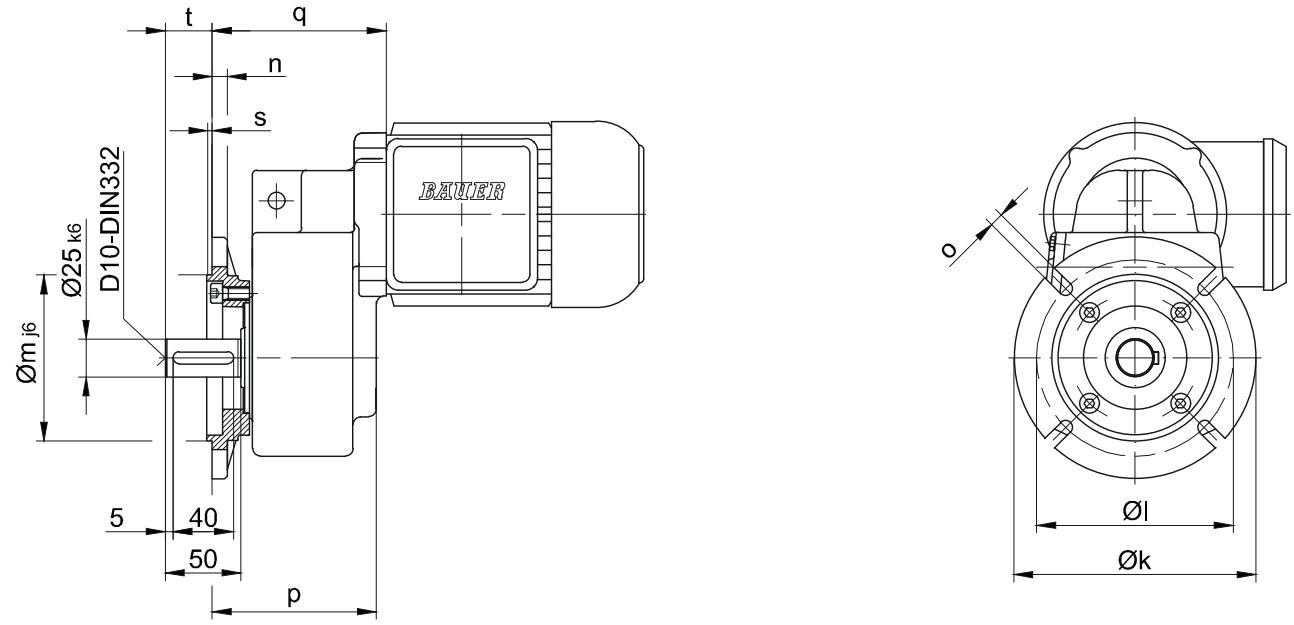
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BF06

Flange with tapped holes
Code -7./



Flange with clearance holes
Code -3.V/
(Code -4.V/)



Flange Dimensions											
Type	Design	k	l	m	n	o	p	q[1)]	q[2)]	s	t
BF06	Code -3./	140	115	95	10	9	108.5	115	163	3	31
BF06	Code -4./	160	130	110	10	9	108.5	115	163	3.5	31
Dimensions in millimetres (mm)											

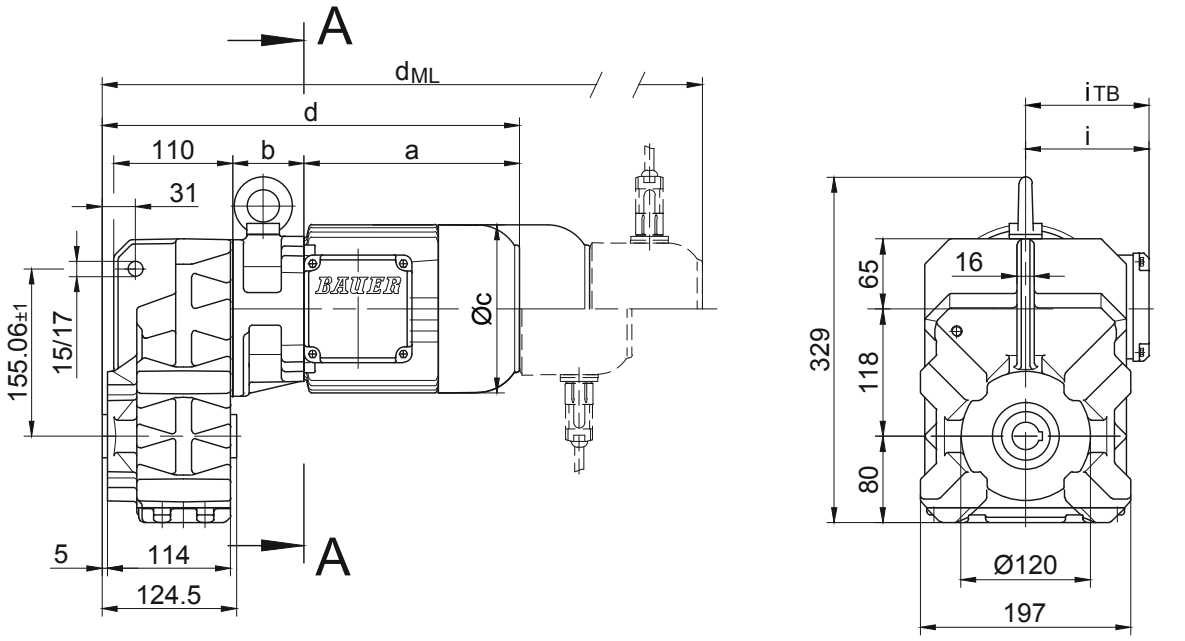
q[1)] only for D05; D06; D07
q[2)] only for D08..

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

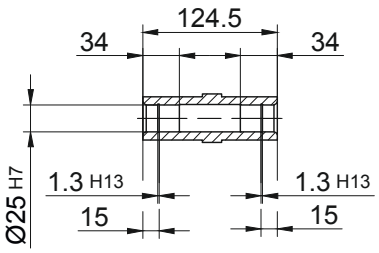
BF-series shaft-mounted geared motors

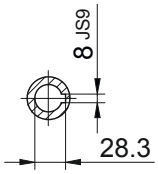
Dimension - Standard

BF10-BF10Z
with torque arm
Code -0./

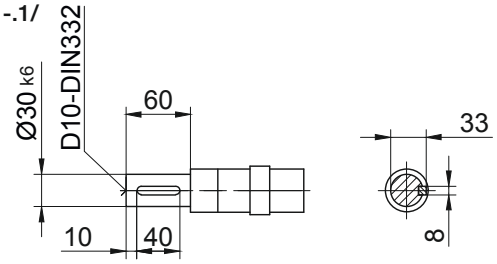


Code -.4/

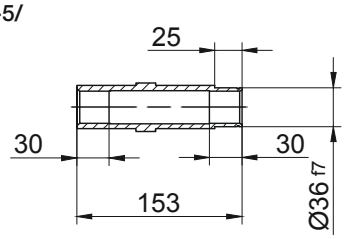


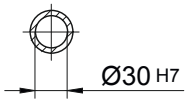


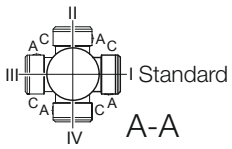
Code -.1/



Code .-5/







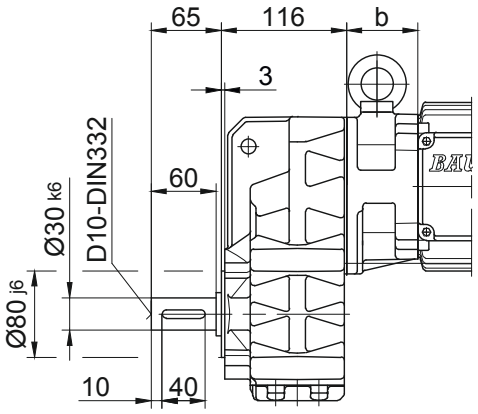
Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BF10Z-../S04S	142.5	86	110.5	349.5	90	112	393	437	480.5	-
BF10-../S..06 (M, L)	170.5	62	123	353.5	99	119	395.5	456	493.5	-
BF10Z-../S..06 (M, L)	170.5	88	123	379.5	99	119	421.5	482	519.5	-
BF10-../S..08 (M, L)	199.5	66	156	386.5	114.5	136.5	452.5	498.5	560	-
BF10Z-../S..08 (M, L)	199.5	132	156	452.5	114.5	136.5	518.5	564.5	626	-
BF10-../S..09 (S, X)	250.5	80.5	176	452	124	157	545	559.5	649	-

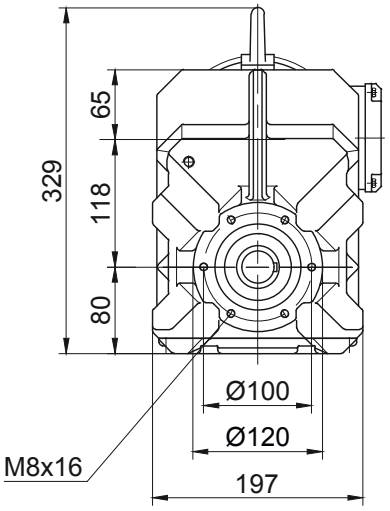
Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

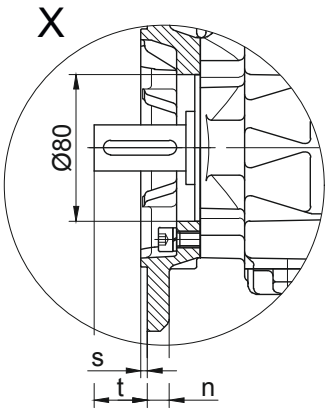
BF10-BF10Z

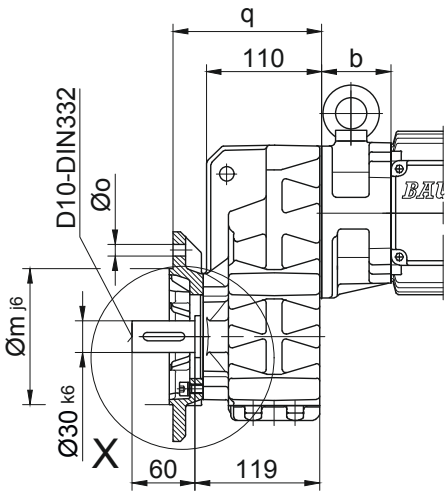
Flange with tapped holes
Code -7./

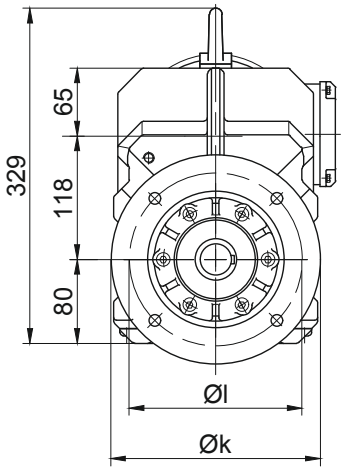




Flange with clearance holes
Code -3./
(Code -2./)

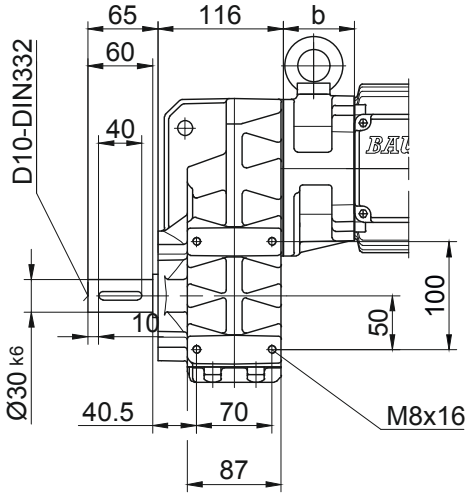


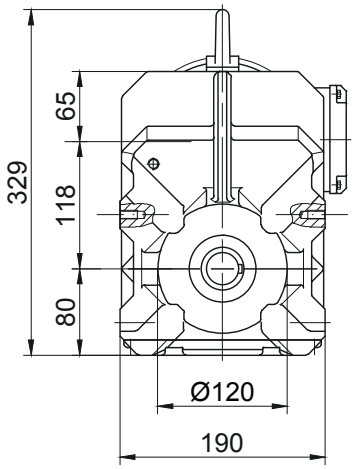




Flange Dimensions									
Type	Design	k	l	m	n	o	q	s	t
BF10..	Code -3./	200	165	130	12	11	142	3.5	39
BF10..	Code -2./	160	130	110	10	9	135	3.5	46
Dimensions in millimetres (mm)									

Foot with tapped holes left and right
Code -6.LR/



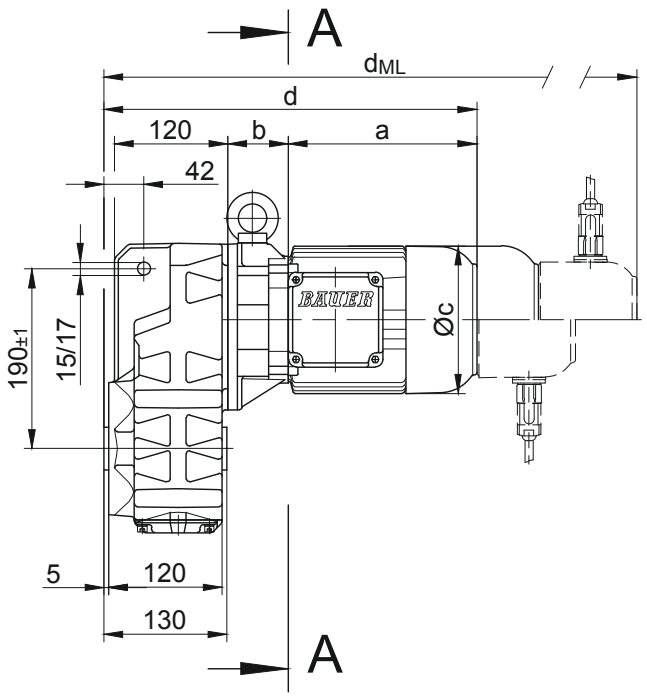


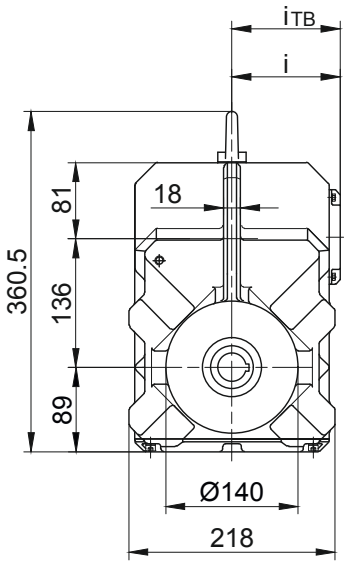
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BF-series shaft-mounted geared motors

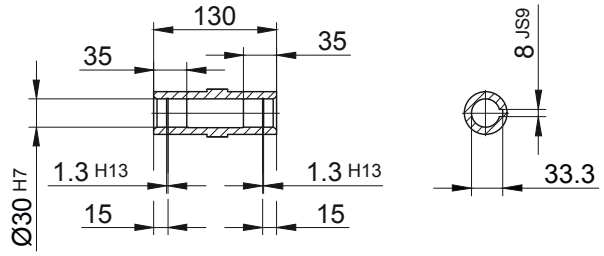
Dimension - Standard

BF20-BF20Z
with torque arm
Code -0./

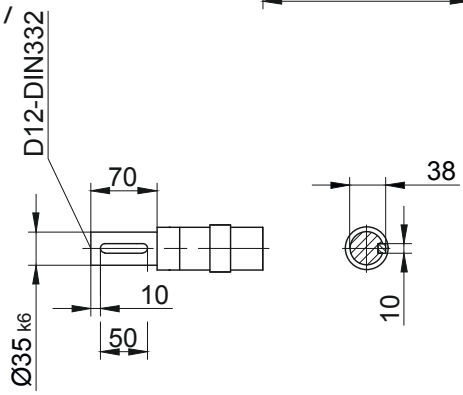




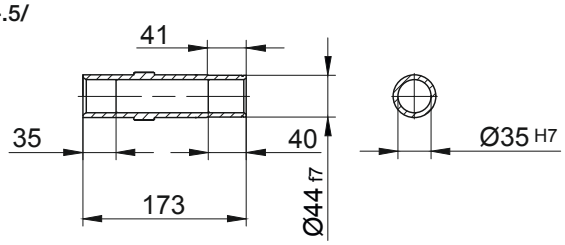
Code -.4/

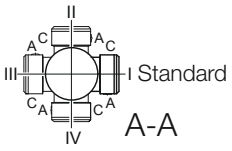


Code -.1/



Code -.5/





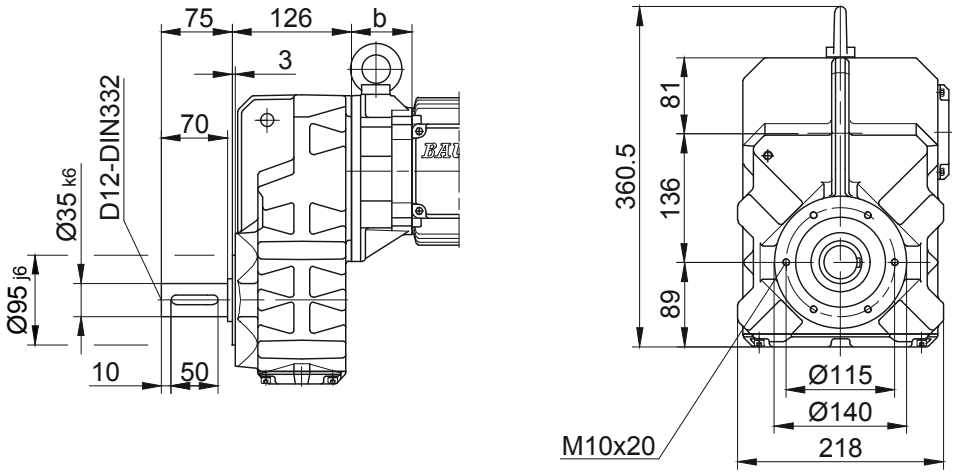
Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BF20Z-../S04S	142.5	100	110.5	373.5	90	112	417	461	504.5	-
BF20-../S..06 (M, L)	170.5	60	123	361.5	99	119	403.5	464	501.5	-
BF20Z-../S..06 (M, L)	170.5	102	123	403.5	99	119	445.5	506	543.5	-
BF20-../S..08 (M, L)	199.5	64	156	394.5	114.5	136.5	460.5	506.5	568	-
BF20Z-../S..08 (M, L)	199.5	146	156	476.5	114.5	136.5	542.5	588.5	650	-
BF20-../S..09 (S, X)	250.5	78.5	176	460	124	157	553	567.5	657	-

Dimensions in millimetres (mm)

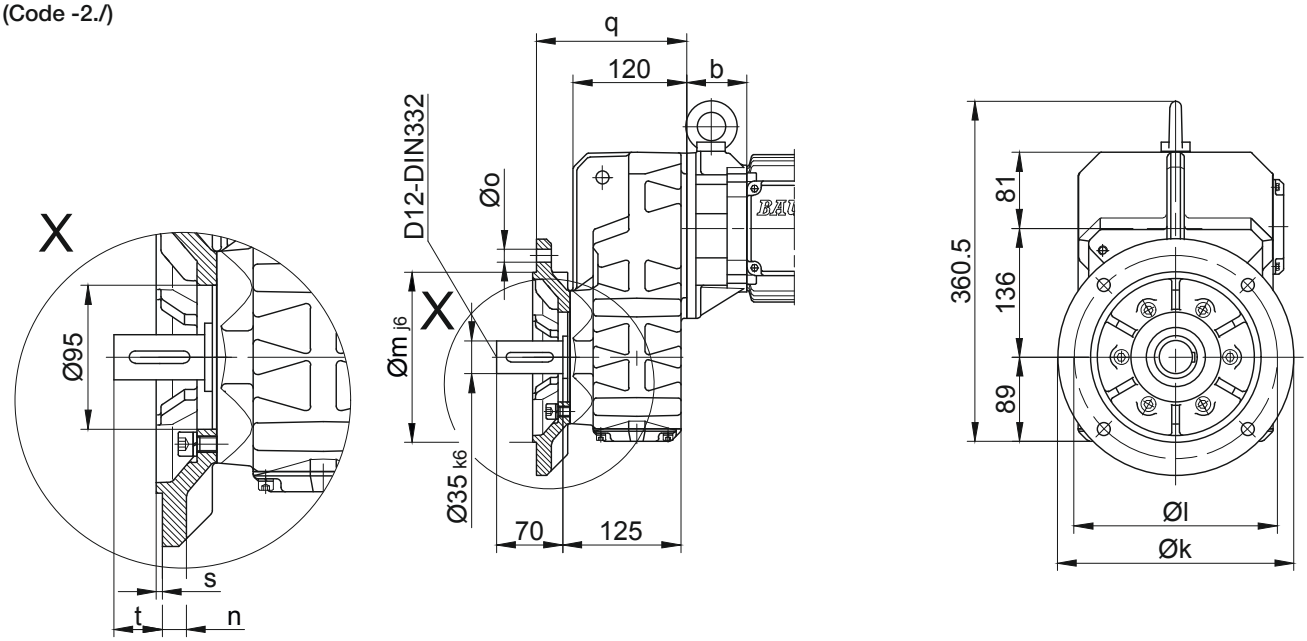
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BF20-BF20Z

Flange with tapped holes
Code -7./

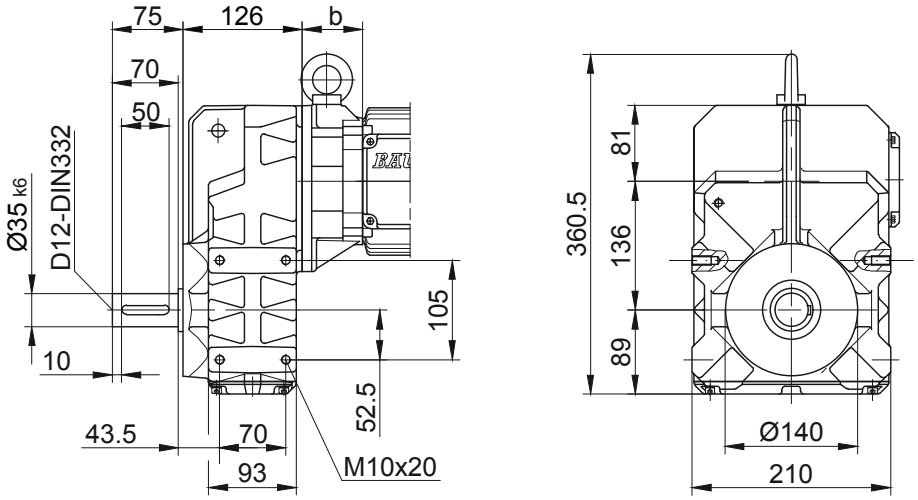


Flange with clearance holes
Code -3./
(Code -2./)



Flange Dimensions									
Type	Design	k	l	m	n	o	q	s	t
BF20..	Code -3./	250	215	180	16	13.5	159	4	42
BF20..	Code -2./	200	165	130	12	11	150	3.5	51
Dimensions in millimetres (mm)									

Foot with tapped holes left and right
Code -6.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

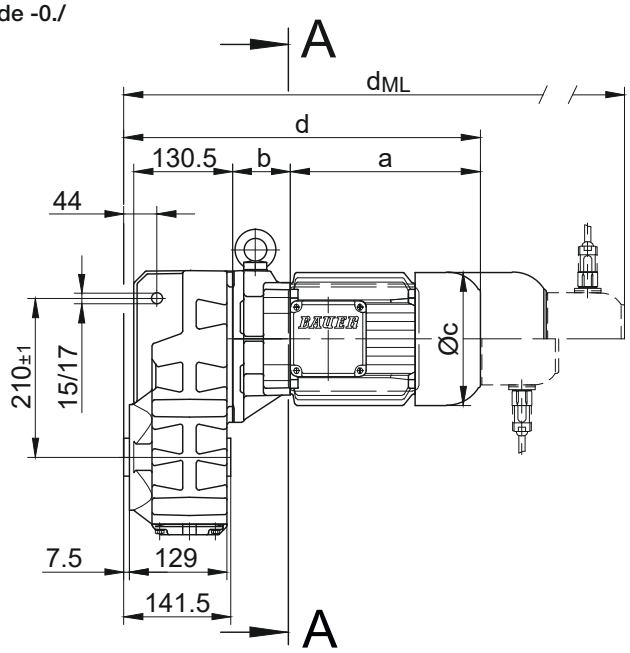
BF-series shaft-mounted geared motors

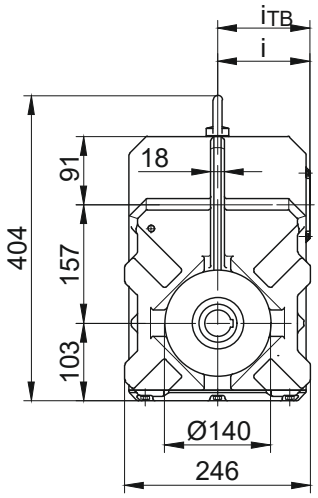
Dimension - Standard

BF30-BF30Z

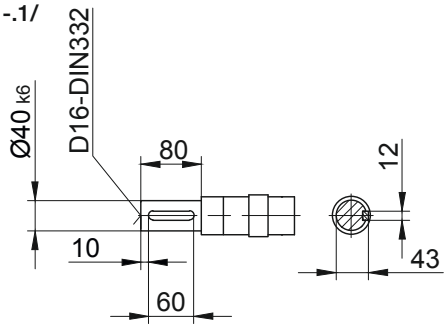
with torque arm

Code -0./

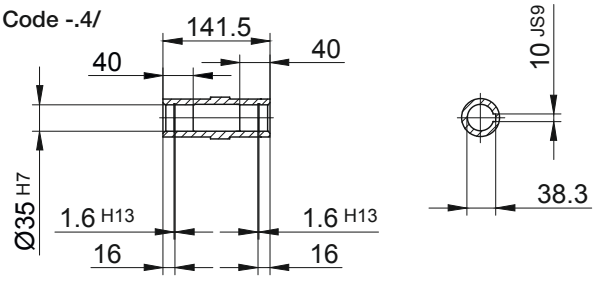




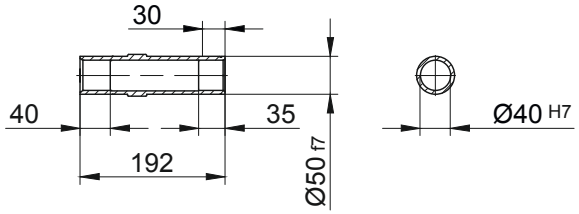
Code -.1/

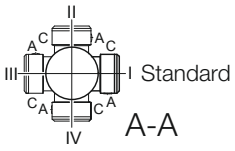


Code -.4/



Code -.5/





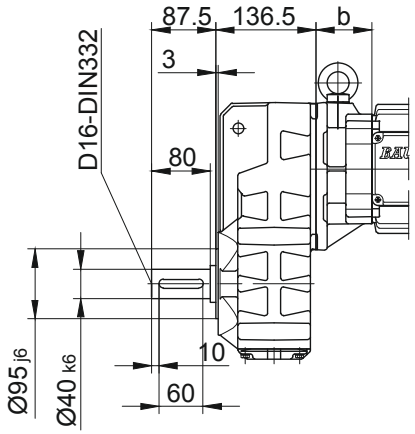
Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BF30-../S..06 (M, L)	170.5	58	123	372.5	99	119	414.5	475	512.5	-
BF30Z-../S..06 (M, L)	170.5	133.5	123	448	99	119	490	550.5	588	-
BF30-../S..08 (M, L)	199.5	62	156	405.5	114.5	136.5	471.5	517.5	579	-
BF30Z-../S..08 (M, L)	199.5	137.5	156	481	114.5	136.5	547	593	654.5	-
BF30-../S..09 (S, X)	250.5	76.5	176	471	124	157	564	578.5	668	-
BF30Z-../S..09 (S, X)	250.5	152	176	546.5	124	157	639.5	654	743.5	-
BF30-../S..11 (S, M, L)	319	83	218	546	165	176	644	653.5	746	-

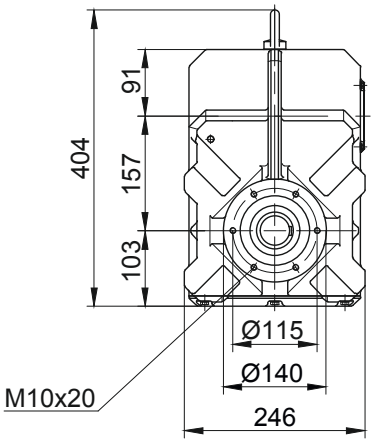
Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

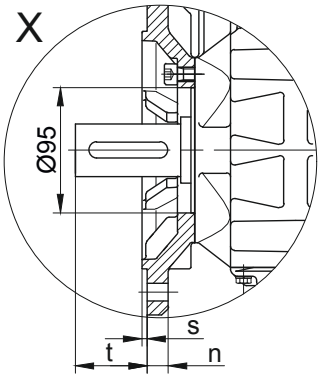
BF30-BF30Z

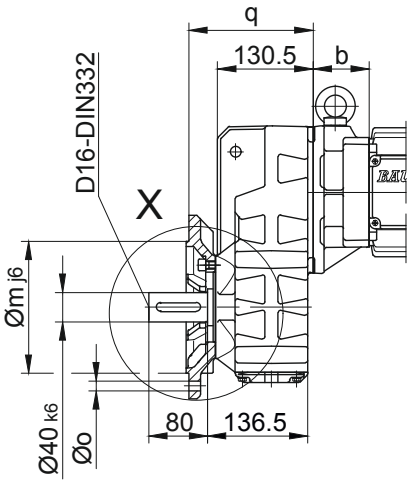
Flange with tapped holes
Code -7./

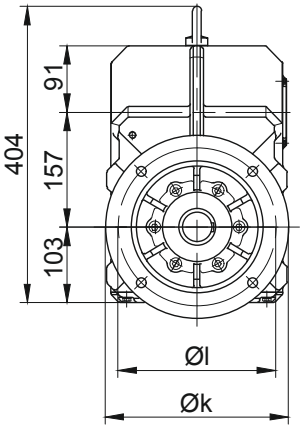




Flange with clearance holes
Code -3./
(Code -2./)

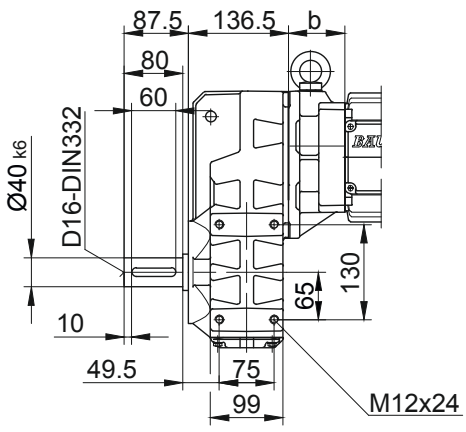


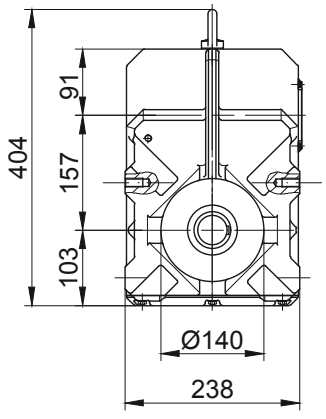




Flange Dimensions									
Type	Design	k	l	m	n	o	q	s	t
BF30..	Code -3./	250	215	180	16	13.5	169.5	4	54.5
BF30..	Code -2./	200	165	130	12	11	160.5	3.5	63.5
Dimensions in millimetres (mm)									

Foot with tapped holes left and right
Code -6.LR/



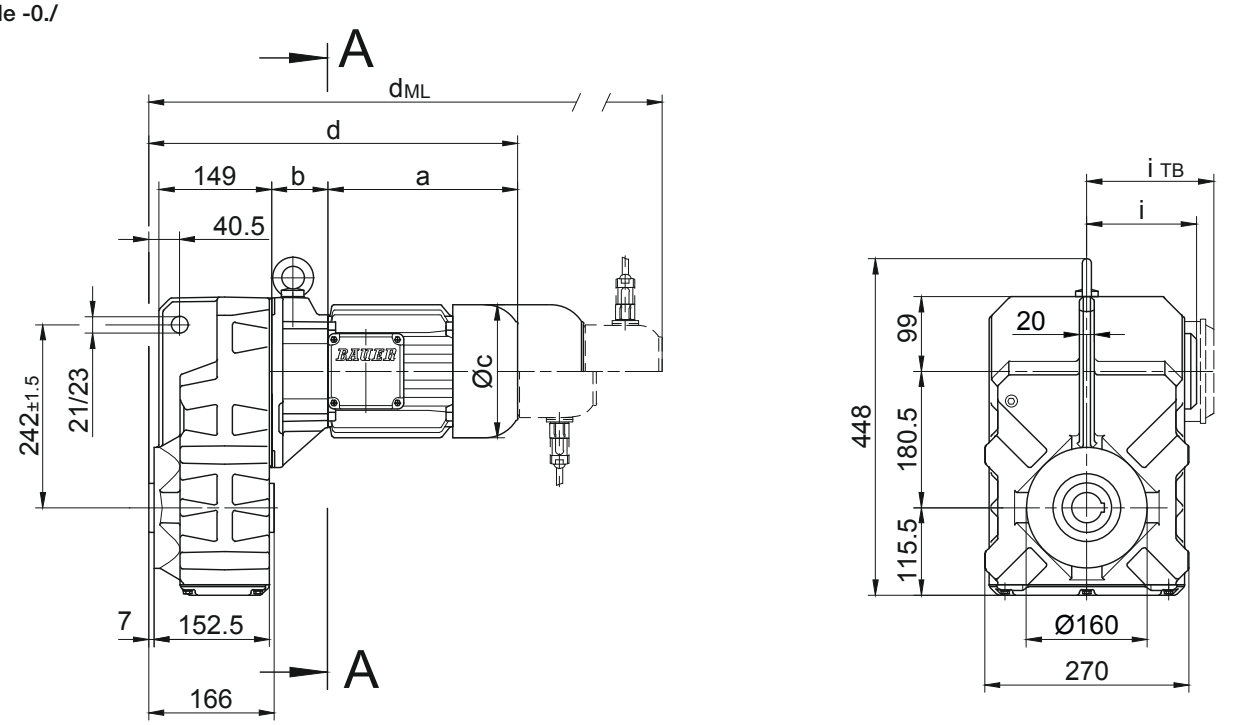


The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

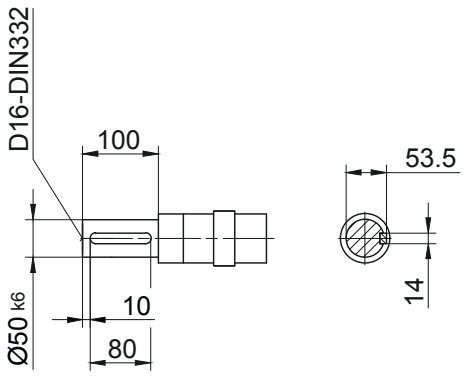
BF-series shaft-mounted geared motors

Dimension - Standard

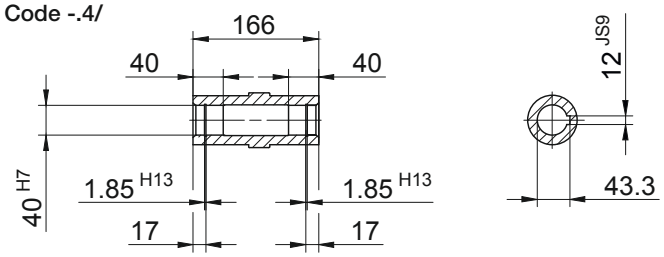
BF40-BF40Z
with torque arm
Code -0./



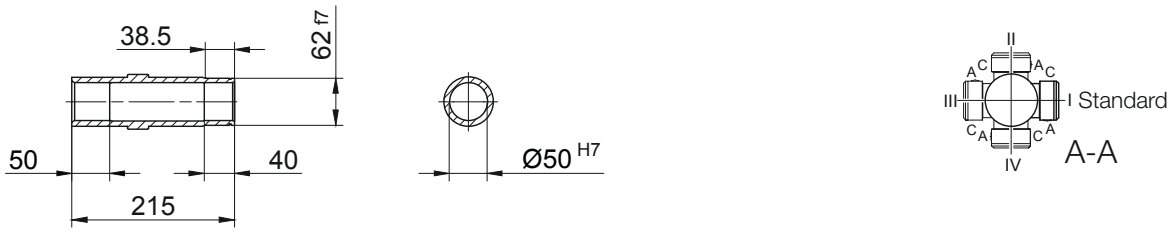
Code -.1/



Code -.4/



Code -.5/



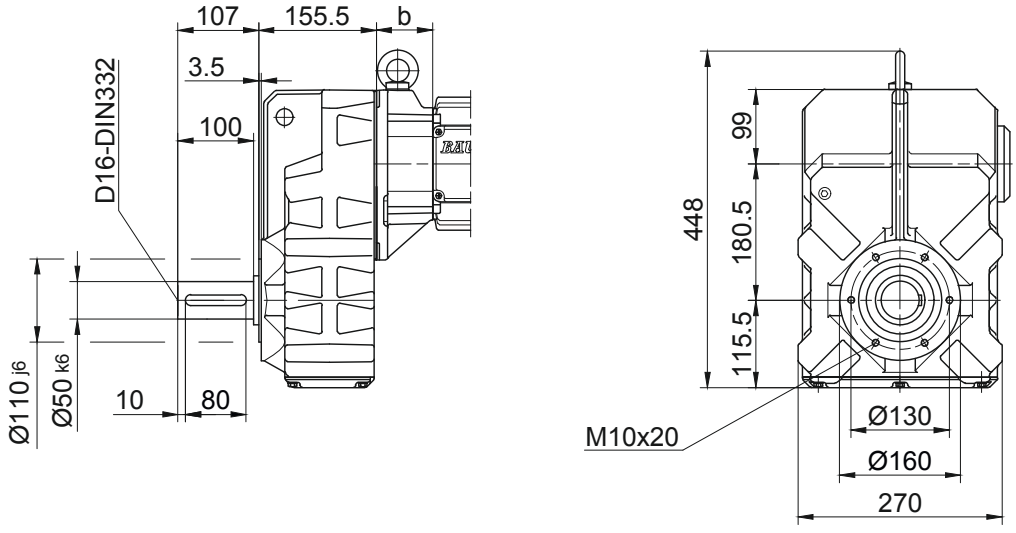
Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BF40Z-../S..06 (M, L)	170.5	138.5	123	471.5	99	119	513.5	574	611.5	-
BF40-../S..08 (M, L)	199.5	60	156	422	114.5	136.5	488	534	595.5	-
BF40Z-../S..08 (M, L)	199.5	142.5	156	504.5	114.5	136.5	570.5	616.5	678	-
BF40-../S..09 (S, X)	250.5	74.5	176	487.5	124	157	580.5	595	684.5	-
BF40Z-../S..09 (S, X)	250.5	157	176	570	124	157	663	677.5	767	-
BF40-../S..11 (S, M, L)	319	81	218	562.5	165	176	660.5	670	762.5	-

Dimensions in millimetres (mm)

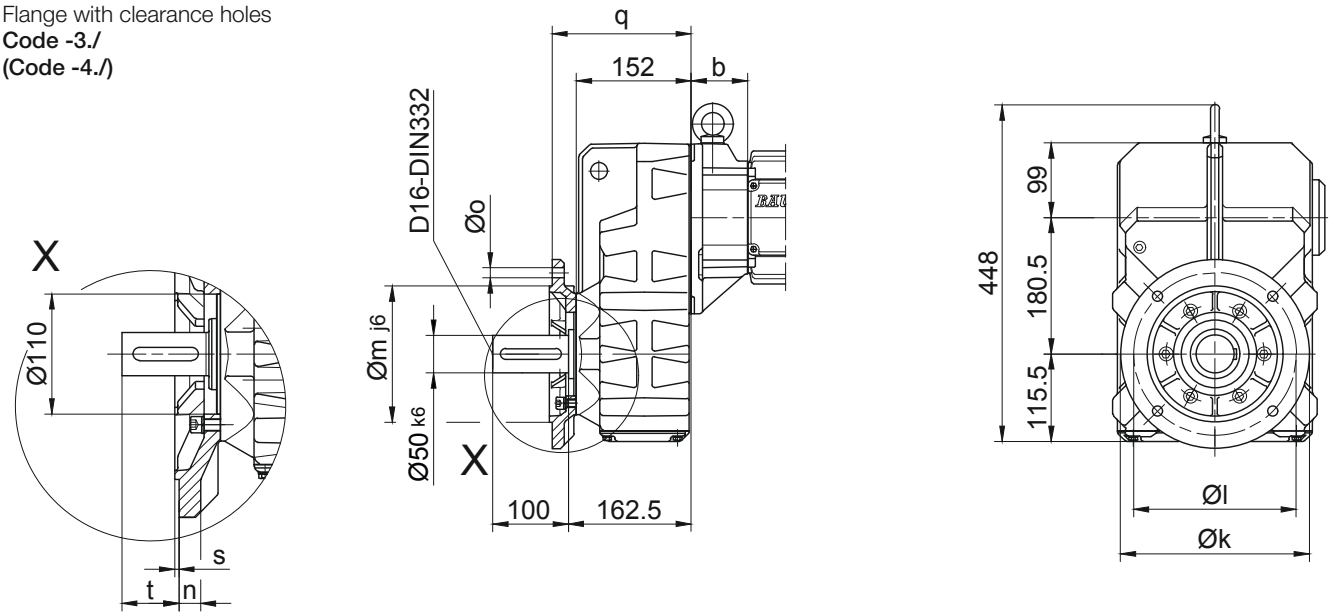
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BF40-BF40Z

Flange with tapped holes
Code -7./

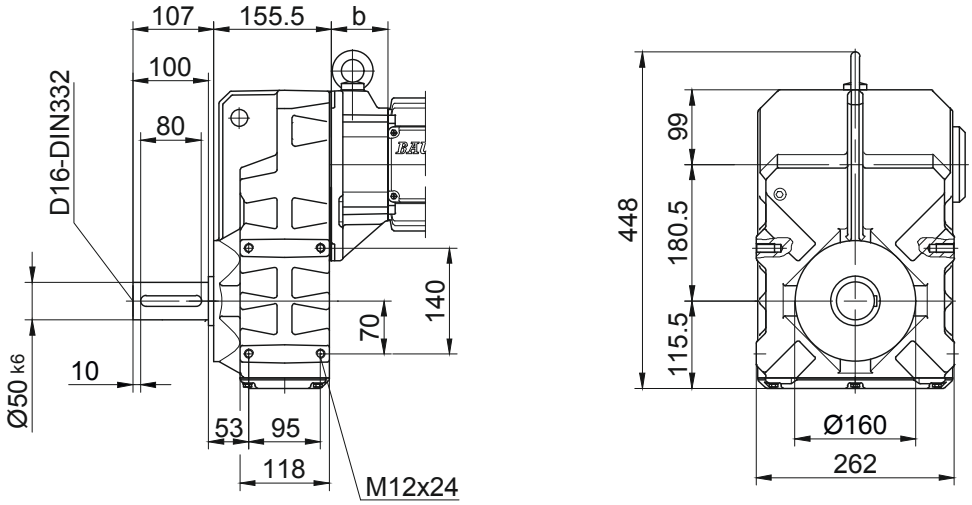


Flange with clearance holes
Code -3./
(Code -4./)



Flange Dimensions									
Type	Design	k	l	m	n	o	q	s	t
BF40..	Code -3./	250	215	180	16	13.5	184	4	78.5
BF40..	Code -4./	300	265	230	20	13.5	190	4	72.5
Dimensions in millimetres (mm)									

Foot with tapped holes left and right
Code -6.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

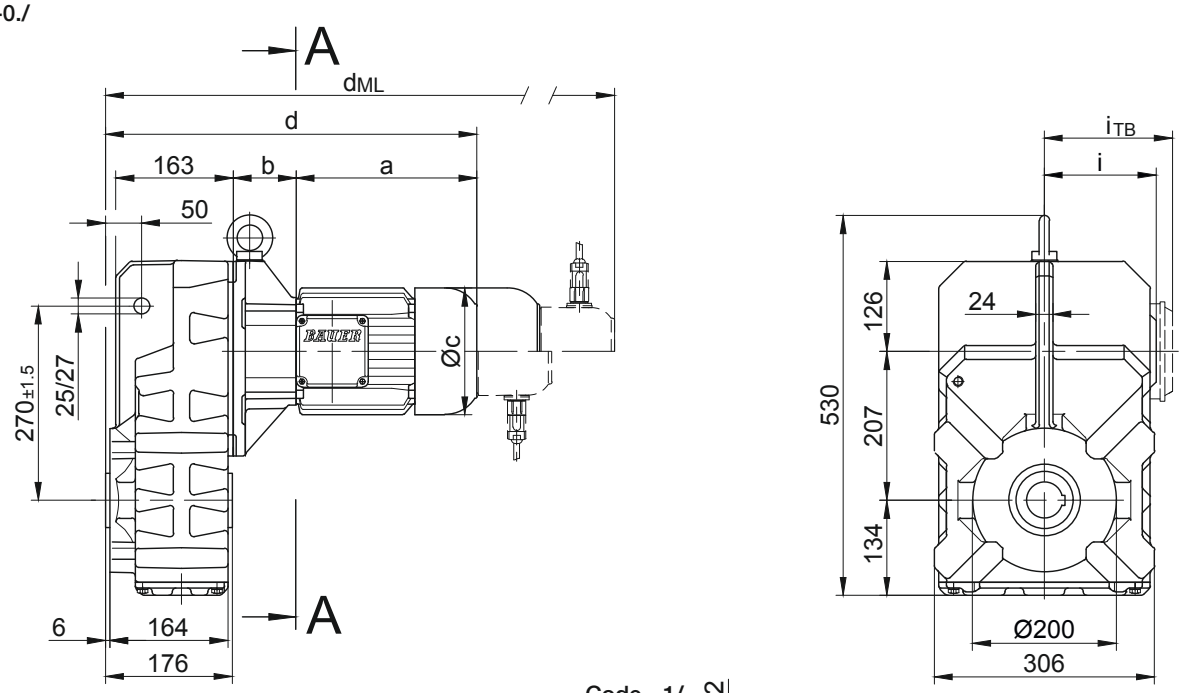
BF-series shaft-mounted geared motors

Dimension - Standard

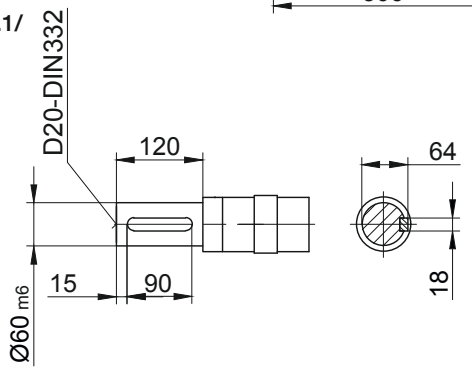
BF50-BF50Z

with torque arm

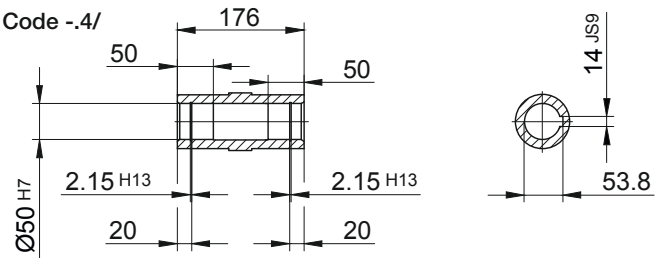
Code -0./



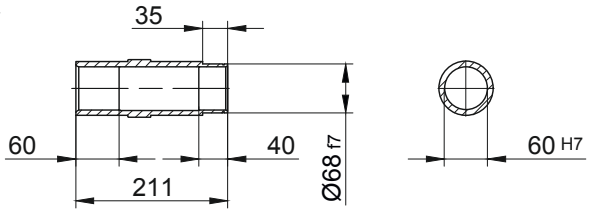
Code -.1/

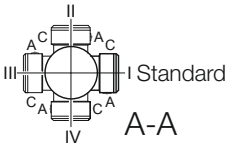


Code -.4/



Code -.5/





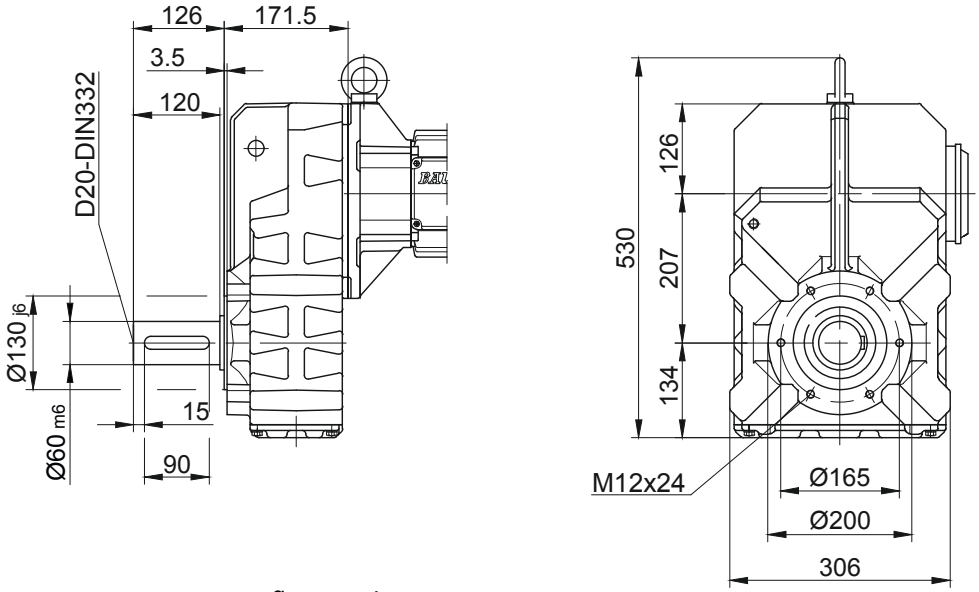
Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BF50Z-../S..06 (M, L)	170.5	155	123	503	99	119	545	605.5	643	-
BF50-../S..08 (M, L)	199.5	73	156	450	114.5	136.5	516	562	623.5	-
BF50Z-../S..08 (M, L)	199.5	159	156	536	114.5	136.5	602	648	709.5	-
BF50-../S..09 (S, X)	250.5	87.5	176	515.5	124	157	608.5	623	712.5	-
BF50Z-../S..09 (S, X)	250.5	173.5	176	601.5	124	157	694.5	709	798.5	-
BF50-../S..11 (S, M, L)	319	94	218	590.5	165	176	688.5	698	790.5	-

Dimensions in millimetres (mm)

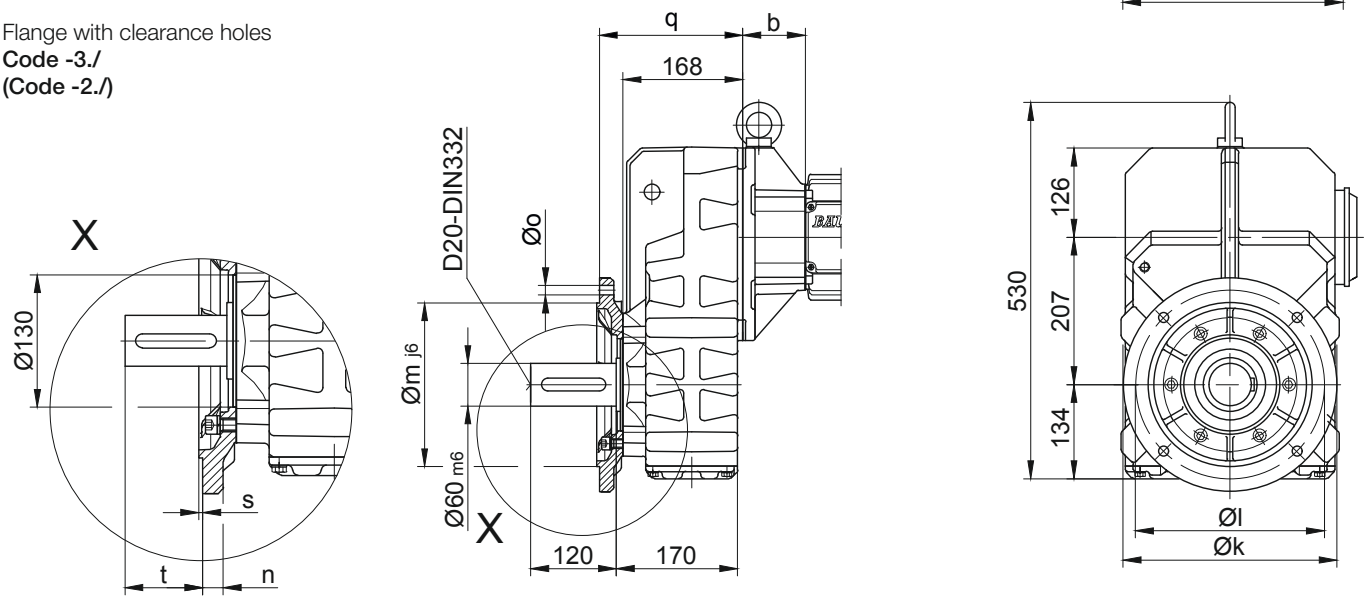
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BF50-BF50Z

Flange with tapped holes
Code -7./

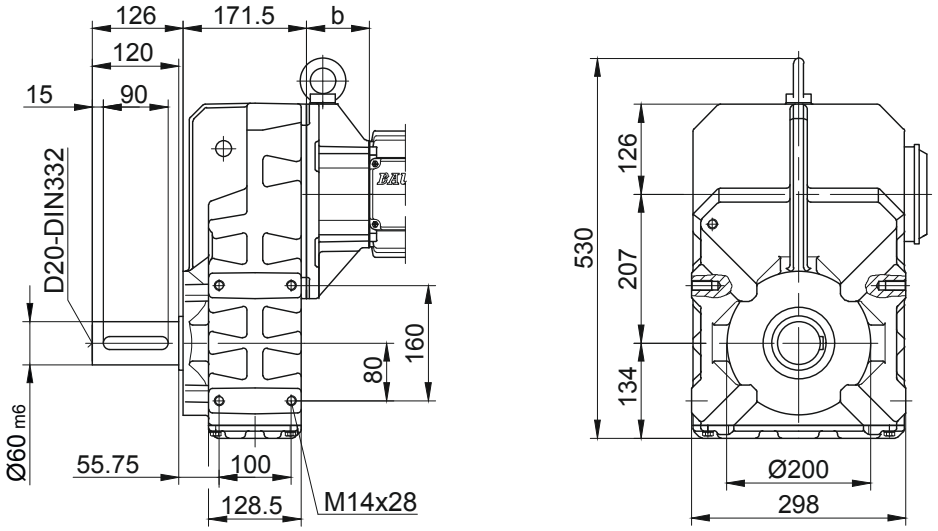


Flange with clearance holes
Code -3./
(Code -2./)



Flange Dimensions									
Type	Design	k	l	m	n	o	q	s	t
BF50..	Code -3./	300	265	230	20	13.5	201	4	96.5
BF50..	Code -2./	250	215	180	16	13.5	198	4	99.5
Dimensions in millimetres (mm)									

Foot with tapped holes left and right
Code -6.LR/

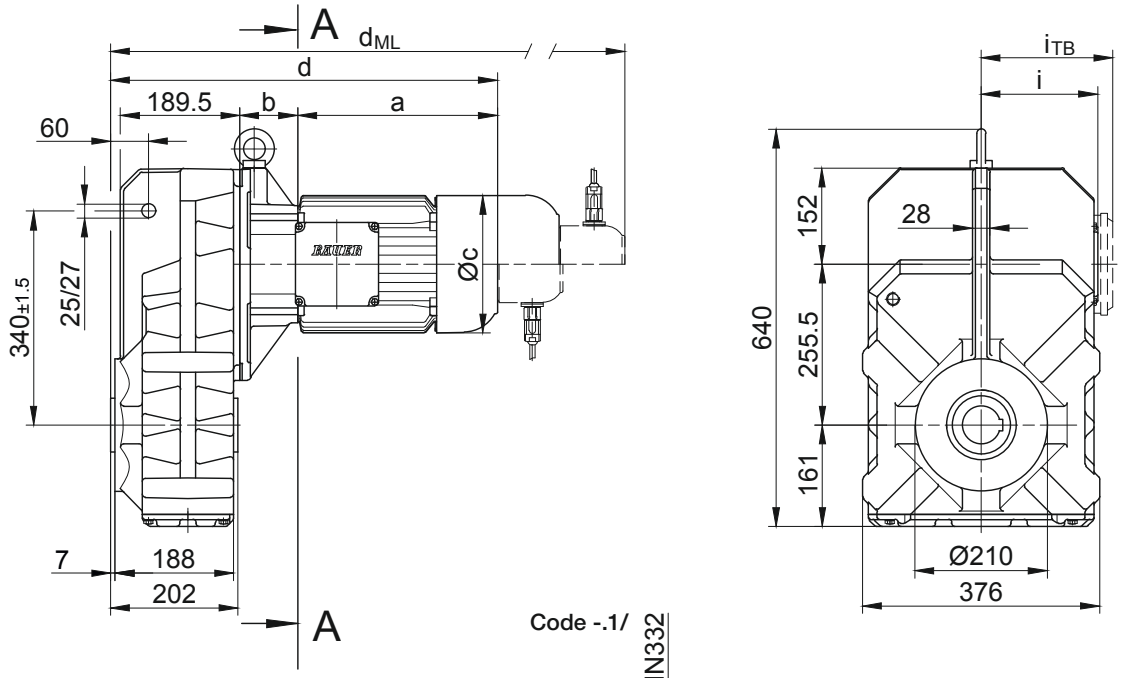


The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

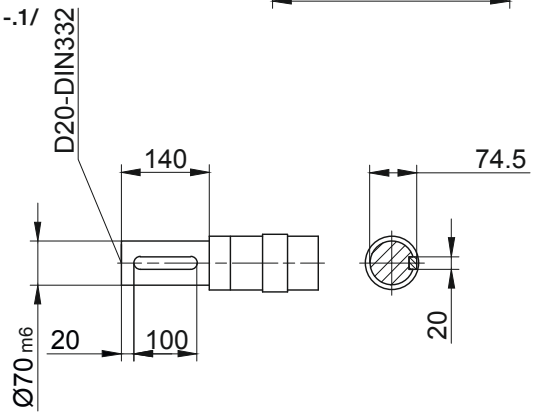
BF-series shaft-mounted geared motors

Dimension - Standard

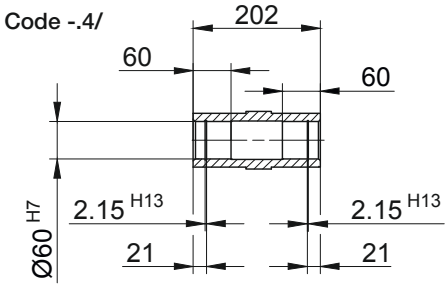
BF60-BF60Z
with torque arm
Code -0./



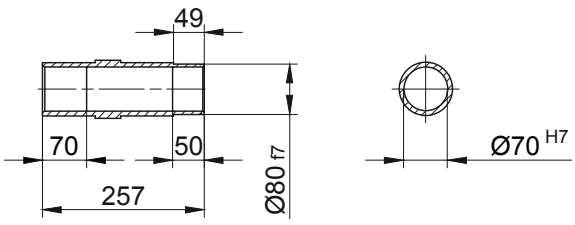
Code -.1/

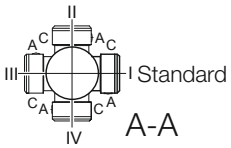


Code -.4/



Code -.5/





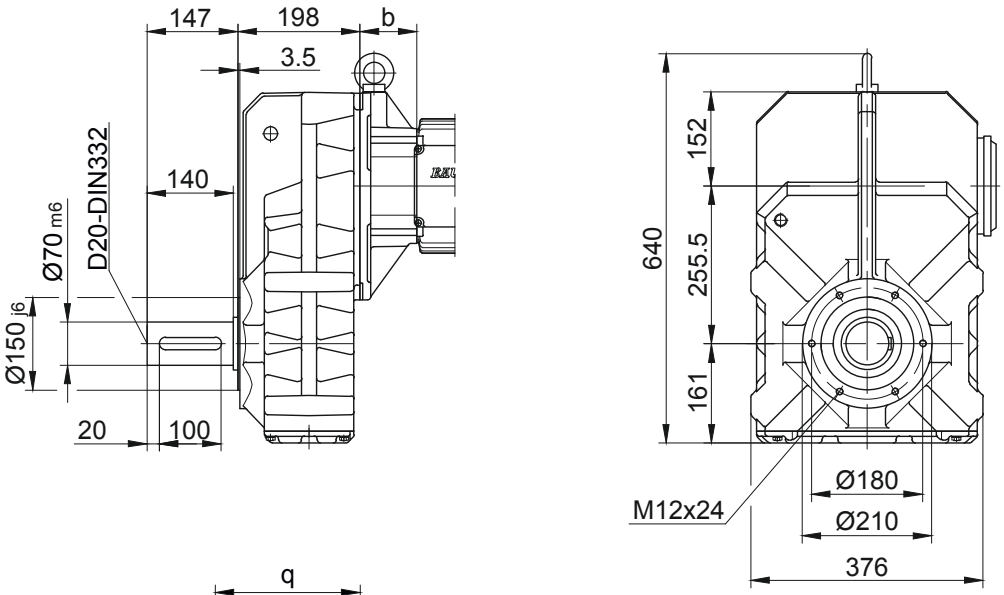
Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BF60Z-../S..08 (M, L)	199.5	181	156	585.5	114.5	136.5	651.5	697.5	759	-
BF60-../S..09 (S, X)	250.5	85.5	176	541	124	157	634	648.5	738	-
BF60Z-../S..09 (S, X)	250.5	195.5	176	651	124	157	744	758.5	848	-
BF60-../S..11 (S, M, L)	319	92	218	616	165	176	714	723.5	816	-
BF60Z-../S..11 (S, M, L)	319	202	218	726	165	176	824	833.5	926	-

Dimensions in millimetres (mm)

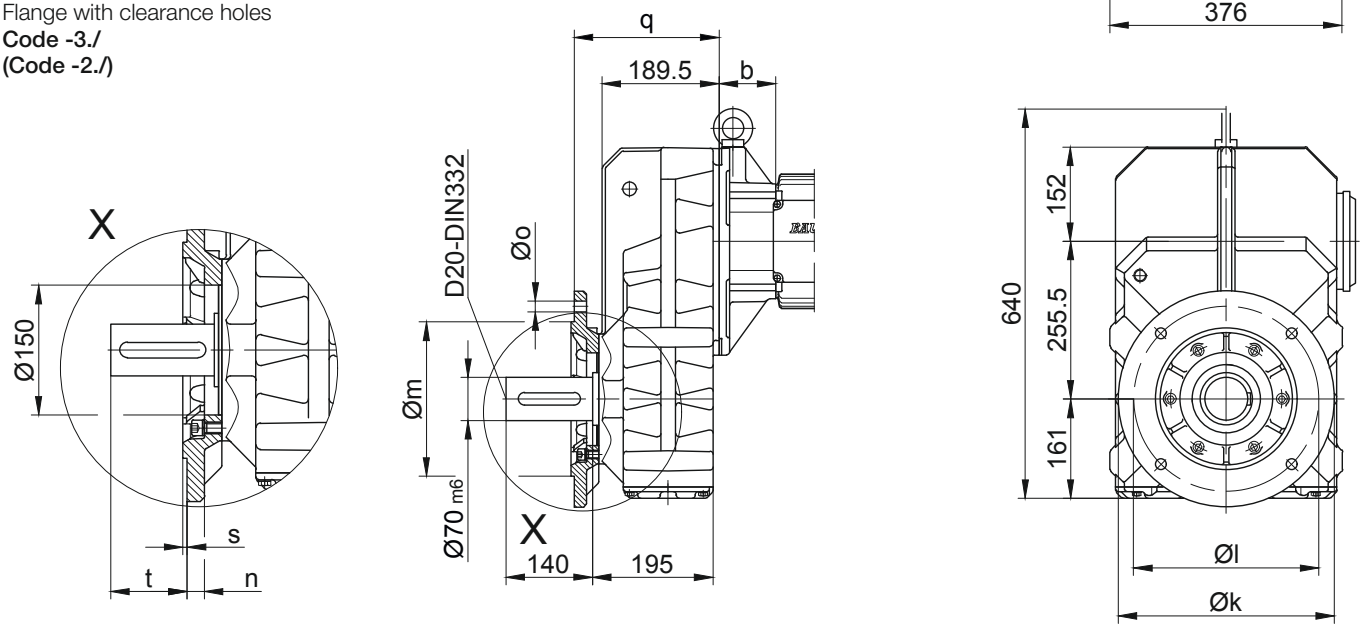
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BF60-BF60Z

Flange with tapped holes
Code -7./

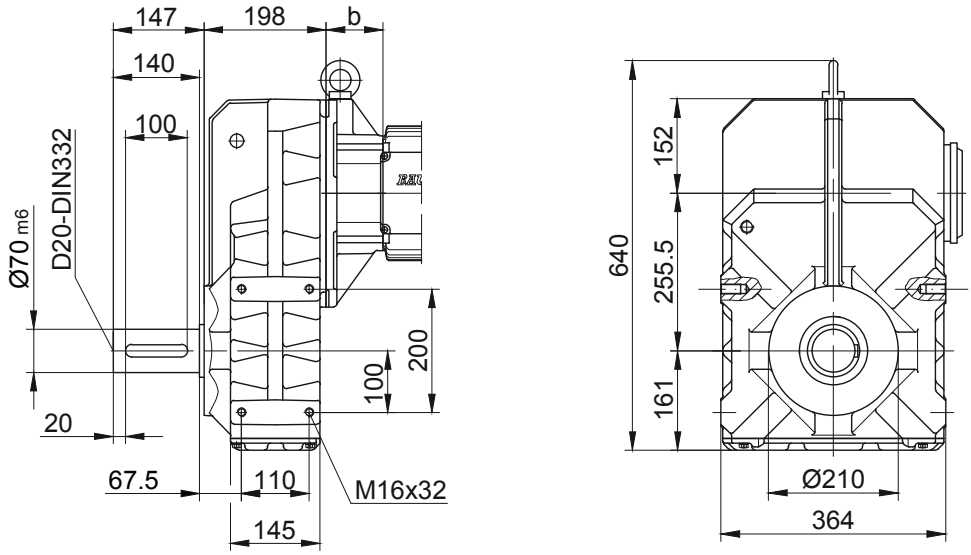


Flange with clearance holes
Code -3./
(Code -2./)



Flange Dimensions									
Type	Design	k	l	m	n	o	q	s	t
BF60..	Code -3./	350	300	250	20	17.5	234.5	5	110.5
BF60..	Code -2./	300	265	230	20	13.5	242.5	4	102.5
Dimensions in millimetres (mm)									

Foot with tapped holes left and right
Code -6.LR/

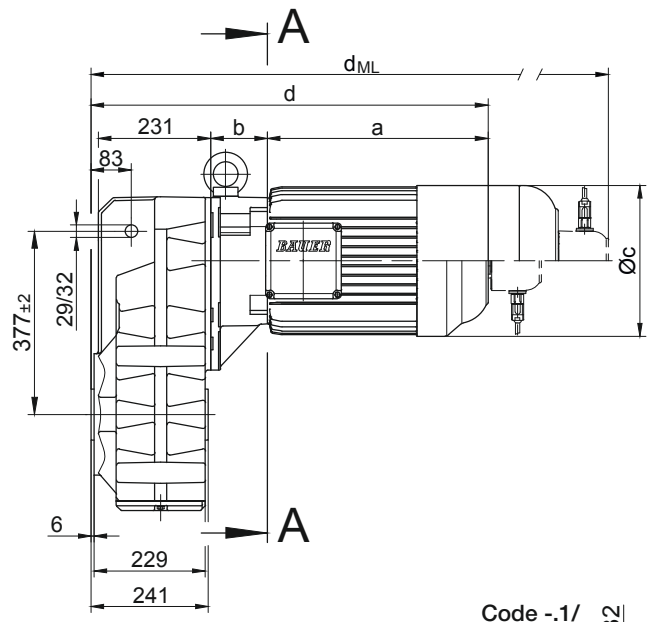


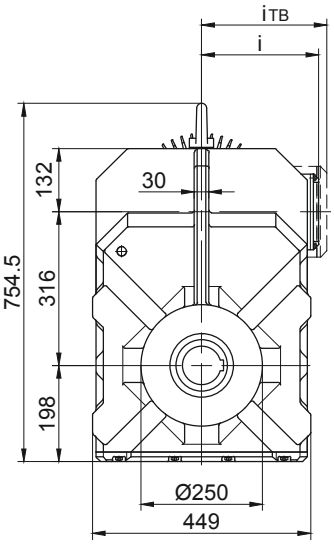
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BF-series shaft-mounted geared motors

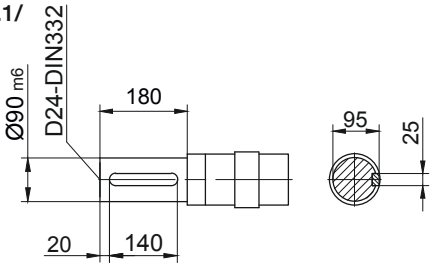
Dimension - Standard

BF70-BF70Z
with torque arm
Code -0./

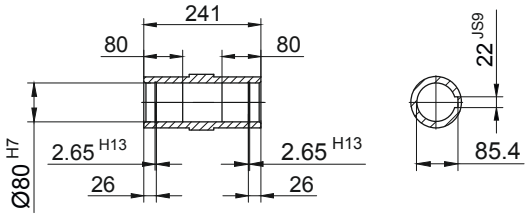




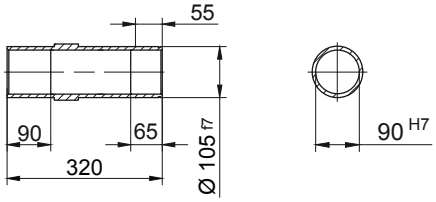
Code -.1/



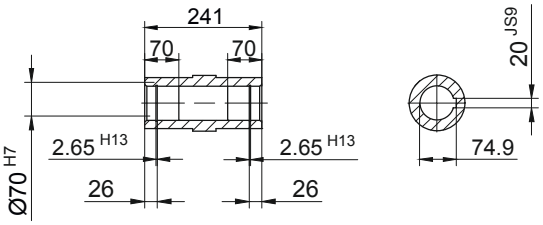
Code -.4/

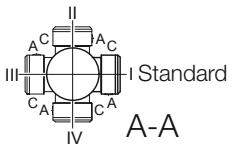


Code -.5/



Code -.4/K70





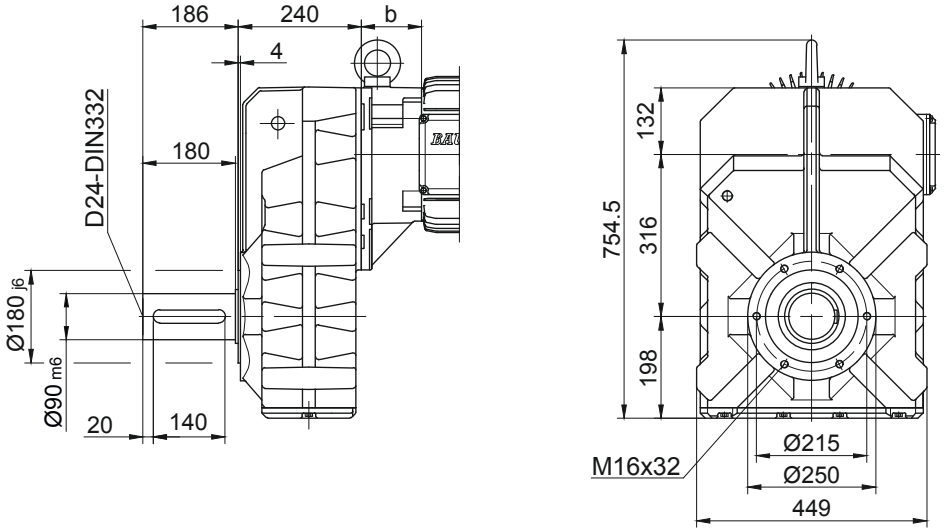
Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BF70Z-../S..08 (M, L)	199.5	202	156	647.5	114.5	136.5	713.5	759.5	821	-
BF70-../S..09 (S, X)	250.5	83.5	176	580	124	157	673	687.5	777	-
BF70Z-../S..09 (S, X)	250.5	216.5	176	713	124	157	806	820.5	910	-
BF70-../S..11 (S, M, L)	319	90	218	655	165	176	753	762.5	855	-
BF70Z-../S..11 (S, M, L)	319	223	218	788	165	176	886	895.5	988	-

Dimensions in millimetres (mm)

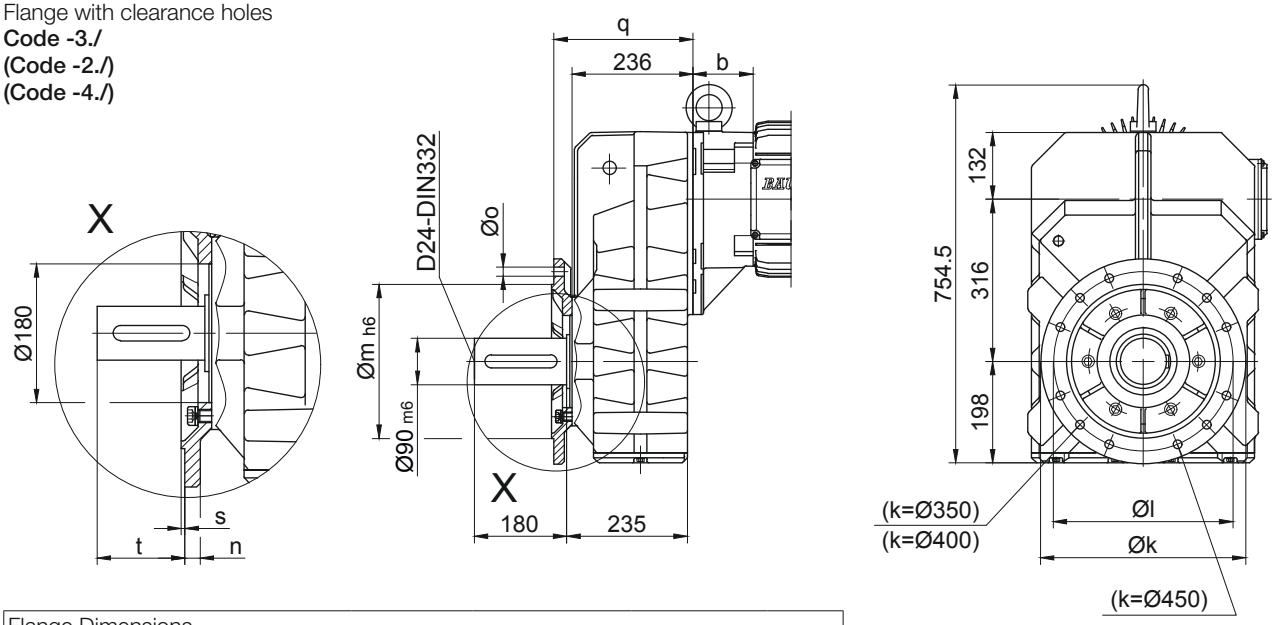
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BF70-BF70Z

Flange with tapped holes
Code -7./

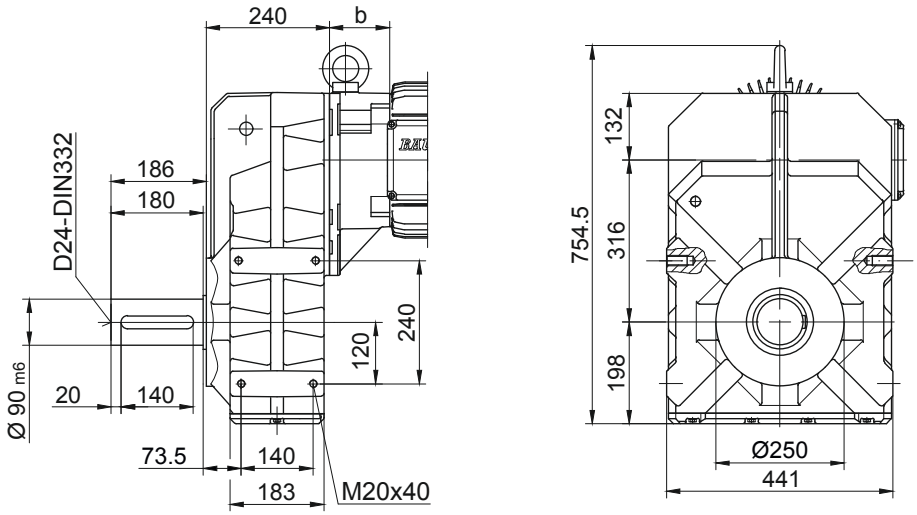


Flange with clearance holes
Code -3./
(Code -2./)
(Code -4./)



Flange Dimensions									
Type	Design	k	l	m	n	o	q	s	t
BF70..	Code -3./	400	350	300	20	4 x 17.5	271	5	155
BF70..	Code -2./	350	300	250	20	4 x 17.5	271	5	155
BF70..	Code -4./	450	400	350	22	8 x 17.5	281	5	145
Dimensions in millimetres (mm)									

Foot with tapped holes left and right
Code -6.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

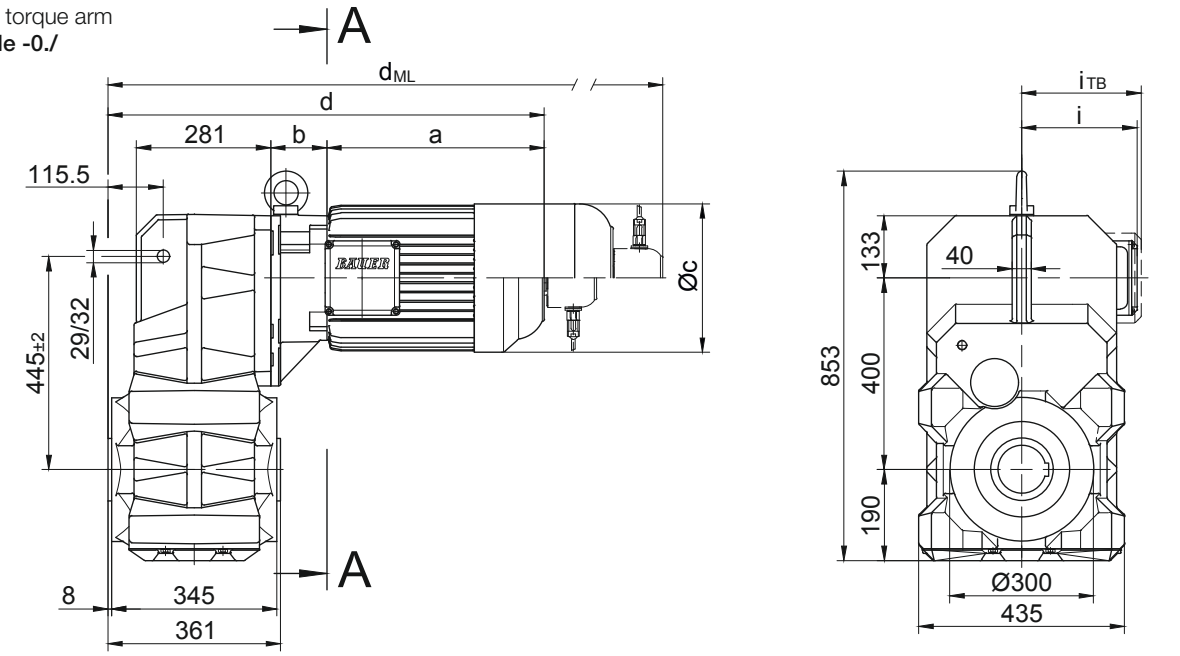
BF-series shaft-mounted geared motors

Dimension - Standard

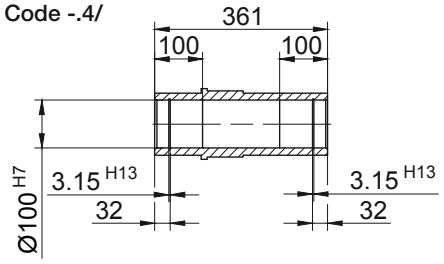
BF80-BF80Z

with torque arm

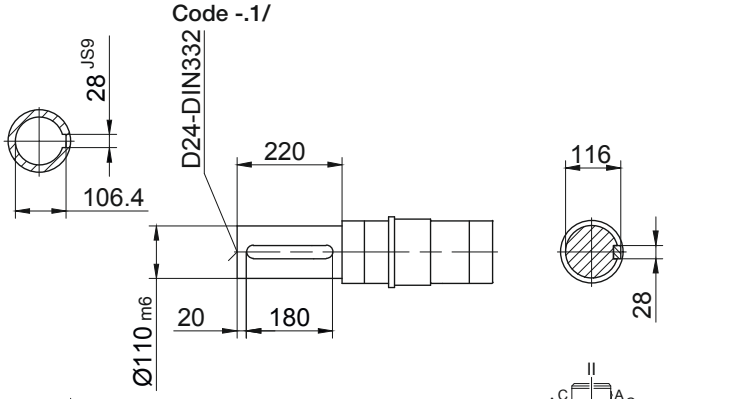
Code -0./



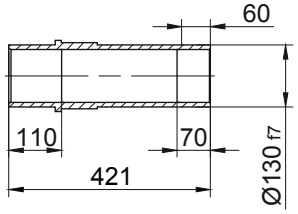
Code -.4/

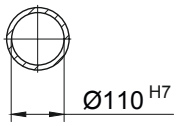


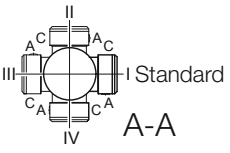
Code -.1/



Code -.5/





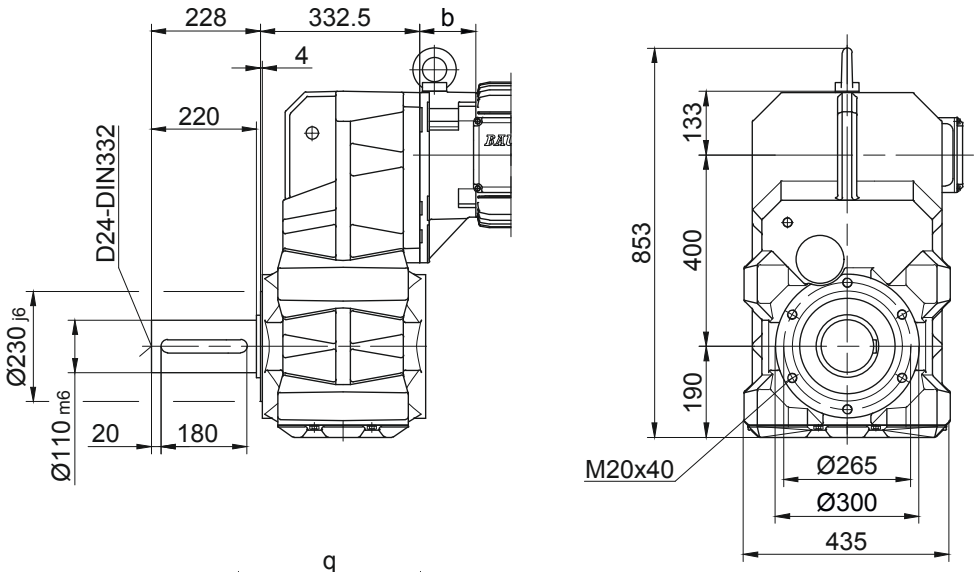


Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BF80Z-../S..08 (M, L)	199.5	202	156	742	114.5	136.5	808	854	915.5	-
BF80-../S..09 (S, X)	250.5	83.5	176	674.5	124	157	767.5	782	871.5	-
BF80Z-../S..09 (S, X)	250.5	216.5	176	807.5	124	157	900.5	915	1004.5	-
BF80-../S..11 (S, M, L)	319	90	218	749.5	165	176	847.5	857	949.5	-
BF80Z-../S..11 (S, M, L)	319	223	218	882.5	165	176	980.5	990	1082.5	-

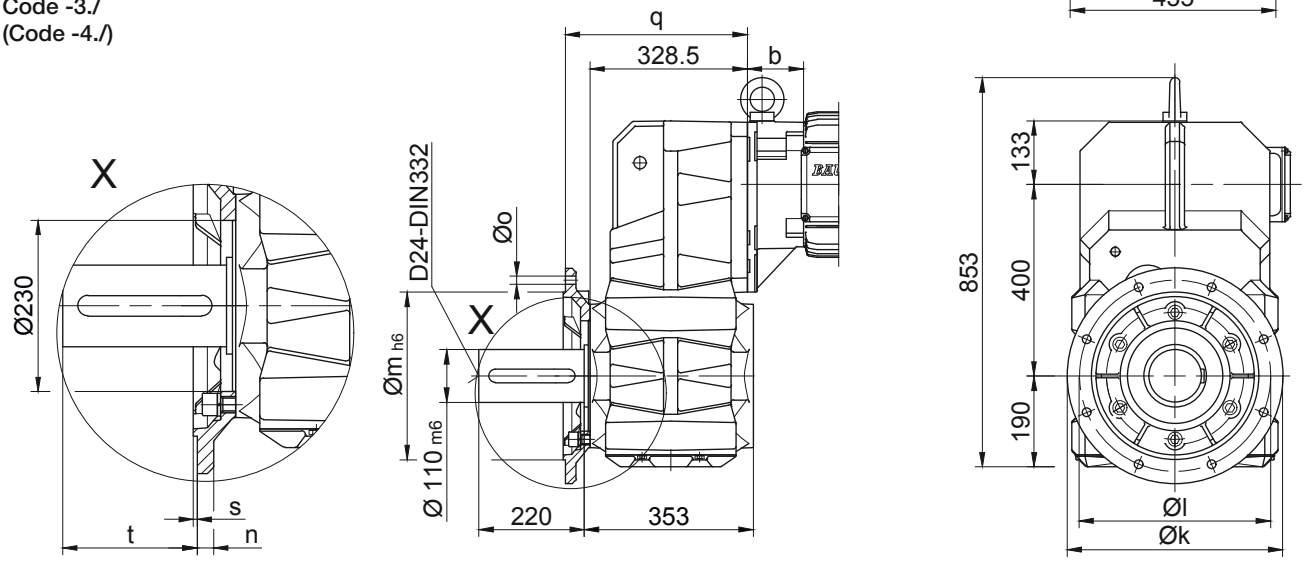
Dimensions in millimetres (mm)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BF80-BF80Z
Flange with tapped holes
Code -7./

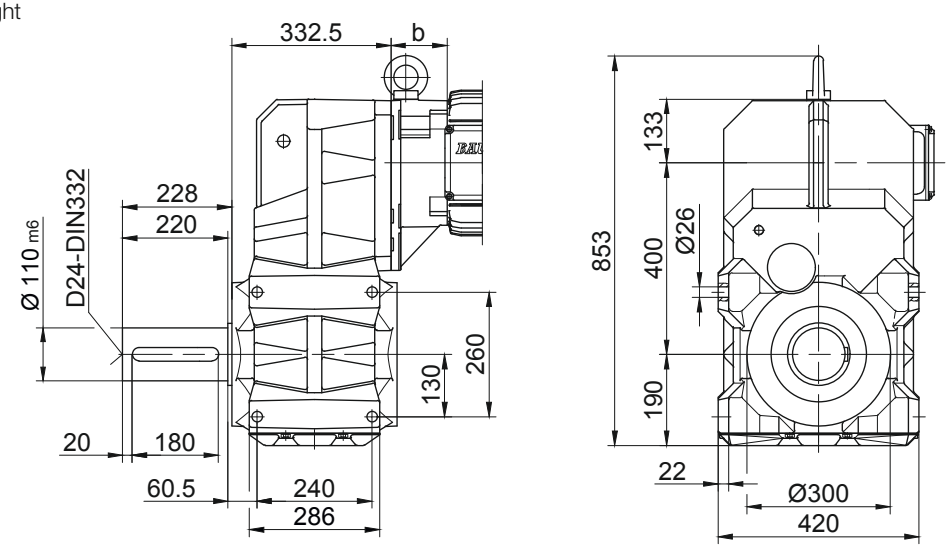


Flange with clearance holes
Code -3./
(Code -4./)



Flange Dimensions									
Type	Design	k	l	m	n	o	q	s	t
BF80..	Code -3./	450	400	350	22	17.5	383.5	5	177
BF80..	Code -4./	550	500	450	22	17.5	388.5	5	172
Dimensions in millimetres (mm)									

Foot with clearance holes left and right
Code -1.LR/

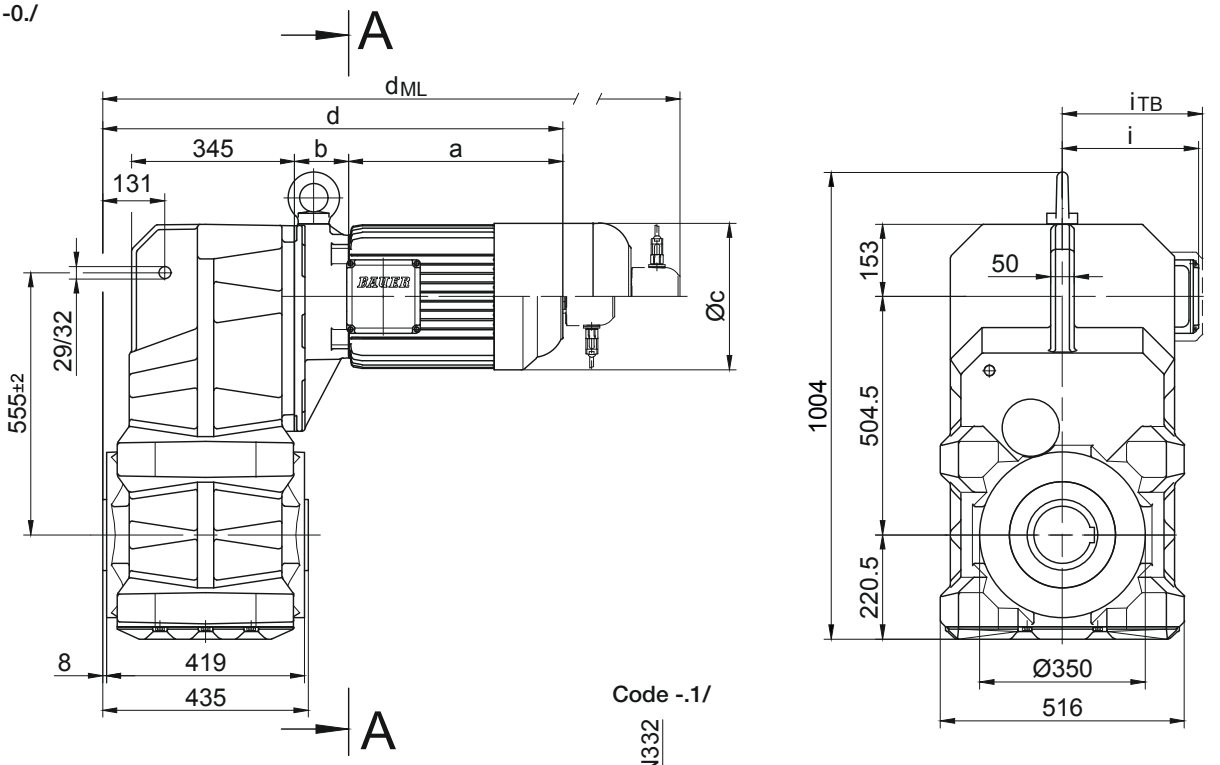


The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

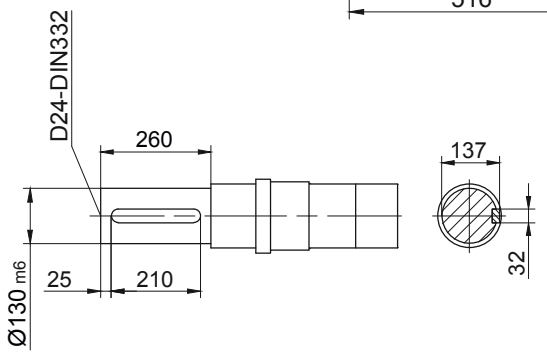
BF-series shaft-mounted geared motors

Dimension - Standard

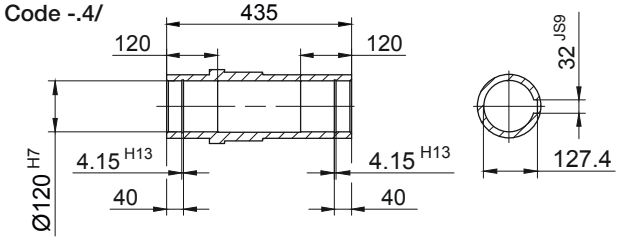
BF90-BF90Z
with torque arm
Code -0./



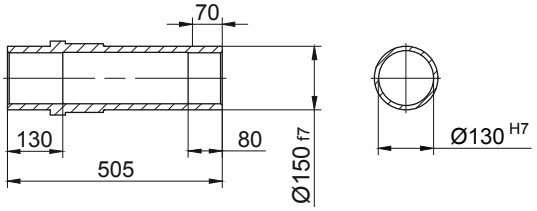
Code -.1/

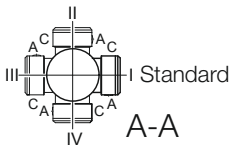


Code -.4/



Code -.5/



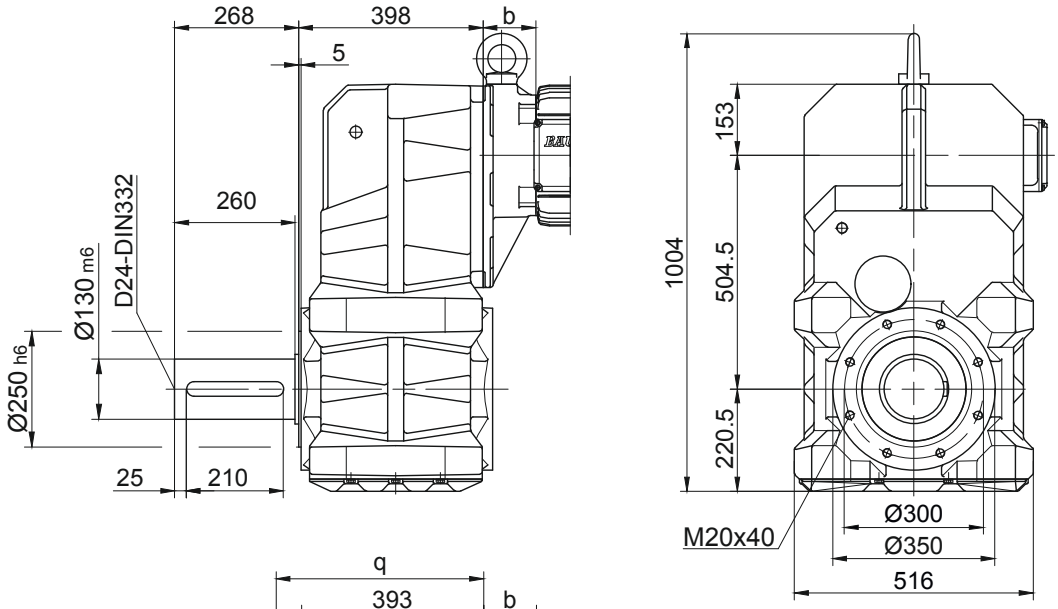


Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BF90Z-../S..09 (S, X)	250.5	252.5	176	909	124	157	1002	1016.5	1106	-
BF90-../S..11 (S, M, L)	319	87	218	812	165	176	910	919.5	1012	-
BF90Z-../S..11 (S, M, L)	319	259	218	984	165	176	1082	1091.5	1184	-
Dimensions in millimetres (mm)										

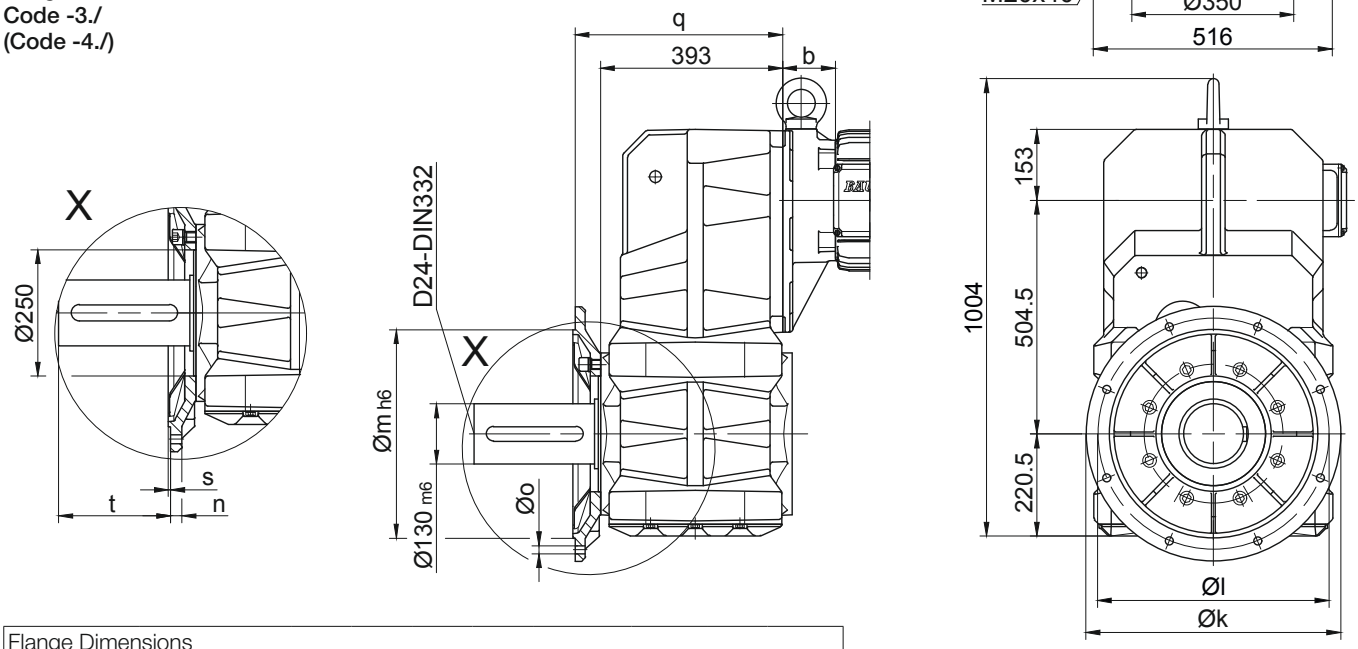
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BF90-BF90Z

Flange with tapped holes
Code -7./

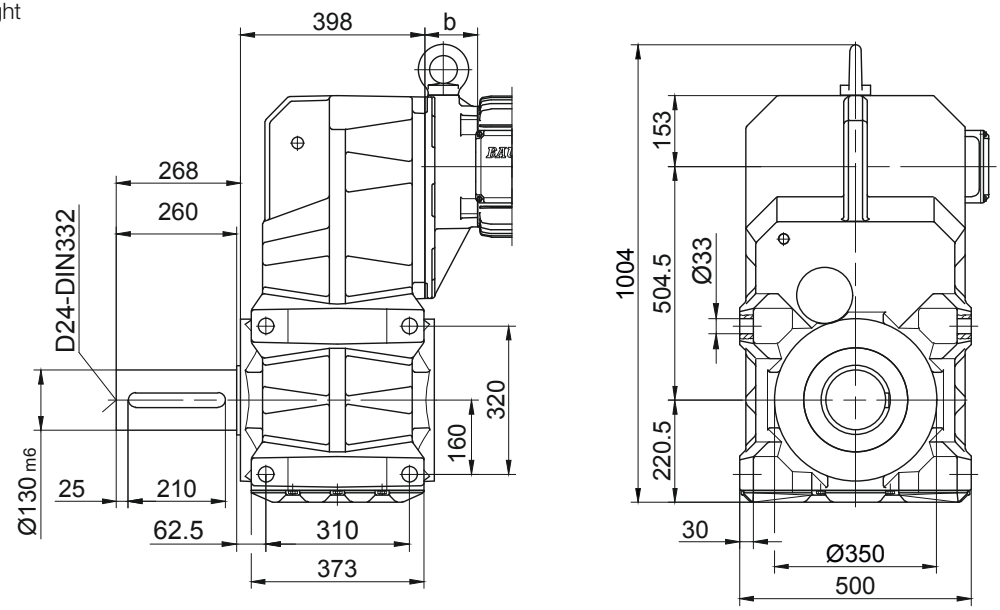


Flange with clearance holes
Code -3./
(Code -4./)



Flange Dimensions									
Type	Design	k	l	m	n	o	q	s	t
BF90..	Code -3./	550	500	450	22	17.5	448	5	218
BF90..	Code -4./	660	600	550	25	22	442	6	224
Dimensions in millimetres (mm)									

Foot with clearance holes left and right
Code -1.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

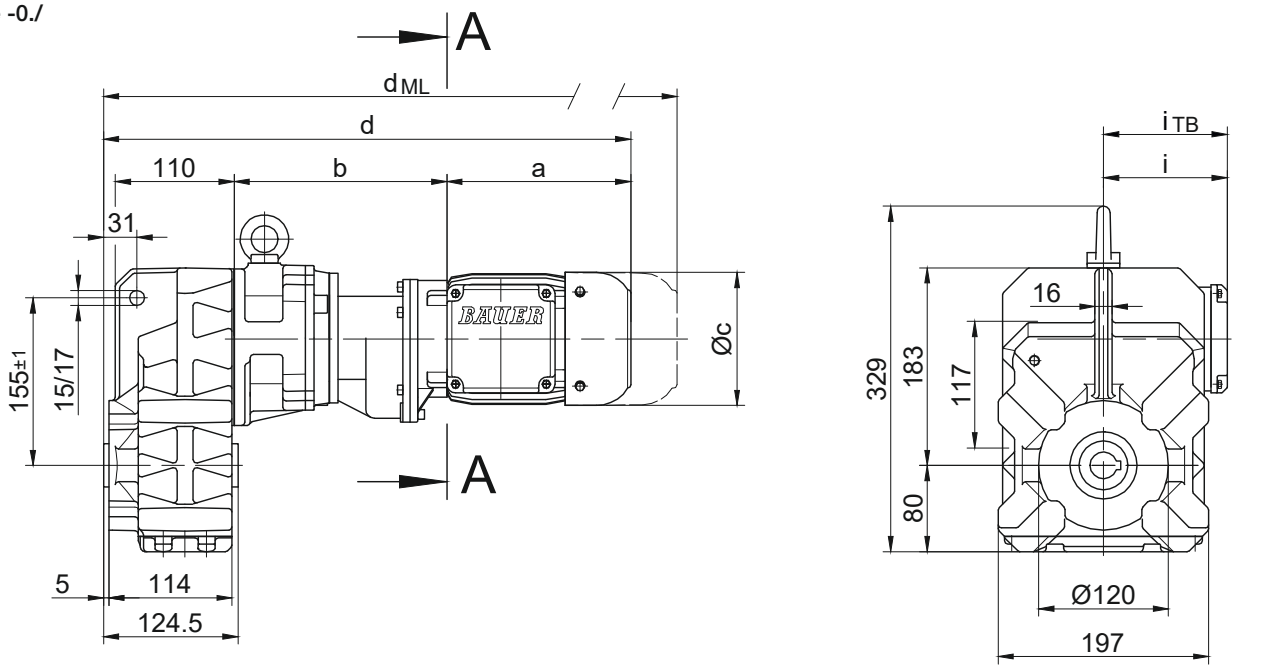
BF-series shaft-mounted geared motors

Dimension - Tandem Gearbox

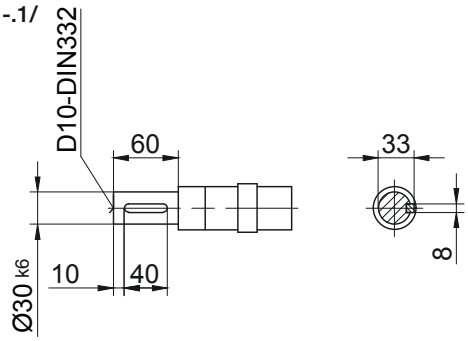
BF10G06

with torque arm

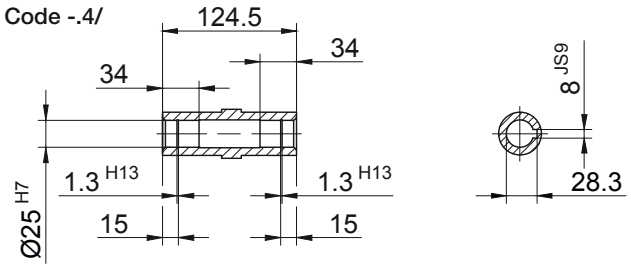
Code -0./



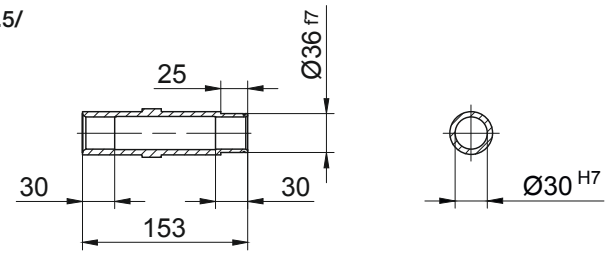
Code -.1/

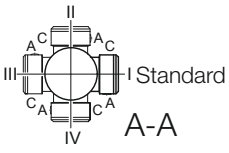


Code -.4/



Code -.5/





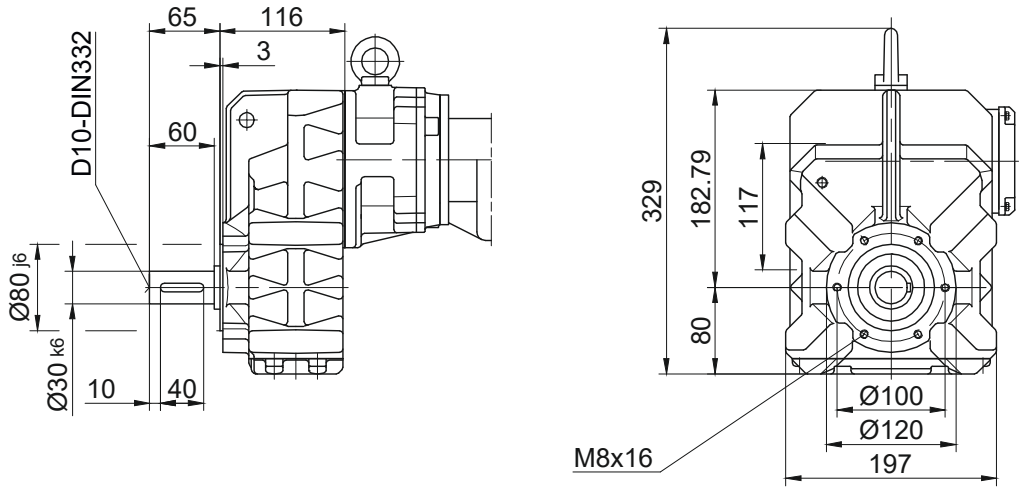
Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BF10G06-../S04S	142.5	195	110.5	458.5	90	112	502	546	589.5	-
BF10G06-../S..06 (M, L)	170.5	197	123	488.5	99	119	530.5	591	628.5	-
BF10G06-../S..08 (M, L)	199.5	241	156	561.5	114.5	136.5	627.5	673.5	735	-

Dimensions in millimetres (mm)

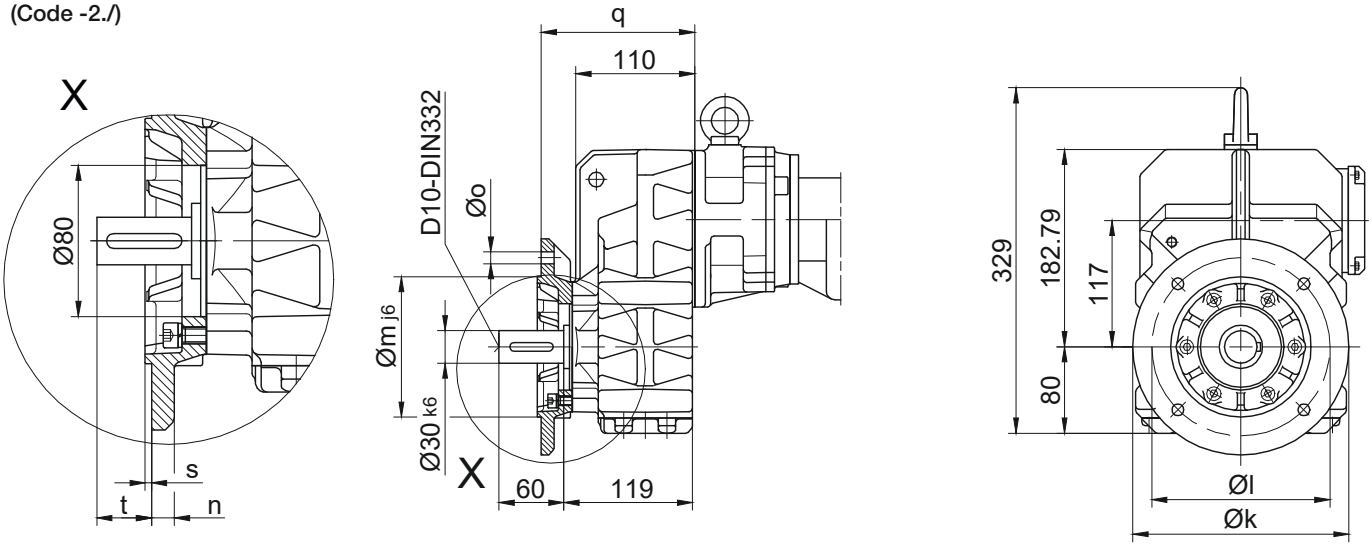
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BF10G06

Flange with tapped holes
Code -7./

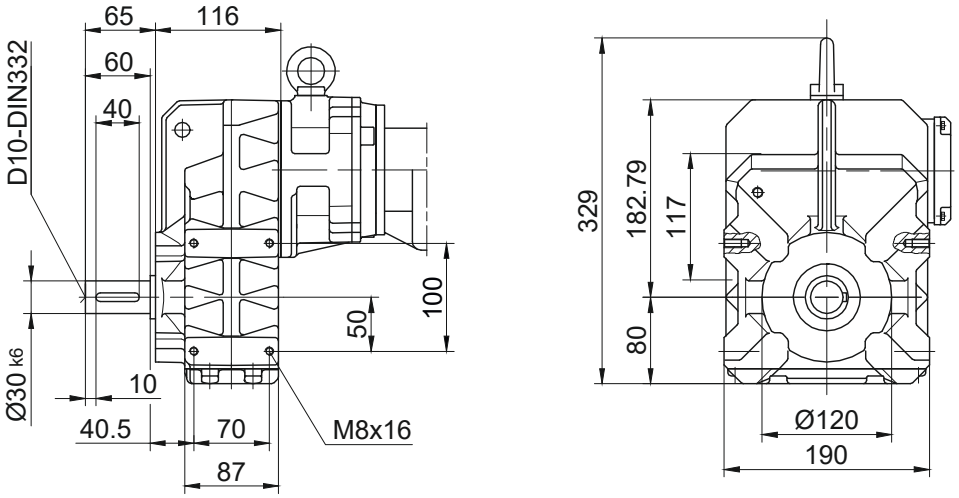


Flange with clearance holes
Code -3./
(Code -2./)



Flange Dimensions									
Type	Design	k	l	m	n	o	q	s	t
BF10..	Code -3./	200	165	130	12	11	142	3.5	39
BF10..	Code -2./	160	130	110	10	9	135	3.5	46
Dimensions in millimetres (mm)									

Foot with tapped holes left and right
Code -6.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

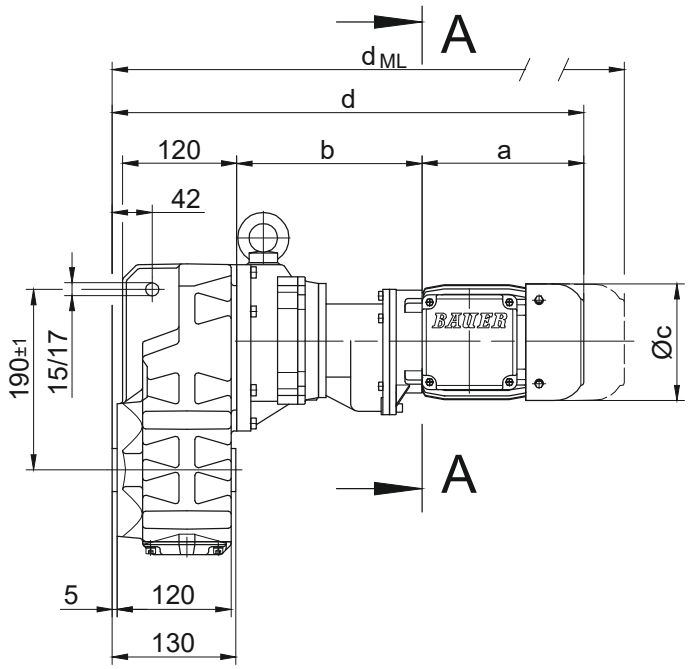
BF-series shaft-mounted geared motors

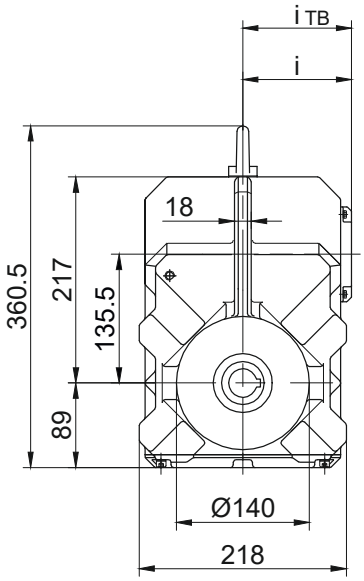
Dimension - Tandem Gearbox

BF20G06

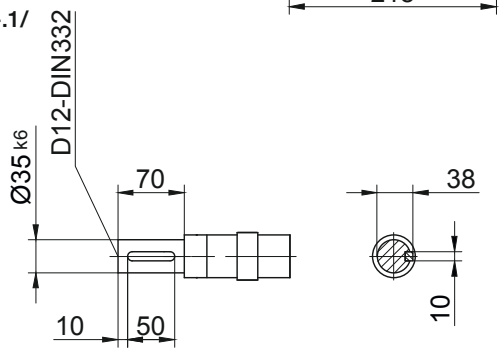
with torque arm

Code -0./

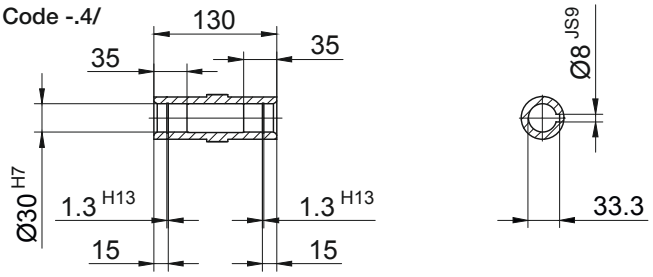




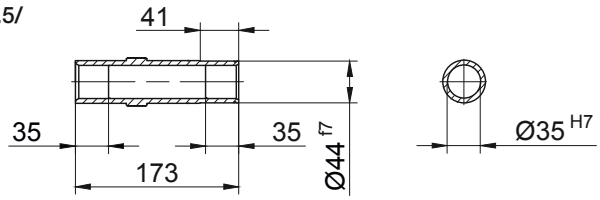
Code -.1/

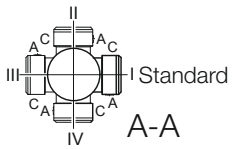


Code -.4/



Code -.5/





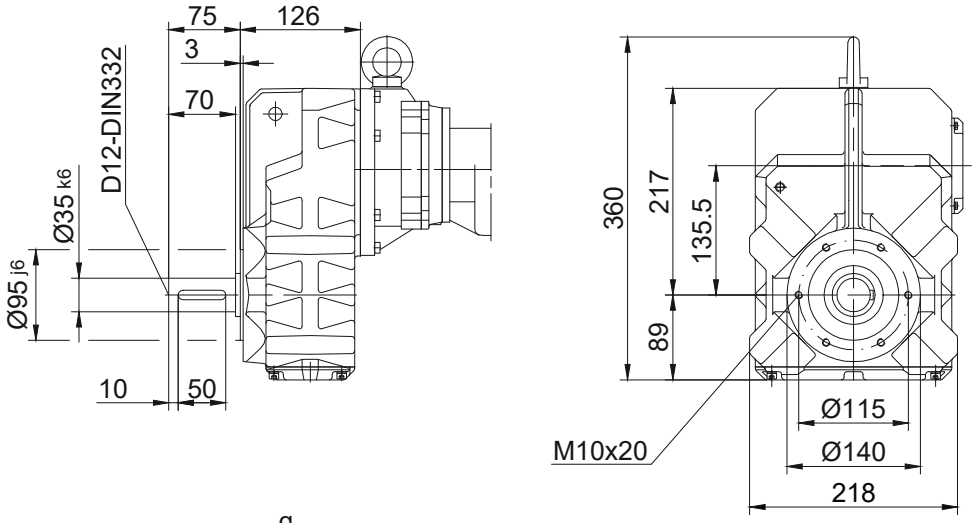
Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BF20G06-../S04S	142.5	193	110.5	466.5	90	112	510	554	597.5	-
BF20G06-../S..06 (M, L)	170.5	195	123	496.5	99	119	538.5	599	636.5	-
BF20G06-../S..08 (M, L)	199.5	239	156	569.5	114.5	136.5	635.5	681.5	743	-

Dimensions in millimetres (mm)

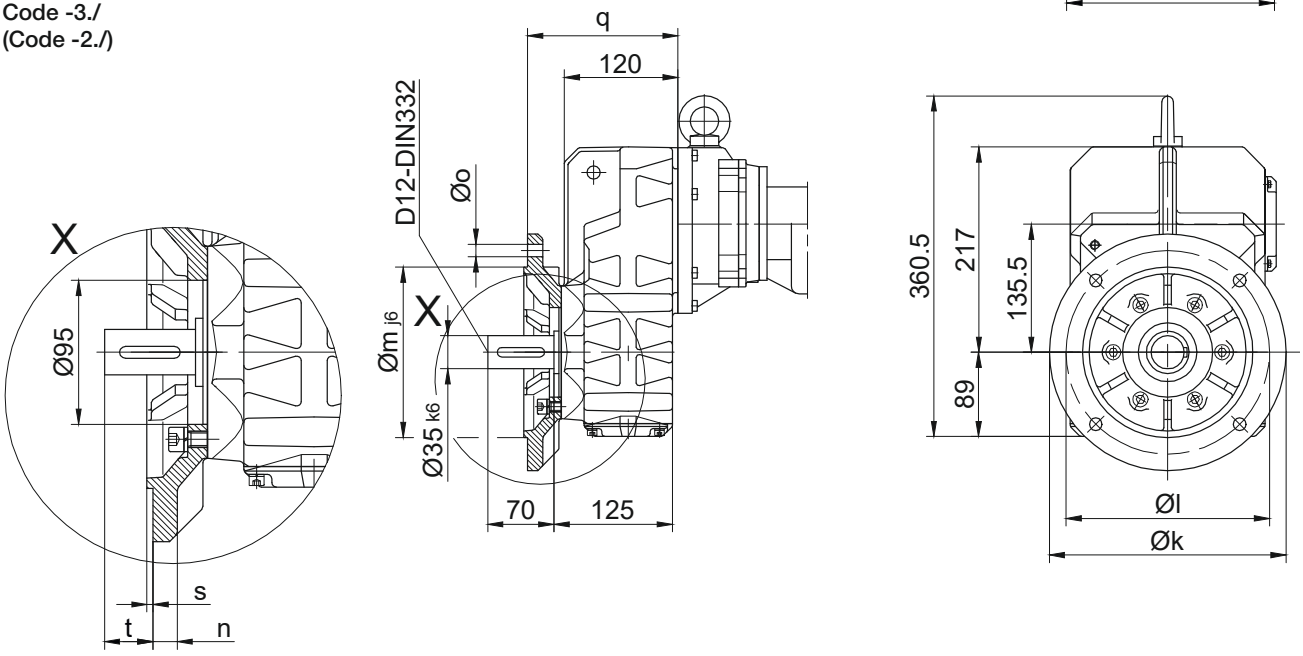
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BF20G06

Flange with tapped holes
Code -7./

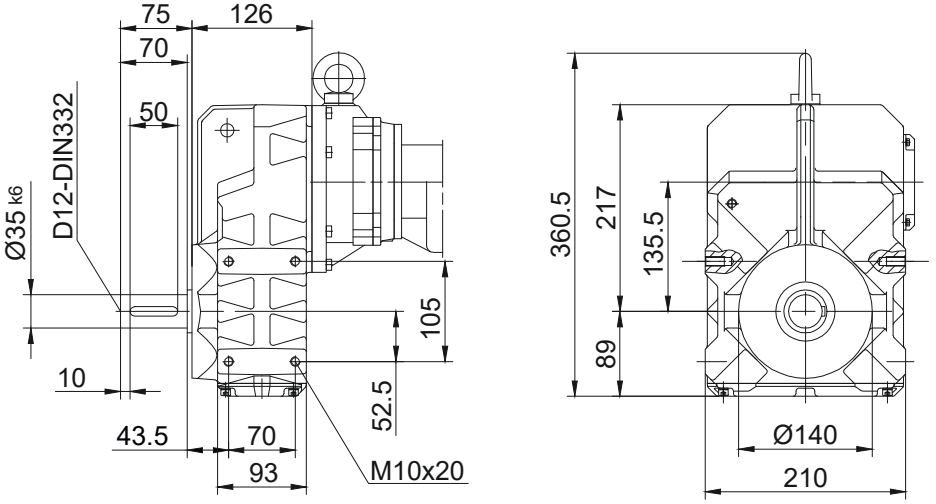


Flange with clearance holes
Code -3./
(Code -2./)



Flange Dimensions									
Type	Design	k	l	m	n	o	q	s	t
BF20..	Code -3./	250	215	180	16	13.5	159	4	42
BF20..	Code -2./	200	165	130	12	11	150	3.5	51
Dimensions in millimetres (mm)									

Foot with tapped holes left and right
Code -6.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

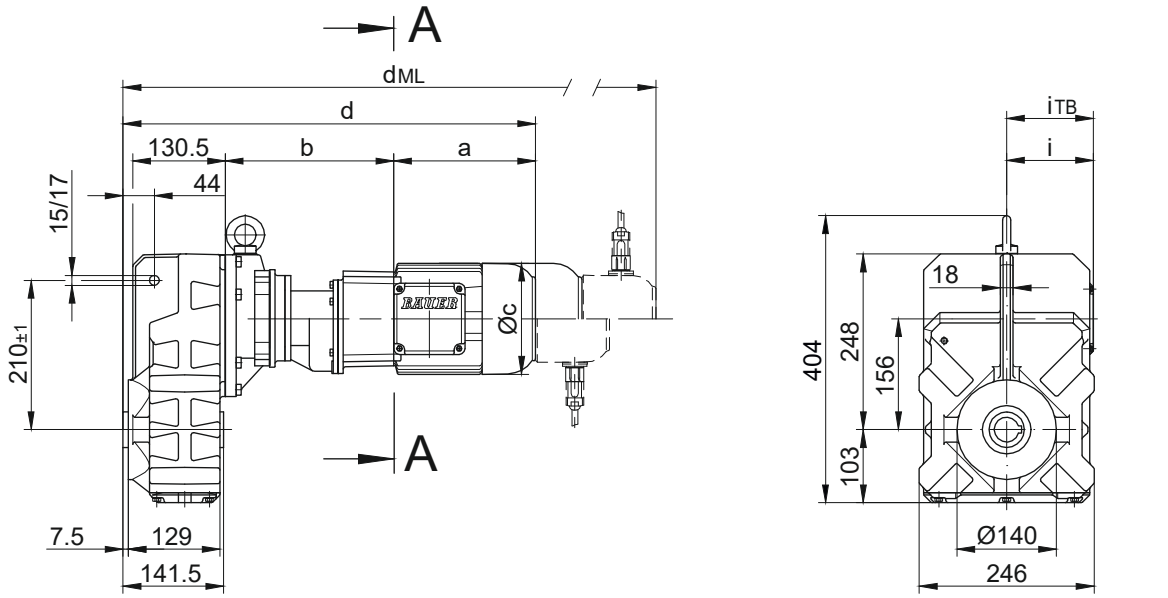
BF-series shaft-mounted geared motors

Dimension - Tandem Gearbox

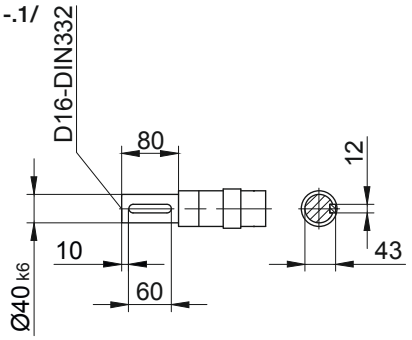
BF30G06

with torque arm

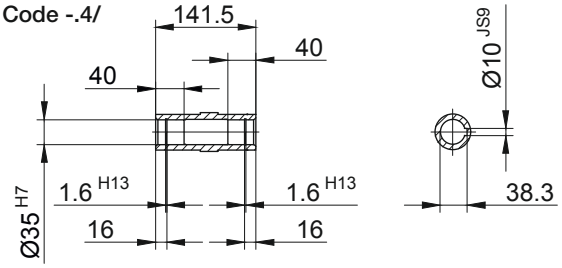
Code -0./



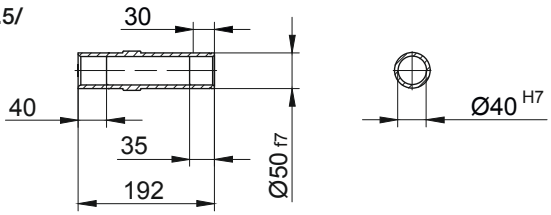
Code -.1/

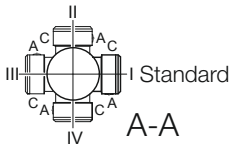


Code -.4/



Code -.5/



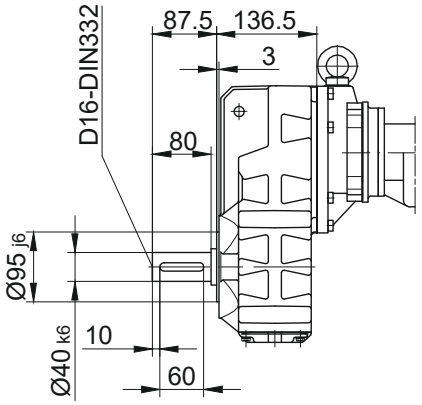


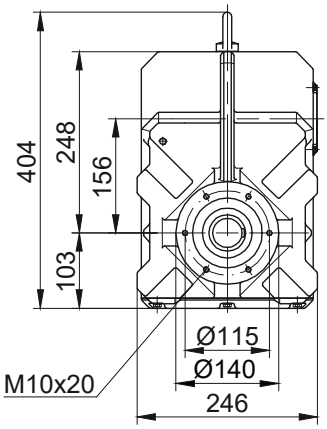
Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BF30G06-../S04S	142.5	191	110.5	477.5	90	112	521	565	608.5	-
BF30G06-../S..06 (M, L)	170.5	193	123	507.5	99	119	549.5	610	647.5	-
BF30G06-../S..08 (M, L)	199.5	237	156	580.5	114.5	136.5	646.5	692.5	754	-
Dimensions in millimetres (mm)										

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

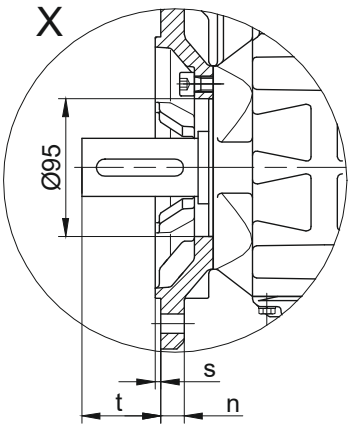
BF30G06

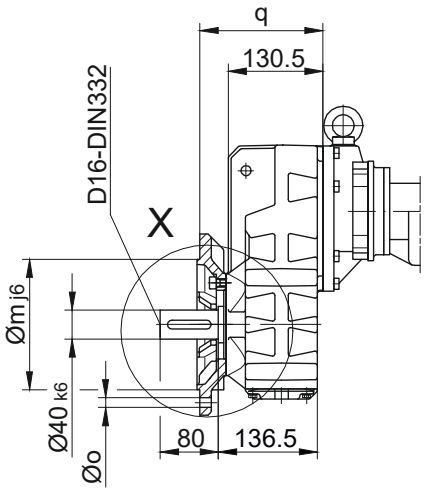
Flange with tapped holes
Code -7./

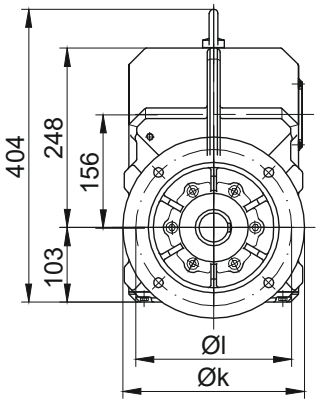




Flange with clearance holes
Code -3./
(Code -2./)

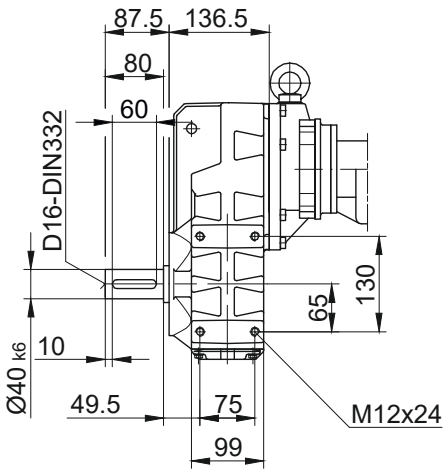


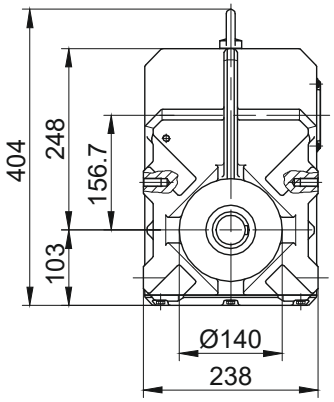




Flange Dimensions									
Type	Design	k	l	m	n	o	q	s	t
BF30..	Code -3./	250	215	180	16	13.5	169.5	4	54.5
BF30..	Code -2./	200	165	130	12	11	160.5	3.5	63.5
Dimensions in millimetres (mm)									

Foot with tapped holes left and right
Code -6.LR/





The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

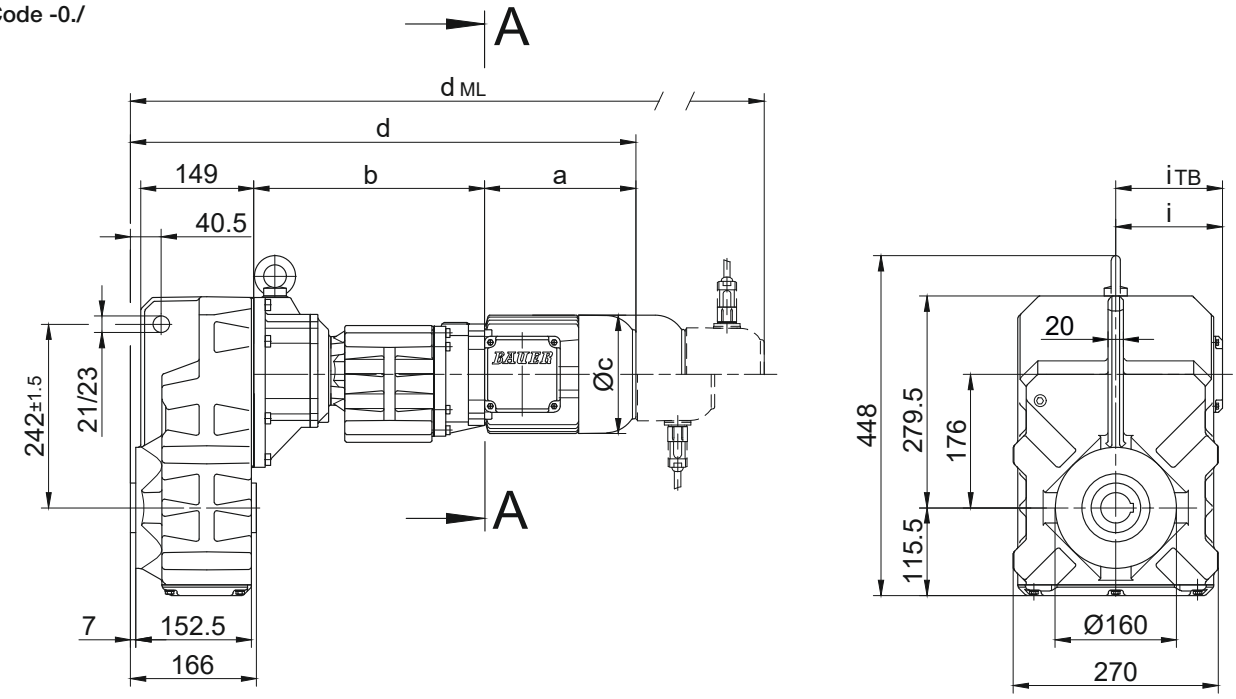
BF-series shaft-mounted geared motors

Dimension - Tandem Gearbox

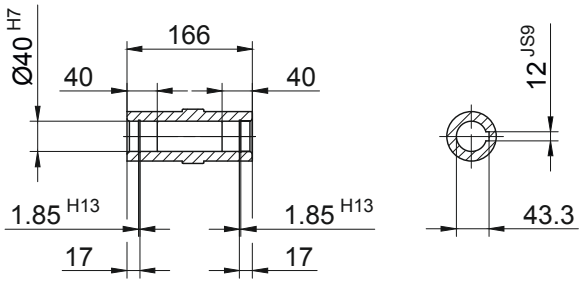
BF40G10

with torque arm

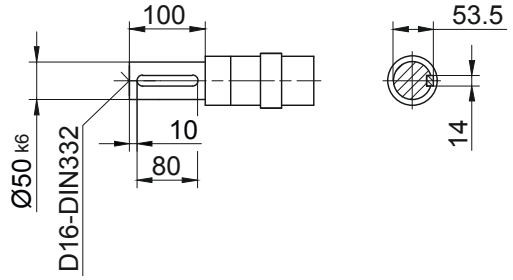
Code -0./



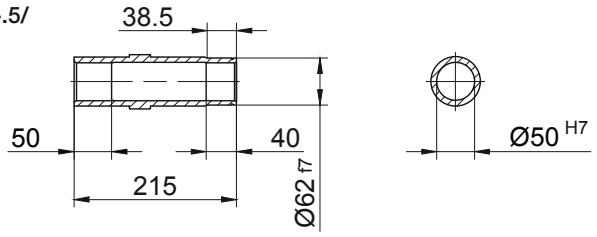
Code -.4/

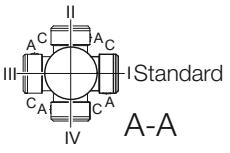


Code -.1/



Code -.5/



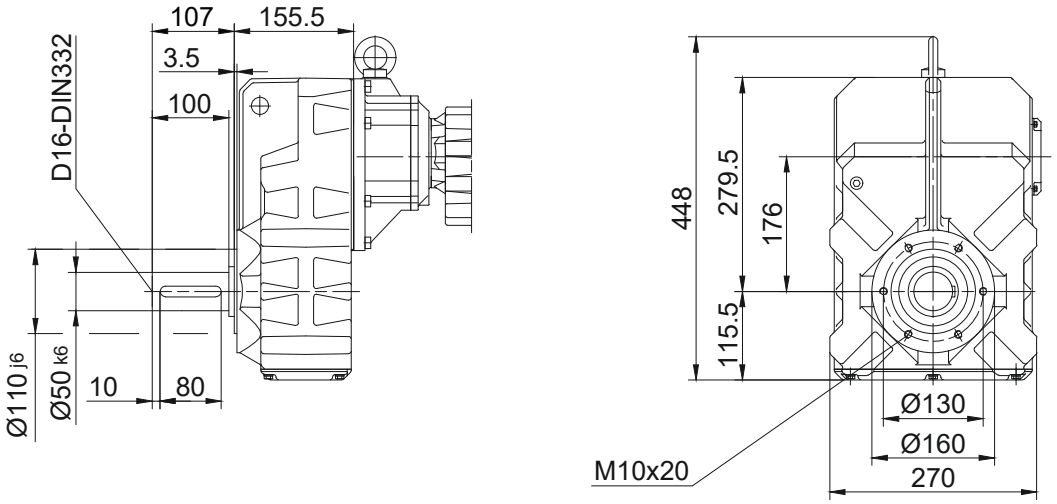


Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BF40G10-../S..06 (M, L)	170.5	300	123	633	99	119	675	735.5	773	-
BF40G10-../S..08 (M, L)	199.5	304	156	666	114.5	136.5	732	778	839.5	-
BF40G10-../S..09 (S, X)	250.5	318.5	176	731.5	124	157	824.5	839	928.5	-
Dimensions in millimetres (mm)										

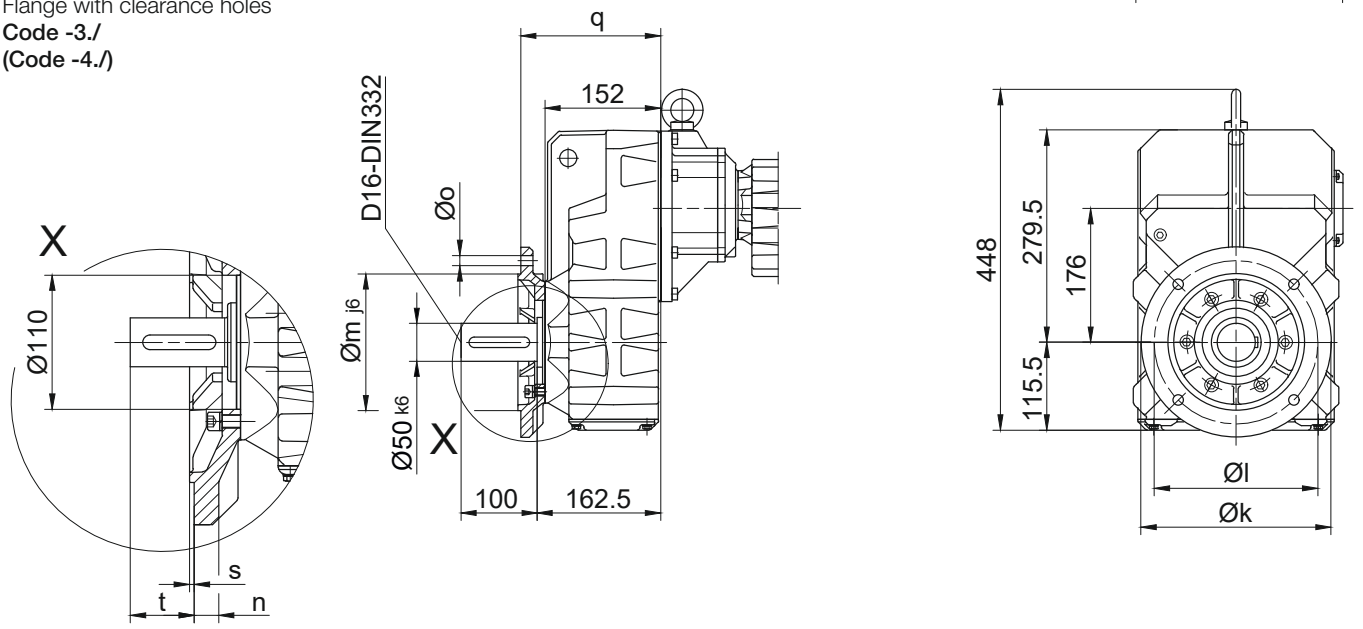
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BF40G10

Flange with tapped holes
Code -7./

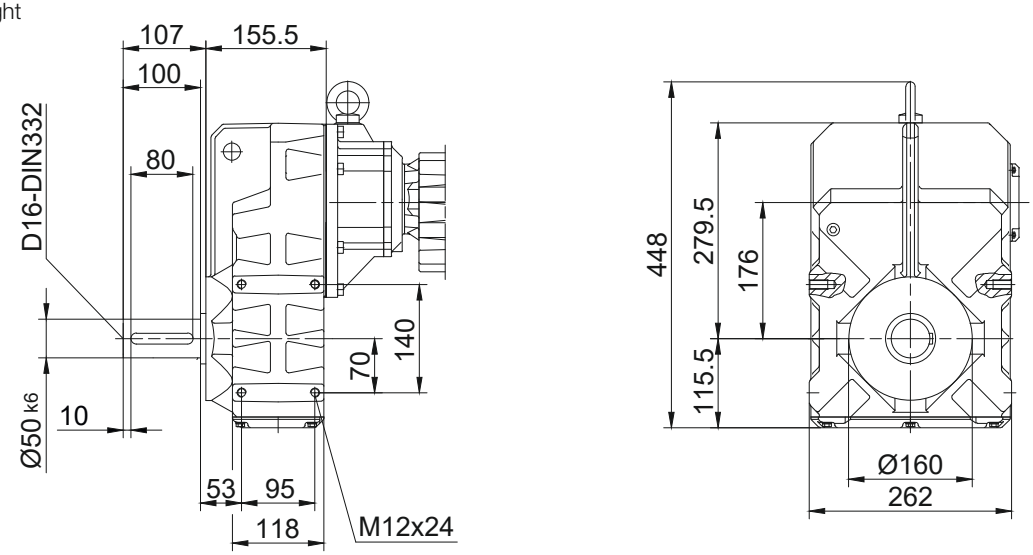


Flange with clearance holes
Code -3./
(Code -4./)



Flange Dimensions									
Type	Design	k	l	m	n	o	q	s	t
BF40..	Code -3./	250	215	180	16	13.5	184	4	78.5
BF40..	Code -4./	300	265	230	20	13.5	190	4	72.5
Dimensions in millimetres (mm)									

Foot with tapped holes left and right
Code -6.LR/

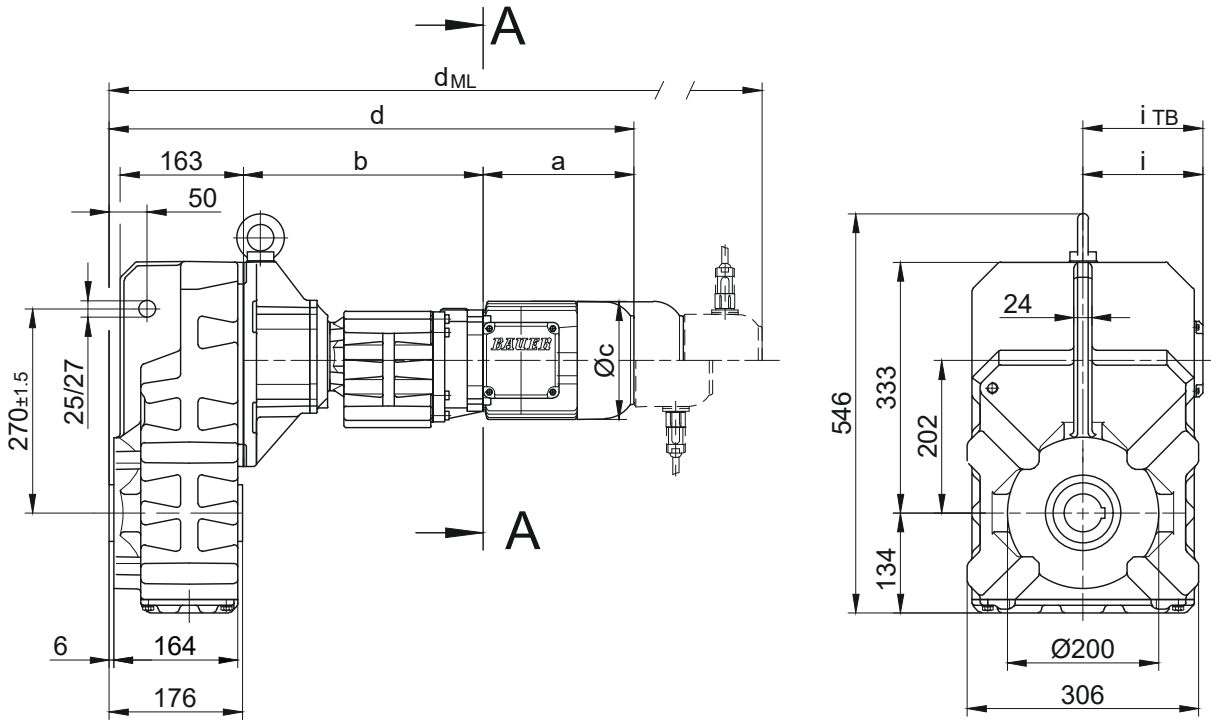


The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

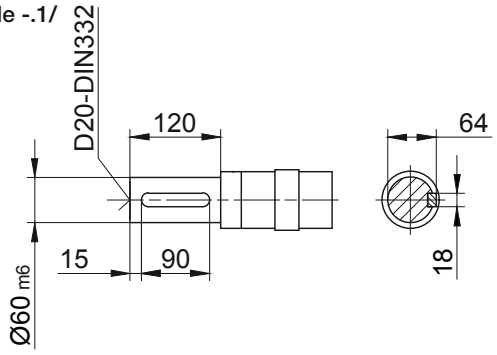
BF-series shaft-mounted geared motors

Dimension - Tandem Gearbox

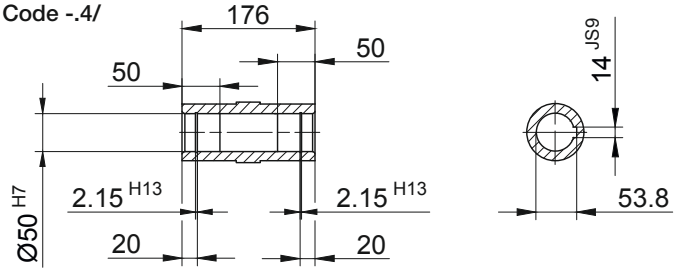
BF50G10
with torque arm
Code -0./



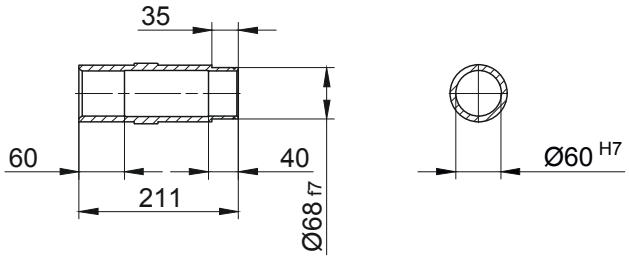
Code -.1/

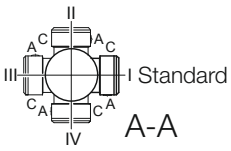


Code -.4/



Code -.5/



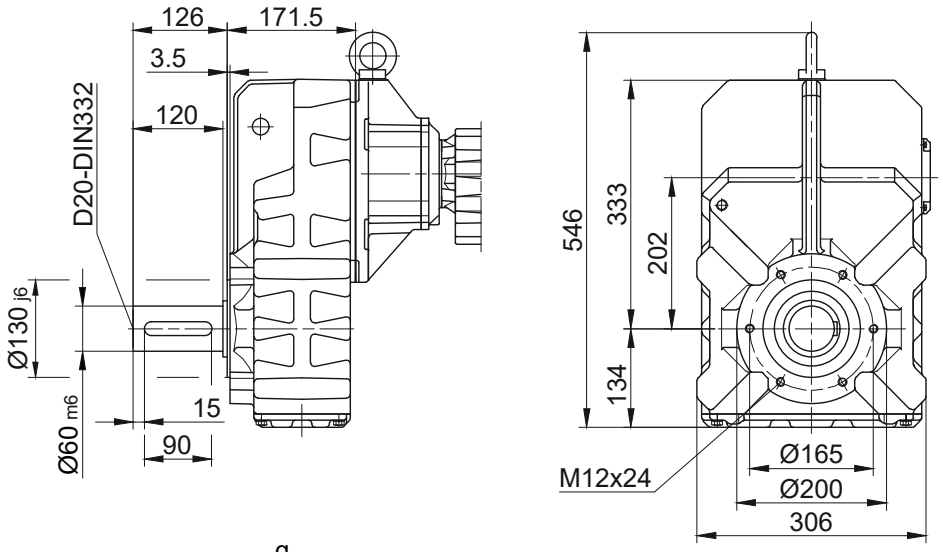


Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BF50G10-../S..06 (M, L)	170.5	313	123	661	99	119	703	763.5	801	-
BF50G10-../S..08 (M, L)	199.5	317	156	694	114.5	136.5	760	806	867.5	-
BF50G10-../S..09 (S, X)	250.5	331.5	176	759.5	124	157	852.5	867	956.5	-
Dimensions in millimetres (mm)										

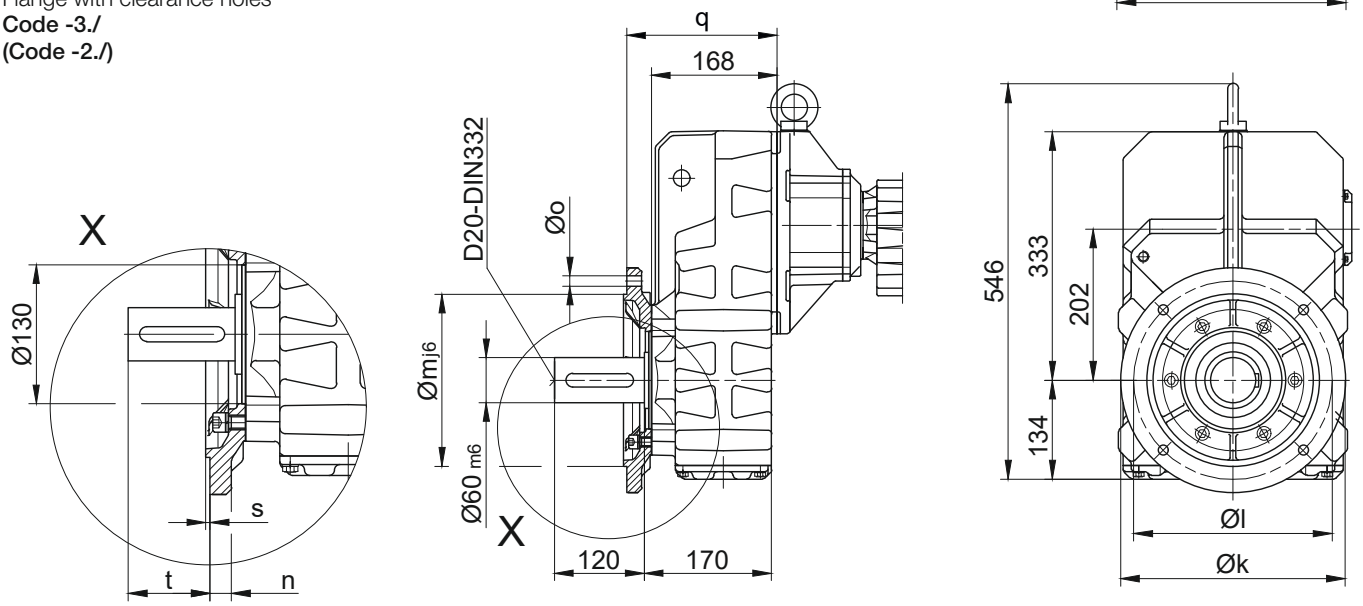
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BF50G10

Flange with tapped holes
Code -7./

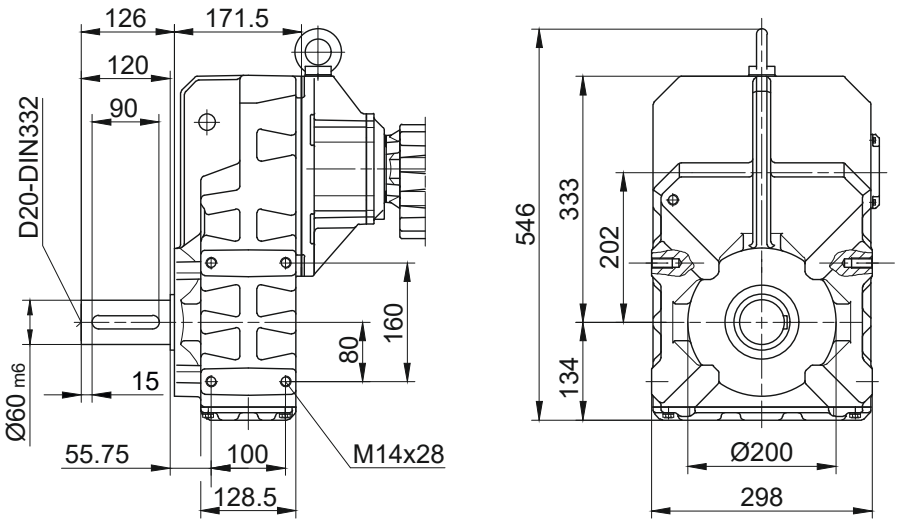


Flange with clearance holes
Code -3./
(Code -2./)



Flange Dimensions									
Type	Design	k	l	m	n	o	q	s	t
BF50..	Code -3./	300	265	230	20	13.5	201	4	96.5
BF50..	Code -2./	250	215	180	16	13.5	198	4	99.5
Dimensions in millimetres (mm)									

Foot with tapped holes left and right
Code -6.LR/

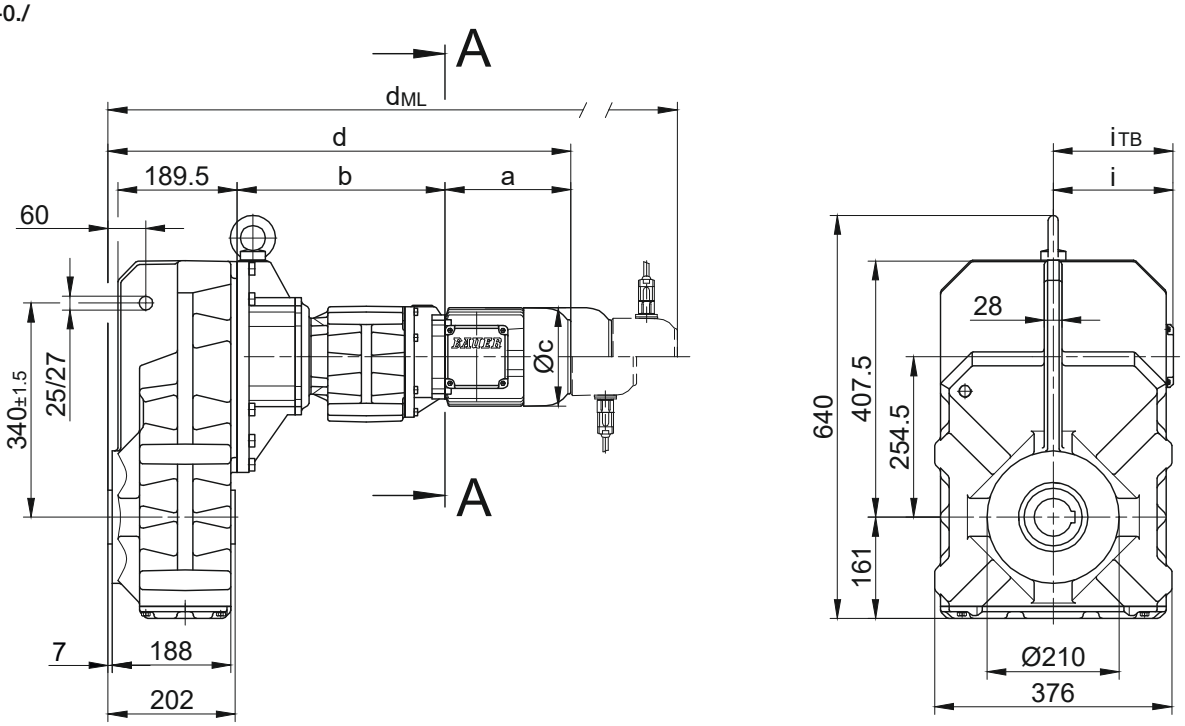


The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

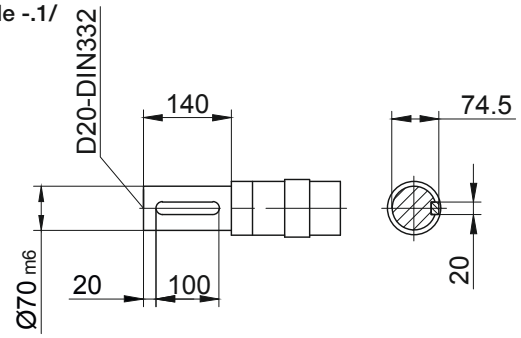
BF-series shaft-mounted geared motors

Dimension - Tandem Gearbox

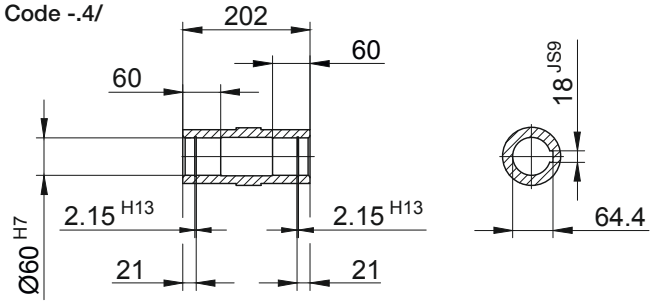
BF60G20
with torque arm
Code -0./



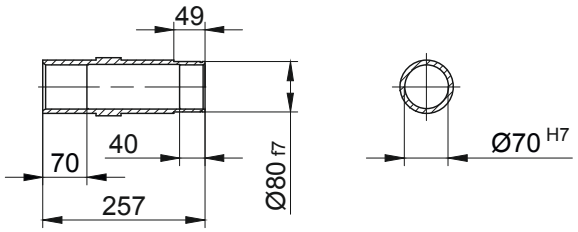
Code -.1/

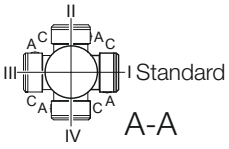


Code -.4/



Code -.5/



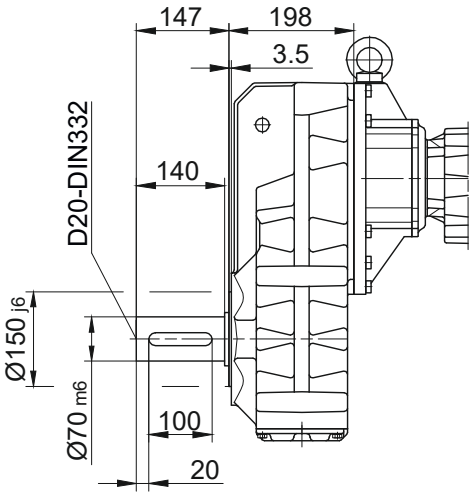


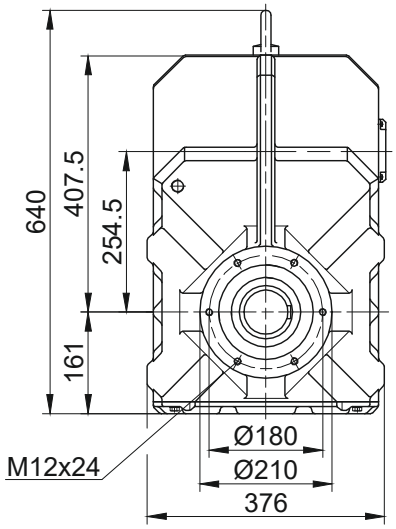
Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BF60G20-../S..06 (M, L)	170.5	326	123	701.5	99	119	743.5	804	841.5	-
BF60G20-../S..08 (M, L)	199.5	330	156	734.5	114.5	136.5	800.5	846.5	908	-
BF60G20-../S..09 (S, X)	250.5	344.5	176	800	124	157	893	907.5	997	-
Dimensions in millimetres (mm)										

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

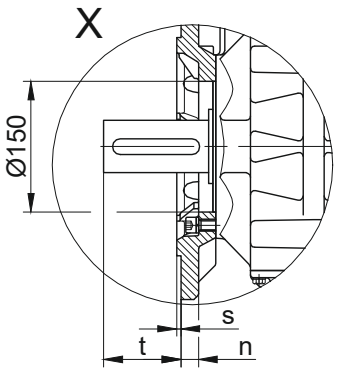
BF60G20

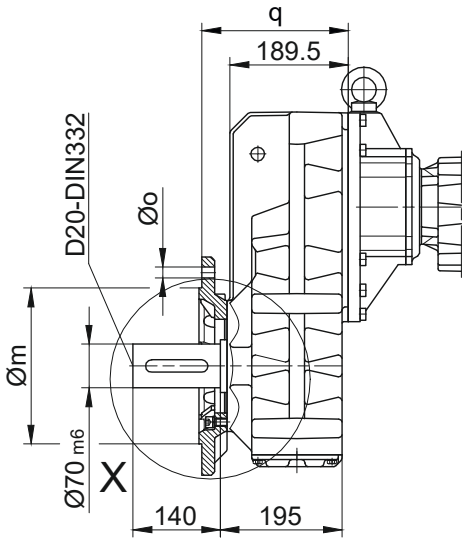
Flange with tapped holes
Code -7./

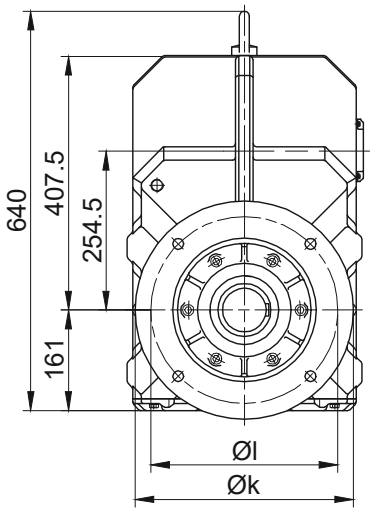




Flange with clearance holes
Code -3./
(Code -2./)

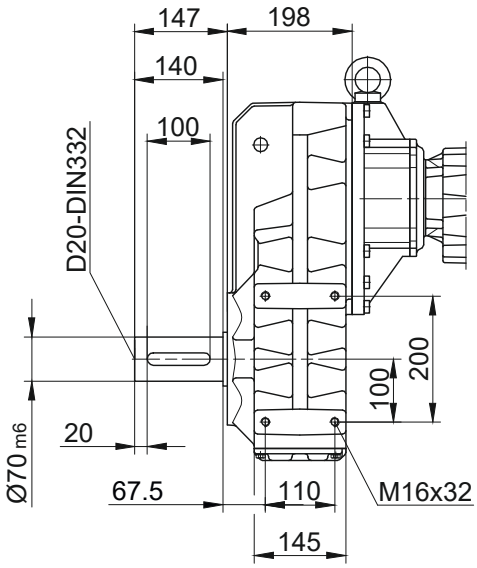


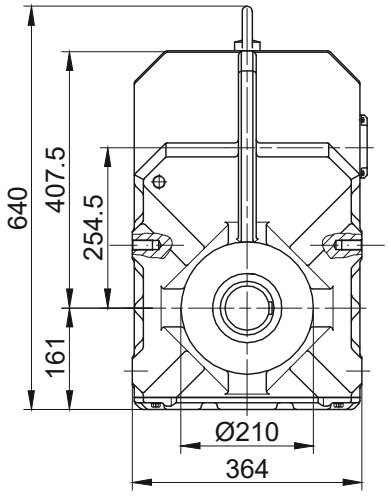




Flange Dimensions									
Type	Design	k	l	m	n	o	q	s	t
BF60..	Code -3./	350	300	250	20	17.5	234.5	5	110.5
BF60..	Code -2./	300	265	230	20	13.5	242.5	4	102.5
Dimensions in millimetres (mm)									

Foot with tapped holes left and right
Code -6.LR/



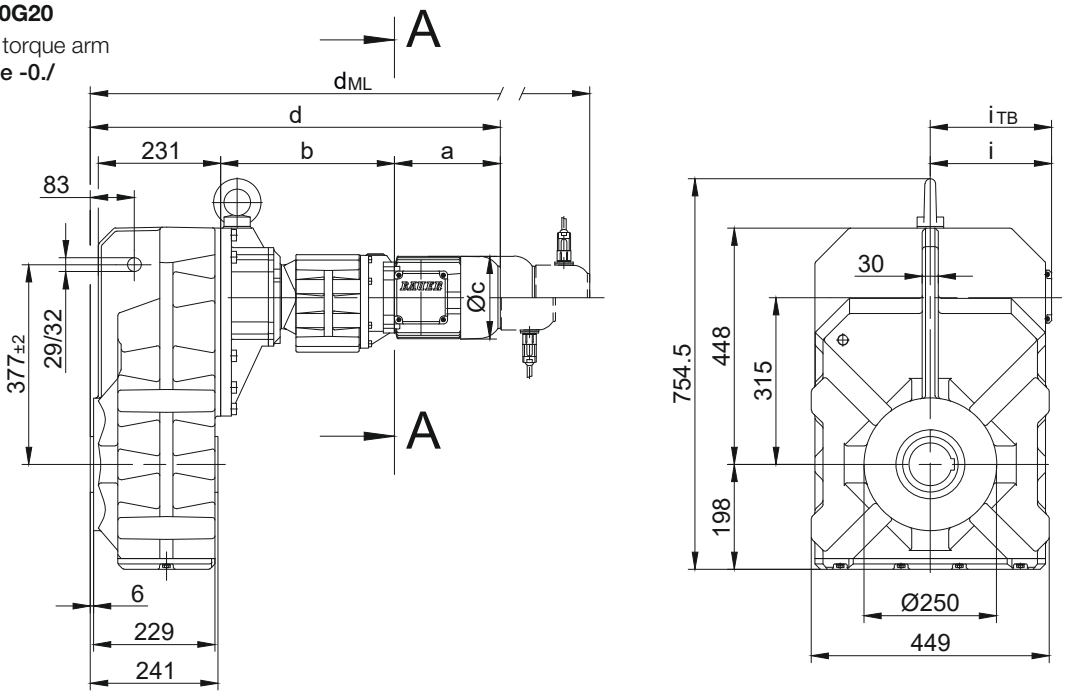


The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

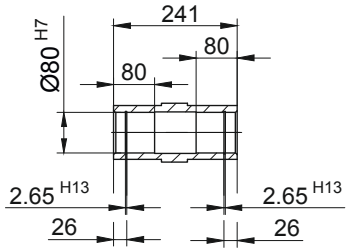
BF-series shaft-mounted geared motors

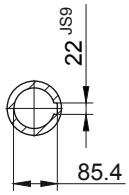
Dimension - Tandem Gearbox

BF70G20
with torque arm
Code -0./

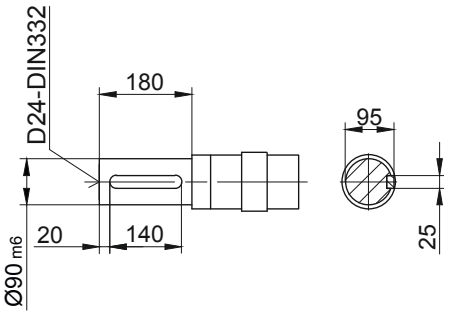


Code -.4/

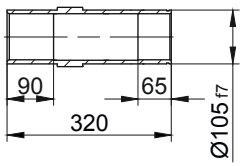


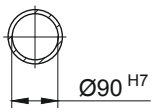


Code -.1/



Code -.5/





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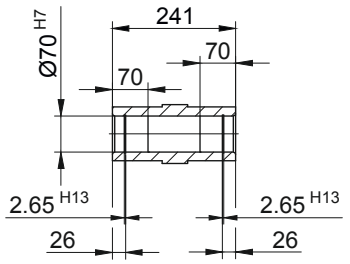
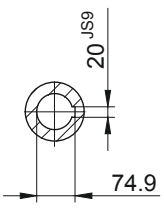
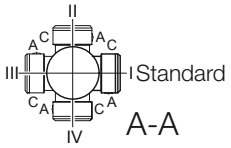




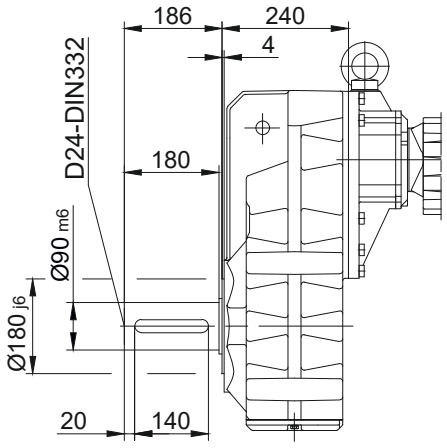


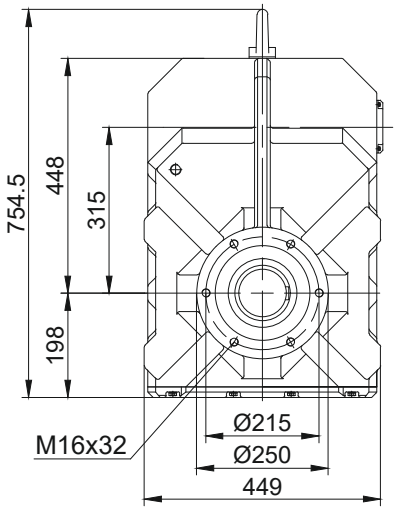
Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BF70G20-../S..06 (M, L)	170.5	324	123	740.5	99	119	782.5	843	880.5	-
BF70G20-../S..08 (M, L)	199.5	328	156	773.5	114.5	136.5	839.5	885.5	947	-
BF70G20-../S..09 (S, X)	250.5	342.5	176	839	124	157	932	946.5	1036	-
Dimensions in millimetres (mm)										

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

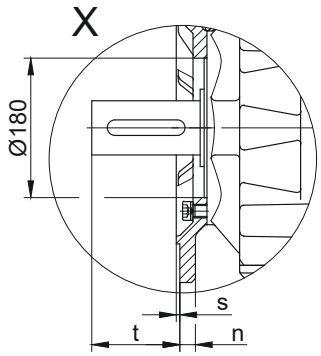
BF70G20

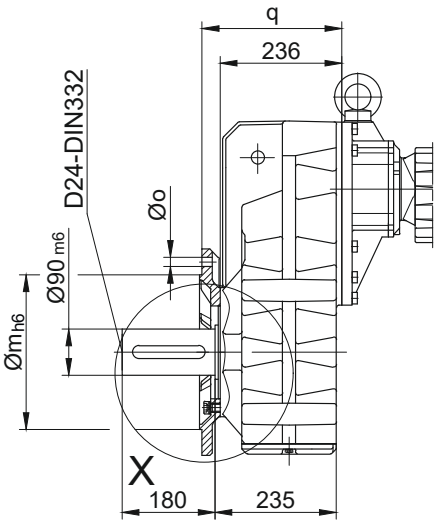
Flange with tapped holes
Code -7./

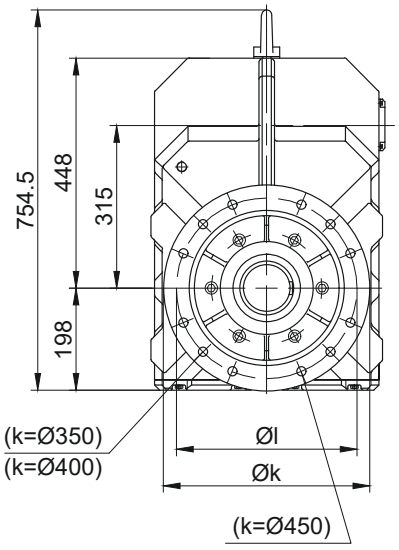




Flange with clearance holes
Code -3./
(Code -2./)
(Code -4./)

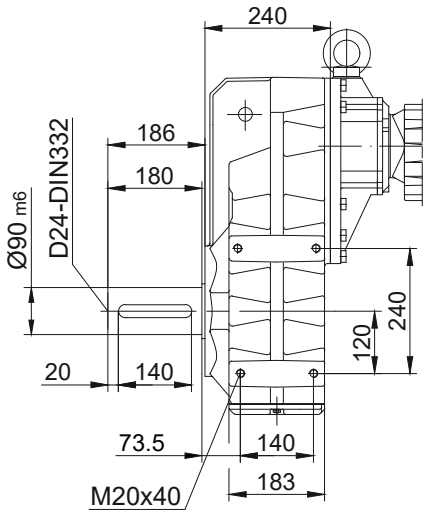


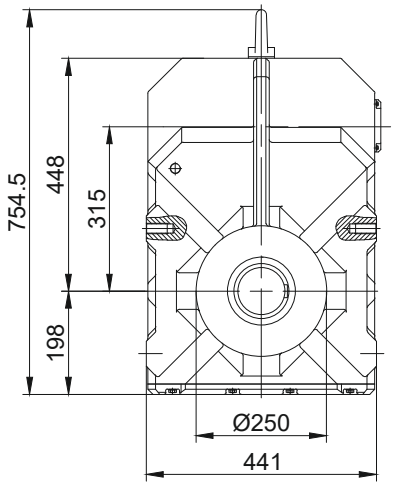




Flange Dimensions									
Type	Design	k	l	m	n	o	q	s	t
BF70..	Code -3./	400	350	300	20	4 x 17.5	271	5	155
BF70..	Code -2./	350	300	250	20	4 x 17.5	271	5	155
BF70..	Code -4./	450	400	350	22	8 x 17.5	281	5	145
Dimensions in millimetres (mm)									

Foot with tapped holes left and right
Code -6.LR/





The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

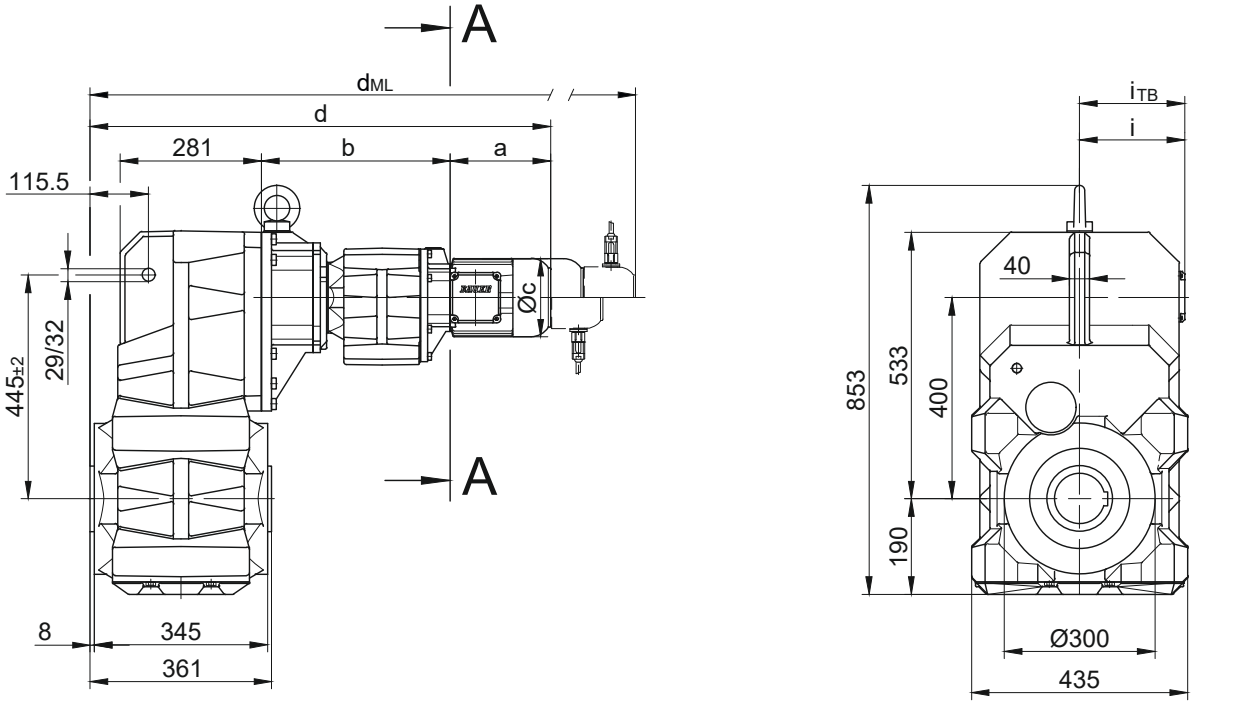
BF-series shaft-mounted geared motors

Dimension - Tandem Gearbox

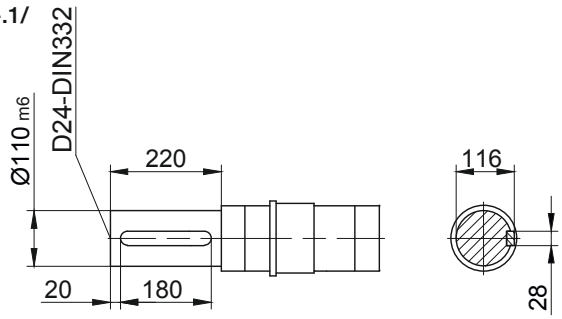
BF80G40

with torque arm

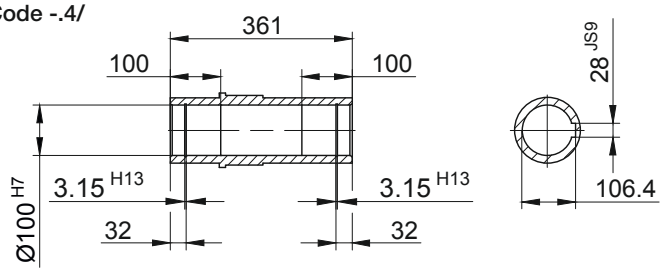
Code -0./



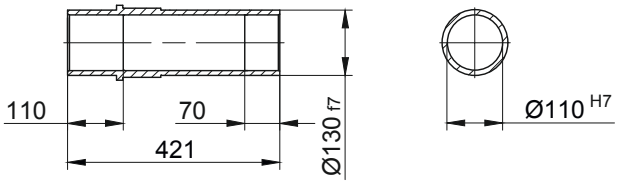
Code -.1/

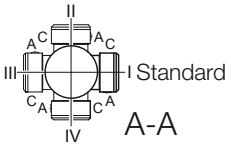


Code -.4/



Code -.5/



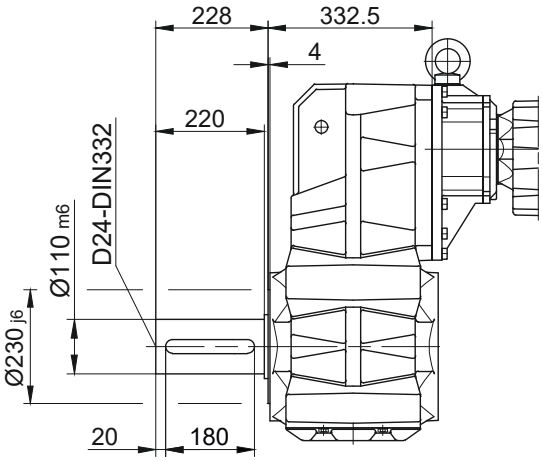


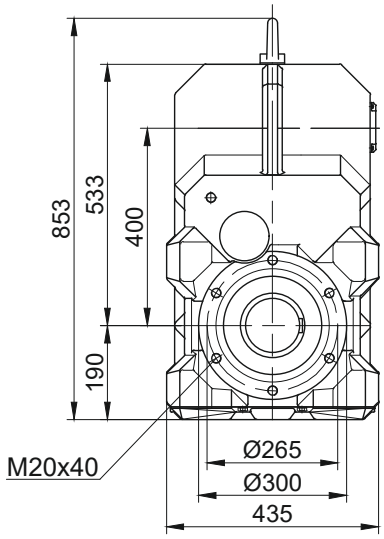
Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BF80G40-../S..08 (M, L)	199.5	376	156	916	114.5	136.5	982	1028	1089.5	-
BF80G40-../S..09 (S, X)	250.5	390.5	176	981.5	124	157	1074.5	1089	1178.5	-
BF80G40-../S..11 (S, M, L)	319	397	218	1056.5	165	176	1154.5	1164	1256.5	-
Dimensions in millimetres (mm)										

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

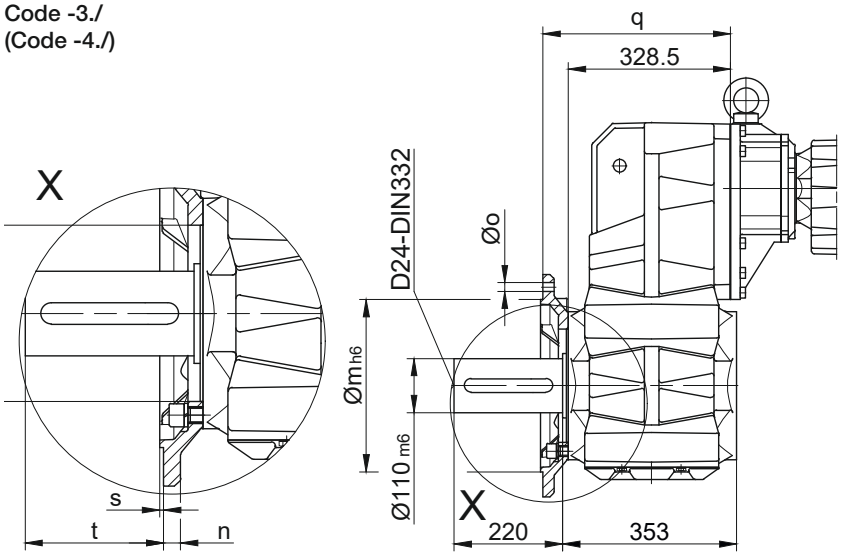
BF80G40

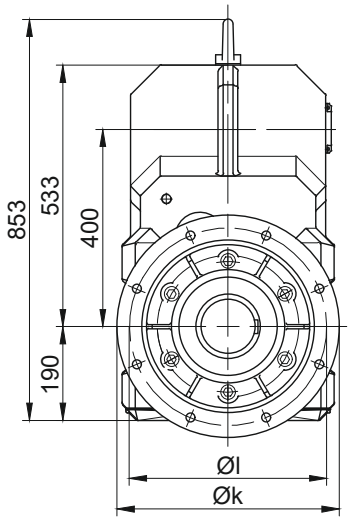
Flange with tapped holes
Code -7./





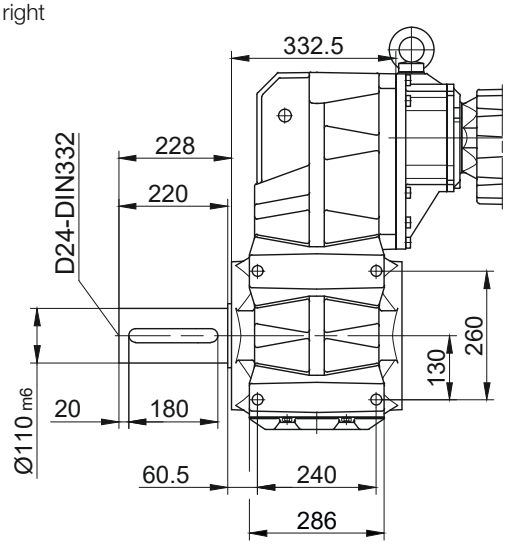
Flange with clearance holes
Code -3./
(Code -4./)

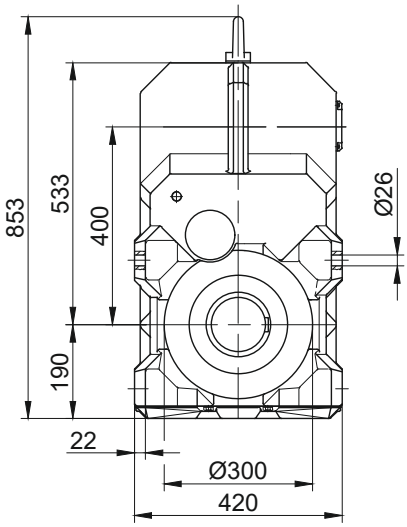




Flange Dimensions									
Type	Design	k	l	m	n	o	q	s	t
BF80..	Code -3./	450	400	350	22	17.5	383.5	5	177
BF80..	Code -4./	550	500	450	22	17.5	388.5	5	172
Dimensions in millimetres (mm)									

Foot with clearance holes left and right
Code -1.LR/



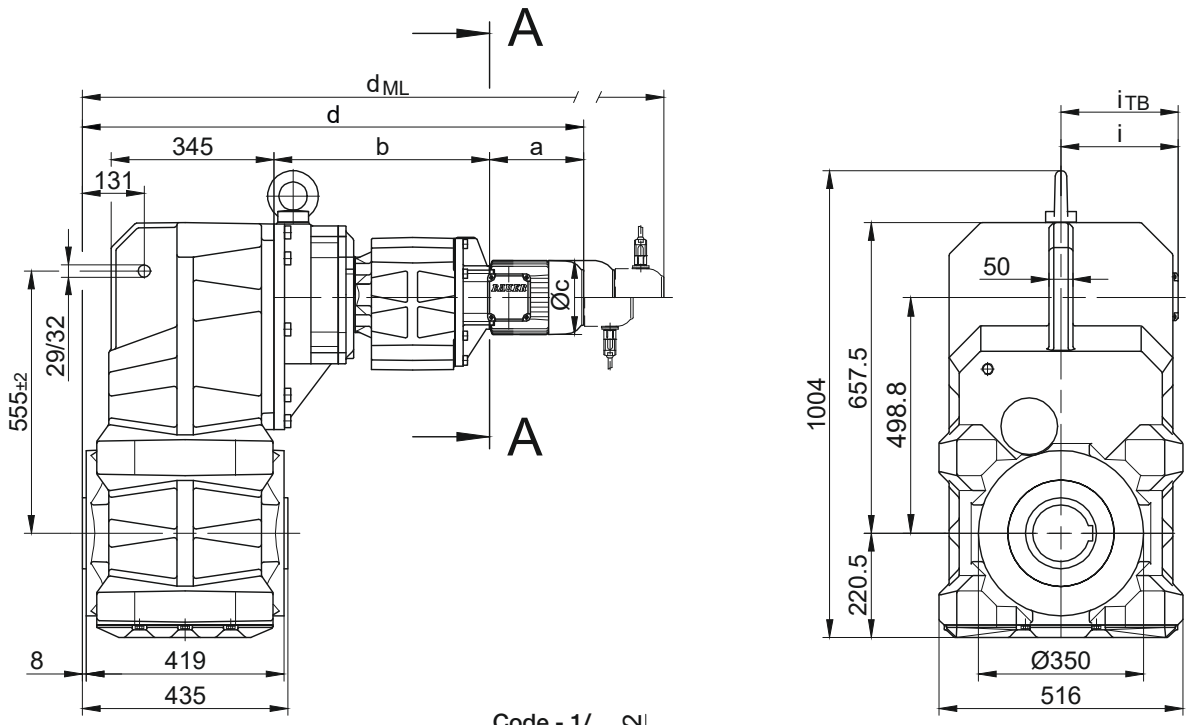


The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

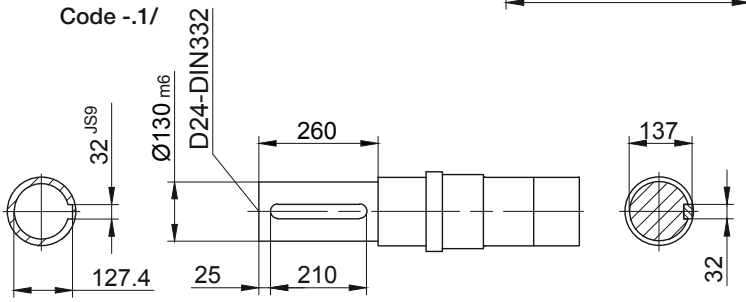
BF-series shaft-mounted geared motors

Dimension - Tandem Gearbox

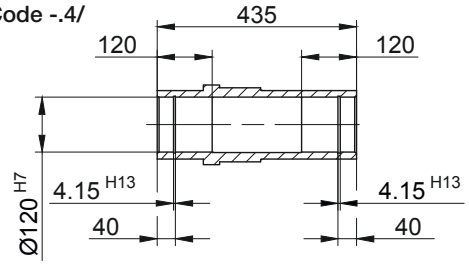
BF90G50
with torque arm
Code -0./



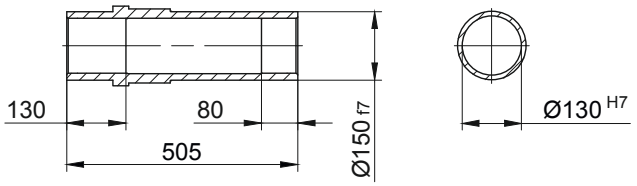
Code -.1/

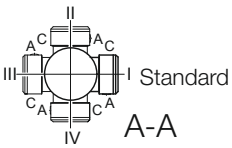


Code -.4/



Code -.5/



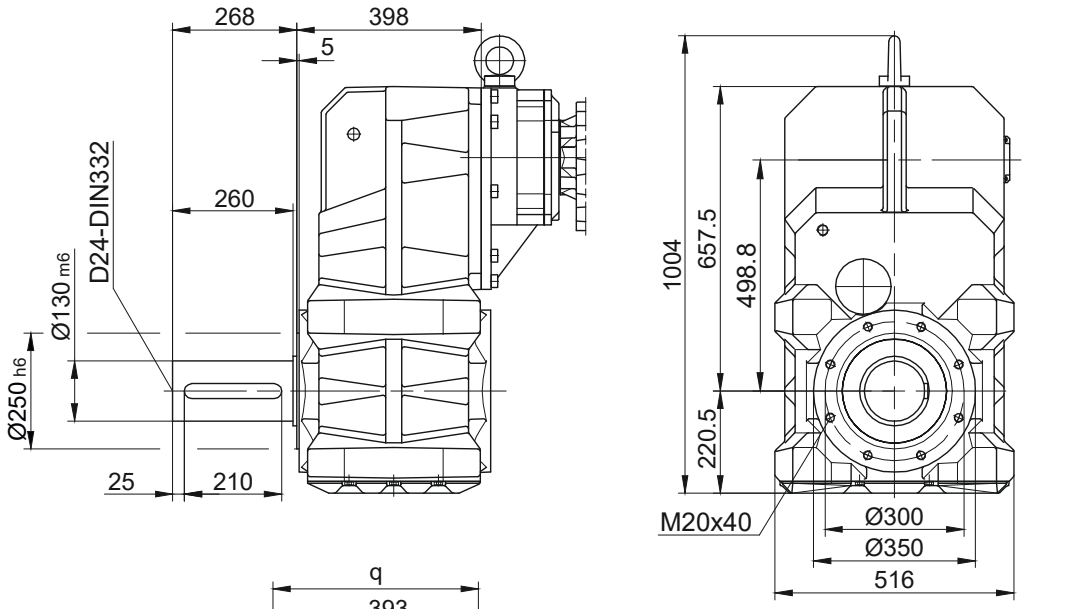


Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BF90G50-../S..08 (M, L)	199.5	456	156	1061.5	114.5	136.5	1127.5	1173.5	1235	-
BF90G50-../S..09 (S, X)	250.5	470.5	176	1127	124	157	1220	1234.5	1324	-
BF90G50-../S..11 (S, M, L)	319	477	218	1202	165	176	1300	1309.5	1402	-
Dimensions in millimetres (mm)										

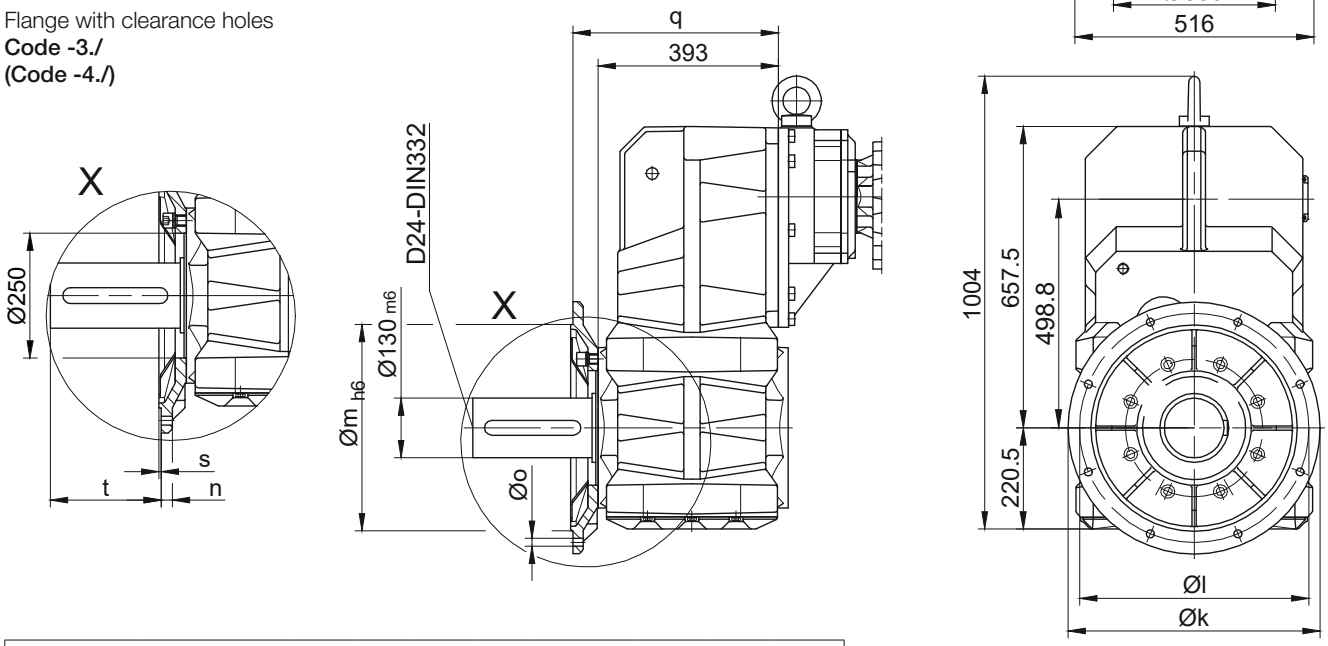
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BF90G50

Flange with tapped holes
Code -7./

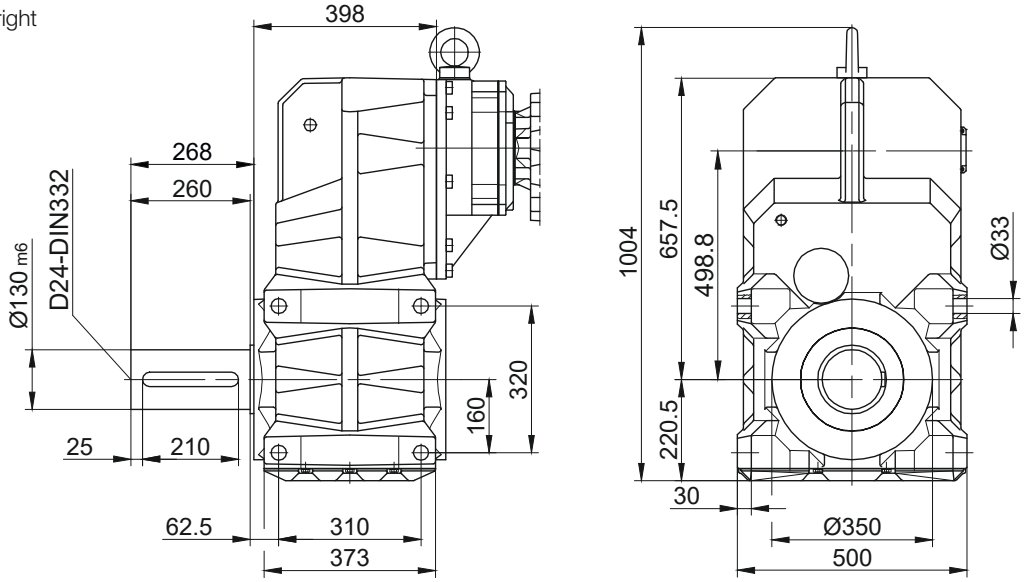


Flange with clearance holes
Code -3./
(Code -4./)



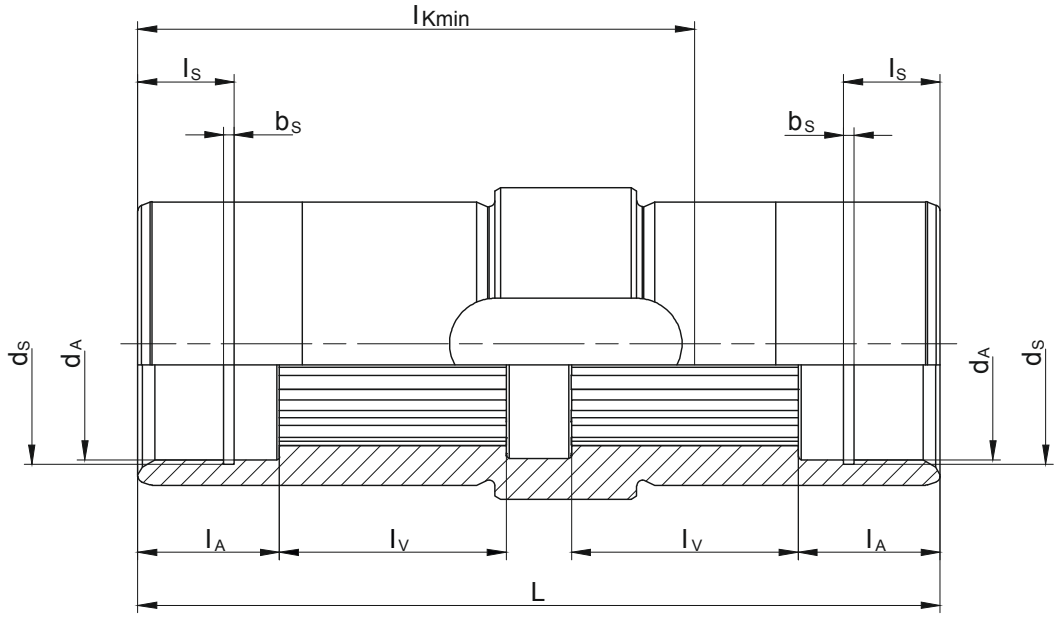
Flange Dimensions									
Type	Design	k	l	m	n	o	q	s	t
BF90..	Code -3./	550	500	450	22	17.5	448	5	218
BF90..	Code -4./	660	600	550	25	22	442	6	224
Dimensions in millimetres (mm)									

Foot with clearance holes left and right
Code -1.LR/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Splined shaft

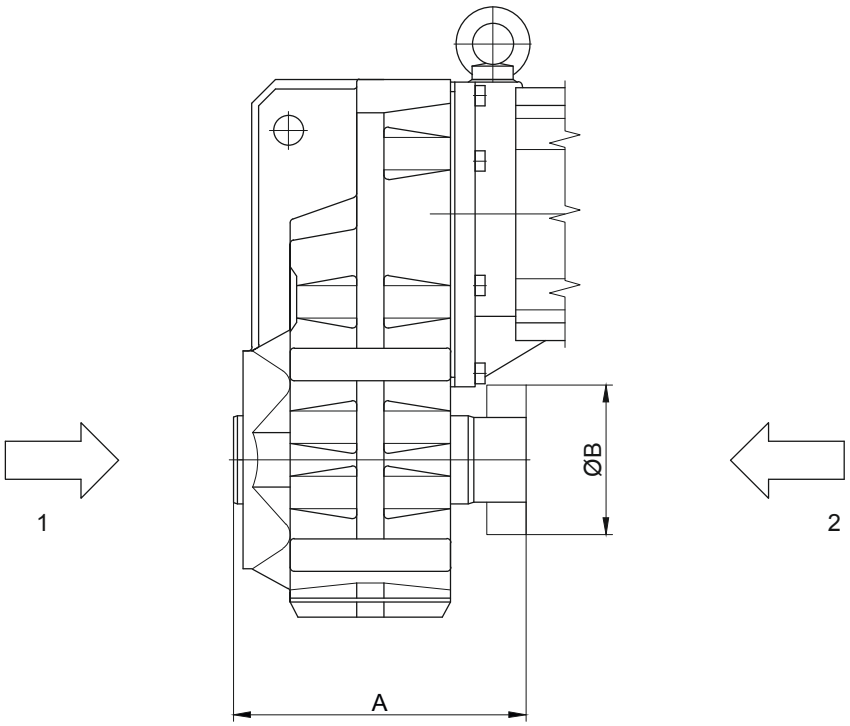


Type	Splined shaft acc. to DIN 5480	d_A	l_A	l_V	l_{Kmin}	L	d_S	l_S	b_S
BF06	N25x1.25x18x9H	30^{G7}	22	20	68	92	31.4^{H12}	15	1.3^{H13}
BF10	N30x1.25x22x9H	30.5^{G7}	22	33.5	87	124.5	31.4^{H12}	15	1.3^{H13}
BF20	N35x2x16x9H	36^{G7}	22	35	92	130	37^{H12}	9.5	1.6^{H13}
BF30	N40x2x18x9H	41^{G7}	25	40	103	141.5	42.5^{H12}	15	1.85^{H13}
BF40	N50x2x24x9H	51^{G7}	25	48	120	166	53^{H12}	9.5	2.15^{H13}
BF50	N60x2x28x9H	61^{G7}	25	55	123	176	63^{H12}	17	2.15^{H13}
BF60	N70x2x34x9H	72^{G7}	25	70	147	202	75^{H12}	17	2.65^{H13}
BF70	N85x3x27x9H	86^{G7}	26	85	185	241	88.5^{H12}	17	3.15^{H13}
BF80	N110x3x35x9H	112^{G7}	50	90	292	361	116^{H12}	30	4.15^{H13}
BF90	N130x5x24x9H	131.5^{G7}	60	110	365	435	134^{H12}	30	4.15^{H13}
Dimensions in millimetres (mm)									

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Shrink disc coupling (SSV)

(Code BF10-.5/...)
(Code BF10Z-.5/...)



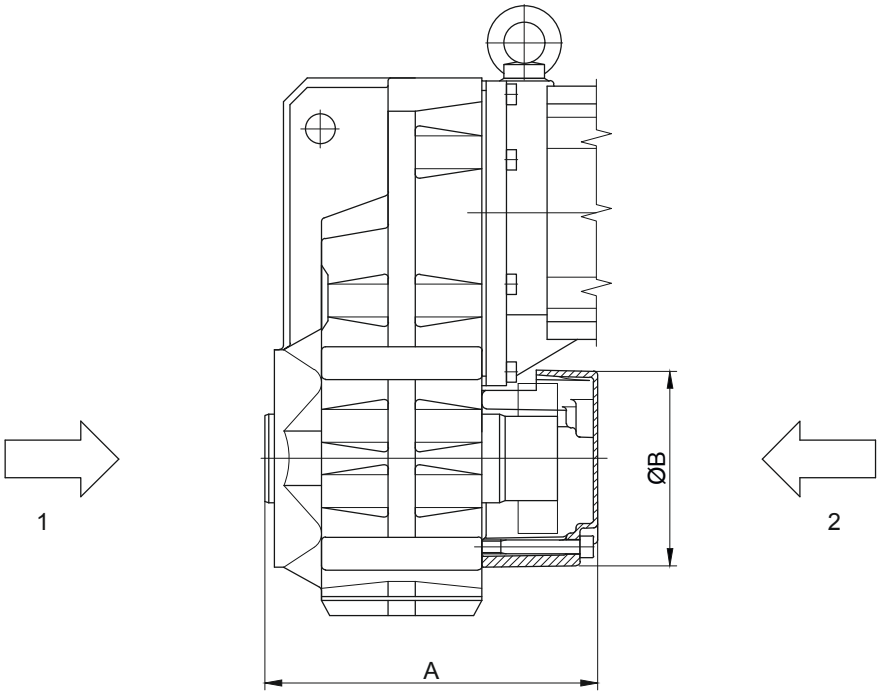
1 Gear side FRONT (V)
2 Gear side REAR (H)

Type	SSV Ringfeder	SSV STÜWE	A	B
BF10	RfN 4161 036x072	HDS 36-22x36	153	72
BF20	RfN 4161 044x080	HDS 44-22x44	173	80
BF30	RfN 4161 050x090	HDS 50-22x50	192	90
BF40	RfN 4161 062x110	HDS 62-22x62	215	110
BF50	RfN 4161 068x115	HDS 68-22x68	211	115
BF60	RfN 4161 080x141	HDS 80-22x80	257	140
BF70	RfN 4161 105x185	HDS 110-22x105	320	185
BF80	RfN 4161 130x215	HDS 125-22x130	421	215
BF90	RfN 4161 150x263	HDS 155-22x150	505	263
Dimensions in millimetres (mm)				

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Shrink disc coupling with (SSV) cover

(Code BF10-.5A/...)
(Code BF10Z-.5A/...)



1 Gear side FRONT (V)
2 Gear side REAR (H)

Type	SSV Ringfeder	SSV STÜWE	A	B
BF10	RfN 4161 036x072	HDS 36-22x36	174	120
BF20	RfN 4161 044x080	HDS 44-22x44	211	140
BF30	RfN 4161 050x090	HDS 50-22x50	223	140
BF40	RfN 4161 062x110	HDS 62-22x62	245	160
BF50	RfN 4161 068x115	HDS 68-22x68	227	200
BF60	RfN 4161 080x141	HDS 80-22x80	290	210
BF70	RfN 4161 105x185	HDS 110-22x105	359	250
BF80	RfN 4161 130x215	HDS 125-22x130	463	300
BF90	RfN 4161 150x263	HDS 155-22x150	557	350
Dimensions in millimetres (mm)				

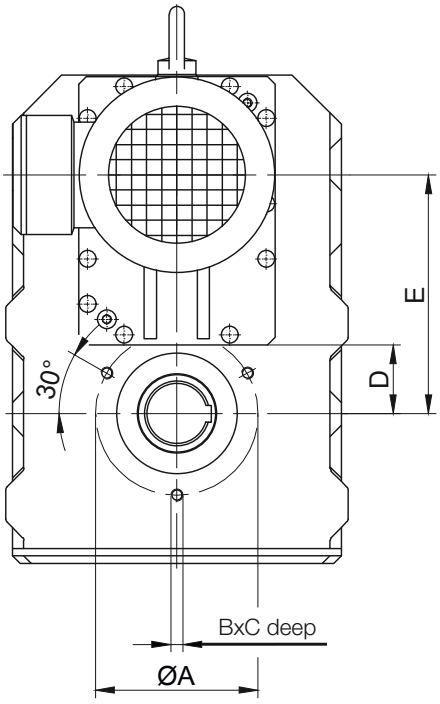
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BF-series shaft-mounted geared motors

Additional Dimension Sheet

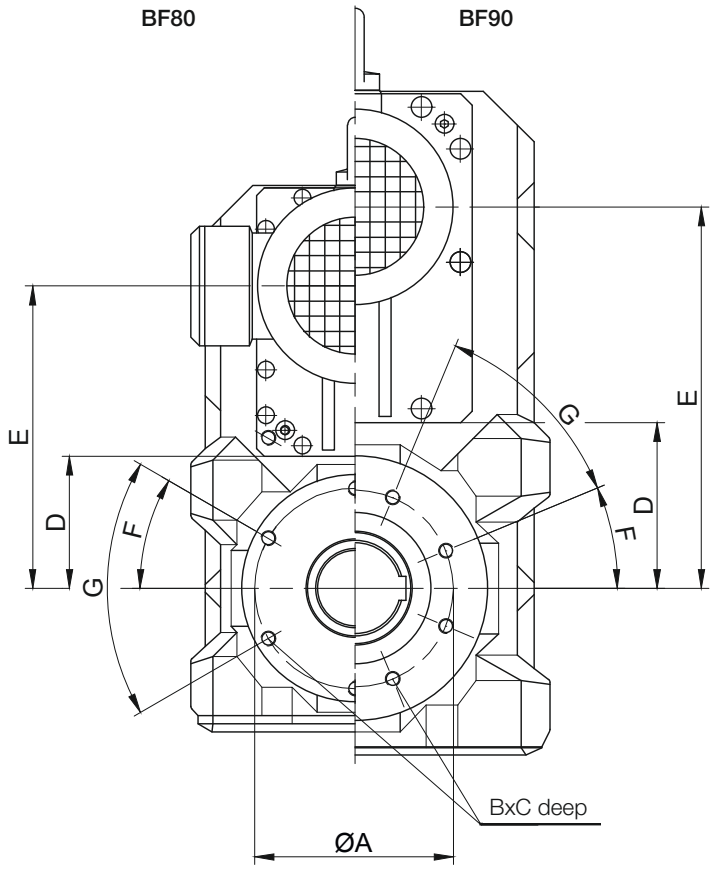
Tapped Holes Side (H) → shaft cover

BF10 to BF70



BF80

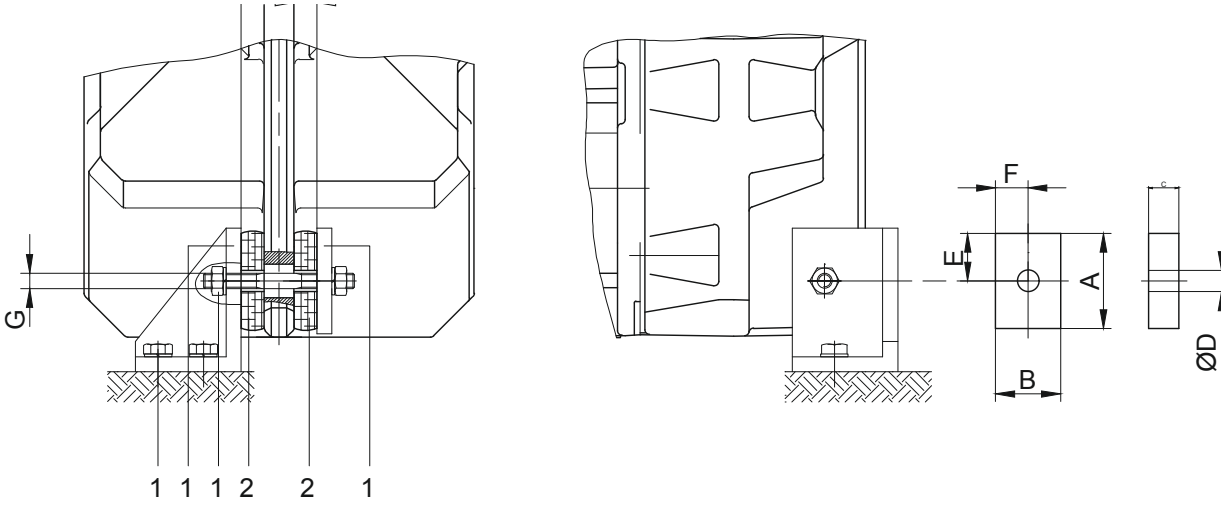
BF90



Gear	A	B	C	D	E	F	G
BF10	100	M8	16	35	118	-	-
BF20	115	M10	20	39	136	-	-
BF30	115	M10	20	44	157	-	-
BF40	130	M10	20	52	180.5	-	-
BF50	165	M12	24	60	207	-	-
BF60	180	M12	24	69	255.5	-	-
BF70	215	M16	32	89	316	-	-
BF80	265	M20	40	173	400	30°	6x60°
BF90	300	M20	40	219	504.5	22.5°	8x45°
Dimensions in millimetres (mm)							

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Rubber buffer for torque restraint



1 not included in delivery

2 Rubber buffers pretensioned

G Maximum screw diameter

Material: Natural rubber Hardness 50 +/-5 Shore A
Dimensions of the transverse hole: See dimensioned sketch of the respective shaft mounted gearbox

Gear	Position	A	B	C	D	E	F	G	H	L
BF06	Position 0	30	30	12	12	15	15	M10	10	10
BF10	Position 1	48	32	15	14	24	16	M10	16	13.5
BF20	Position 1	48	32	15	14	24	16	M10	18	13
BF30	Position 2	63	43	20	14	31.5	21.5	M10	18	17
BF40	Position 2	63	43	20	14	31.5	21.5	M10	20	16.5
BF50	Position 3	88	60	25	22	44	30	M18	24	21.5
BF60	Position 3	88	60	25	22	44	30	M18	28	21
BF70	Position 4	123	88	30	26	61.5	44	M20	30	25.5
BF80	Position 5	133	103	35	26	66.5	51.5	M20	40	30
BF90	Position 5	133	103	35	26	66.5	51.5	M20	50	29.5
Dimensions in millimetres (mm)										

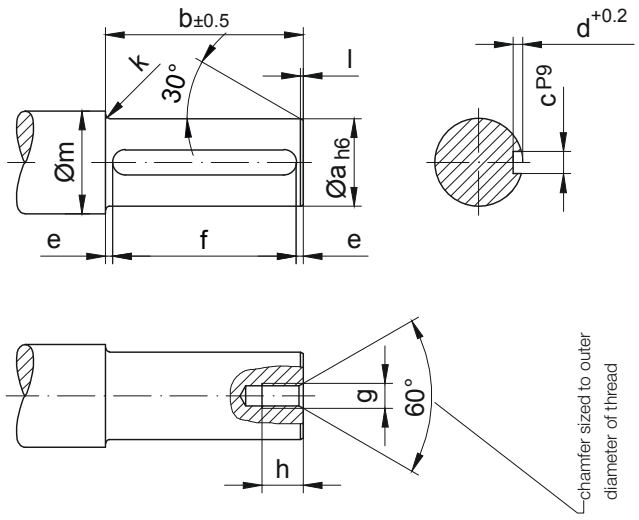
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BF-series shaft-mounted geared motors

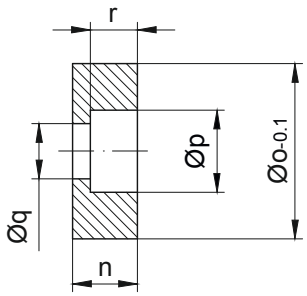
Additional Dimension Sheet

Assembly tools for hollow shaft and keyway

Position 1 Shaft

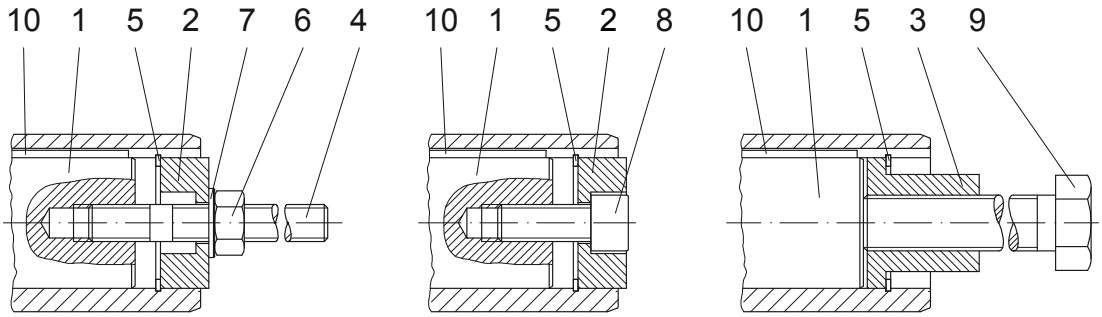


* Position 2 Disc



Material: Steel, tensile strength ≥ 470 N/mm²

Type	Dimensions (mm)															
	Postion 1 Shaft											Postion 2 Disc				
	a	b	c	d	e	f	g	h	k	l	m	n	o	p	q	r
BF06	25	70	8	4	3.5	$63^{+0.5}$	M8	18	2	1.5	33	13.5	24.8	15	9	8.5
BF10	25	102	8	4	6	$90^{+0.5}$	M8	18	2.5	1.5	33	13.5	24.8	15	9	8.5
BF20	30	108	8	4	9	$90^{+0.5}$	M10	20	3	1.5	38	15	29.8	18	11	10
BF30	35	118	10	5	9	$100^{+0.5}$	M10	20	3	1.5	43	16	34.8	18	11	10
BF40	40	141	12	5	8	$125^{+0.5}$	M12	22	3	2	48	18	39.8	20	13.5	12
BF50	50	148	14	5.5	11.5	$125^{+0.5}$	M16	30	3.5	2	58	21	49.8	26	17.5	15
BF60	60	173	18	7	6.5	$160^{+0.5}$	M20	38	3.5	2	68	24	59.8	33	22	18
BF70	80	205	22	9	12.5	$180^{+0.5}$	M20	38	4	2	90	27	79.8	33	22	20
BF70-K70	70	205	20	7.5	12.5	$180^{+0.5}$	M20	38	4	2	90	27	69.8	33	22	20
BF80	100	317	28	10	18.5	$280^{+0.5}$	M24	45	4	3	110	32	99.8	40	26	25
BF90	120	383	32	11	11.5	$360^{+0.5}$	M24	45	4.5	3	130	35	119.8	40	26	28



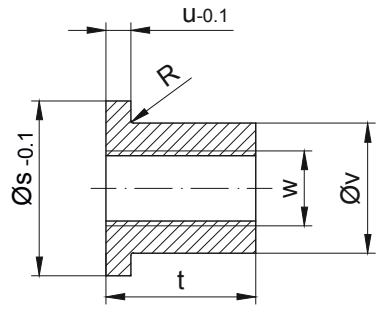
Installation Holding Dismantlement

The parts shown are neccessary for assembly. ONLY * specified parts are enclosed in the assembly kit.
Suitable measures are to be used to secure Bolt Pos. 8 against loosening!

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

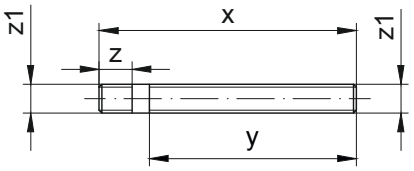
Assembly tools for hollow shaft and keyway

Position 3 Sleeve



Material: Steel, tensile strength ≥ 470 N/mm²

* Position 4 Stud bolt



Material: Steel, tensile strength ≥ 1000 N/mm² Thread rolled

Type	Dimensions (mm)										* Retaining ring DIN 472	Hexagon nut DIN 394-8	Disc DIN 125-St	* Filister head screw DIN 912-8.8	Tightening torques (Nm)	Hexagon bolt DIN EN 24017-8.8	Key DIN 6885 Width/Height/Length
	Position 3 Sleeve						Position 4 Stud bolt										
	s	t	u	v	w	R	x	y	z	z1	Pos.5	Pos.6	Pos.7	Pos.8		Pos.9	Pos.10
BF06	24.8	24	5	15.4	M12	0.8	160	130	20	M8	25x1.2	M8	8.4	M8x30	5	M12x110	A 8x7x63
BF10	24.8	24	5	15.4	M12	0.8	160	130	20	M8	25x1.2	M8	8.4	M8x30		M12x140	A 8x7x90
BF20	29.8	28	5	19.8	M14	0.8	170	135	23	M10	30x1.2	M10	10.5	M10x30	8	M14x150	A 8x7x90
BF30	34.8	28	5	23	M14	-	180	145	23	M10	35x1.5	M10	10.5	M10x35		M14x160	A 10x8x100
BF40	39.8	40	6	27.7	M20	0.8	210	170	28	M12	40x1.75	M12	13	M12x35	16	M20x200	A 12x8x125
BF50	49.8	48	6	36	M24	-	230	175	37	M16	50x2.0	M16	17	M16x40	30	M24x210	A 14x9x125
BF60	59.8	60	6	44	M30	-	270	205	45	M20	60x2.0	M20	21	M20x50	42	M30x250	A 18x11x160
BF70	79.8	60	8	55	M30	-	310	240	45	M20	80x2.5	M20	21	M20x50		M30x280	A 22x14x180
BF70-K70	69.8	60	8	53	M30	-	310	240	45	M20	70x2.5	M20	21	M20x50		M30x280	A 20x12x180
BF80	99.8	72	10	75	M36	-	440	360	55	M24	100x3.0	M24	25	M24x60	100	M36x410	A 28x16x280
BF90	119.8	72	10	80	M36	-	510	430	55	M24	120x4.0	M24	25	M24x60		M36x480	A 32x18x360

The parts shown are neccessary for assembly. ONLY * specified parts are enclosed in the assembly kit.
Suitable measures are to be used to secure Bolt Pos. 8 against loosening!

Optional

Type	Assembly tool „Holding“
BF06	Id.Nr. 4103921
BF10	Id.Nr. 4103921
BF20	Id.Nr. 4103939
BF30	Id.Nr. 4103947
BF40	Id.Nr. 4103955
BF50	Id.Nr. 4103963
BF60	Id.Nr. 4103971
BF70	Id.Nr. 4103980
BF70-K70	Id.Nr. 4104765
BF80	Id.Nr. 4103998
BF90	Id.Nr. 4104005

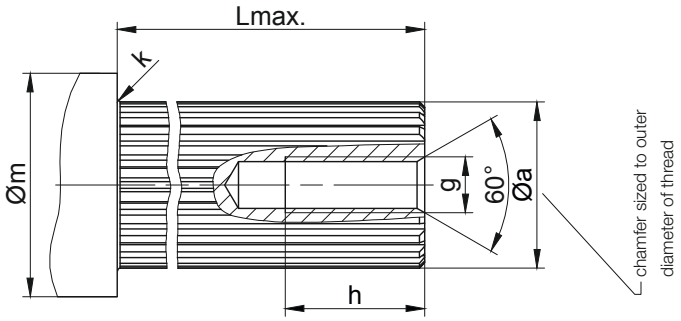
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BF-series shaft-mounted geared motors

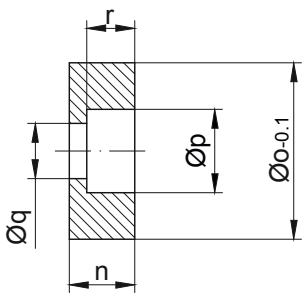
Additional Dimension Sheet

Assembly tools for shaft mounted gears with splined shaft

Position 1 Shaft

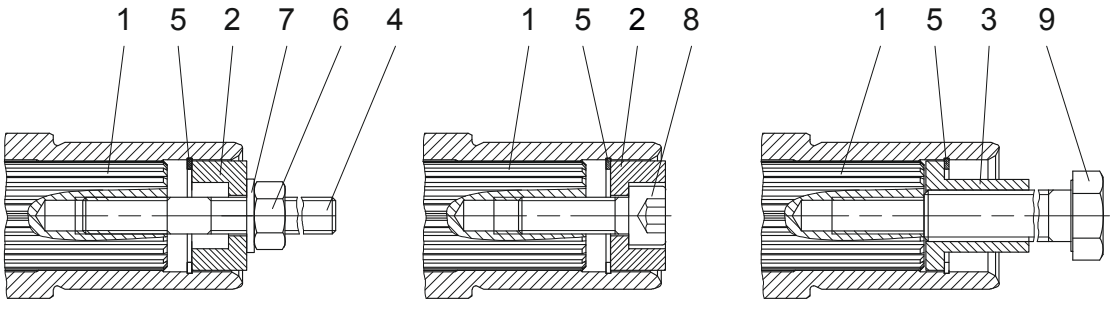


* Position 2 Disc



Material: Steel, tensile strength ≥ 470 N/mm²

Type	Dimensions (mm)										
	Postion 1 Shaft						Postion 2 Disc				
	a	g	h	g	Lmax.	m	n	o	p	q	r
BF06	DIN 5480-W25x1.25x18x8f	M8	20	2	70	37	13	29.9	15	9	8
BF10	DIN 5480-W30x1.25x22x8f	M10	25	2.5	100	38	15	30.4	18	11	10
BF20	DIN 5480-W35x2x16x8f	M10	25	3	110	43	14	35.9	18	11	10
BF30	DIN 5480-W40x2x18x8f	M12	30	3	117	48	18	40.9	20	13.5	12
BF40	DIN 5480-W50x2x24x8f	M16	35	3	145	60	17.5	50.9	26	17.5	12.5
BF50	DIN 5480-W60x2x28x8f	M20	40	3.5	150	69	24	60.9	33	22	18
BF60	DIN 5480-W70x2x34x8f	M20	40	3.5	175	80	24	71.9	33	22	18
BF70	DIN 5480-W85x3x27x8f	M20	40	4	215	96	22	85.9	33	22	16
BF80	DIN 5480-W110x3x35x8f	M24	50	4	315	122	32	111.9	40	26	25
BF90	DIN 5480-W130x5x24x8f	M24	50	4.5	390	141	25	131.4	40	26	18



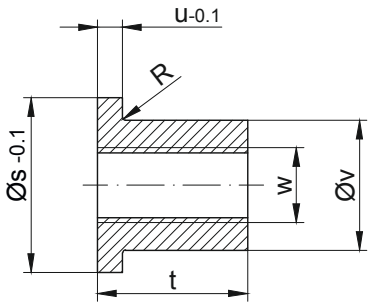
Installation Holding Dismantlement

The parts shown are neccessary for assembly. ONLY * specified parts are enclosed in the assembly kit.
Suitable measures are to be used to secure Bolt Pos. 8 against loosening!

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

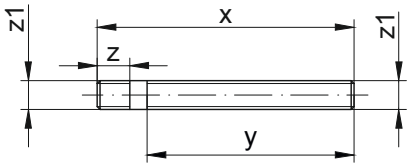
Assembly tools for shaft mounted gears with splined shaft

Position 3 Sleeve



Material: Steel, tensile strength ≥ 470 N/mm²

* Position 4 Stud bolt



Material: Steel, tensile strength ≥ 1000 N/mm² Thread rolled

Type	Dimensions (mm)										* Retaining ring DIN 472	Hexagon nut DIN 394-8	Disc DIN 125-St	* Filister head screw DIN 912-8.8	Starting torque (Nm)	Hexagon bolt DIN EN 24017-8.8
	Position 3 Sleeve						Position 4 Stud bolt									
	s	t	u	v	w	R	x	y	z	z1	Pos.5	Pos.6	Pos.7	Pos.8		Pos.9
BF06	29.9	24	5	15.4	M12	0.8	160	130	20	M8	30x1.2	M8	8.4	M8x30	5	M12x110
BF10	30.4	28	5	19.8	M14	-	170	135	23	M10	30x1.2	M10	10.5	M10x30	8	M14x150
BF20	35.9	28	5	23	M14	-	180	145	23	M10	35x1.5	M10	10.5	M10x35		M14x160
BF30	40.9	40	6	27.7	M20	-	210	170	28	M12	40x1.75	M12	13	M12x35	16	M20x200
BF40	50.9	48	6	36	M24	0.8	230	175	37	M16	50x2.0	M16	17	M16x40	30	M24x210
BF50	60.9	60	6	44	M30	-	270	205	45	M20	60x2.0	M20	21	M20x50	42	M30x250
BF60	71.9	60	6	53	M30	0.8	310	240	45	M20	72x2.5	M20	21	M20x50		M20x280
BF70	85.9	60	8	65	M30	0.8	310	240	45	M20	85x3	M20	21	M20x50		M30x280
BF80	111.9	72	10	85	M36	0.8	440	360	55	M24	112x4	M24	25	M24x60	100	M36x410
BF90	131.4	72	10	95	M36	0.8	510	430	55	M24	130x4	M24	25	M24x60		M36x480

The parts shown are neccessary for assembly. ONLY * specified parts are enclosed in the assembly kit.
Suitable measures are to be used to secure Bolt Pos. 8 against loosening!

Optional

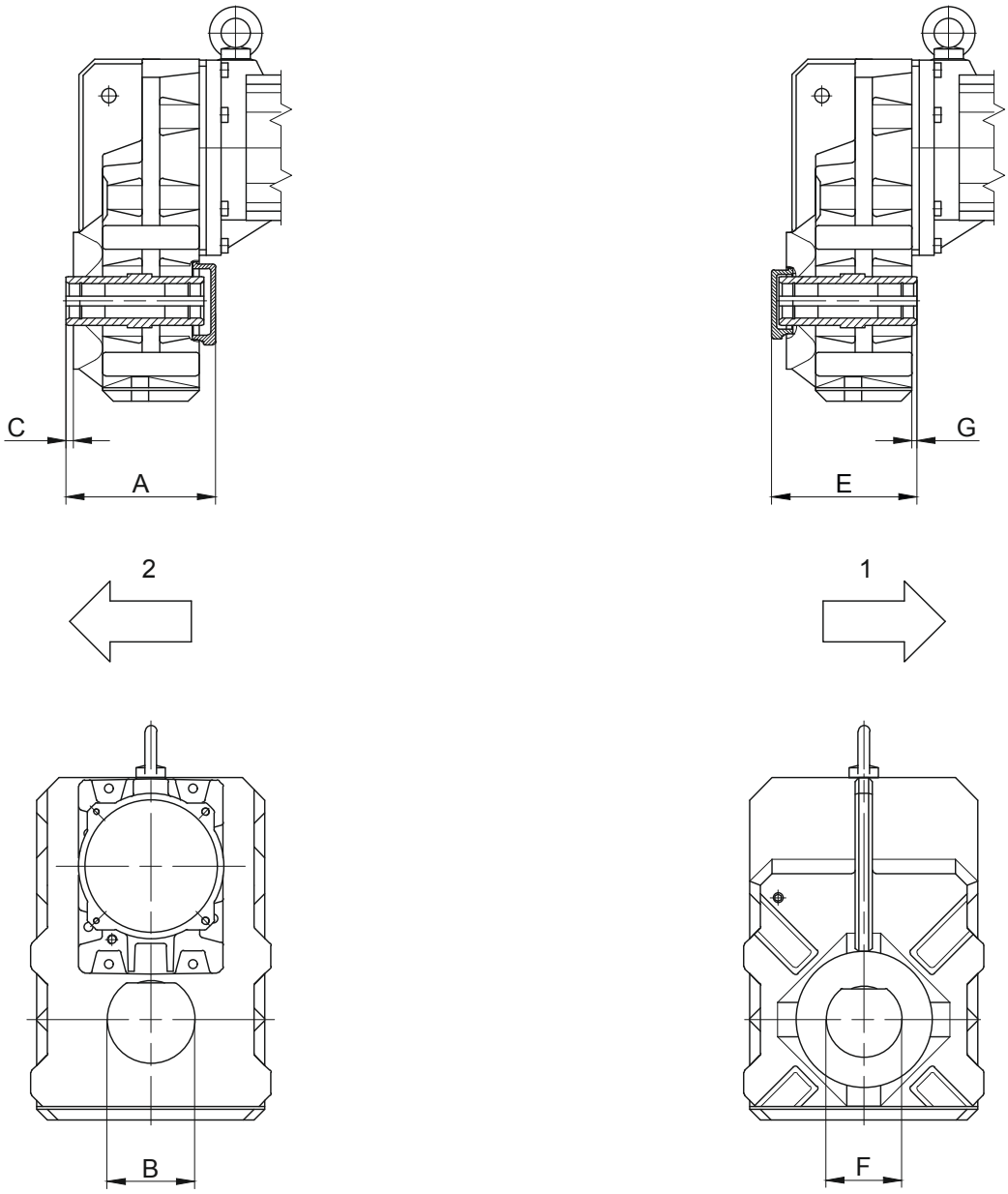
Type	Assembly tool „Holding“
BF06	Id.Nr. 4105125
BF10	Id.Nr. 4105133
BF20	Id.Nr. 4105141
BF30	Id.Nr. 4105150
BF40	Id.Nr. 4105168
BF50	Id.Nr. 4105176
BF60	Id.Nr. 4105184
BF70	Id.Nr. 4105192
BF80	Id.Nr. 4105206
BF90	Id.Nr. 4105214

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BF-series shaft-mounted geared motors

Additional Dimension Sheet

Shaft cap (VK)



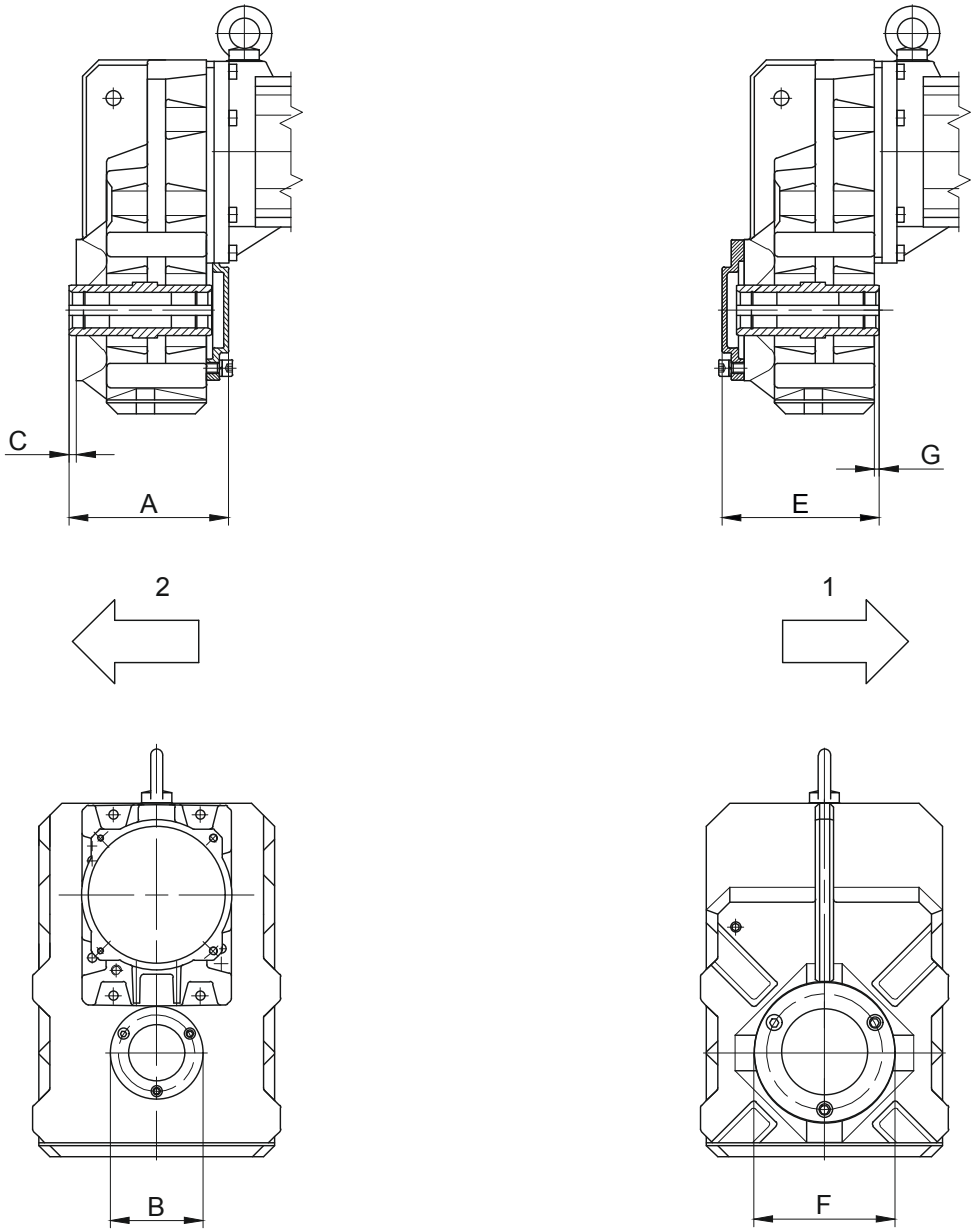
1 Gear side FRONT (V)
2 Gear side REAR (H)

Shaft cap REAR (H)			
Type	A	B	C
BF10	134	78	5
BF20	142	85	5
BF30	153.5	90	7.5
BF40	179.5	110	7
BF50	192	125	6
BF60	222	140	7
BF70	258	170	6
Dimensions in millimetres (mm)			

Shaft cap FRONT (V)			
Type	E	F	G
BF30	149	78	7.5
BF50	189.5	110	6
BF70	262	130	6
Dimensions in millimetres (mm)			

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Shaft cover (VD)

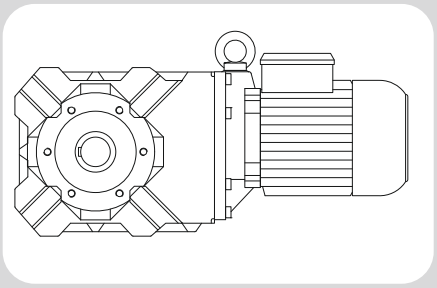


1 Gear side FRONT (V)
2 Gear side REAR (H)

Shaft cover REAR (H)			
Type	A	B	C
BF70	376	300	8
BF90	442	350	8
Dimensions in millimetres (mm)			

Shaft cover FRONT (V)			
Type	E	F	G
BF10	135.5	120	5
BF20	144	139.5	5
BF30	153	139.5	7.5
BF40	179.5	160	7
BF50	191.5	199	6
BF60	221.5	210	7
BF70	258	250	6
BF80	376	300	8
BF90	442	350	8
Dimensions in millimetres (mm)			

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.



12

BK-series bevel-geared motors - Dimensions

Dimension - Standard **398**
BK06 398
BK08 400
BK10-BK10Z 402
BK17 404
BK20-BK20Z 406
BK30-BK30Z 408
BK40-BK40Z 410
BK50-BK50Z 412
BK60-BK60Z 414
BK70-BK70Z 416
BK80-BK80Z 418
BK90-BK90Z 420
Dimension - Tandem Gearbox **422**
BK10G06 422
BK20G06 424
BK30G06 426
BK40G10 428
BK50G10 430
BK60G20 432
BK70G20 434
BK80G40 436
BK90G50 438
Additional Dimension Sheet **441**
Splined shaft 441
Shrink disc couplings (SSV) 442
Shrink disc connection with cover (SSV) 443
Rubber buffer for torque arm 444
Position of the torque arm 445
Foot with tapped holes 446
Foot plate with clearance holes 447
Assembly tools for hollow shaft and keyway 448
Assembly tools for splined shaft 450
Shaft cap (VK) 452
Shaft cover (VD) 453

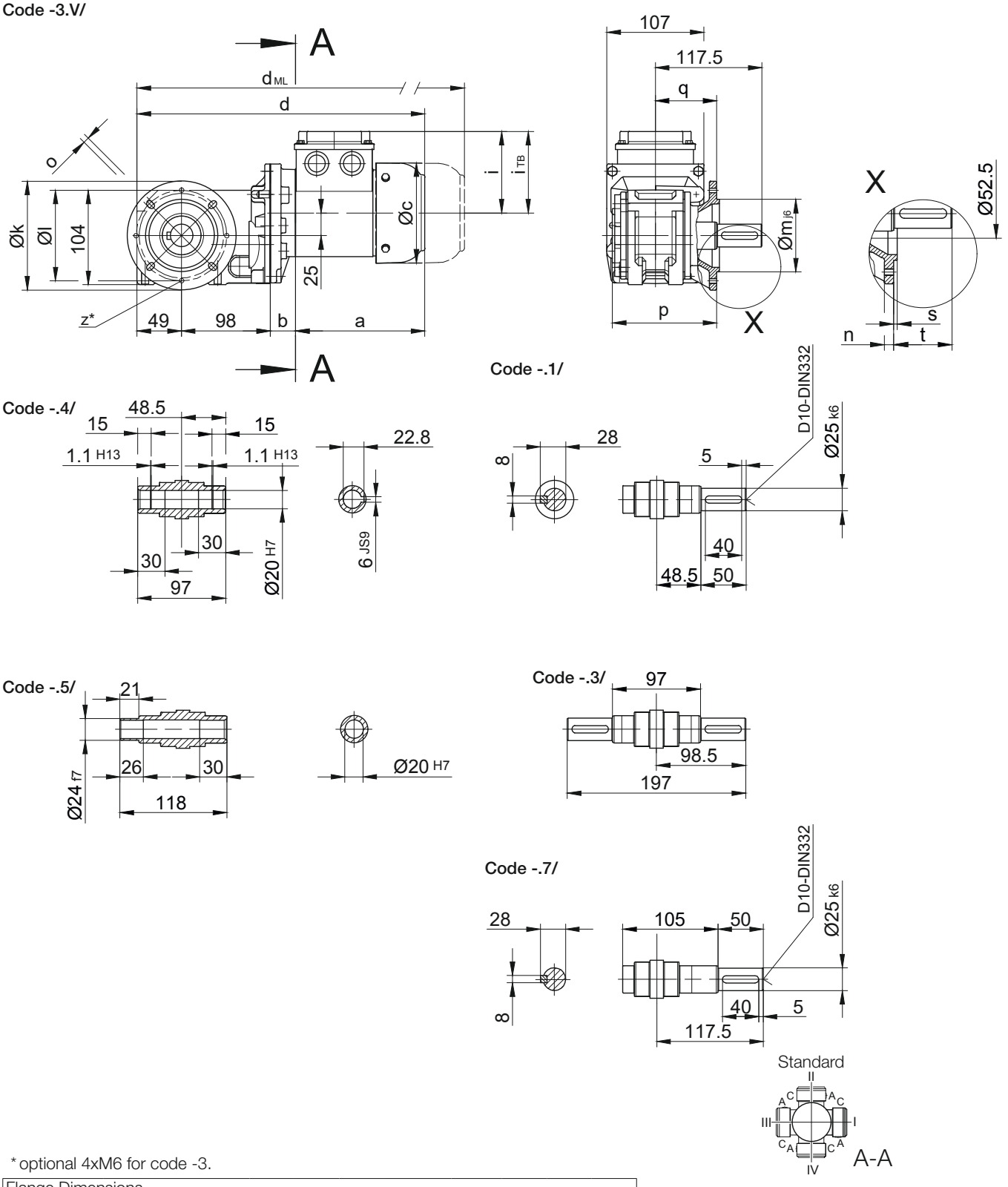
BK-series bevel-geared motors

Dimension - Standard

BK06

Flange with clearance holes at front

Code -3.V/



* optional 4xM6 for code -3.

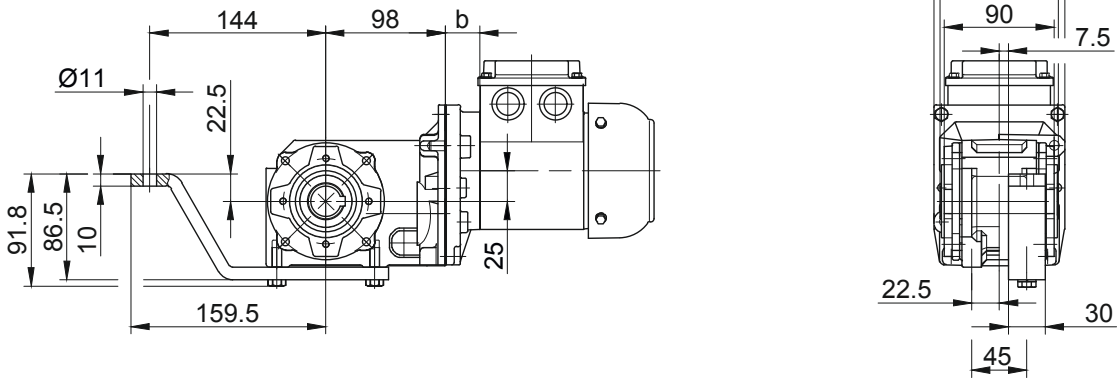
Flange Dimensions										
Type	Design	k	l	m	n	o	p	q	s	t
BK06	Code -3.V/	120	100	80	8	6.6	115	67.5	3	50
Dimensions in millimetres (mm)										

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BK06-../S04S	142.5	28	110.5	317.5	90	112	361	405	448.5	-
BK06-../S..06 (M, L)	170.5	30	123	347.5	99	119	389.5	450	487.5	-
BK06-../S..08 (M, L)	199.5	74	156	420.5	114.5	136.5	486.5	532.5	594	-
Dimensions in millimetres (mm										

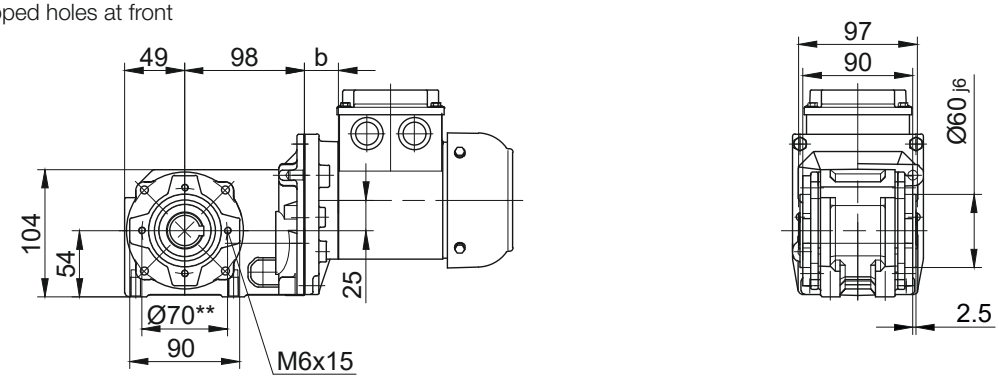
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK06

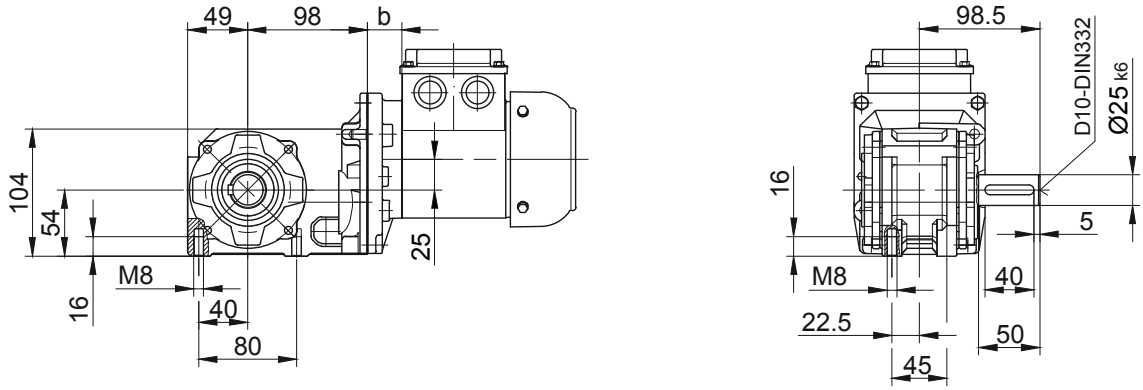
Torque arm at front
Code -5.V/



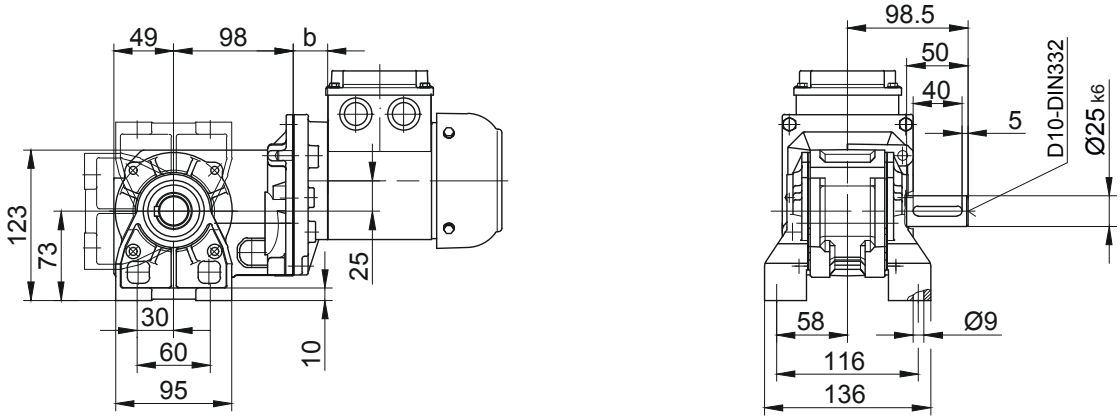
Flange with tapped holes at front
Code -7.V/



Foot with tapped holes at bottom
Code -6.U/



Foot with clearance holes at bottom
Code -1.U/



** not for D..08.. with PTO shaft (code -.1, -.2, -3., -.7, -.8, -.9)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

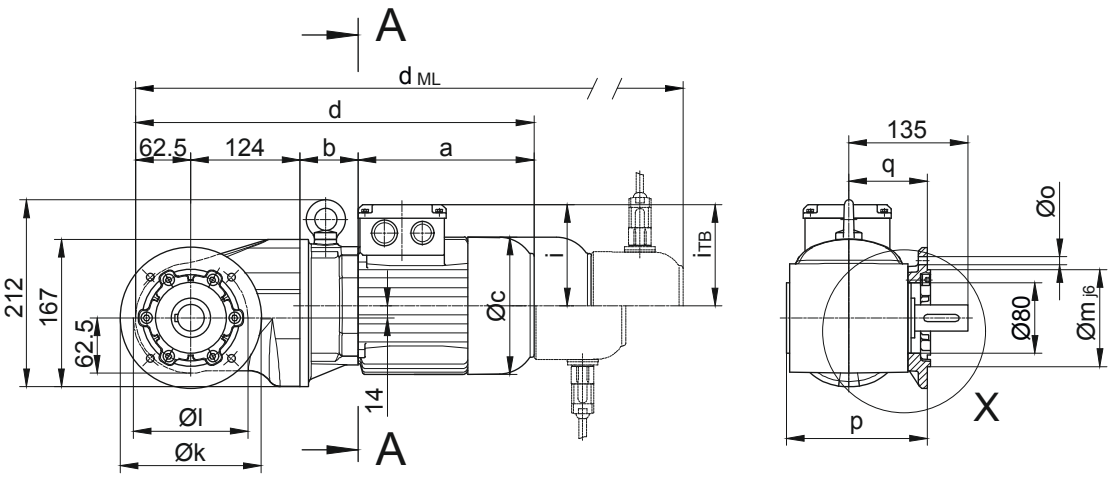
BK-series bevel-geared motors

Dimension - Standard

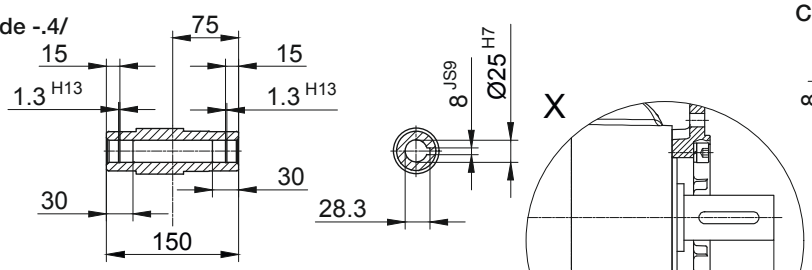
BK08

Flange with clearance holes at front

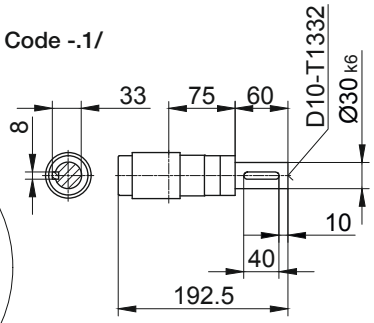
Code -3.V/
(Code -2.V)



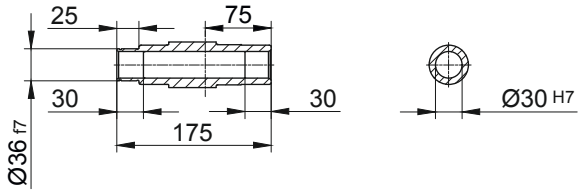
Code -.4/



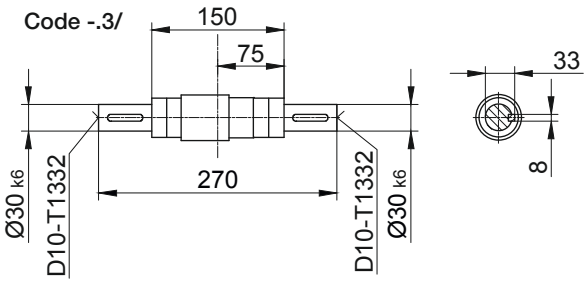
Code -.1/



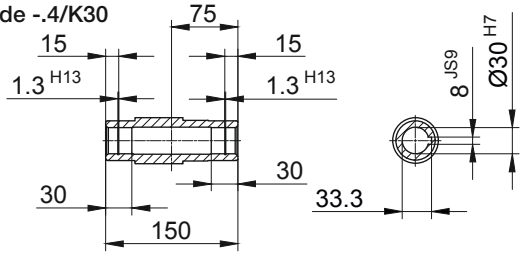
Code -.5/



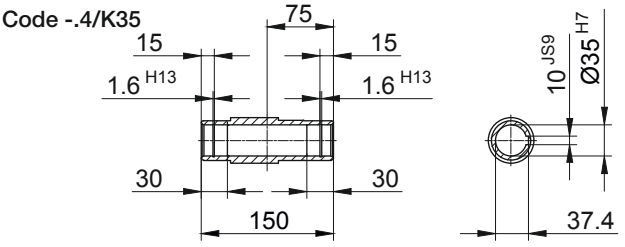
Code -.3/

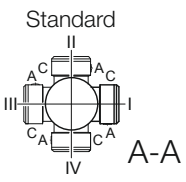


Code -.4/K30



Code -.4/K35





Flange Dimensions										
Type	Design	k	l	m	n	o	p	q	s	t
BK08	Code -3.V/	200	165	130	12	11	166.5	96	3.5	39
BK08	Code -2.V/	160	130	110	10	9	159.5	89	3.5	46
Dimensions in millimetres (mm)										

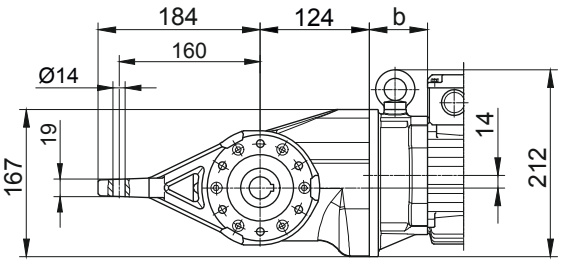
Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BK08-../S..08 (M, L)	199.5	66	156	452	114.5	136.5	518	564	625.5	-
Dimensions in millimetres (mm										

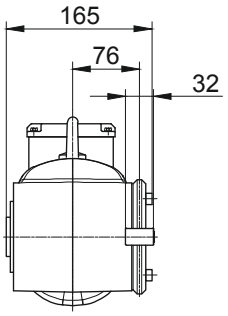
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK08

Torque arm at front

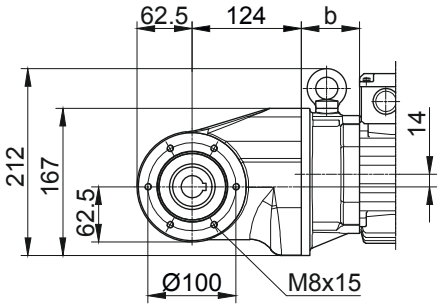
Code -5.V/

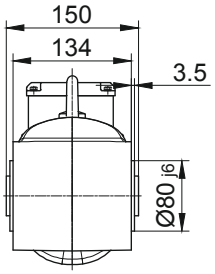




Flange with tapped holes at front

Code -7.V/





12

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK-series bevel-geared motors

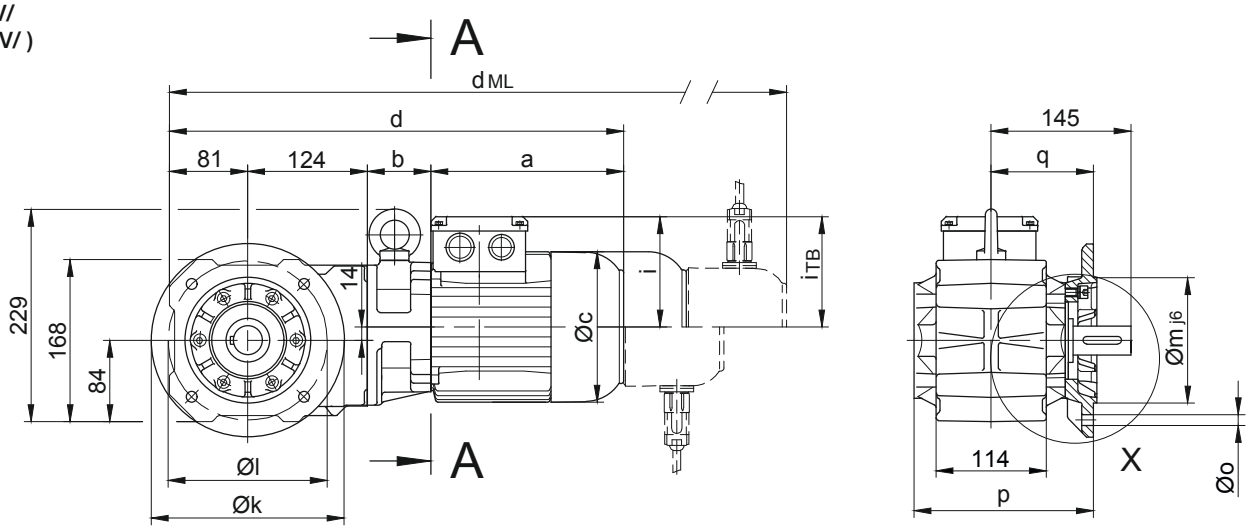
Dimension - Standard

BK10-BK10Z

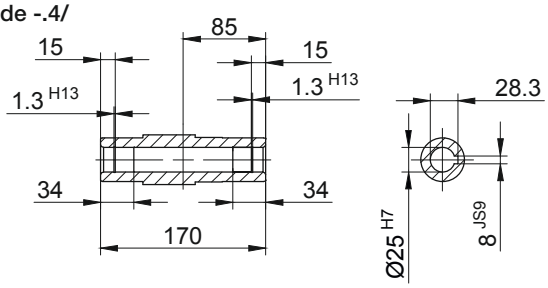
Flange with clearance holes at front

Code -3.V/

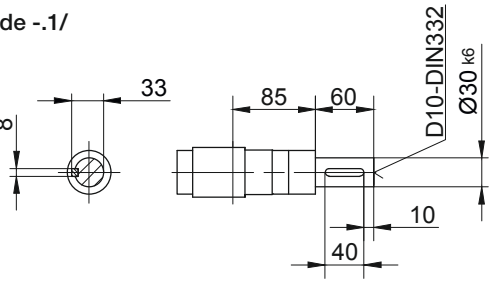
(Code -2.V/)

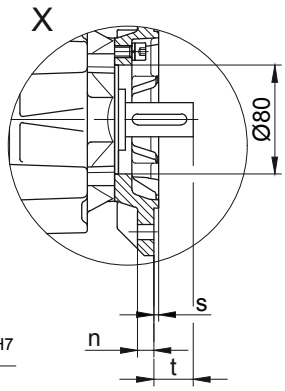


Code -.4/

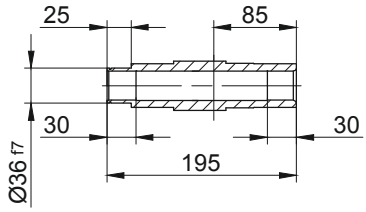


Code -.1/

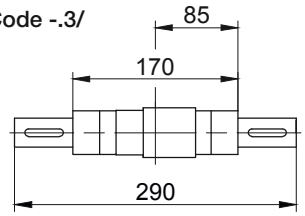


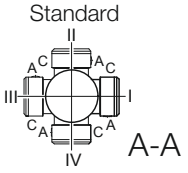


Code -.5/



Code -.3/





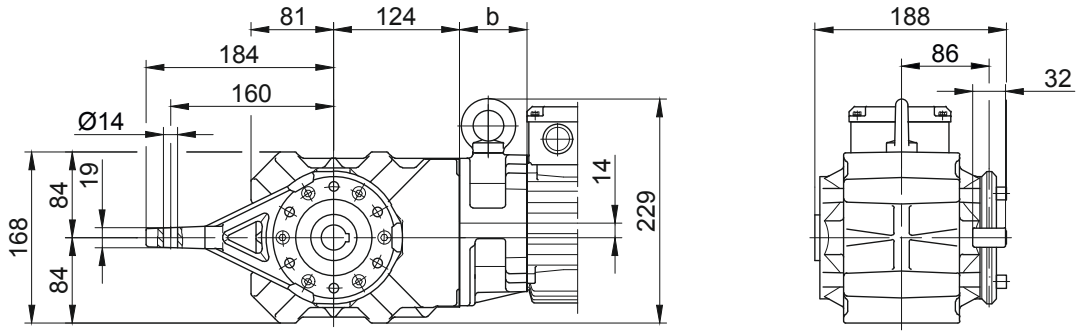
Flange Dimensions										
Type	Design	k	l	m	n	o	p	q	s	t
BK10..	Code -3.V/	200	165	130	12	11	186.5	106	3.5	39
BK10..	Code -2.V/	160	130	110	10	9	179.5	99	3.5	46
Dimensions in millimetres (mm)										

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BK10Z-../S04S	142.5	86	110.5	433.5	90	112	477	521	564.5	-
BK10-../S..06 (M, L)	170.5	62	123	437.5	99	119	479.5	540	577.5	-
BK10Z-../S..06 (M, L)	170.5	88	123	463.5	99	119	505.5	566	603.5	-
BK10-../S..08 (M, L)	199.5	66	156	470.5	114.5	136.5	536.5	582.5	644	-
BK10Z-../S..08 (M, L)	199.5	132	156	536.5	114.5	136.5	602.5	648.5	710	-
BK10-../S..09 (S, X)	250.5	80.5	176	536	124	157	629	643.5	733	-
Dimensions in millimetres (mm										

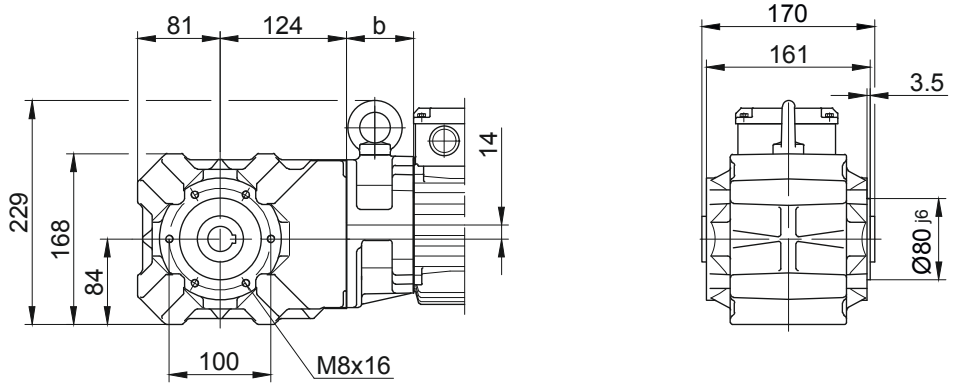
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK10-BK10Z

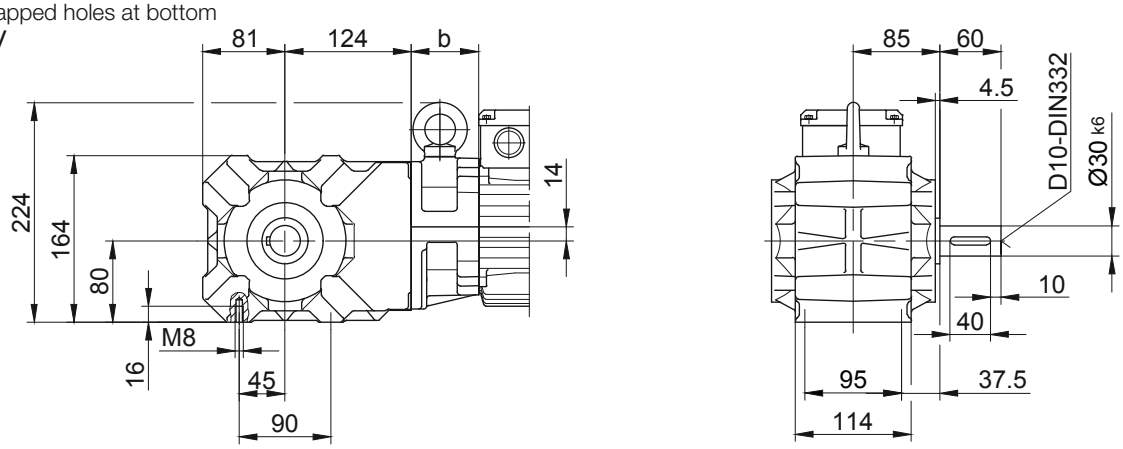
Torque arm at front
Code -5.V/



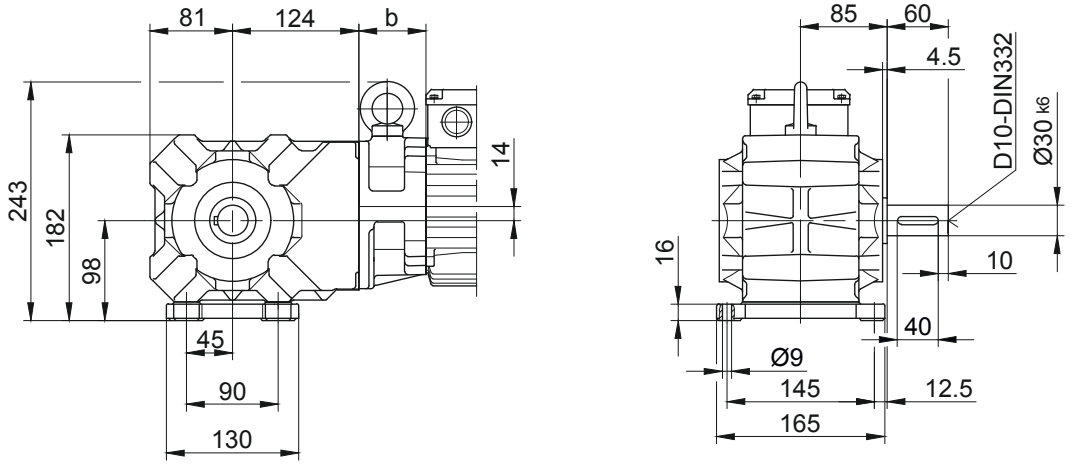
Flange with tapped holes at front
Code -7.V/



Foot with tapped holes at bottom
Code -6.U/



Foot with clearance holes at bottom
Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

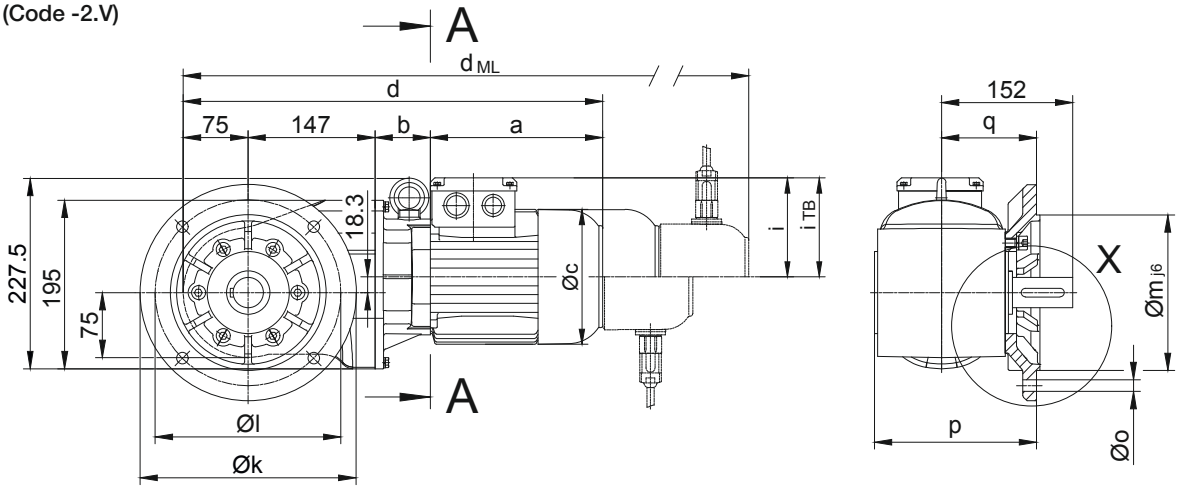
BK-series bevel-geared motors

Dimension - Standard

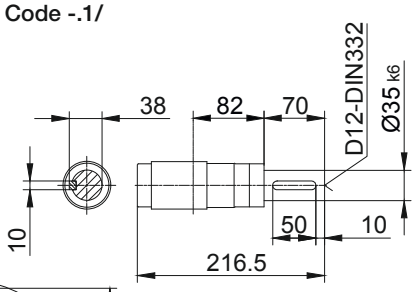
BK17

Flange with clearance holes at front

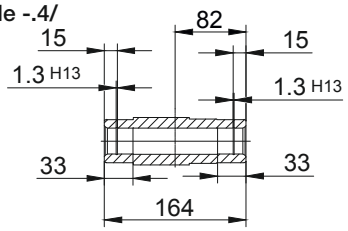
Code -3.V/
(Code -2.V)

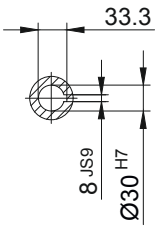


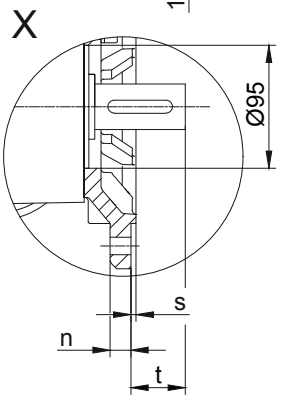
Code -.1/



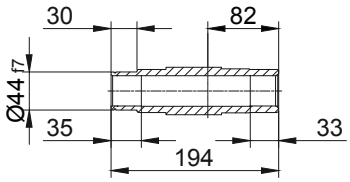
Code -.4/

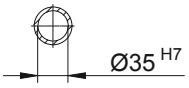




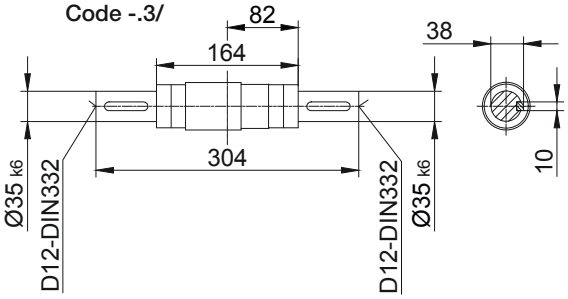


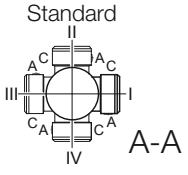
Code -.5/





Code -.3/





Flange Dimensions										
Type	Design	k	l	m	n	o	p	q	s	t
BK17	Code -3.V/	250	215	180	16	13.5	187.5	110	4	42.5
BK17	Code -2.V/	200	165	130	12	11	178.5	101	3.5	51
Dimensions in millimetres (mm)										

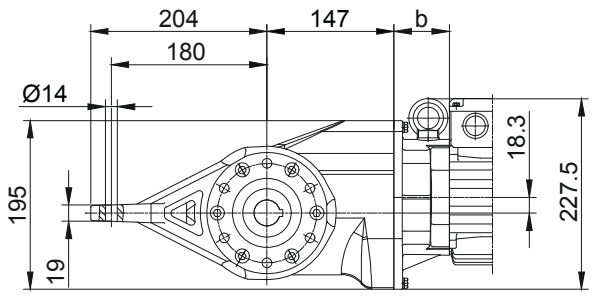
Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BK17-../S..08 (M, L)	199.5	64	156	485.5	114.5	136.5	551.5	597.5	659	-
BK17-../S..09 (S, X)	250.5	78.5	176	551	124	157	644	658.5	748	-
Dimensions in millimetres (mm										

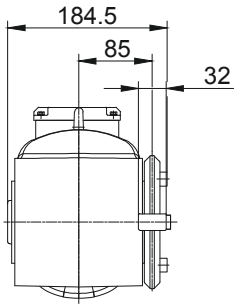
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK17

Torque arm at front

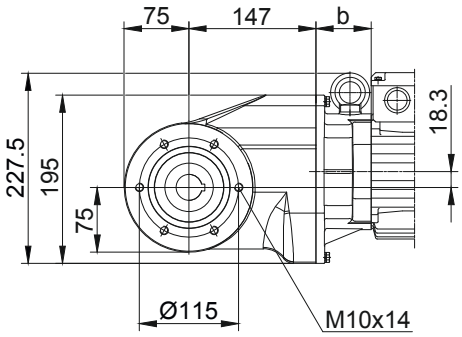
Code -5.V/

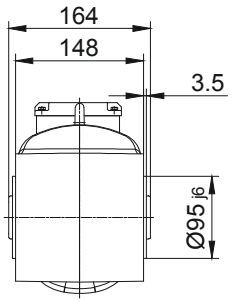




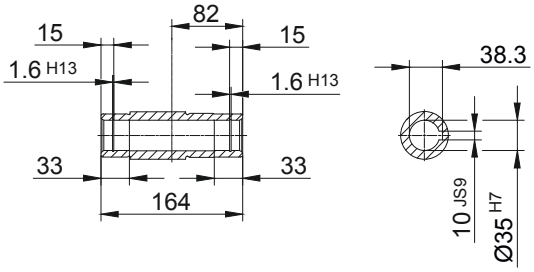
Flange with tapped holes at front

Code -7.V/

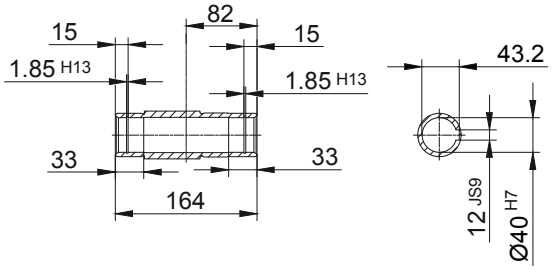




Code -.4/K35



Code -.4/K40



12

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK-series bevel-geared motors

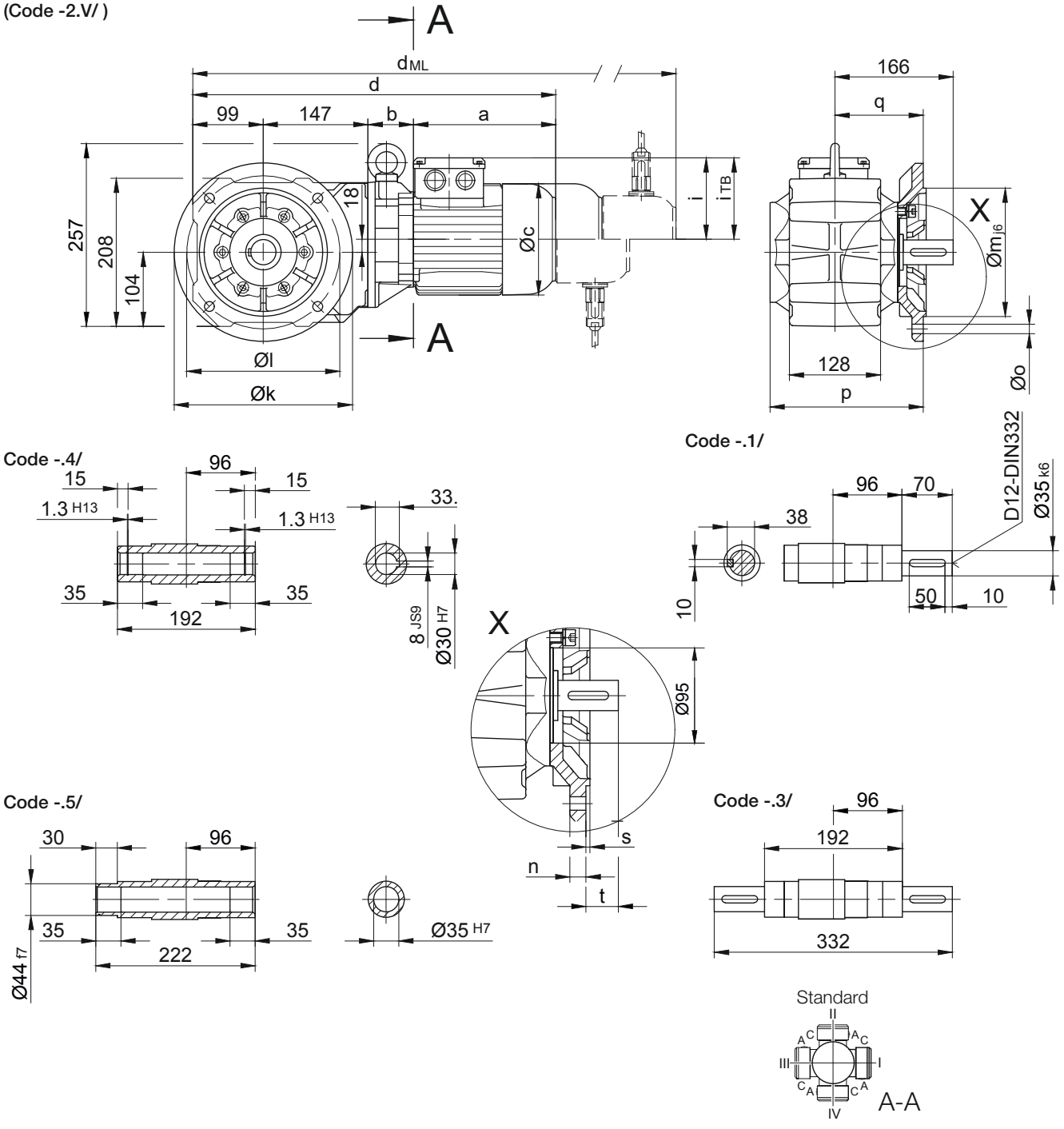
Dimension - Standard

BK20-BK20Z

Flange with clearance holes at front

Code -3.V/

(Code -2.V/)



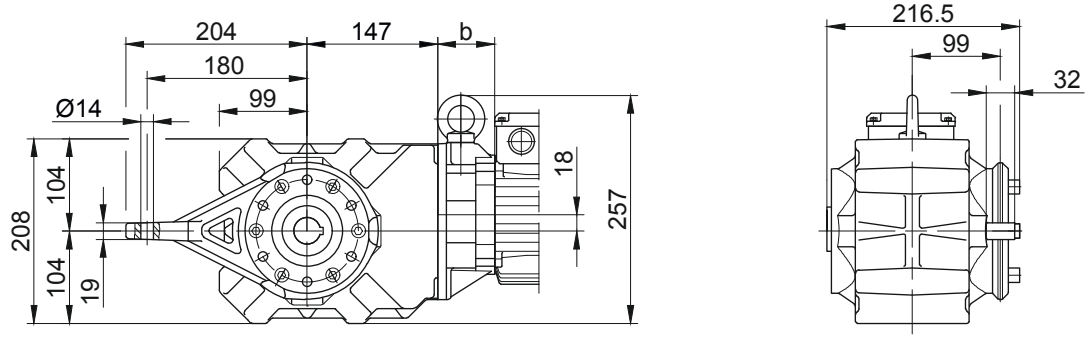
Flange Dimensions										
Type	Design	k	l	m	n	o	p	q	s	t
BK20..	Code -3.V/	250	215	180	16	13.5	215.5	124	4	42.5
BK20..	Code -2.V/	200	165	130	12	11	206.5	115	3.5	51
Dimensions in millimetres (mm)										

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BK20Z-../S04S	142.5	100	110.5	488.5	90	112	532	576	619.5	-
BK20-../S..06 (M, L)	170.5	60	123	476.5	99	119	518.5	579	616.5	-
BK20Z-../S..06 (M, L)	170.5	102	123	518.5	99	119	560.5	621	658.5	-
BK20-../S..08 (M, L)	199.5	64	156	509.5	114.5	136.5	575.5	621.5	683	-
BK20Z-../S..08 (M, L)	199.5	146	156	591.5	114.5	136.5	657.5	703.5	765	-
BK20-../S..09 (S, X)	250.5	78.5	176	575	124	157	741.5	682.5	772	-
Dimensions in millimetres (mm										

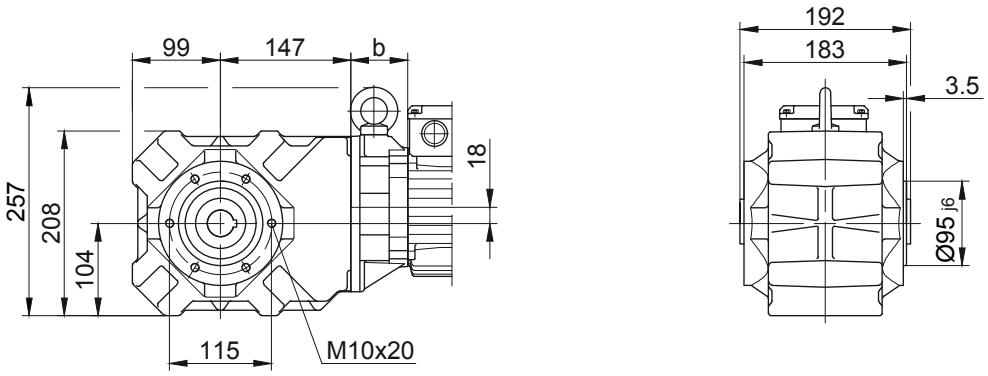
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK20-BK20Z

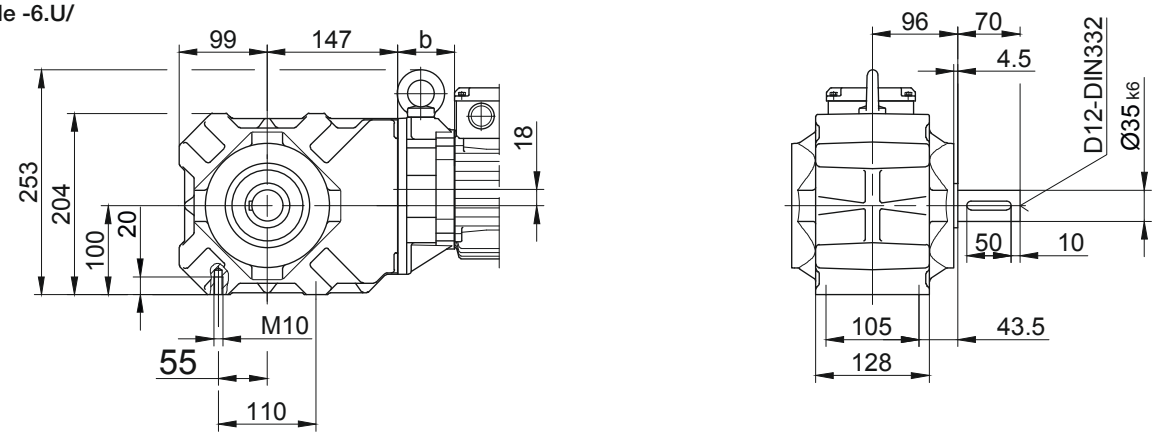
Torque arm at front
Code -5.V/



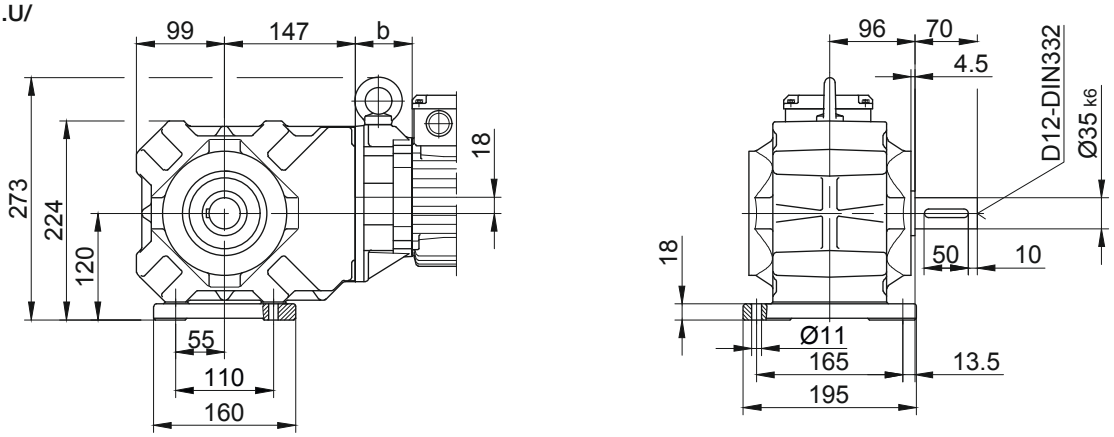
Flange with tapped holes at front
Code -7.V/



Foot with tapped holes at bottom
Code -6.U/



Foot with clearance holes at bottom
Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

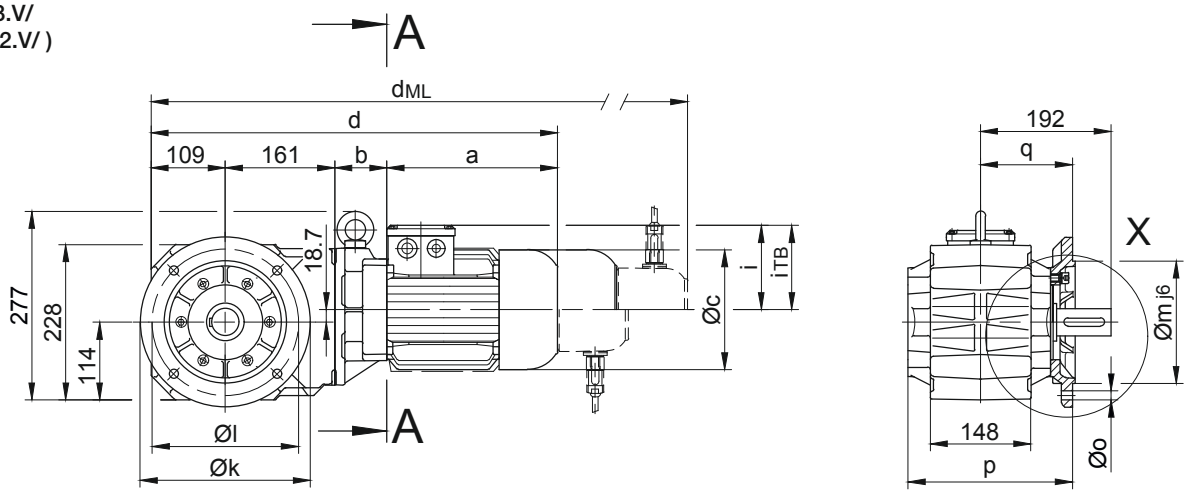
BK-series bevel-geared motors

Dimension - Standard

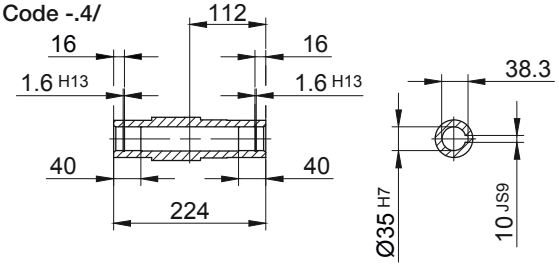
BK30-BK30Z

Flange with clearance holes at front

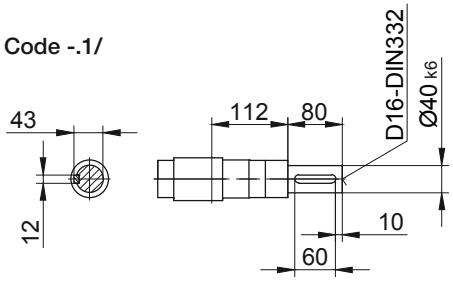
Code -3.V/
(Code -2.V/)

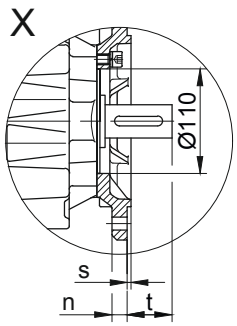


Code -.4/

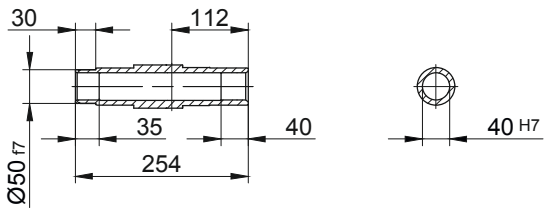


Code -.1/

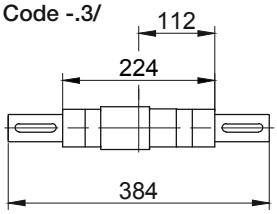


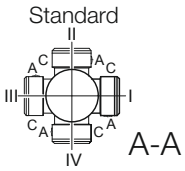


Code -.5/



Code -.3/





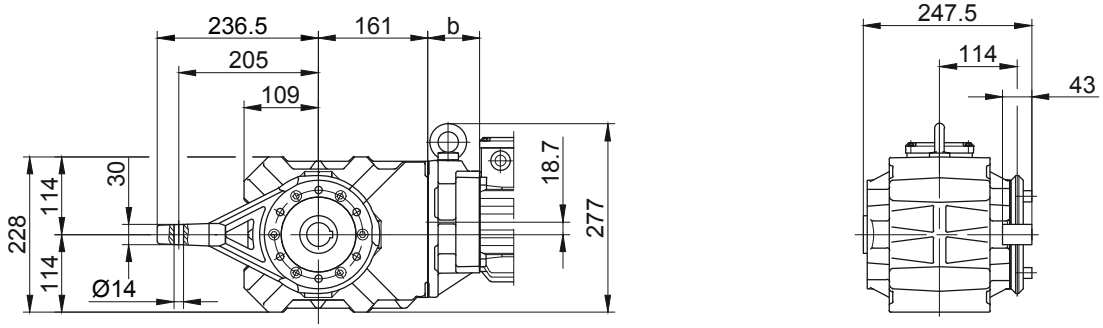
Flange Dimensions										
Type	Design	k	l	m	n	o	p	q	s	t
BK30..	Code -3.V/	250	215	180	16	13.5	242	135	4	57
BK30..	Code -2.V/	200	165	130	12	11	239	132	3.5	59.5
Dimensions in millimetres (mm)										

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BK30-../S..06 (M, L)	170.5	58	123	498.5	99	119	540.5	601	638.5	-
BK30Z-../S..06 (M, L)	170.5	133.5	123	574	99	119	616	676.5	714	-
BK30-../S..08 (M, L)	199.5	62	156	531.5	114.5	136.5	597.5	643.5	705	-
BK30Z-../S..08 (M, L)	199.5	137.5	156	607	114.5	136.5	673	719	780.5	-
BK30-../S..09 (S, X)	250.5	76.5	176	597	124	157	690	704.5	794	-
BK30Z-../S..09 (S, X)	250.5	152	176	672.5	124	157	765.5	780	869.5	-
BK30-../S..11 (S, M, L)	319	83	218	672	165	176	770	779.5	872	-
Dimensions in millimetres (mm										

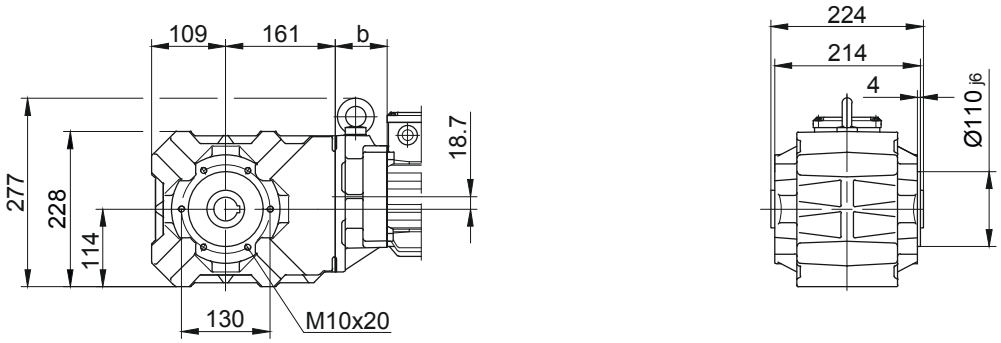
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK30-BK30Z

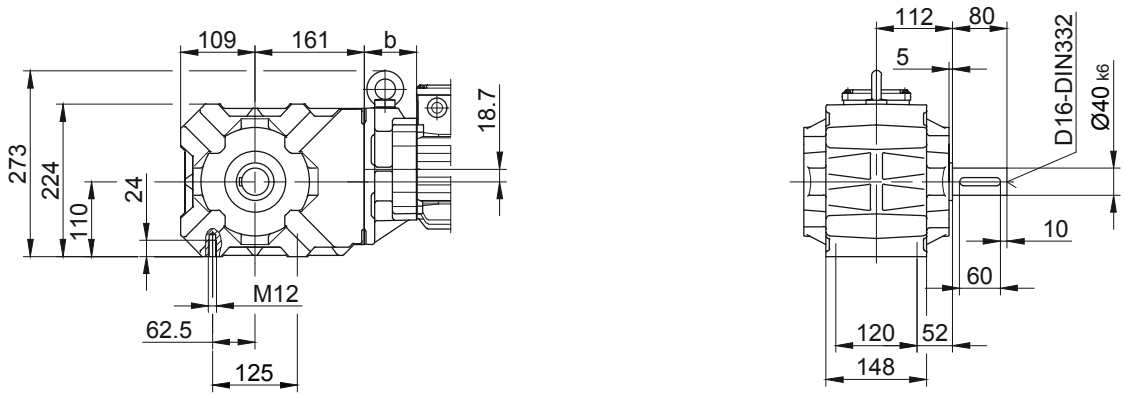
Torque arm at front
Code -5.V/



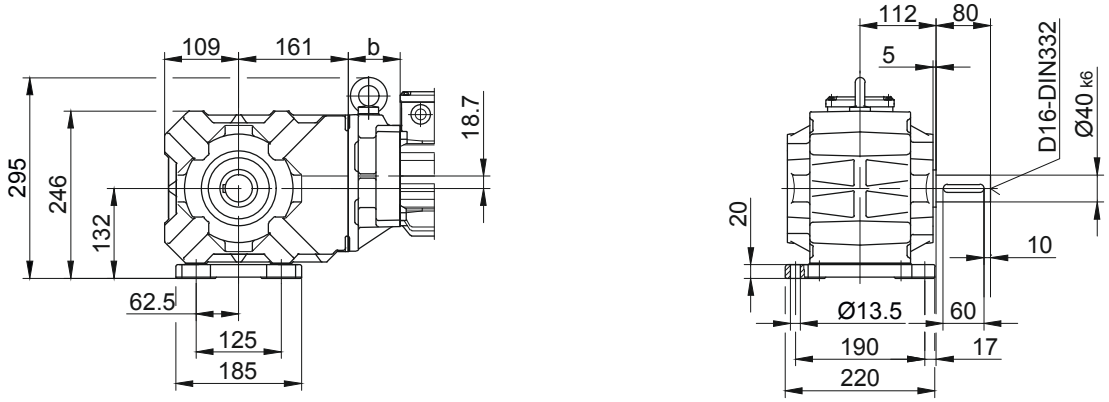
Flange with tapped holes at front
Code -7.V/



Foot with tapped holes at bottom
Code -6.U/



Foot with clearance holes at bottom
Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

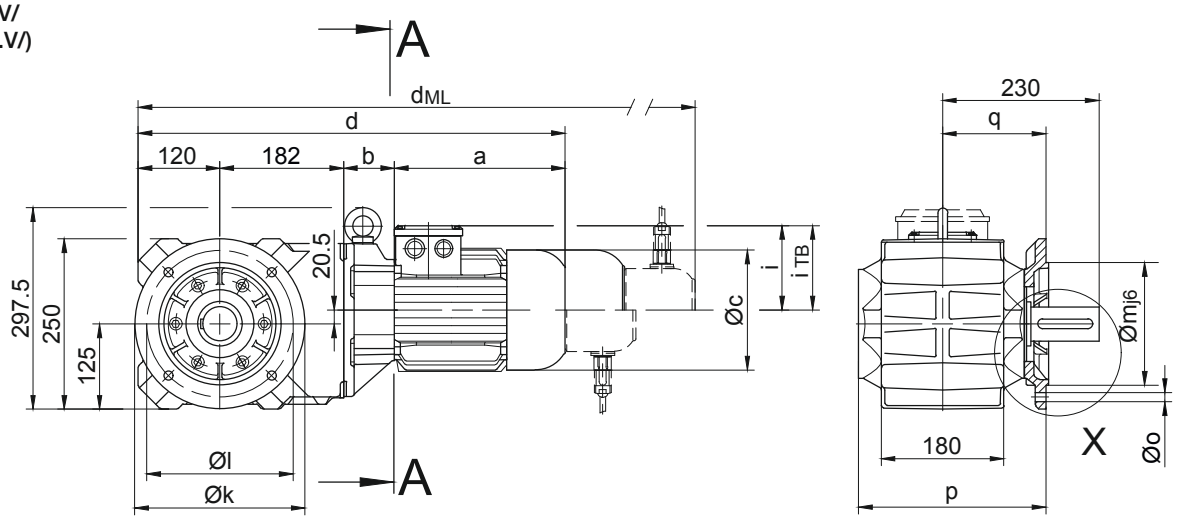
BK-series bevel-geared motors

Dimension - Standard

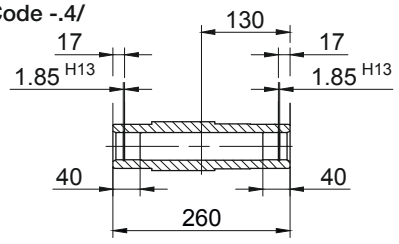
BK40-BK40Z

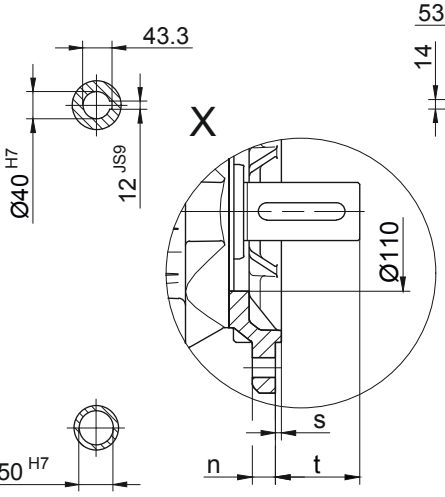
Flange with clearance holes at front

Code -3.V/
(Code -4.V/)

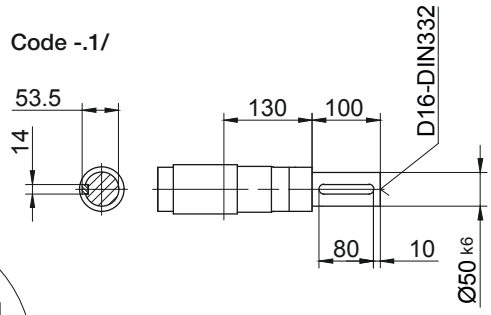


Code -.4/

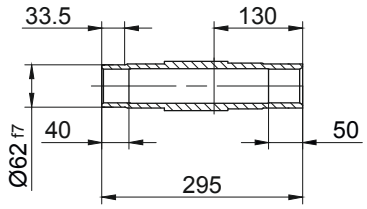




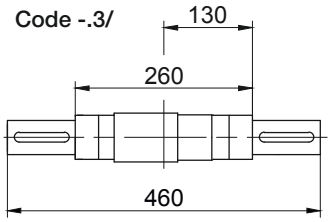
Code -.1/

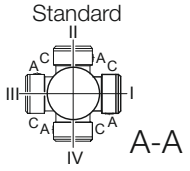


Code -.5/



Code -.3/





Flange Dimensions										
Type	Design	k	l	m	n	o	p	q	s	t
BK40..	Code -3.V/	250	215	180	16	13.5	276	152	4	78
BK40..	Code -4.V/	300	265	230	20	13.5	282	158	4	72
Dimensions in millimetres (mm)										

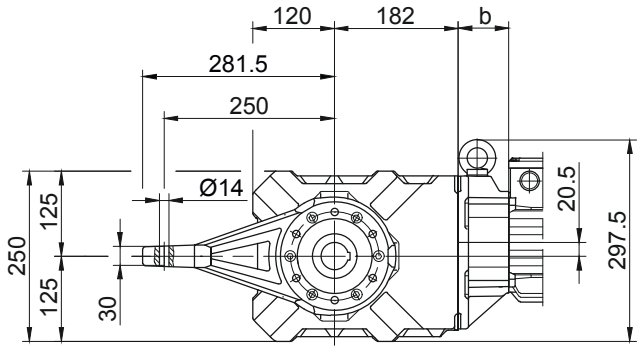
Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BK40Z-../S..06 (M, L)	170.5	138.5	123	611	99	119	653	713.5	751	-
BK40-../S..08 (M, L)	199.5	60	156	561.5	114.5	136.5	627.5	673.5	735	-
BK40Z-../S..08 (M, L)	199.5	142.5	156	644	114.5	136.5	710	756	817.5	-
BK40-../S..09 (S, X)	250.5	74.5	176	627	124	157	720	734.5	824	-
BK40Z-../S..09 (S, X)	250.5	157	176	709.5	124	157	802.5	817	906.5	-
BK40-../S..11 (S, M, L)	319	81	218	702	165	176	800	809.5	902	-
Dimensions in millimetres (mm										

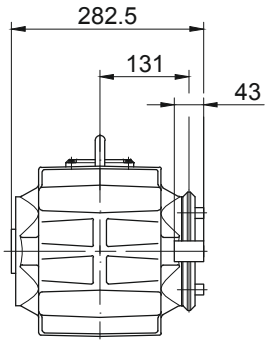
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK40-BK40Z

Torque arm at front

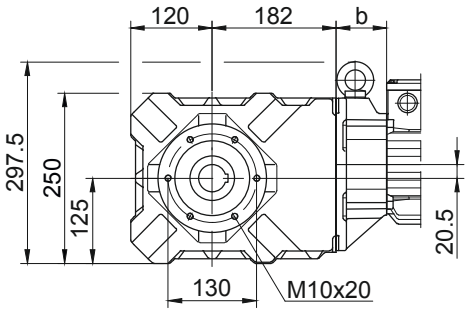
Code -5.V/

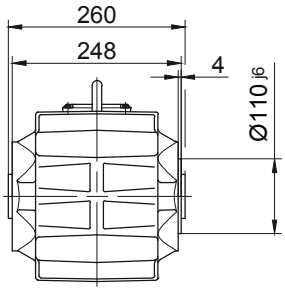




Flange with tapped holes at front

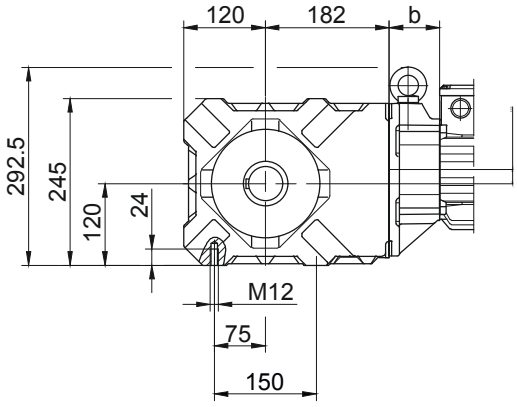
Code -7.V/

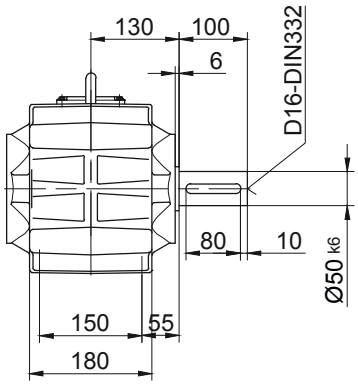




Foot with tapped holes at bottom

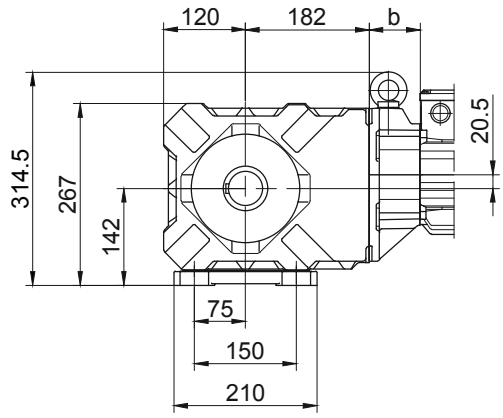
Code -6.U/

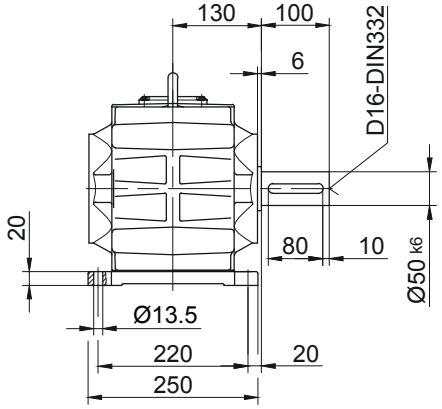




Foot with clearance holes at bottom

Code -1.U/





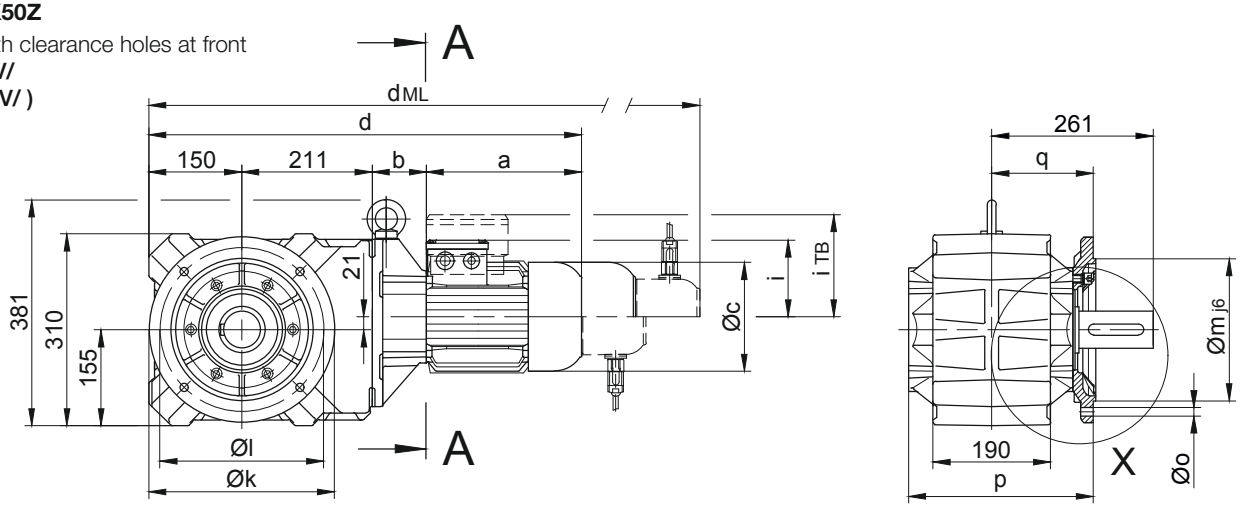
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK-series bevel-geared motors

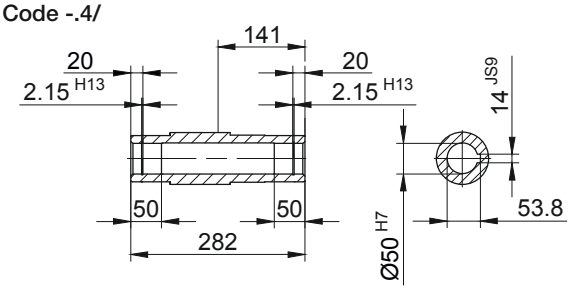
Dimension - Standard

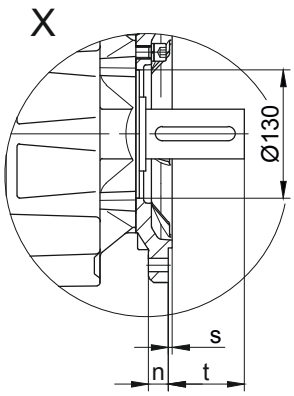
BK50-BK50Z

Flange with clearance holes at front
Code -3.V/
(Code -2.V/)

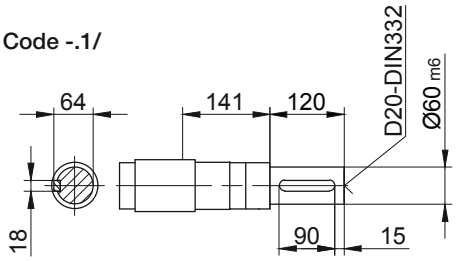


Code -.4/

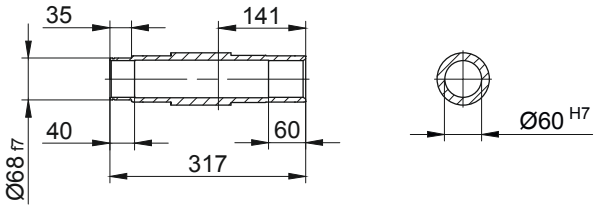




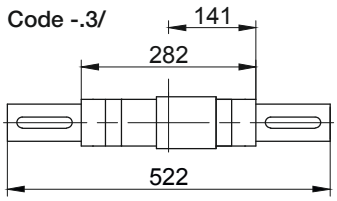
Code -.1/

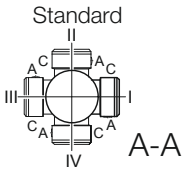


Code -.5/



Code -.3/





Flange Dimensions										
Type	Design	k	l	m	n	o	p	q	s	t
BK50..	Code -3.V/	300	265	230	20	13.5	299	164	4	97
BK50..	Code -2.V/	250	215	180	16	13.5	296	161	4	100
Dimensions in millimetres (mm)										

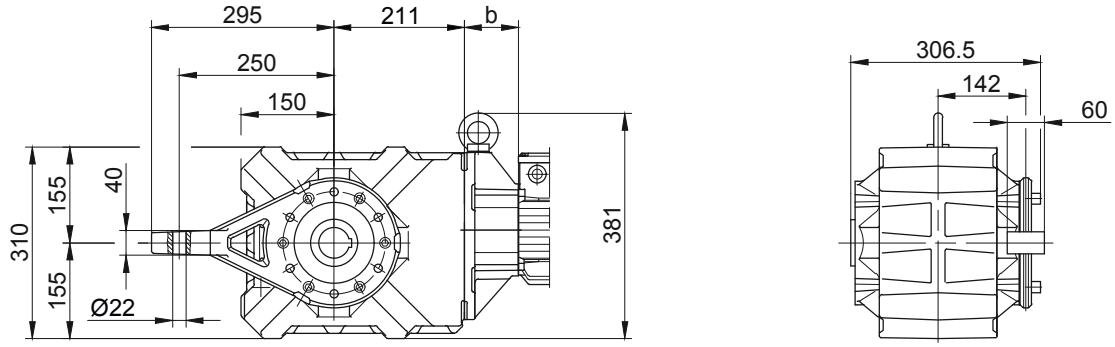
Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BK50Z-../S..06 (M, L)	170.5	155	123	686.5	99	119	728.5	789	826.5	-
BK50-../S..08 (M, L)	199.5	73	156	633.5	114.5	136.5	699.5	745.5	807	-
BK50Z-../S..08 (M, L)	199.5	159	156	719.5	114.5	136.5	785.5	831.5	893	-
BK50-../S..09 (S, X)	250.5	87.5	176	699	124	157	792	806.5	896	-
BK50Z-../S..09 (S, X)	250.5	173.5	176	785	124	157	878	892.5	982	-
BK50-../S..11 (S, M, L)	319	94	218	774	165	176	872	881.5	974	-
Dimensions in millimetres (mm										

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK50-BK50Z

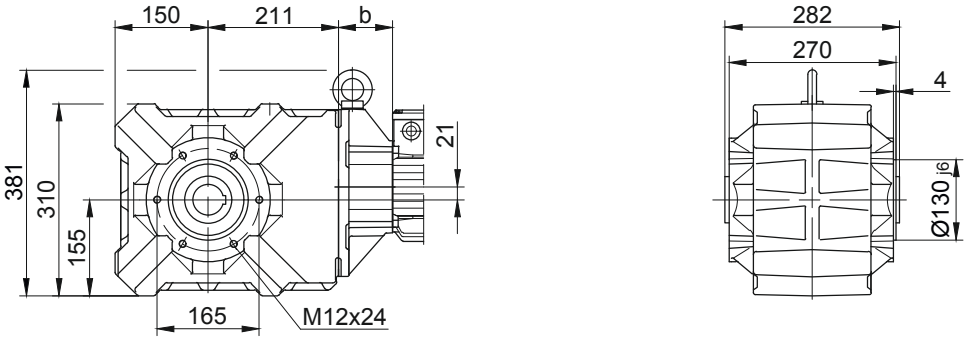
Torque arm at front

Code -5.V/



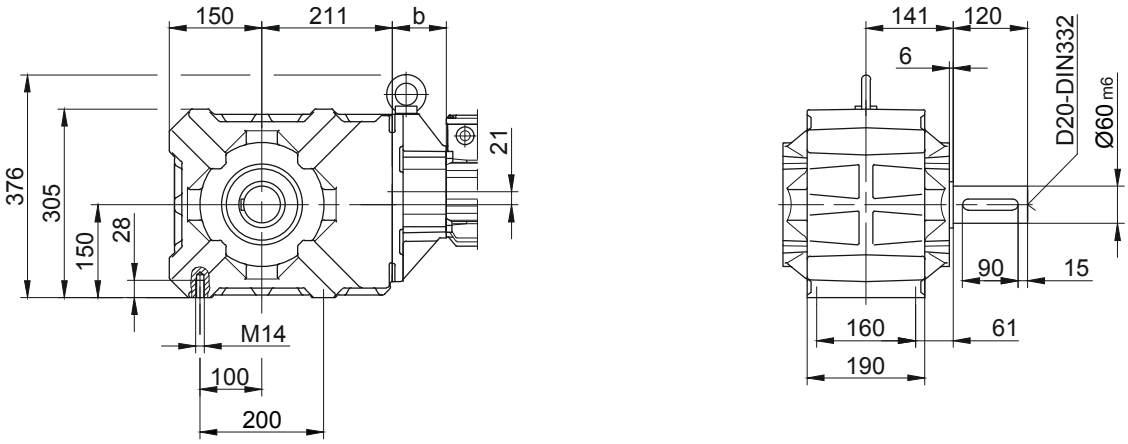
Flange with tapped holes at front

Code -7.V/



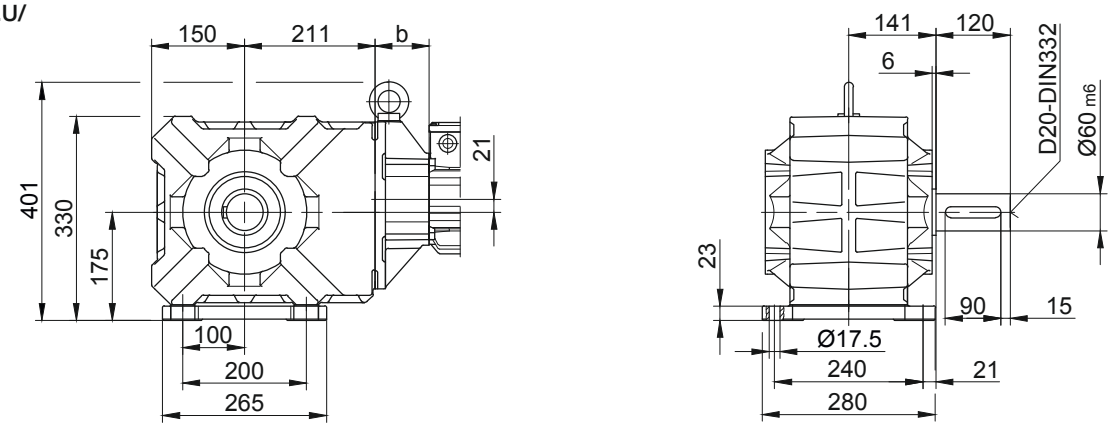
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

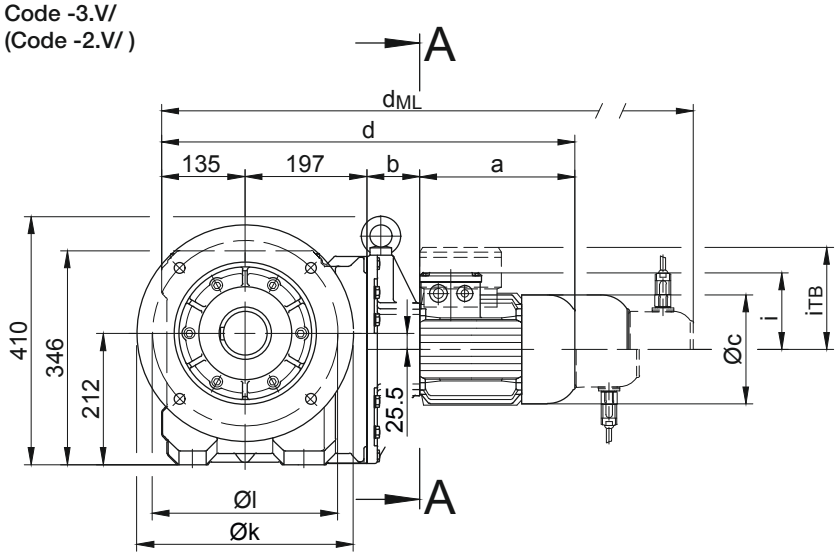
BK-series bevel-geared motors

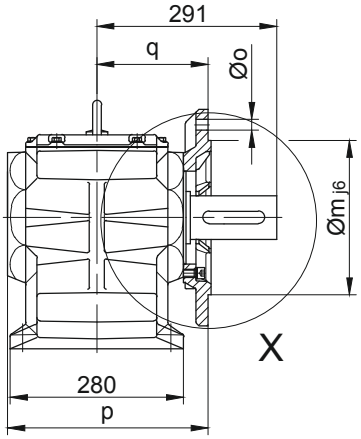
Dimension - Standard

BK60-BK60Z

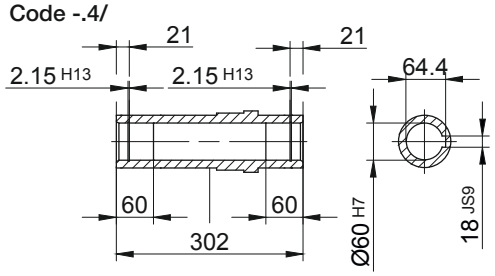
Flange with clearance holes at front

Code -3.V/
(Code -2.V/)

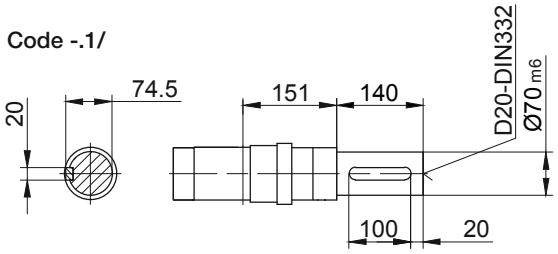


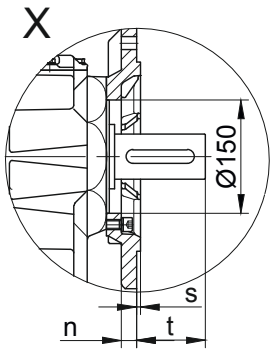


Code -.4/

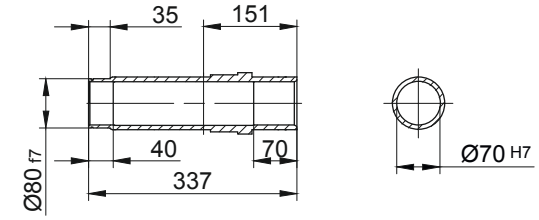


Code -.1/

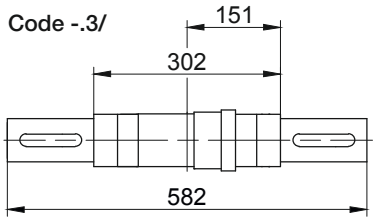


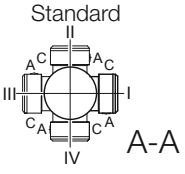


Code -.5/



Code -.3/





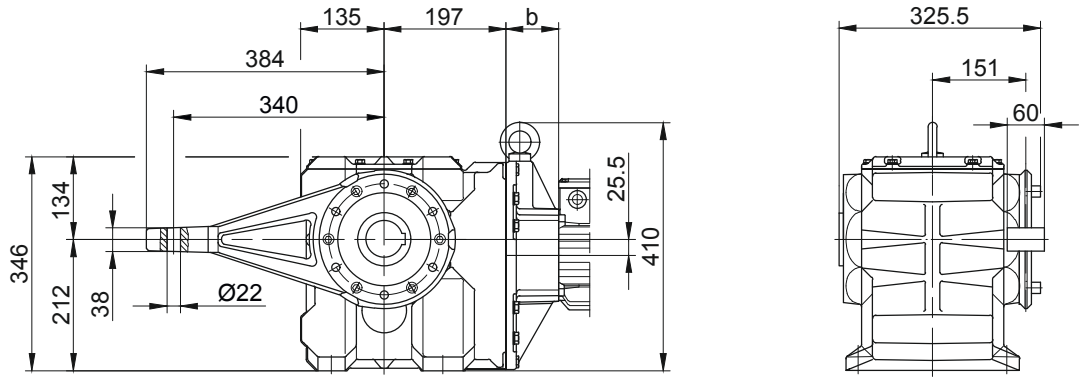
Flange Dimensions										
Type	Design	k	l	m	n	o	p	q	s	t
BK60..	Code -3.V/	350	300	250	20	17.5	324	180	5	112
BK60..	Code -2.V/	300	265	230	20	13.5	332	188	4	103
Dimensions in millimetres (mm)										

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BK60Z-../S..08 (M, L)	199.5	181	156	712.5	114.5	136.5	778.5	824.5	886	-
BK60-../S..09 (S, X)	250.5	85.5	176	668	124	157	761	775.5	865	-
BK60Z-../S..09 (S, X)	250.5	195.5	176	778	124	157	871	885.5	975	-
BK60-../S..11 (S, M, L)	319	92	218	743	165	176	841	850.5	943	-
BK60Z-../S..11 (S, M, L)	319	202	218	853	165	176	951	960.5	1053	-
Dimensions in millimetres (mm										

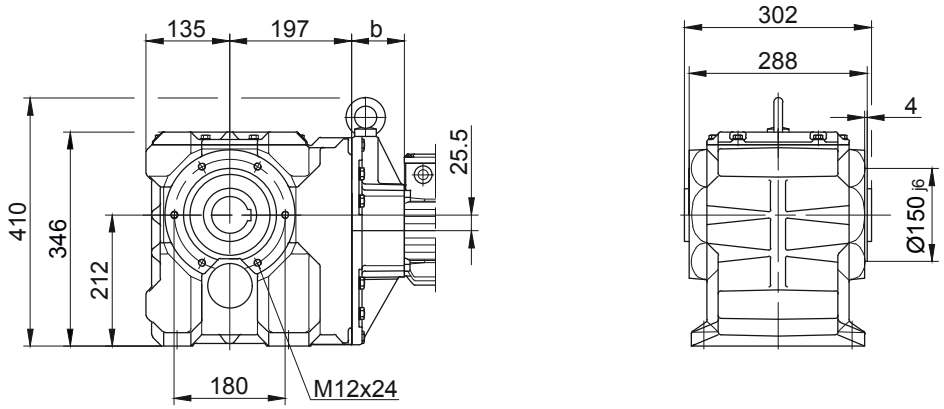
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK60-BK60Z

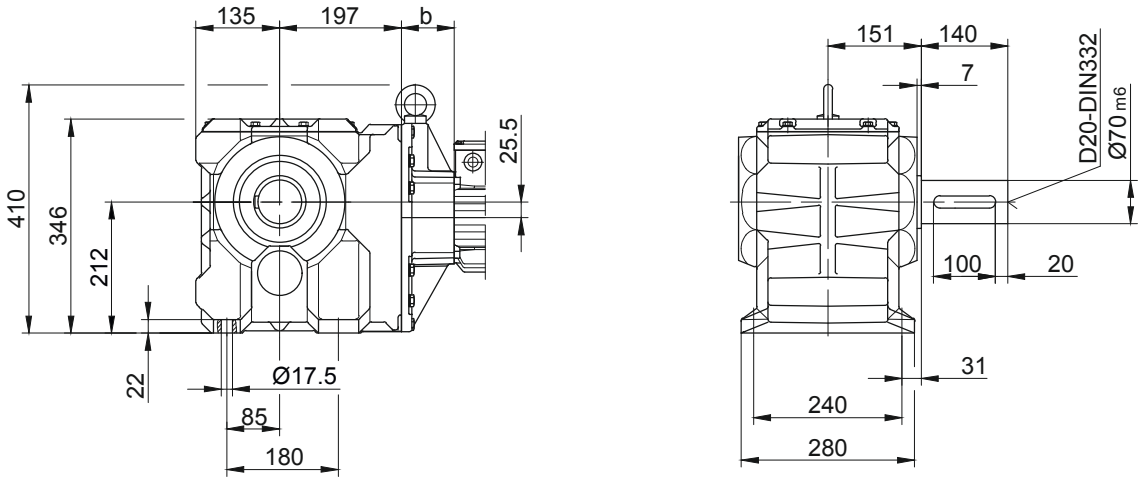
Torque arm at front
Code -5.V/



Flange with tapped holes at front
Code -7.V/



Foot with clearance holes at bottom
Code -1.U/



12

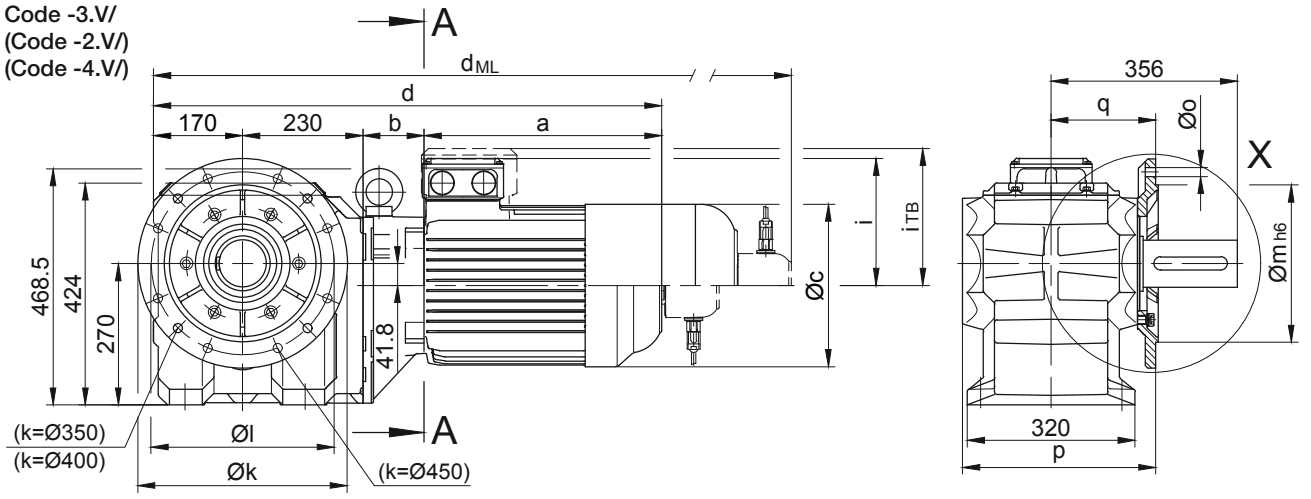
BK-series bevel-geared motors

Dimension - Standard

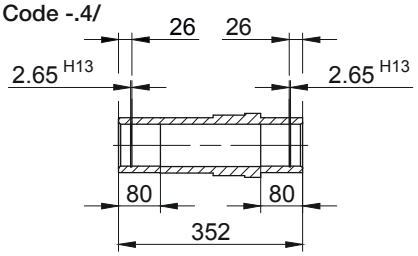
BK70-BK70Z

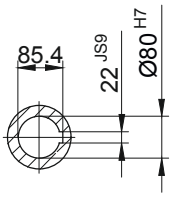
Flange with clearance holes at front

Code -3.V/
(Code -2.V/)
(Code -4.V/)

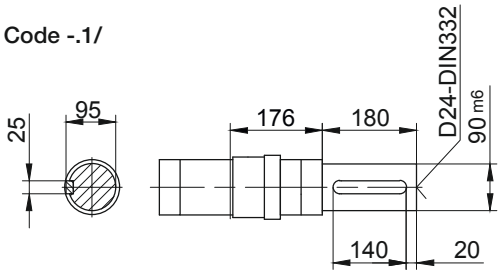


Code -.4/

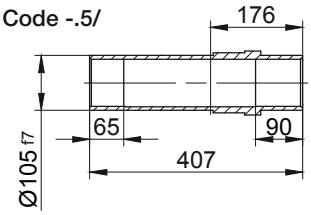


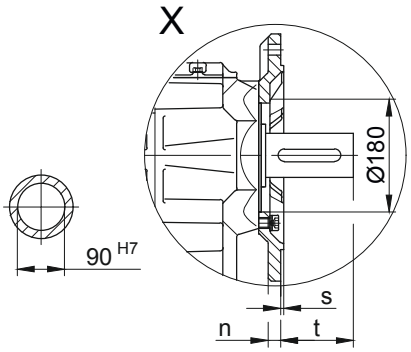


Code -.1/

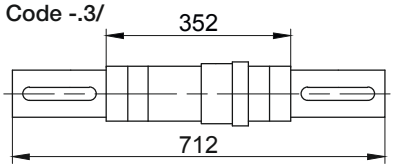


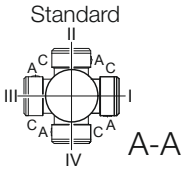
Code -.5/





Code -.3/





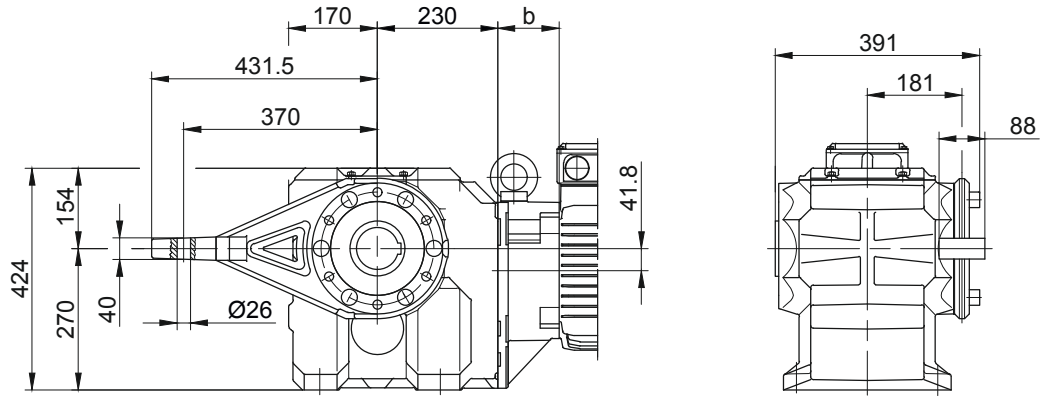
Flange Dimensions										
Type	Design	k	l	m	n	o	p	q	s	t
BK70..	Code -3.V/	400	350	300	20	4 x 17.5	369	200	5	157
BK70..	Code -2.V/	350	300	250	20	4 x 17.5	369	200	5	157
BK70..	Code -4.V/	450	400	350	22	4 x 17.5	379	210	5	147
Dimensions in millimetres (mm)										

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BK70Z-../S..08 (M, L)	199.5	202	156	801.5	114.5	136.5	867.5	913.5	975	-
BK70-../S..09 (S, X)	250.5	83.5	176	734	124	157	827	841.5	931	-
BK70Z-../S..09 (S, X)	250.5	216.5	176	867	124	157	960	974.5	1064	-
BK70-../S..11 (S, M, L)	319	90	218	809	165	176	907	916.5	1009	-
BK70Z-../S..11 (S, M, L)	319	223	218	942	165	176	1040	1049.5	1142	-
Dimensions in millimetres (mm										

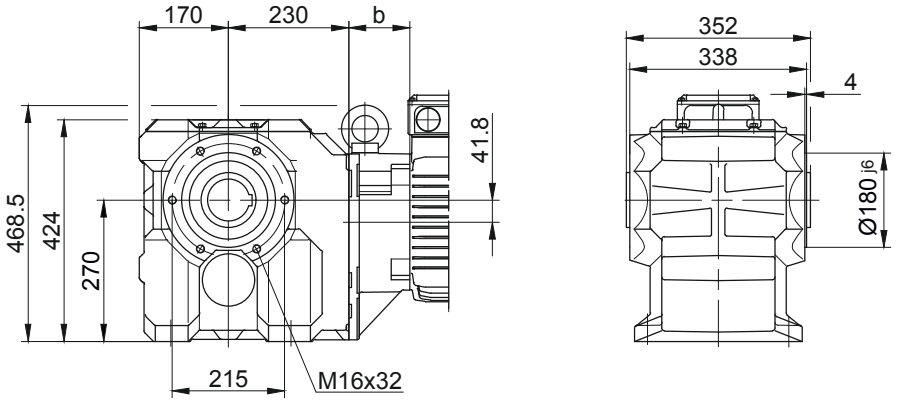
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK70-BK70Z

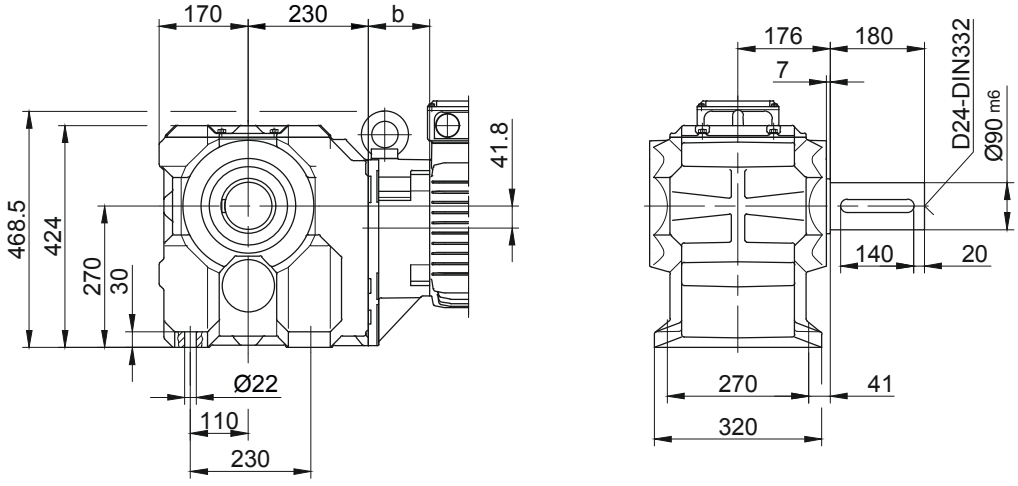
Torque arm at front
Code -5.V/



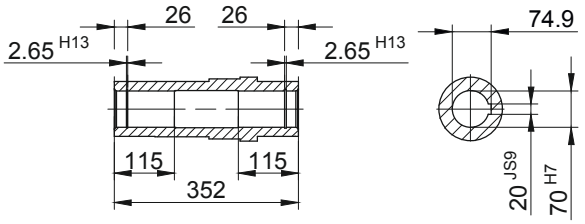
Flange with tapped holes at front
Code -7.V/



Foot with clearance holes at bottom
Code -1.U/



Code -.4/K70



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

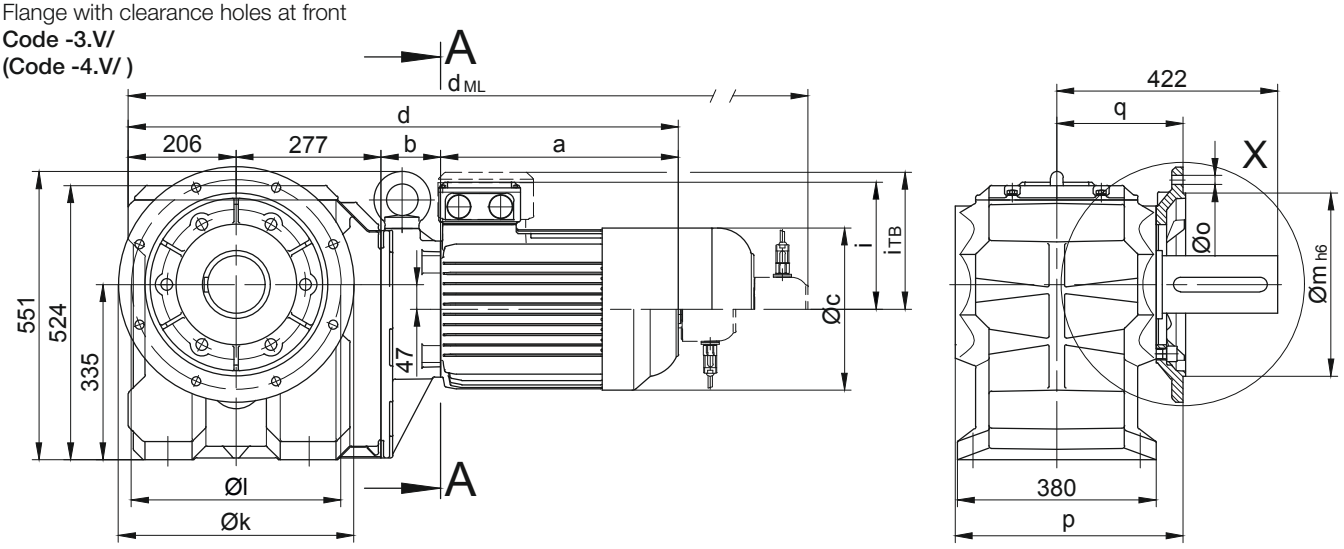
BK-series bevel-geared motors

Dimension - Standard

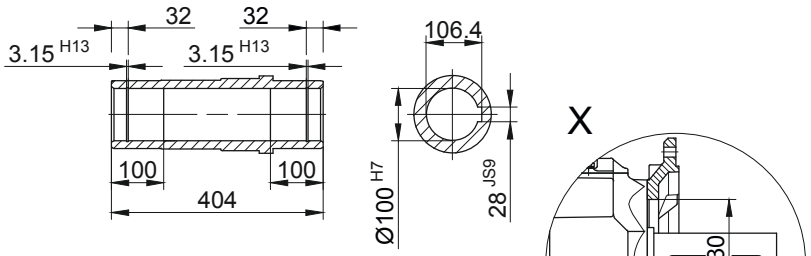
BK80-BK80Z

Flange with clearance holes at front

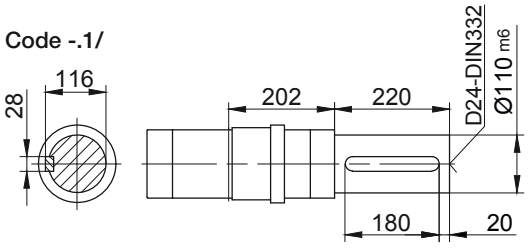
Code -3.V/
(Code -4.V/)



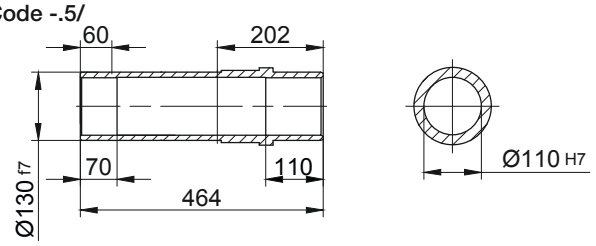
Code -.4/



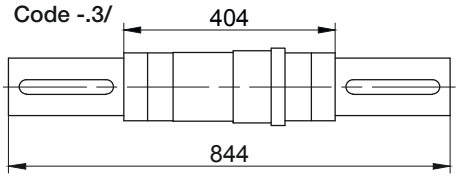
Code -.1/



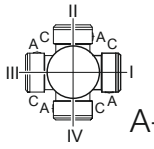
Code -.5/



Code -.3/



Standard



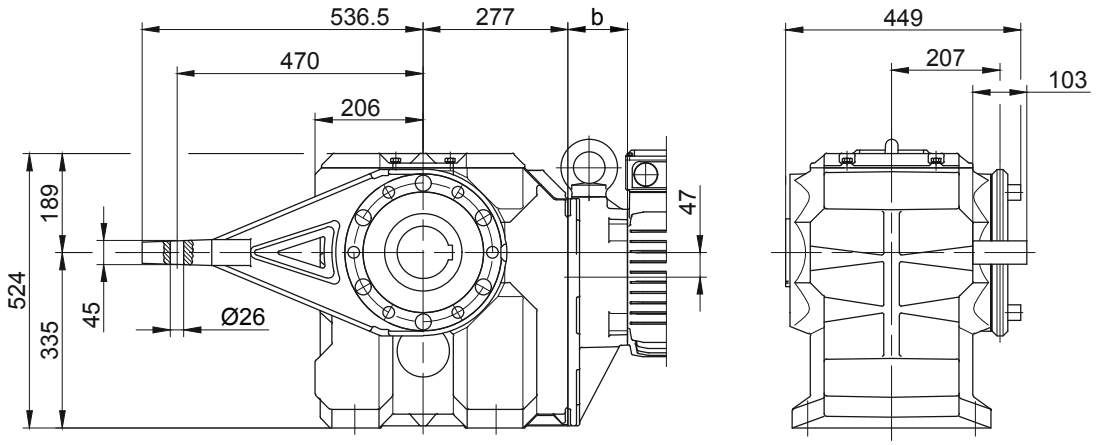
Flange Dimensions										
Type	Design	k	l	m	n	o	p	q	s	t
BK80..	Code -3.V/	450	400	350	22	17.5	439	245	5	178
BK80..	Code -4.V/	550	500	450	22	17.5	444	250	5	173
Dimensions in millimetres (mm)										

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BK80Z-../S..09 (S, X)	250.5	252.5	176	986	124	157	1079	1093.5	1183	-
BK80-../S..11 (S, M, L)	319	87	218	889	165	176	987	996.5	1089	-
BK80Z-../S..11 (S, M, L)	319	259	218	1061	165	176	987	1168.5	1261	-
Dimensions in millimetres (mm										

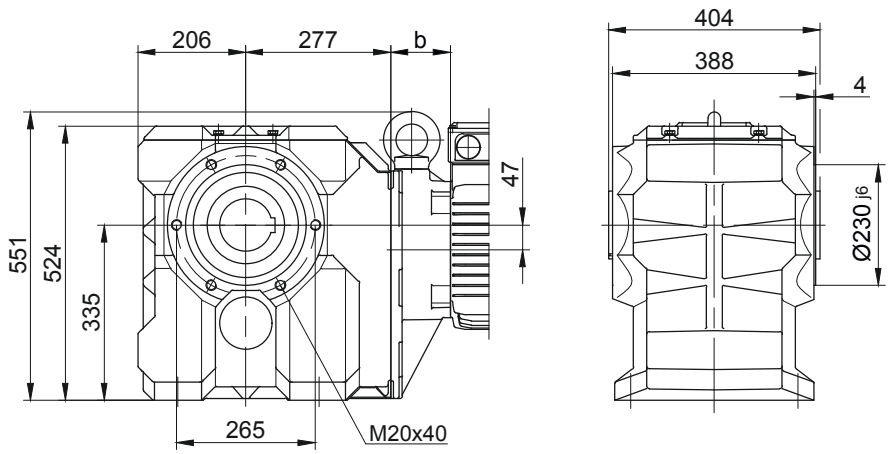
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK80-BK80Z

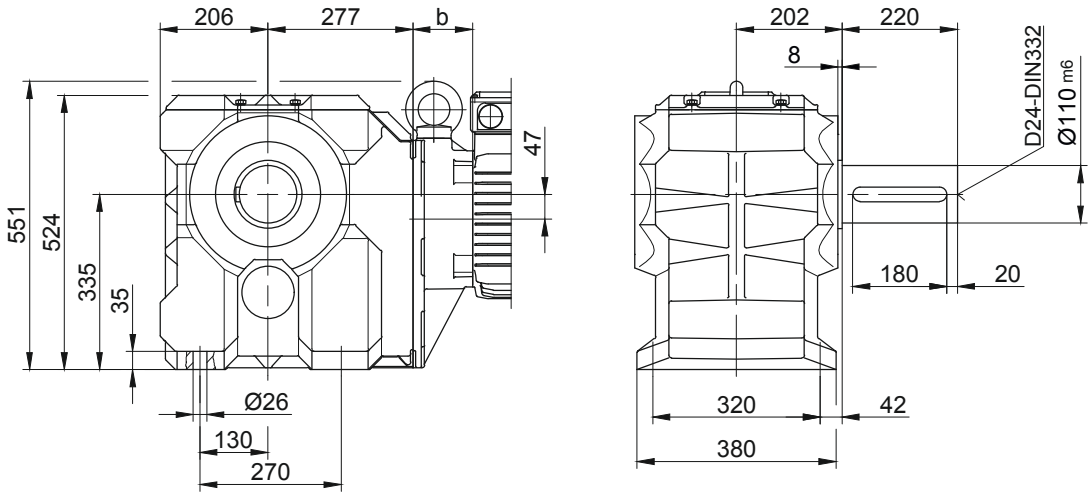
Torque arm at front
Code -5.V/



Flange with tapped holes at front
Code -7.V/



Foot with clearance holes at bottom
Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK-series bevel-geared motors

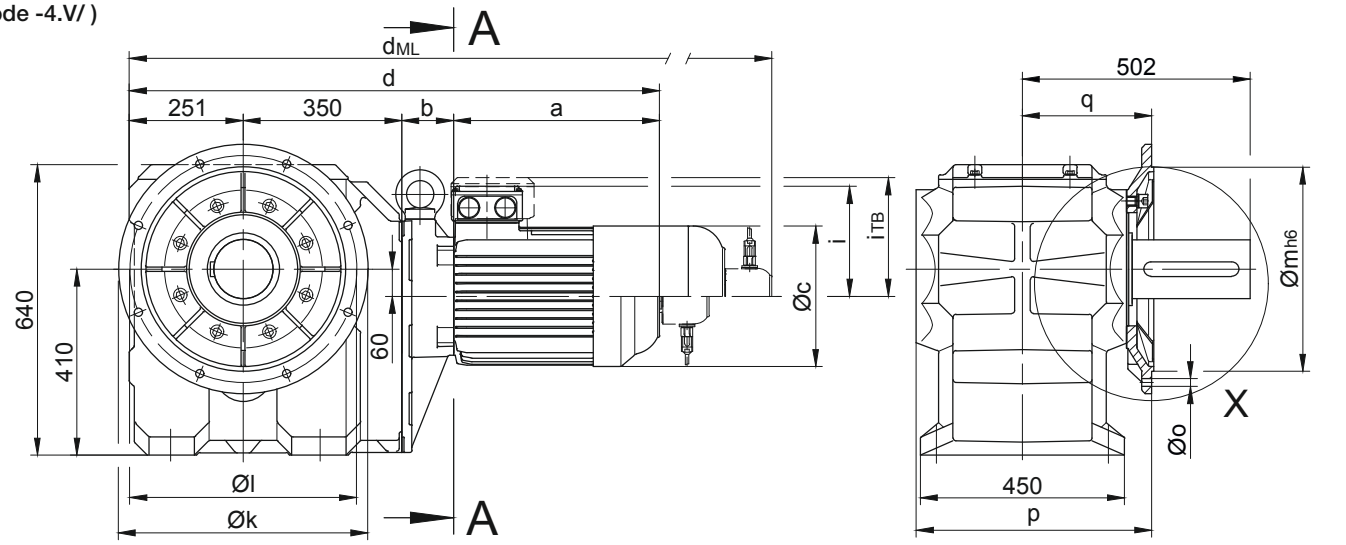
Dimension - Standard

BK90-BK90Z

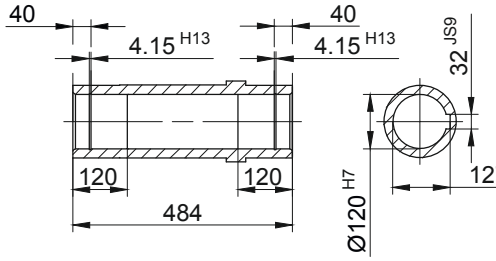
Flange with clearance holes at front

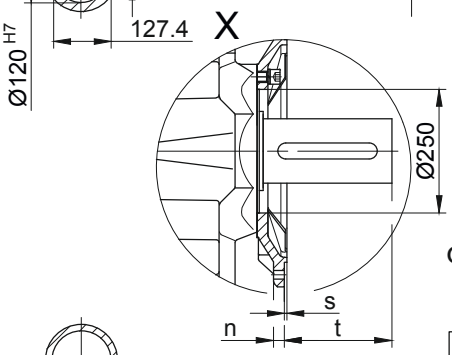
Code -3.V/

(Code -4.V/)

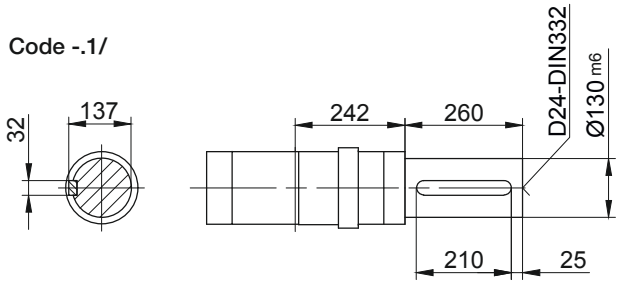


Code -.4/

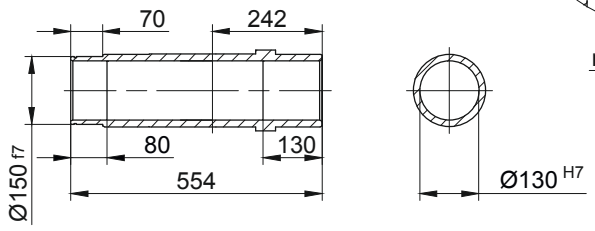




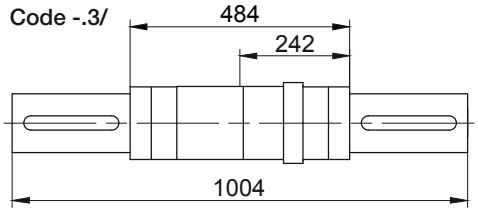
Code -.1/

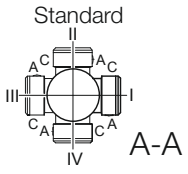


Code -.5/



Code -.3/





12

Flange Dimensions										
Type	Design	k	l	m	n	o	p	q	s	t
BK90..	Code -3.V/	550	500	450	22	17.5	519	285	5	218
BK90..	Code -4.V/	660	600	550	25	22	513	279	6	225
Dimensions in millimetres (mm)										

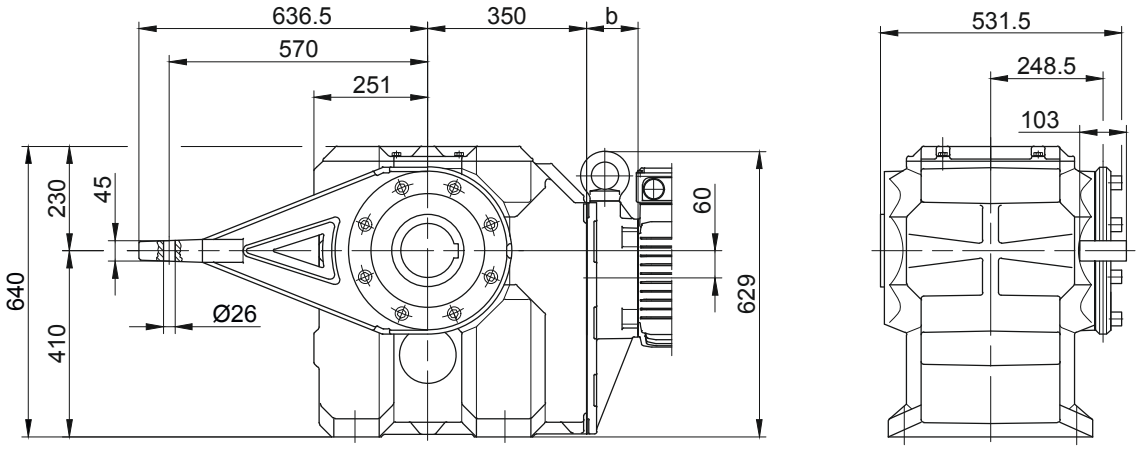
Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BK90Z-../S..09 (S, X)	250.5	267	176	1118.5	124	157	1211.5	1226	1315.5	-
BK90Z-../S..11 (S, M, L)	319	273.5	218	1193.5	165	176	1291.5	1301	1393.5	-
Dimensions in millimetres (mm										

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK90-BK90Z

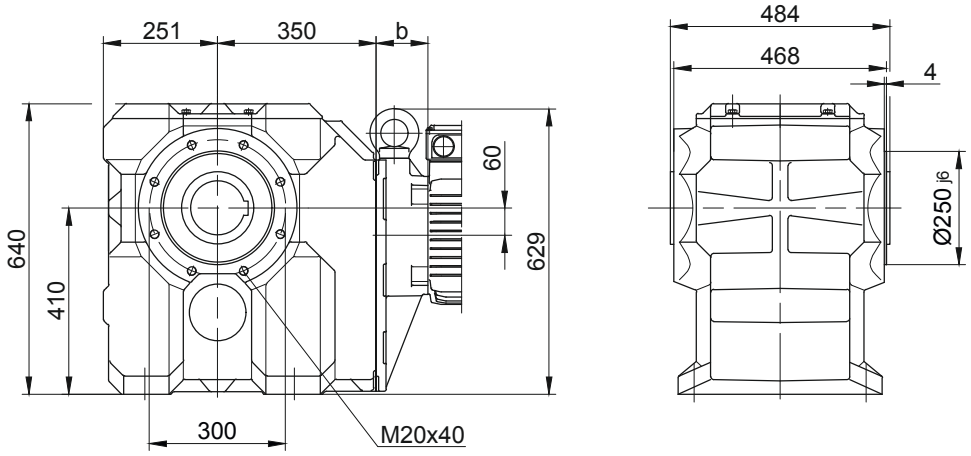
Torque arm at front

Code -5.V/



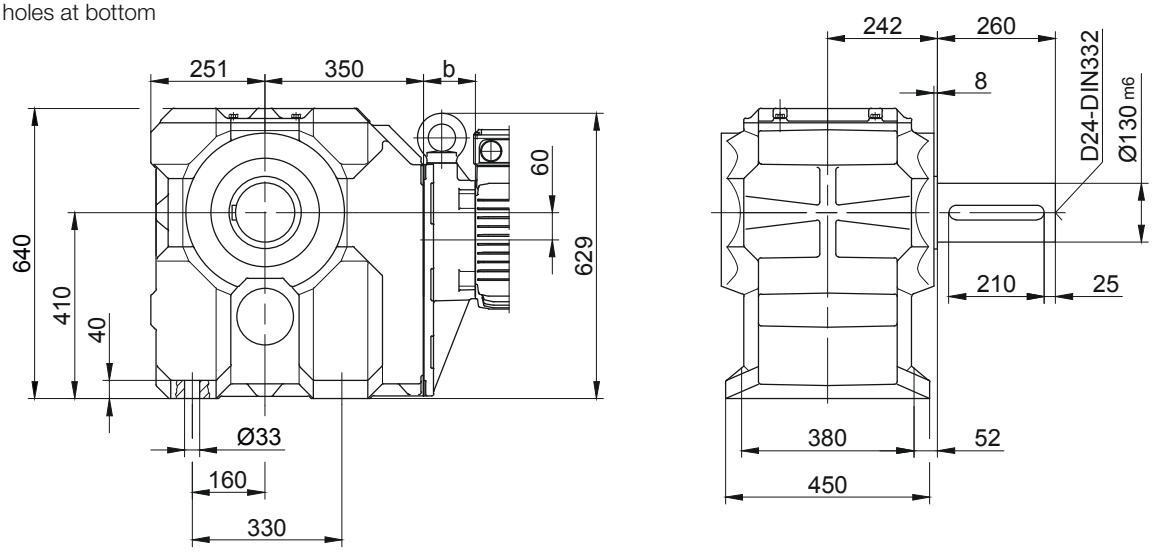
Flange with tapped holes at front

Code -7.V/



Foot with tapped holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK-series bevel-geared motors

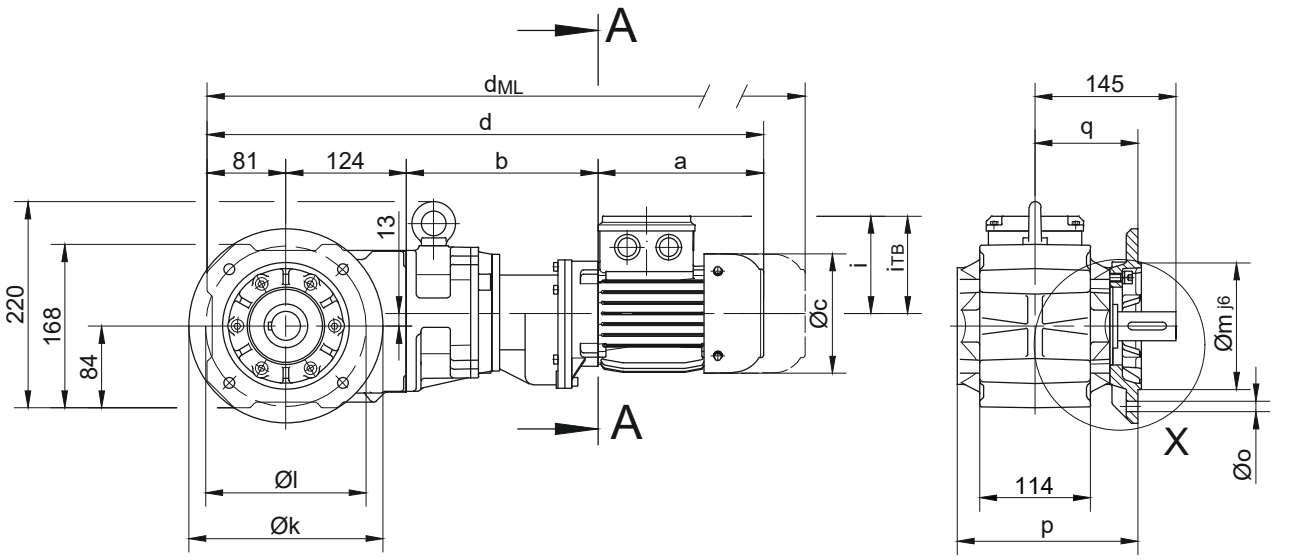
Dimension - Tandem Gearbox

BK10G06

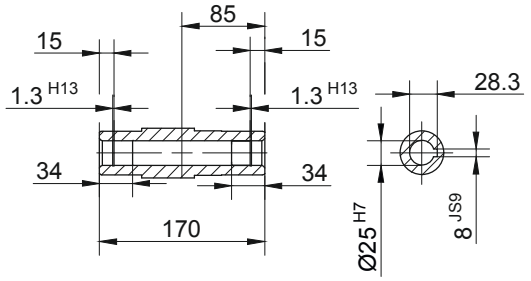
Flange with clearance holes at front

Code -3.V/

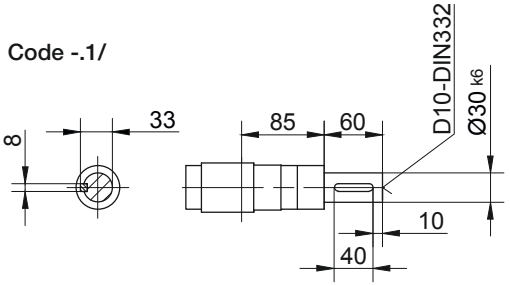
(Code -2.V/)

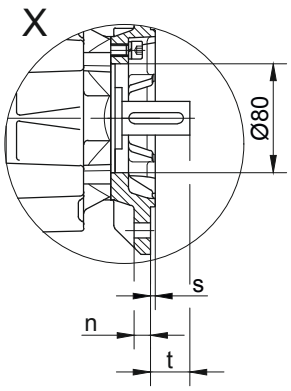


Code -.4/

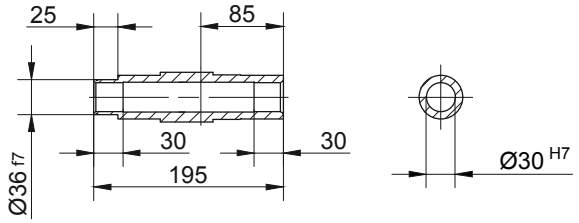


Code -.1/

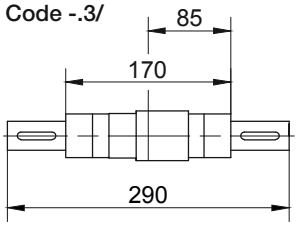


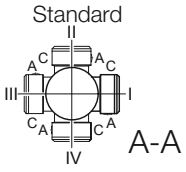


Code -.5/



Code -.3/





Flange Dimensions										
Type	Design	k	l	m	n	o	p	q	s	t
BK10..	Code -3.V/	200	165	130	12	11	186.5	106	3.5	39
BK10..	Code -2.V/	160	130	110	10	9	179.5	99	3.5	46
Dimensions in millimetres (mm)										

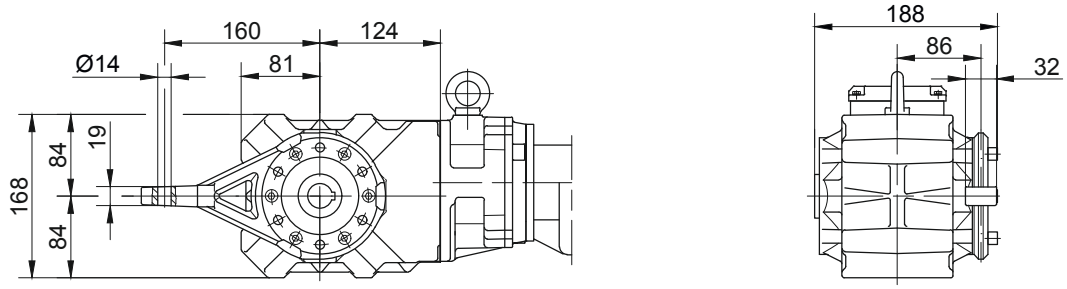
Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BK10G06-../S04S	142.5	193	110.5	540.5	90	112	584	628	671.5	-
BK10G06-../S..06 (M, L)	170.5	195	123	570.5	99	119	612.5	673	710.5	-
BK10G06-../S..08 (M, L)	199.5	239	156	643.5	114.5	136.5	709.5	755.5	817	-
Dimensions in millimetres (mm										

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK10G06

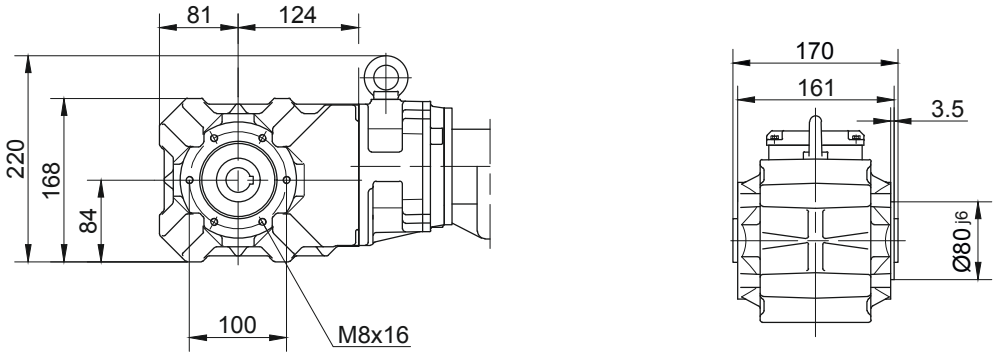
Torque arm at front

Code -5.V/



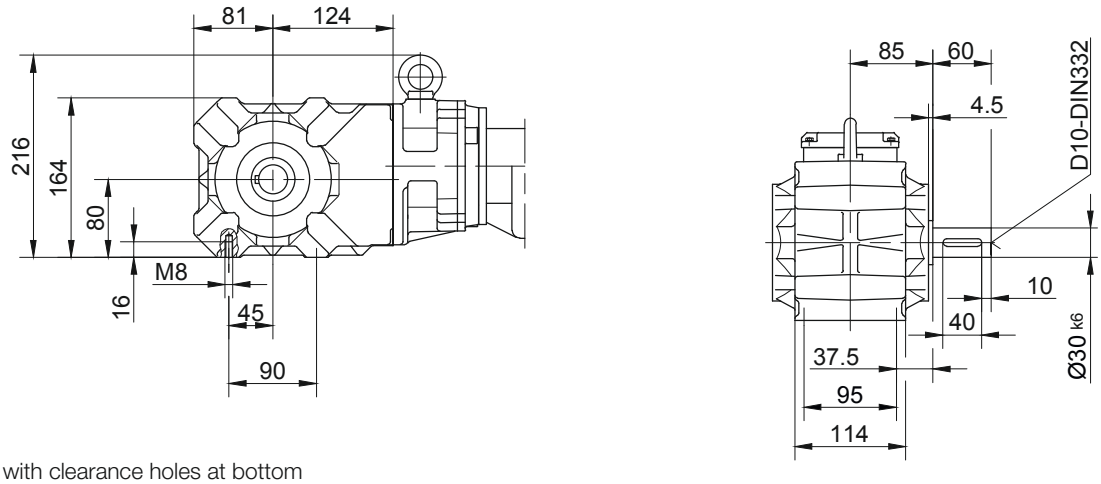
Flange with tapped holes at front

Code -7.V/



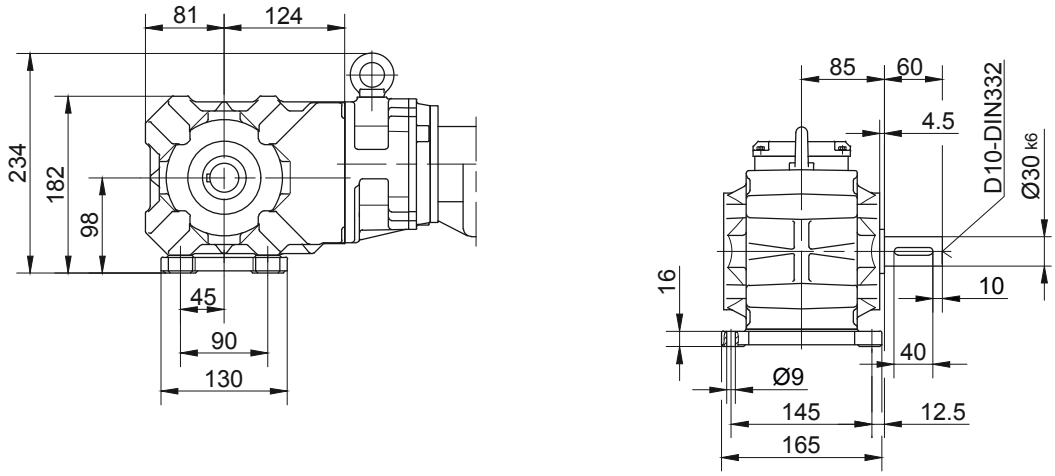
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



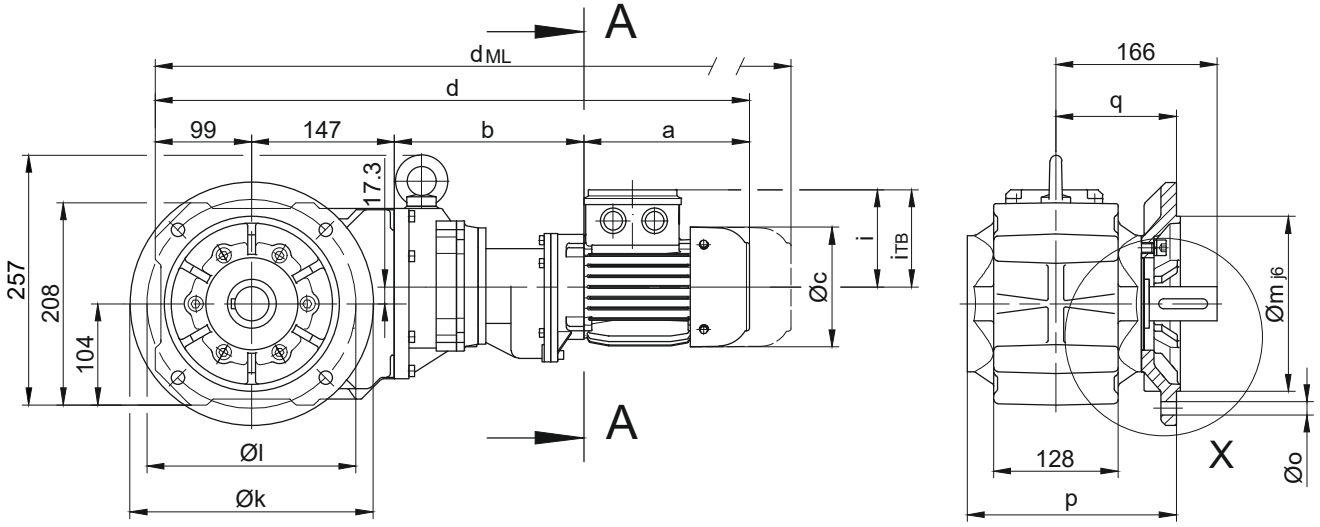
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK-series bevel-geared motors

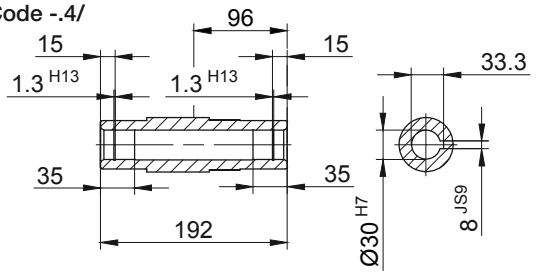
Dimension - Tandem Gearbox

BK20G06

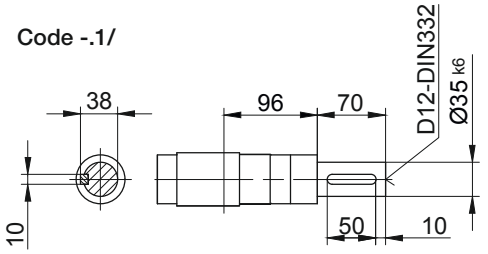
Flange with clearance holes at front
Code -3.V/
(Code -2.V/)

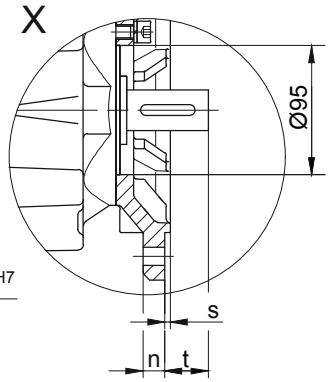


Code -.4/

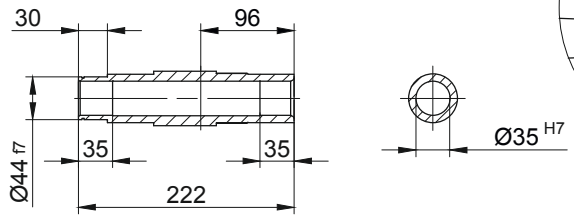


Code -.1/

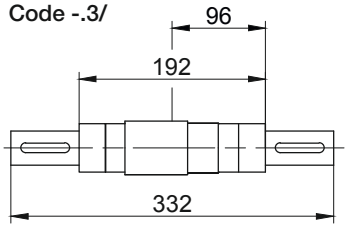


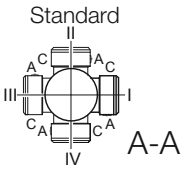


Code -.5/



Code -.3/





Flange Dimensions										
Type	Design	k	l	m	n	o	p	q	s	t
BK20..	Code -3.V/	250	215	180	16	13.5	215.5	124	4	42.5
BK20..	Code -2.V/	200	165	130	12	11	206.5	115	3.5	51
Dimensions in millimetres (mm)										

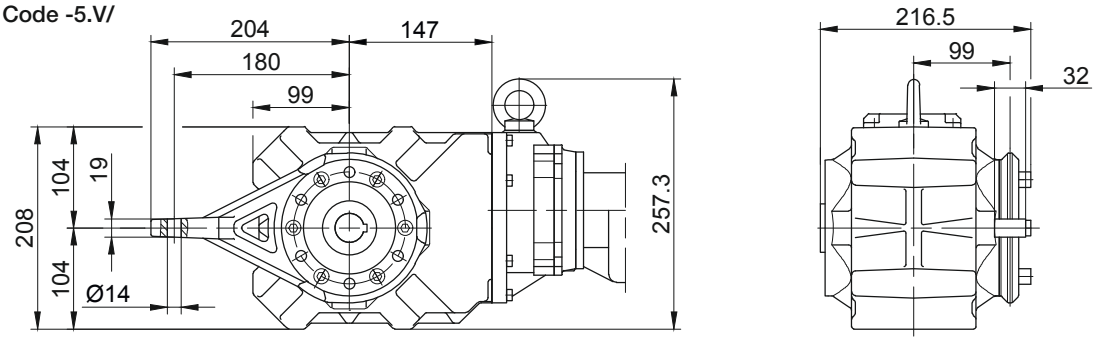
Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BK20G06-../S04S	142.5	193	110.5	581.5	90	112	625	669	712.5	-
BK20G06-../S..06 (M, L)	170.5	195	123	611.5	99	119	653.5	714	751.5	-
BK20G06-../S..08 (M, L)	199.5	239	156	684.5	114.5	136.5	750.5	796.5	858	-
Dimensions in millimetres (mm										

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK20G06

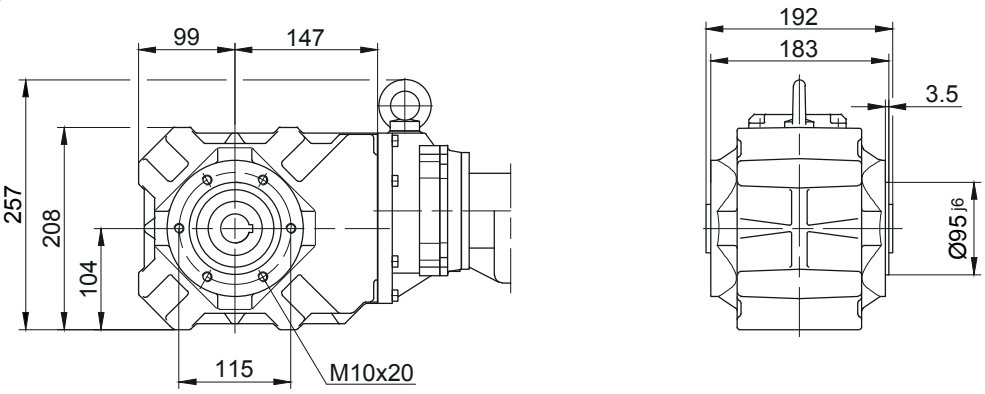
Torque arm at front

Code -5.V/



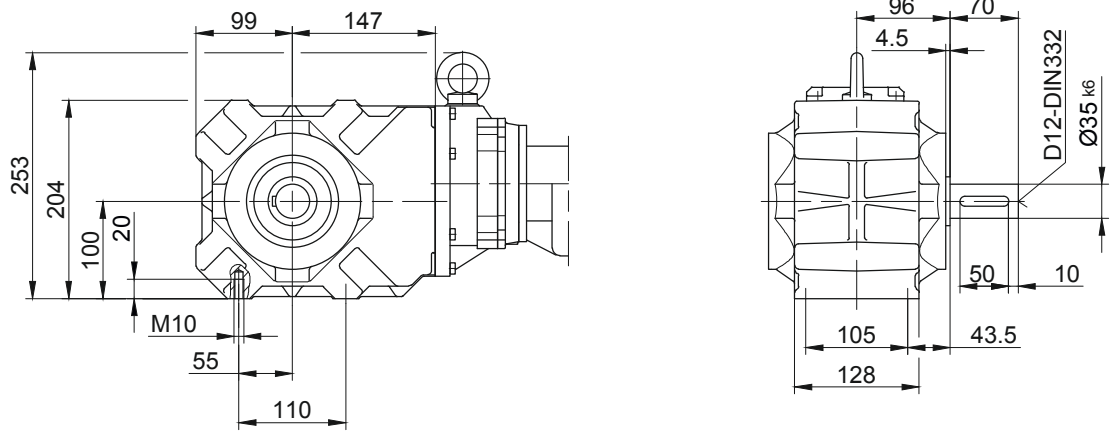
Flange with tapped holes at front

Code -7.V/



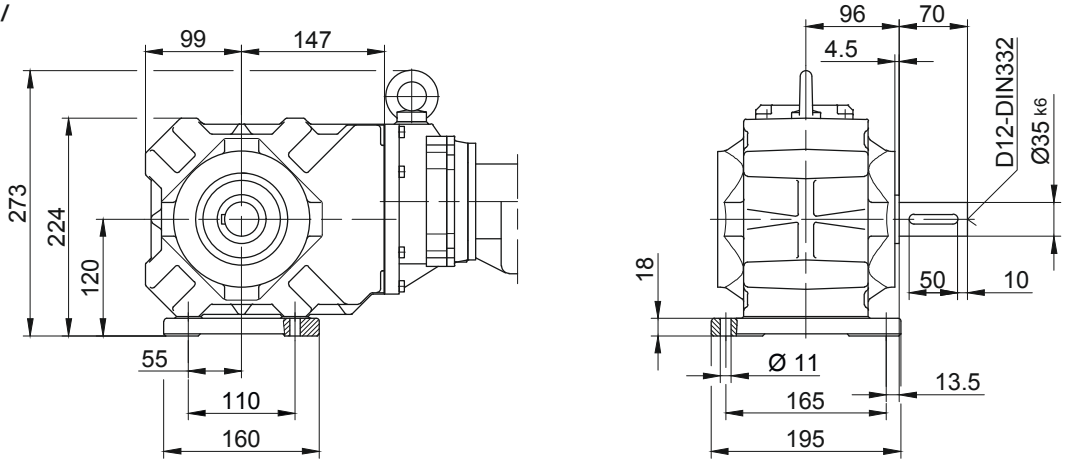
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK-series bevel-geared motors

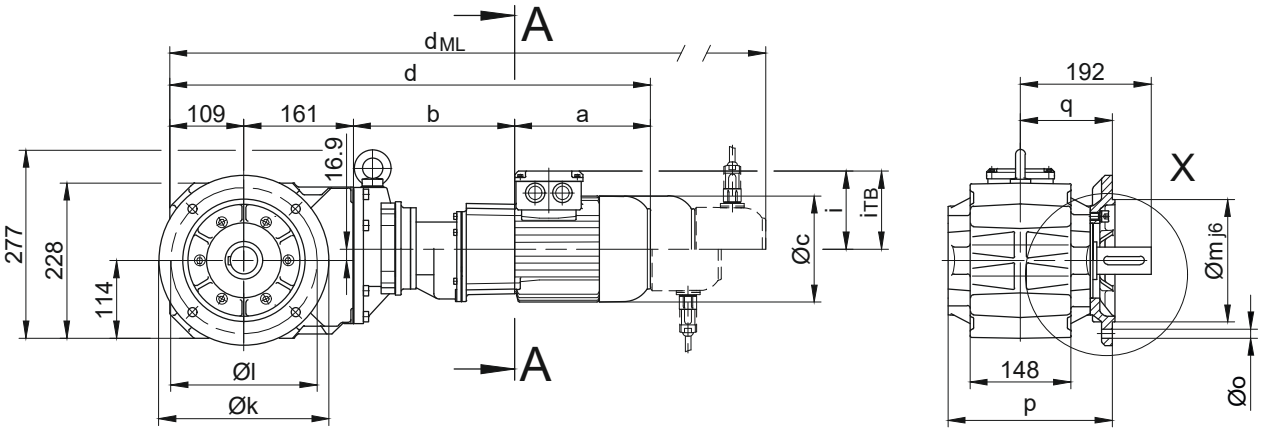
Dimension - Tandem Gearbox

BK30G06

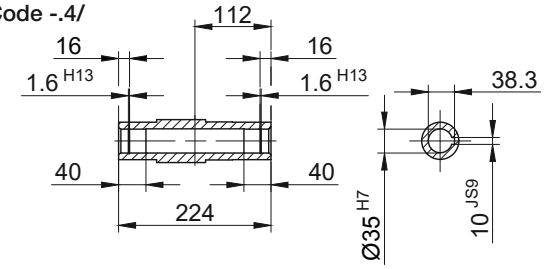
Flange with clearance holes at front

Code -3.V/

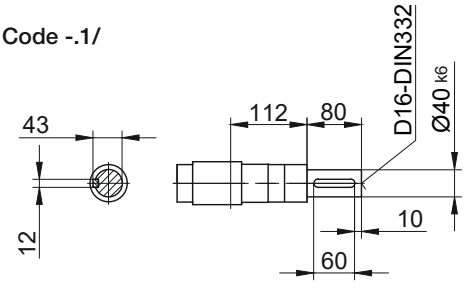
(Code -2.V/)

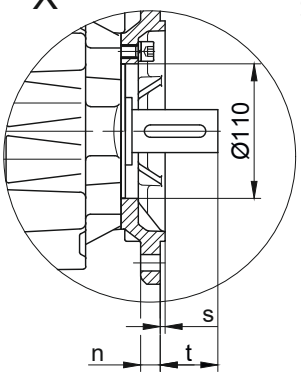


Code -.4/

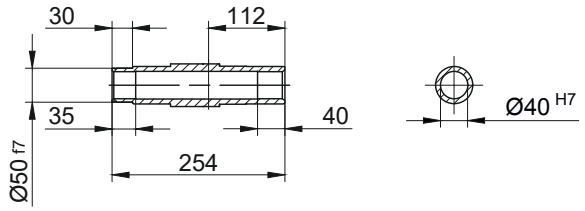


Code -.1/

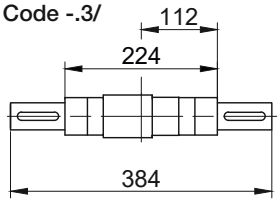


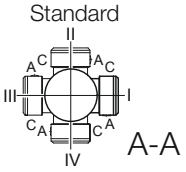


Code -.5/



Code -.3/





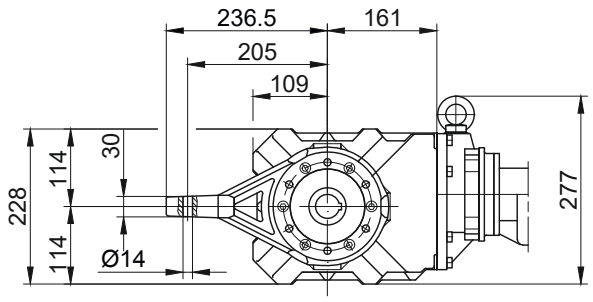
Flange Dimensions										
Type	Design	k	l	m	n	o	p	q	s	t
BK30..	Code -3.V/	250	215	180	16	13.5	242	135	4	57
BK30..	Code -2.V/	200	165	130	12	11	239	132	3.5	59.5
Dimensions in millimetres (mm)										

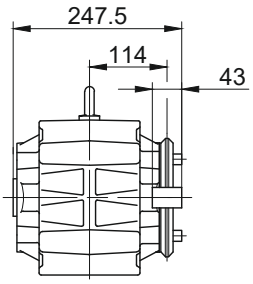
Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BK30G06-../S04S	142.5	191	110.5	603.5	90	112	647	691	734.5	-
BK30G06-../S..06 (M, L)	170.5	193	123	633.5	99	119	675.5	736	773.5	-
BK30G06-../S..08 (M, L)	199.5	237	156	706.5	114.5	136.5	772.5	818.5	880	-
Dimensions in millimetres (mm										

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

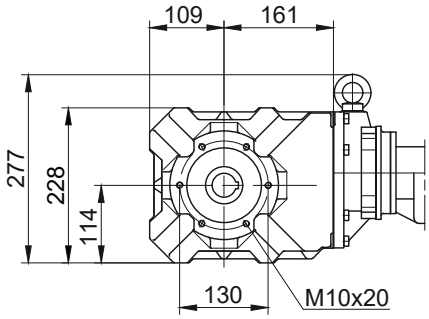
BK30G06

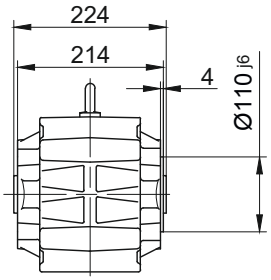
Torque arm at front
Code -5.V/



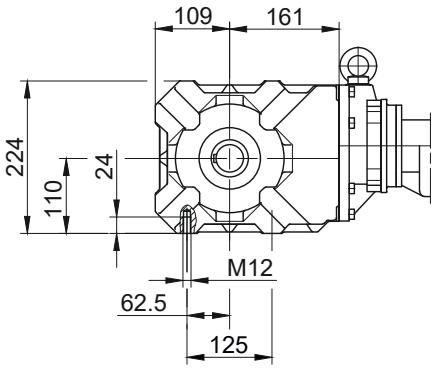


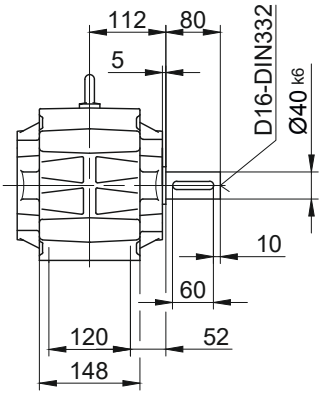
Flange with tapped holes at front
Code -7.V/



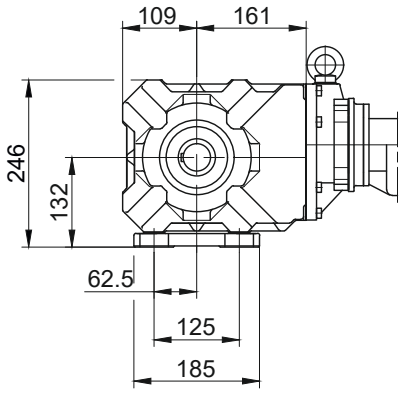


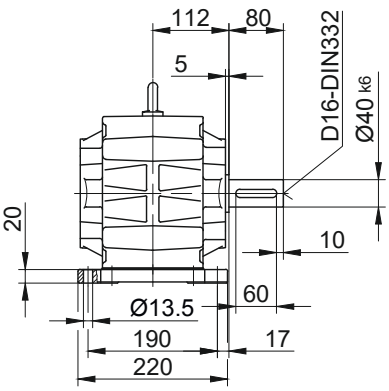
Foot with tapped holes at bottom
Code -6.U/





Foot with clearance holes at bottom
Code -1.U/





The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK-series bevel-geared motors

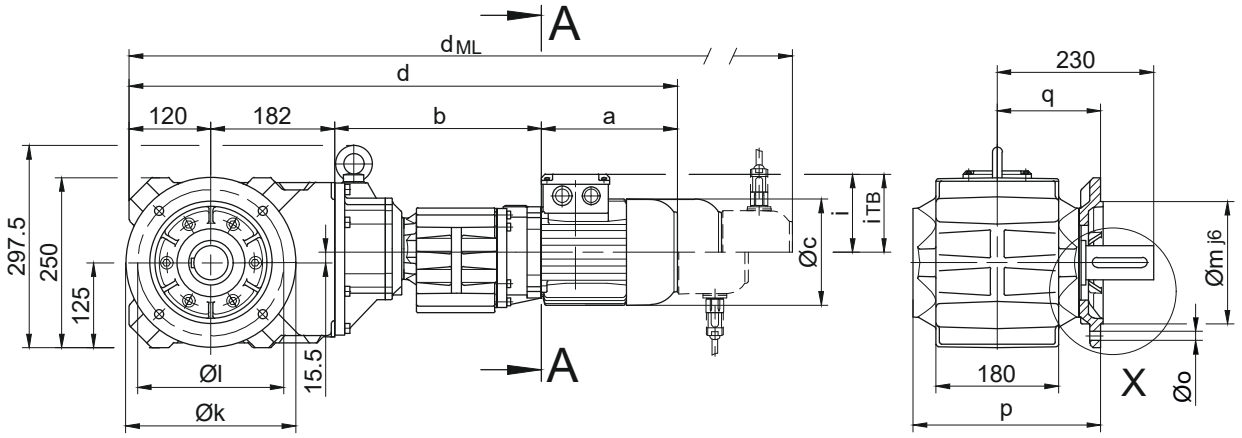
Dimension - Tandem Gearbox

BK40G10

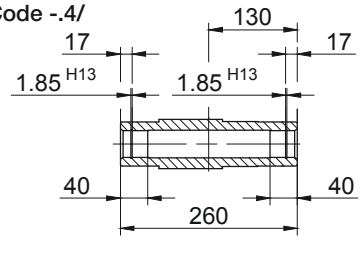
Flange with clearance holes at front

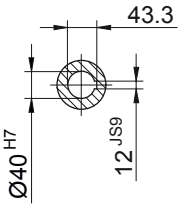
Code -3.V/

(Code -4.V/)

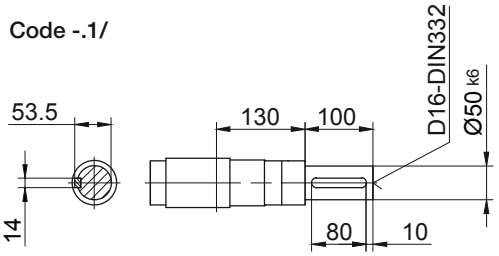


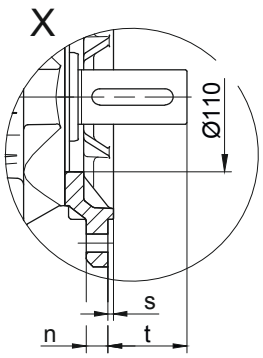
Code -.4/



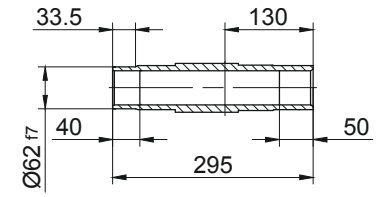


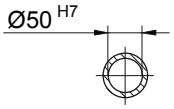
Code -.1/



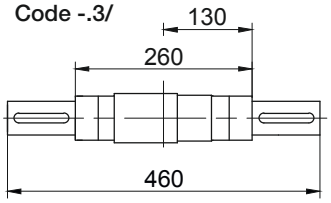


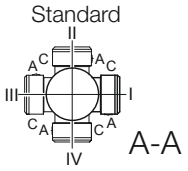
Code -.5/





Code -.3/





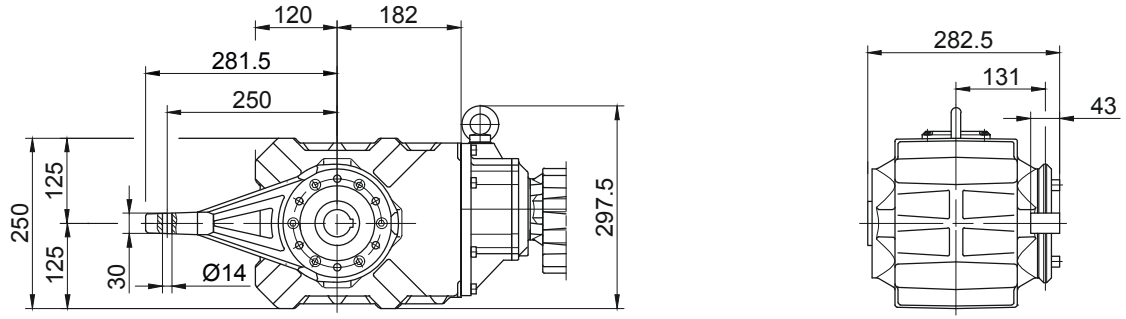
Flange Dimensions										
Type	Design	k	l	m	n	o	p	q	s	t
BK40..	Code -3.V/	250	215	180	16	13.5	276	152	4	78
BK40..	Code -4.V/	300	265	230	20	13.5	282	158	4	72
Dimensions in millimetres (mm)										

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BK40G10-../S..06 (M, L)	170.5	300	123	772.5	99	119	814.5	875	912.5	-
BK40G10-../S..08 (M, L)	199.5	304	156	805.5	114.5	136.5	871.5	917.5	979	-
BK40G10-../S..09 (S, X)	250.5	318.5	176	871	124	157	964	978.5	1068	-
Dimensions in millimetres (mm										

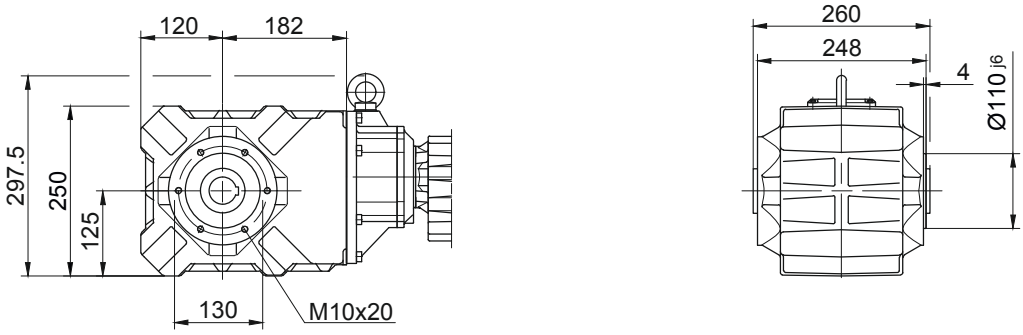
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK40G10

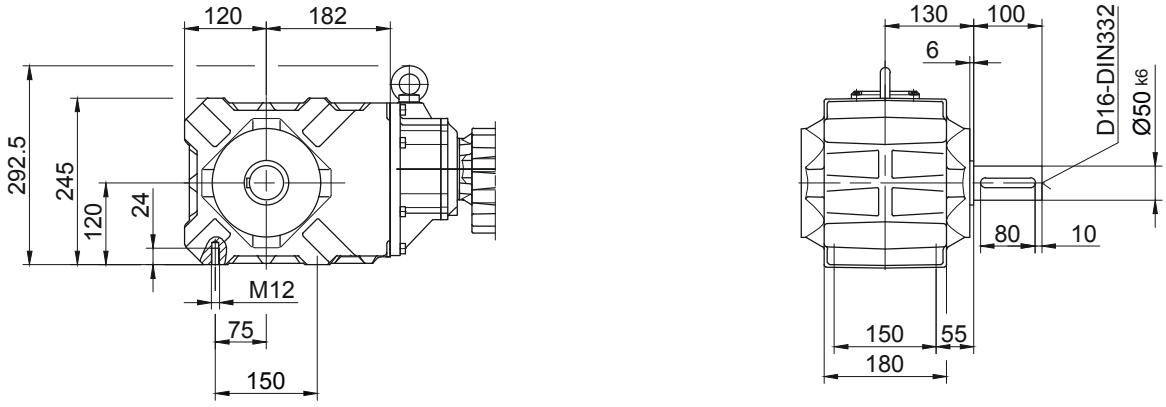
Torque arm at front
Code -5.V/



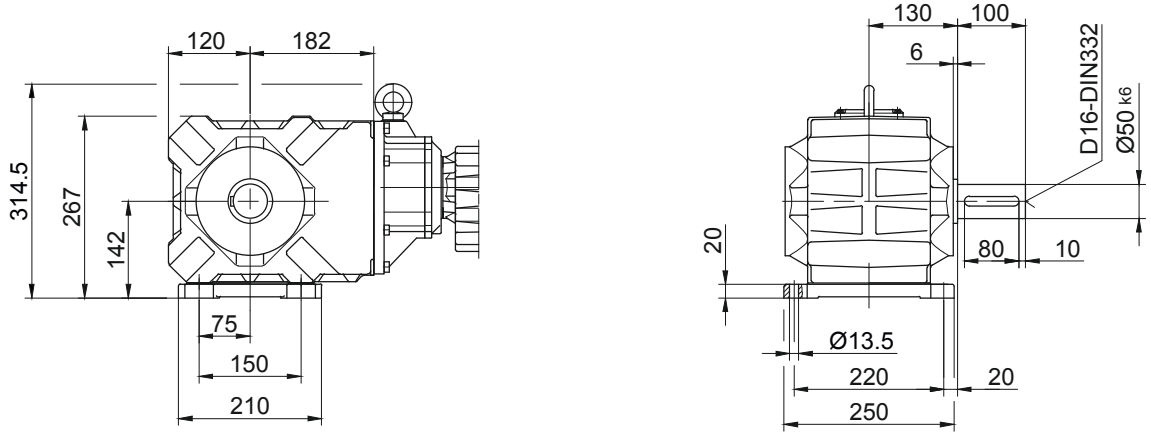
Flange with tapped holes at front
Code -7.V/



Foot with tapped holes at bottom
Code -6.U/



Foot with clearance holes at bottom
Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK-series bevel-geared motors

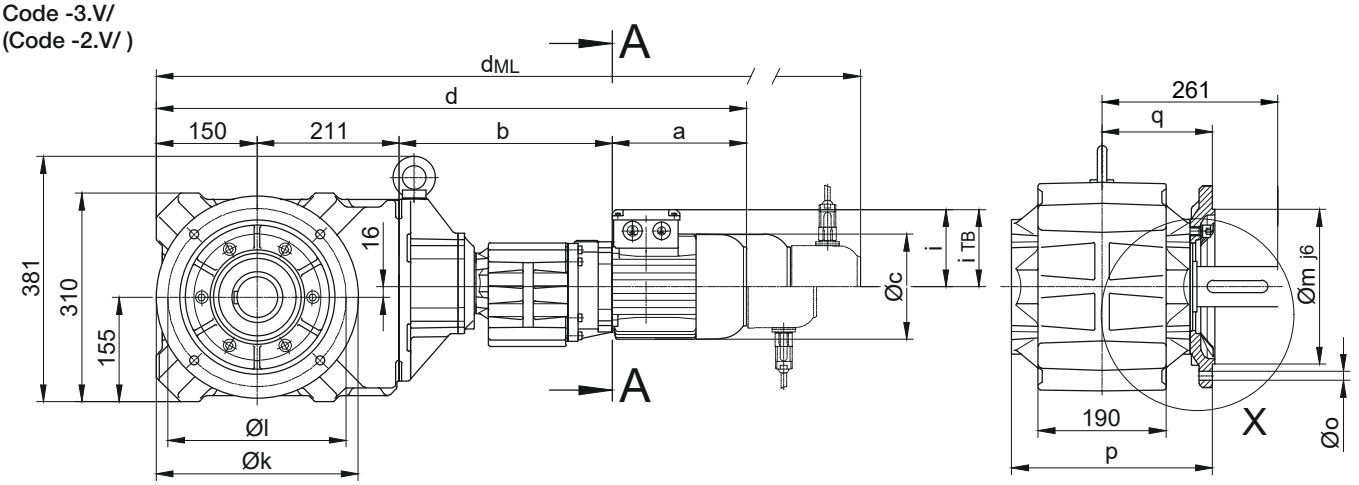
Dimension - Tandem Gearbox

BK50G10

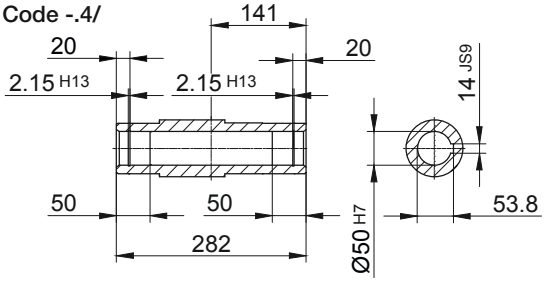
Flange with clearance holes at front

Code -3.V/

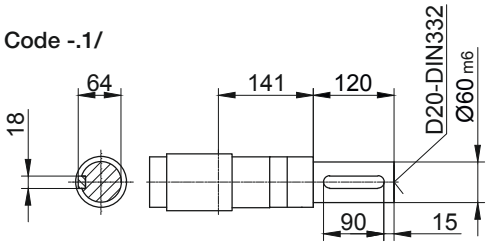
(Code -2.V/)

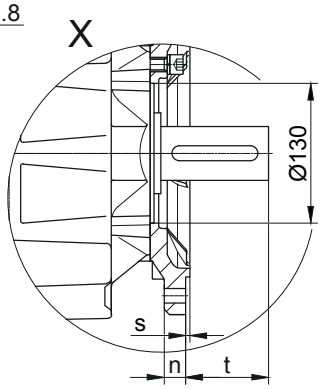


Code -.4/

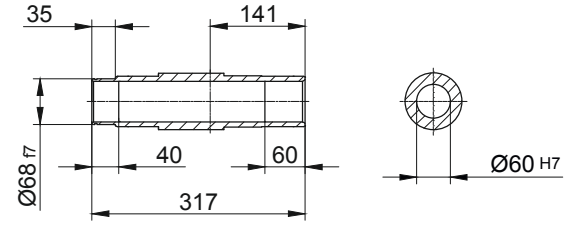


Code -.1/

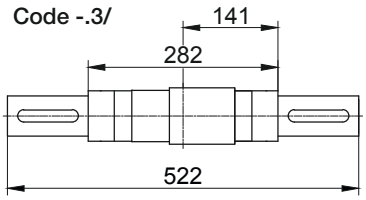


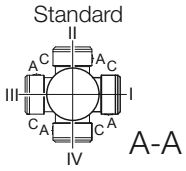


Code -.5/



Code -.3/





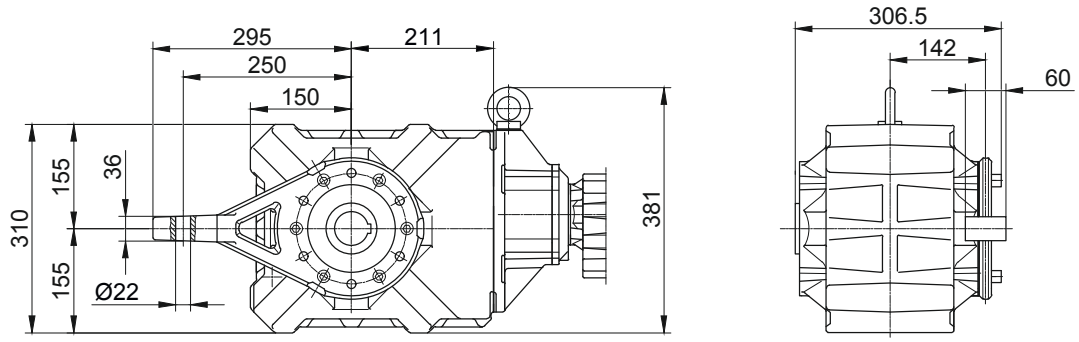
Flange Dimensions										
Type	Design	k	l	m	n	o	p	q	s	t
BK50..	Code -3.V/	300	265	230	20	13.5	299	164	4	97
BK50..	Code -2.V/	250	215	180	16	13.5	296	161	4	100
Dimensions in millimetres (mm)										

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BK50G10-../S..06 (M, L)	170.5	313	123	844.5	99	119	886.5	947	984.5	-
BK50G10-../S..08 (M, L)	199.5	317	156	877.5	114.5	136.5	943.5	989.5	1051	-
BK50G10-../S..09 (S, X)	250.5	331.5	176	943	124	157	1036	1050.5	1140	-
Dimensions in millimetres (mm										

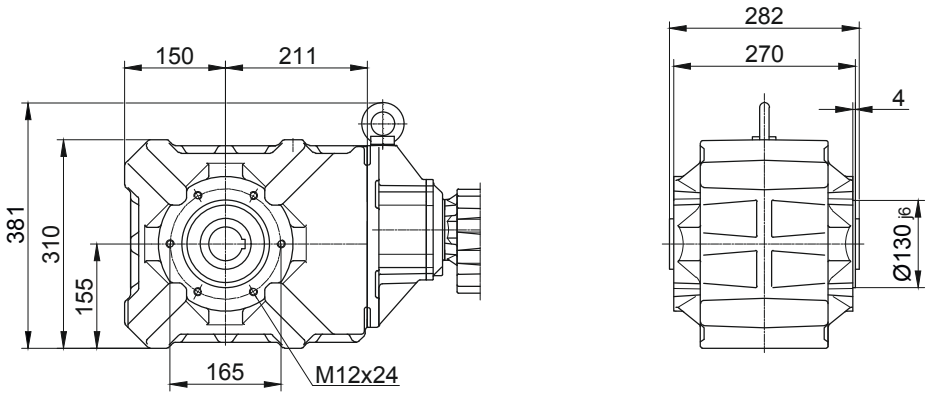
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK50G10

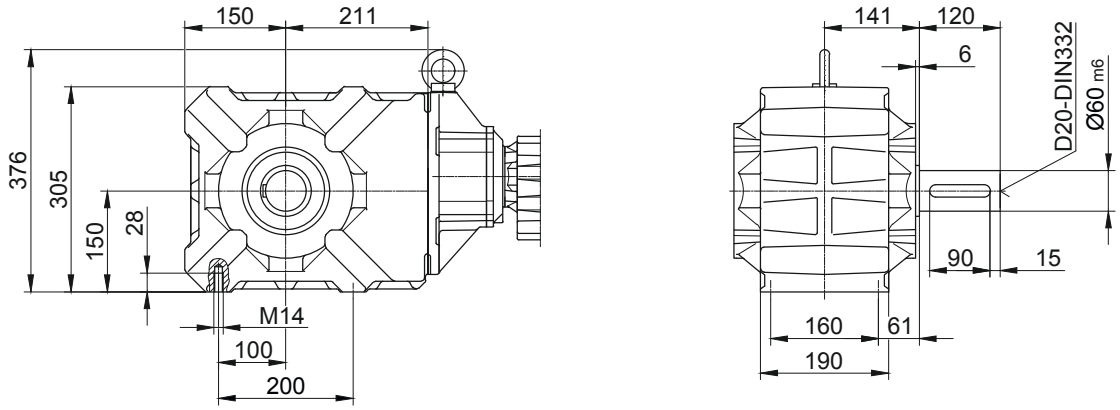
Torque arm at front
Code -5.V/



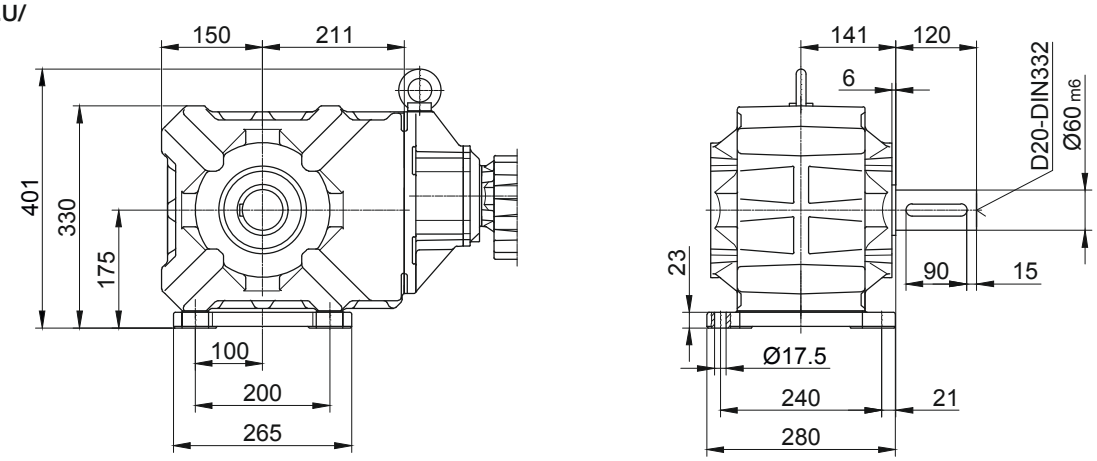
Flange with tapped holes at front
Code -7.V/



Foot with tapped holes at bottom
Code -6.U/



Foot with clearance holes at bottom
Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK-series bevel-geared motors

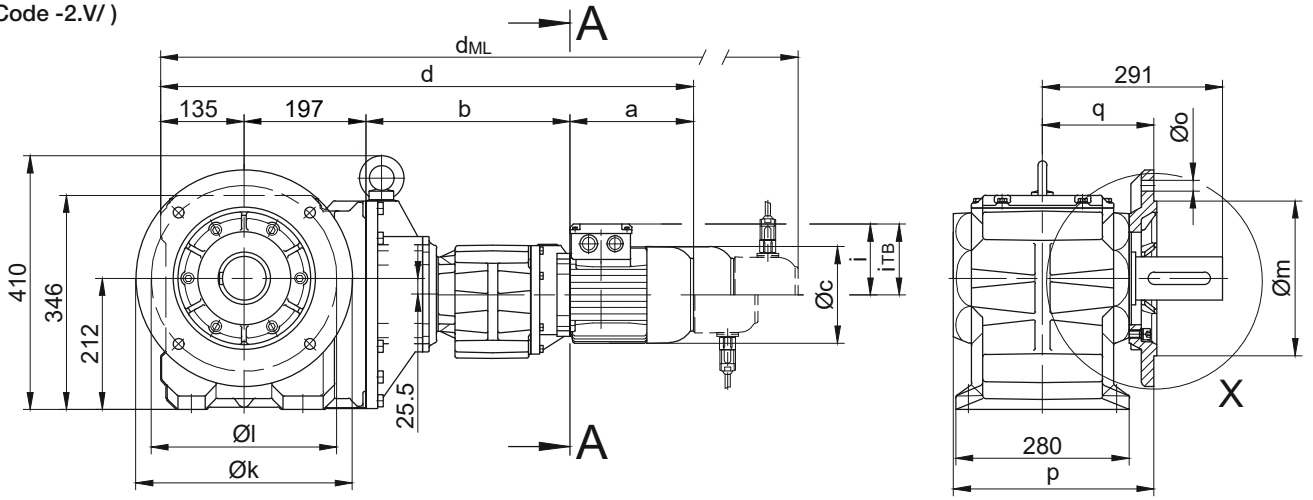
Dimension - Tandem Gearbox

BK60G20

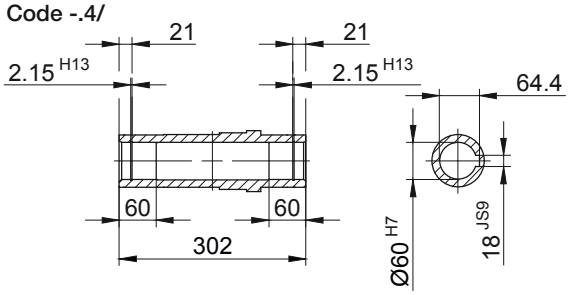
Flange with clearance holes at front

Code -3.V/

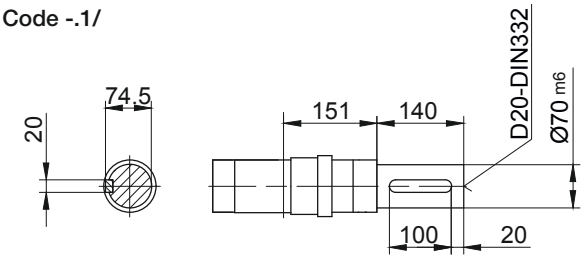
(Code -2.V/)

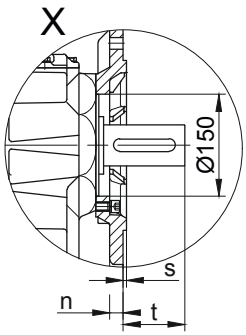


Code -.4/

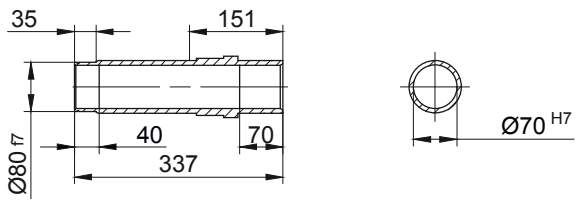


Code -.1/

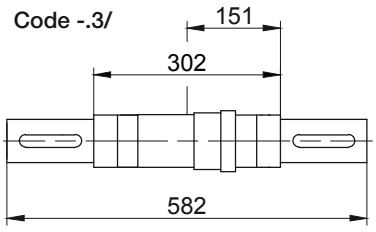


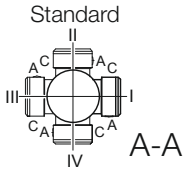


Code -.5/



Code -.3/





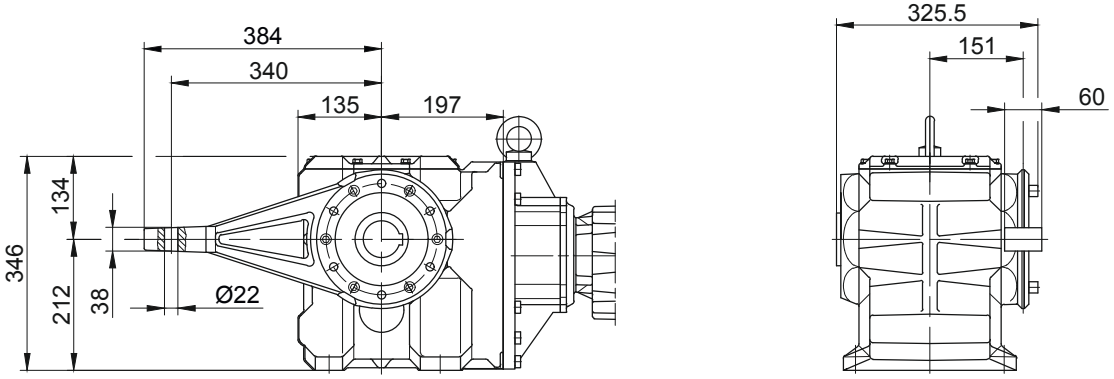
Flange Dimensions										
Type	Design	k	l	m	n	o	p	q	s	t
BK60..	Code -3.V/	350	300	250	20	17.5	324	180	5	112
BK60..	Code -2.V/	300	265	230	20	13.5	332	188	4	103
Dimensions in millimetres (mm)										

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BK60G20-../S..06 (M, L)	170.5	326	123	828.5	99	119	870.5	931	968.5	-
BK60G20-../S..08 (M, L)	199.5	330	156	861.5	114.5	136.5	927.5	973.5	1035	-
BK60G20-../S..09 (S, X)	250.5	344.5	176	927	124	157	1020	1034.5	1124	-
Dimensions in millimetres (mm										

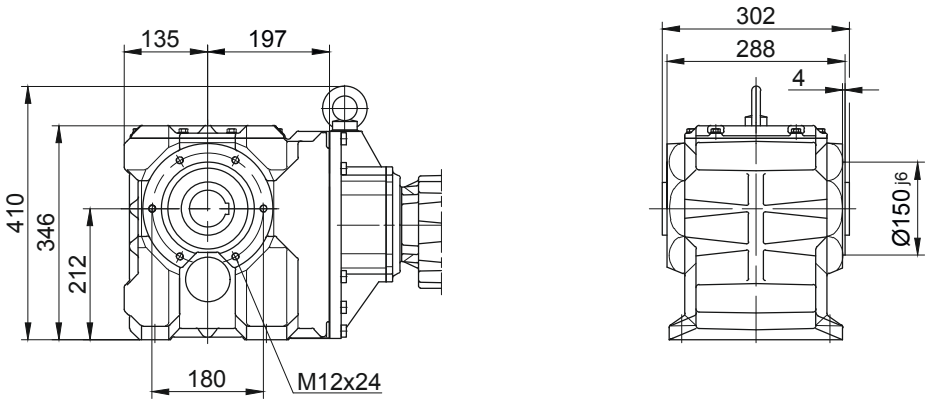
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK60G20

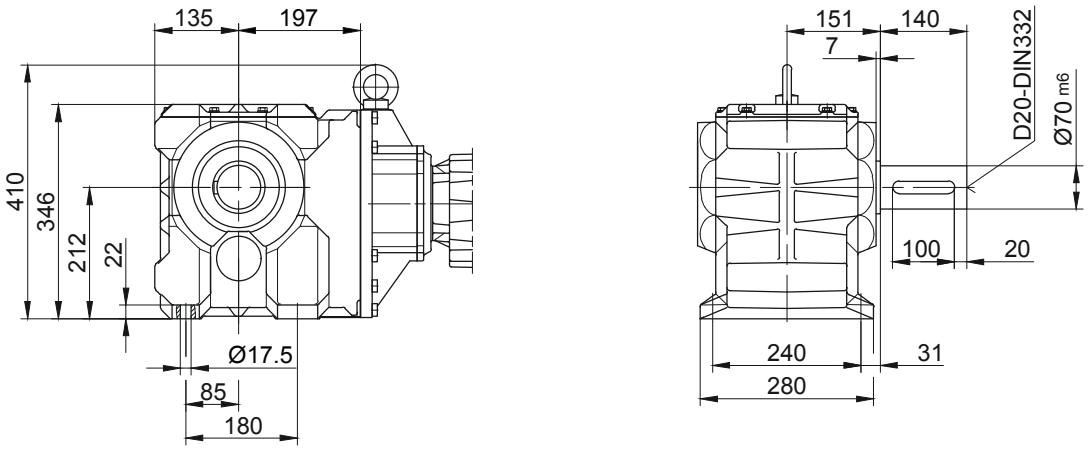
Torque arm at front
Code -5.V/



Flange with tapped holes at front
Code -7.V/



Foot with clearance holes at bottom
Code -1.U/



12

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

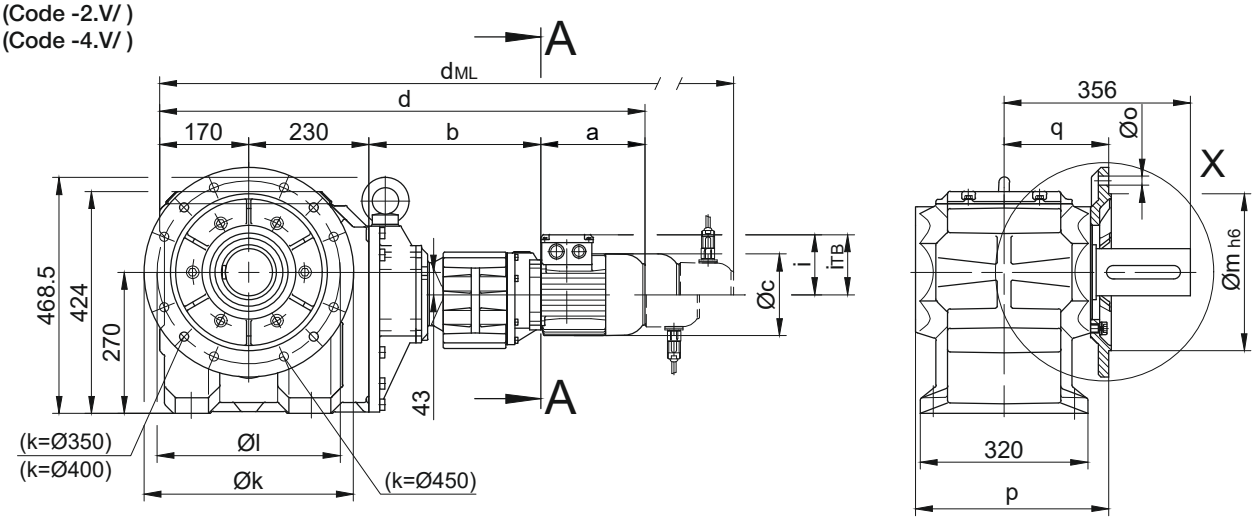
BK-series bevel-geared motors

Dimension - Tandem Gearbox

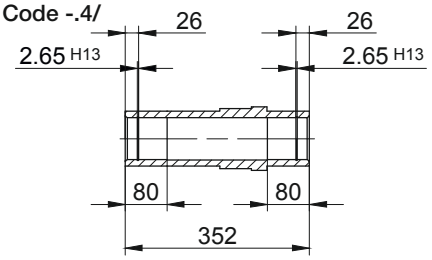
BK70G20

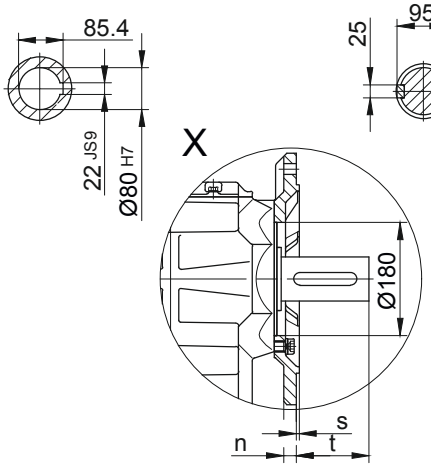
Flange with clearance holes at front

Code -3.V/
(Code -2.V/)
(Code -4.V/)

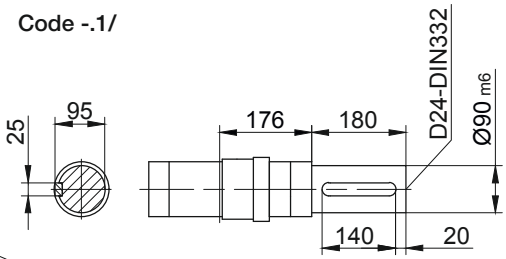


Code -.4/

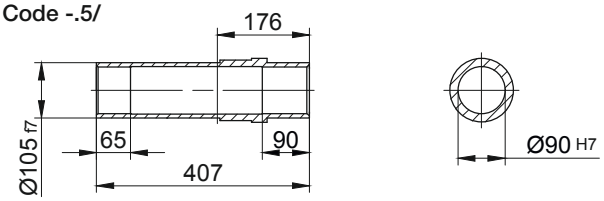




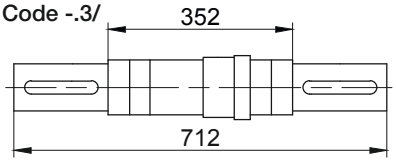
Code -.1/

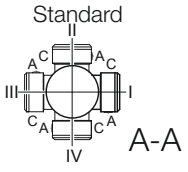


Code -.5/



Code -.3/





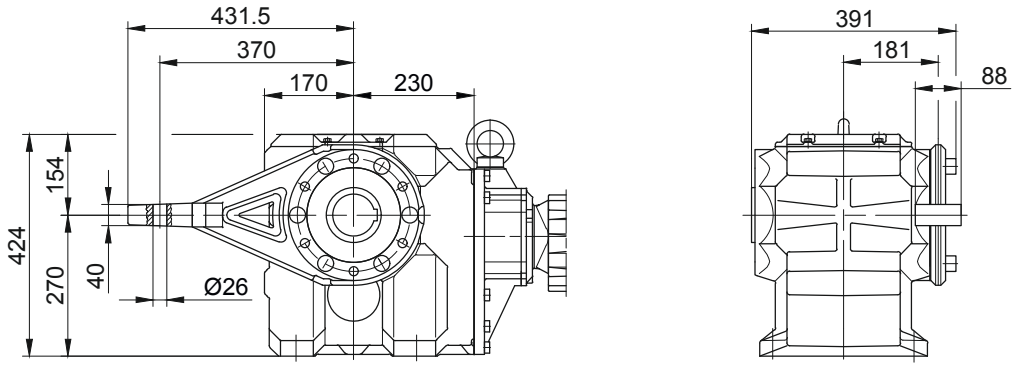
Flange Dimensions										
Type	Design	k	l	m	n	o	p	q	s	t
BK70..	Code -3.V/	400	350	300	20	4 x 17.5	369	200	5	157
BK70..	Code -2.V/	350	300	250	20	4 x 17.5	369	200	5	157
BK70..	Code -4.V/	450	400	350	22	4 x 17.5	379	210	5	147
Dimensions in millimetres (mm)										

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BK70G20-../S..06 (M, L)	170.5	326	123	896.5	99	119	938.5	999	1036.5	-
BK70G20-../S..08 (M, L)	199.5	330	156	929.5	114.5	136.5	995.5	1041.5	1103	-
BK70G20-../S..09 (S, X)	250.5	344.5	176	995	124	157	1088	1102.5	1192	-
Dimensions in millimetres (mm										

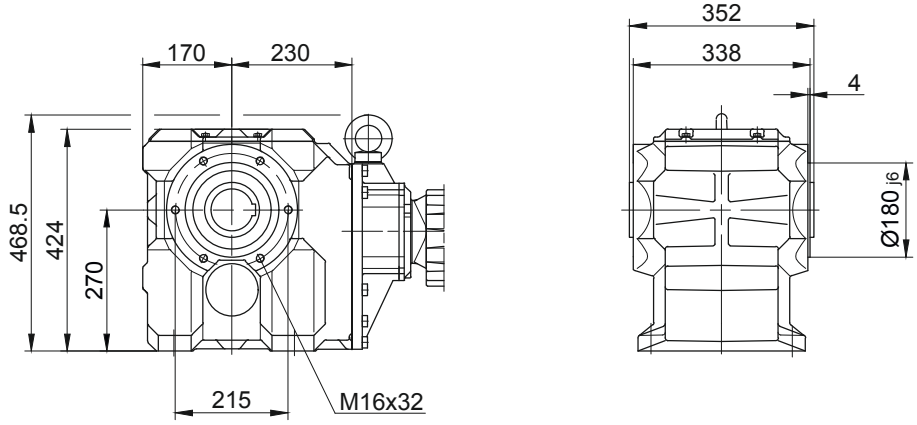
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK70G20

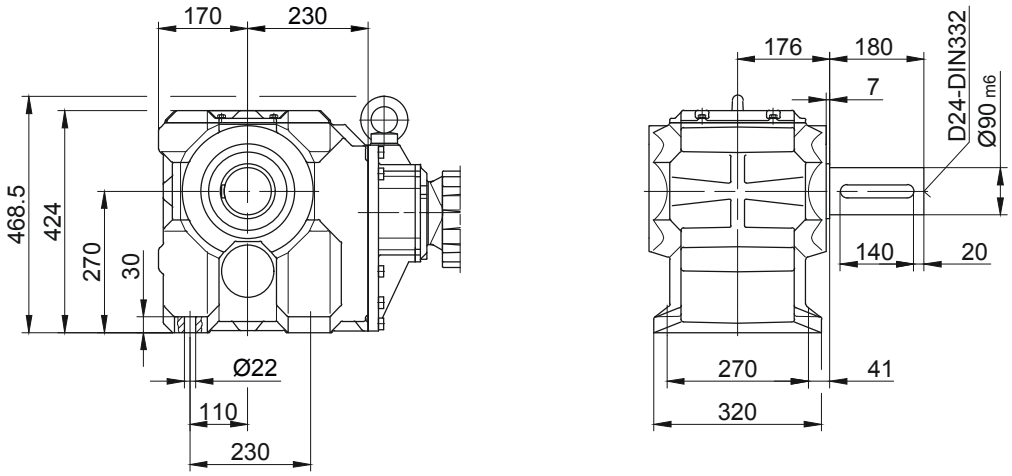
Torque arm at front
Code -5.V/



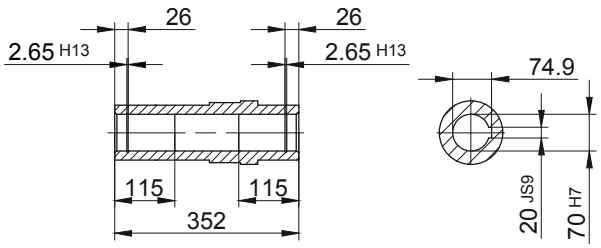
Flange with tapped holes at front
Code -7.V/



Foot with clearance holes at bottom
Code -1.U/



Code -.4/K70



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

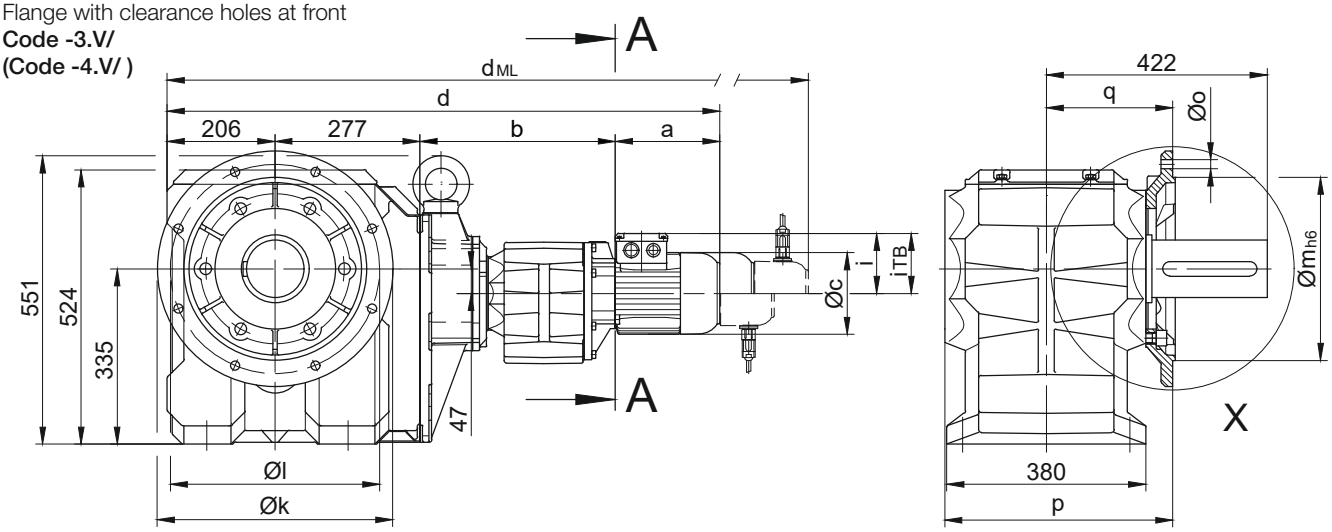
BK-series bevel-geared motors

Dimension - Tandem Gearbox

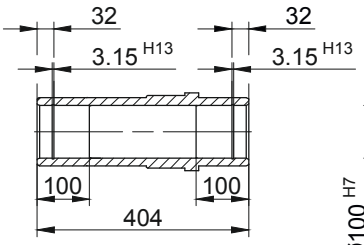
BK80G40

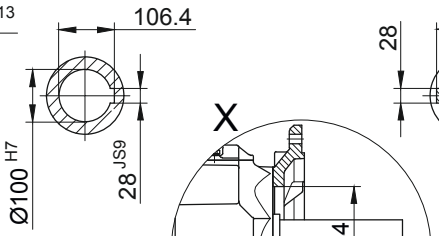
Flange with clearance holes at front

Code -3.V/
(Code -4.V/)

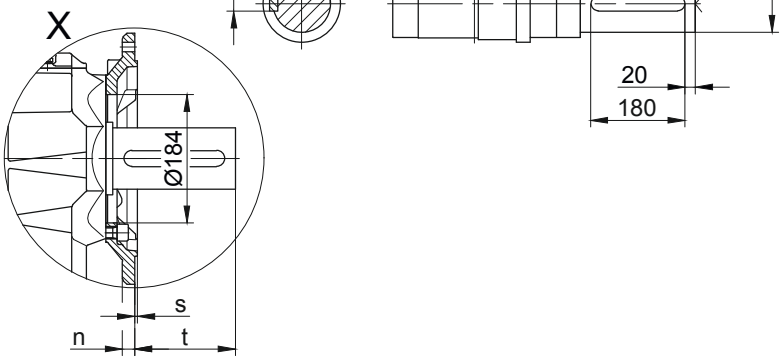


Code -.4/

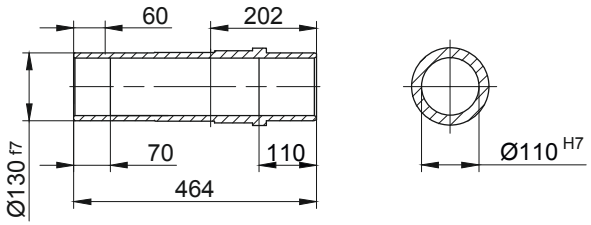




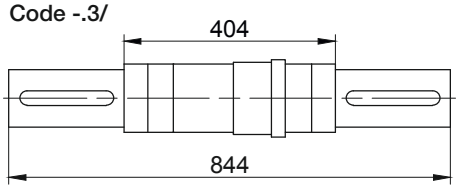
Code -.1/

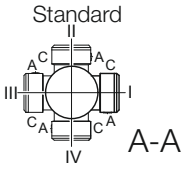


Code -.5/



Code -.3/





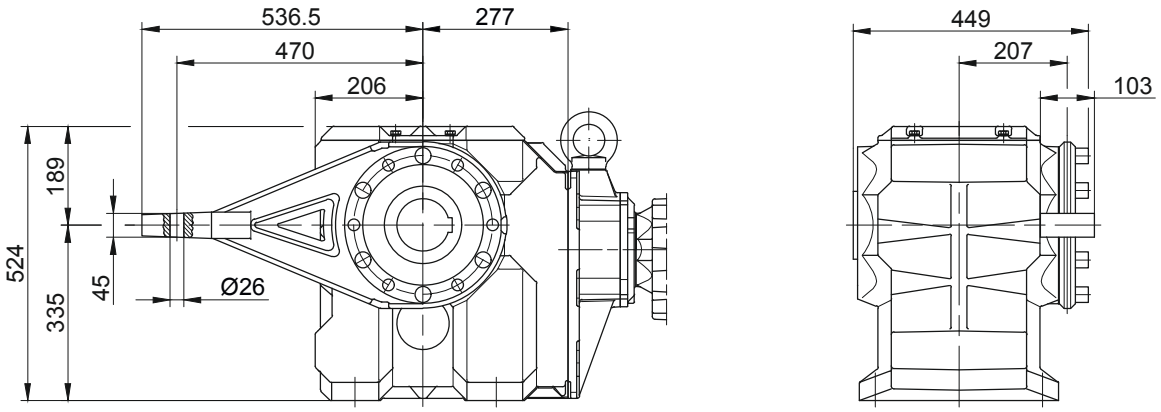
Flange Dimensions										
Type	Design	k	l	m	n	o	p	q	s	t
BK80..	Code -3.V/	450	400	350	22	17.5	439	245	5	178
BK80..	Code -4.V/	550	500	450	22	17.5	444	250	5	173
Dimensions in millimetres (mm)										

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BK80G40-../S..08 (M, L)	199.5	357	156	1039.5	114.5	136.5	1105.5	1151.5	1213	-
BK80G40-../S..09 (S, X)	250.5	371.5	176	1105	124	157	1198	1212.5	1302	-
BK80G40-../S..11 (S, M, L)	319	378	218	1180	165	176	1278	1287.5	1380	-
Dimensions in millimetres (mm										

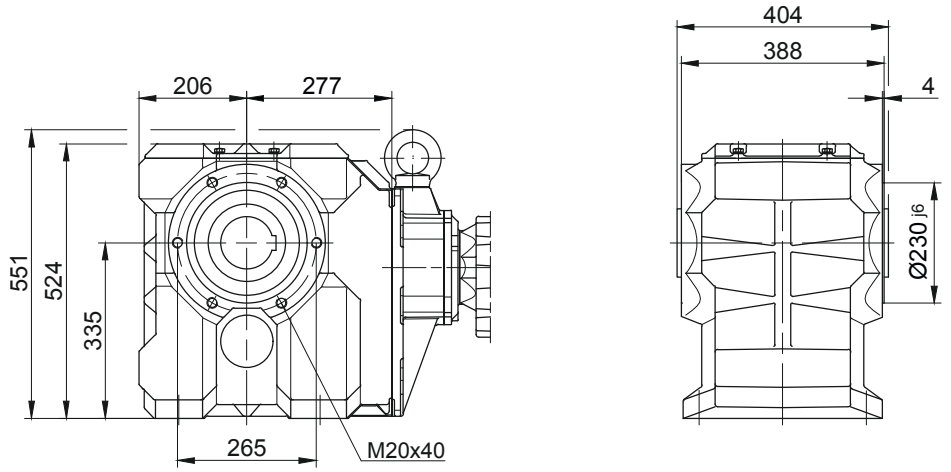
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK80G40

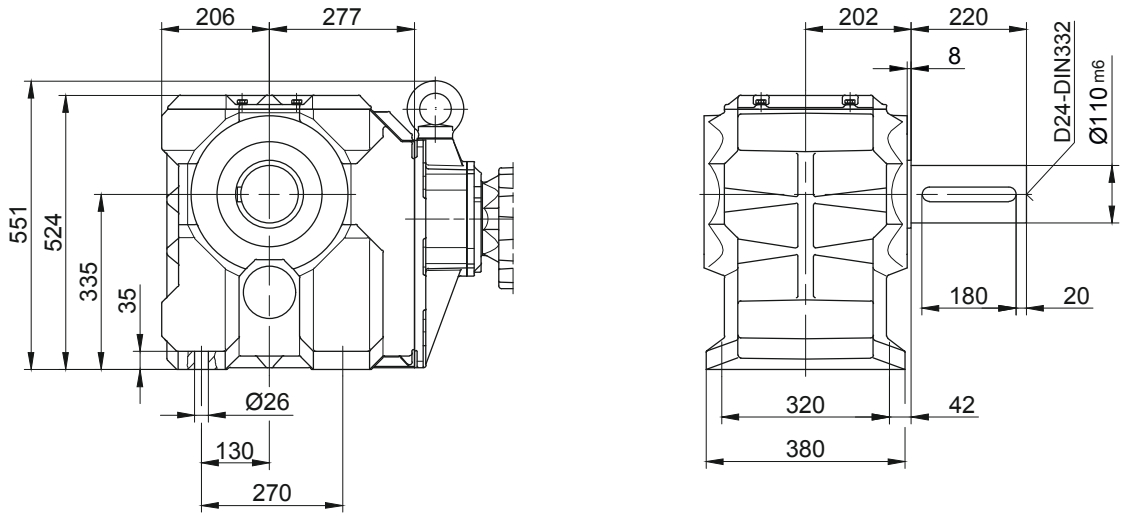
Torque arm at front
Code -5.V/



Flange with tapped holes at front
Code -7.V/



Foot with clearance holes at bottom
Code -1.U/



12

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

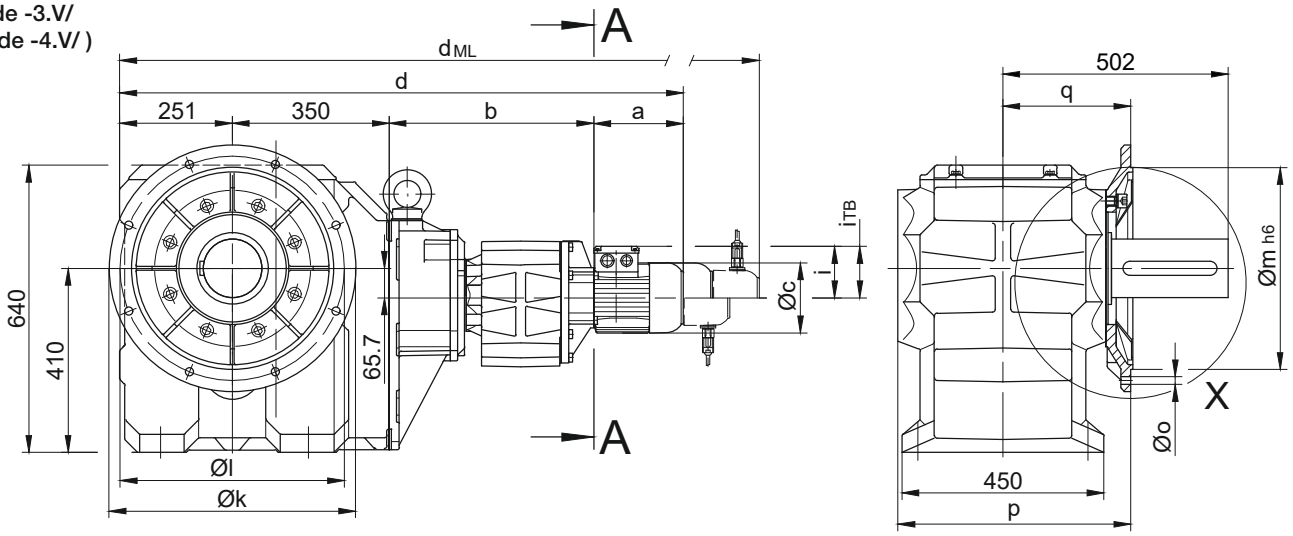
BK-series bevel-geared motors

Dimension - Tandem Gearbox

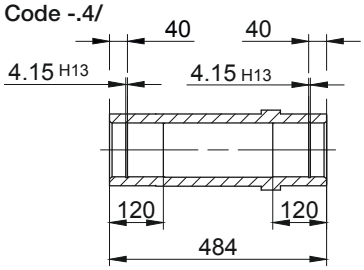
BK90G50

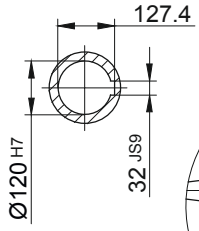
Flange with clearance holes at front

Code -3.V/
(Code -4.V/)

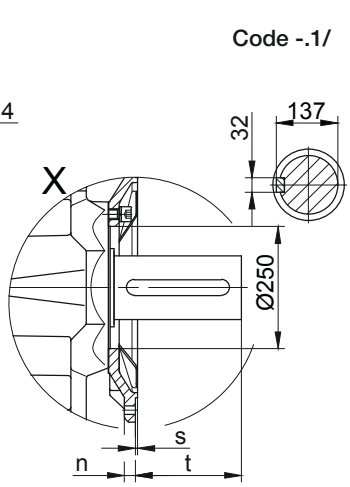


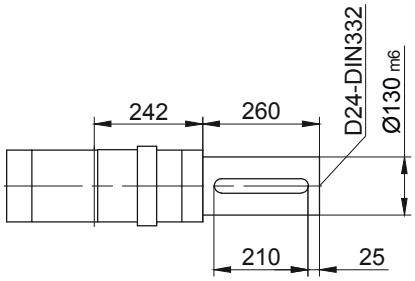
Code -.4/



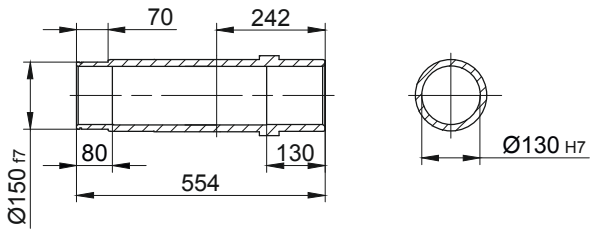


Code -.1/

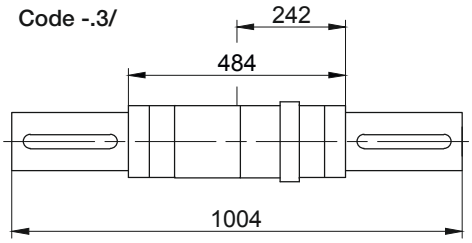


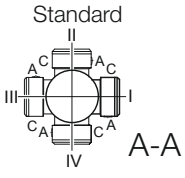


Code -.5/



Code -.3/





Flange Dimensions										
Type	Design	k	l	m	n	o	p	q	s	t
BK90..	Code -3.V/	550	500	450	22	17.5	519	285	5	218
BK90..	Code -4.V/	660	600	550	25	22	513	279	6	225
Dimensions in millimetres (mm)										

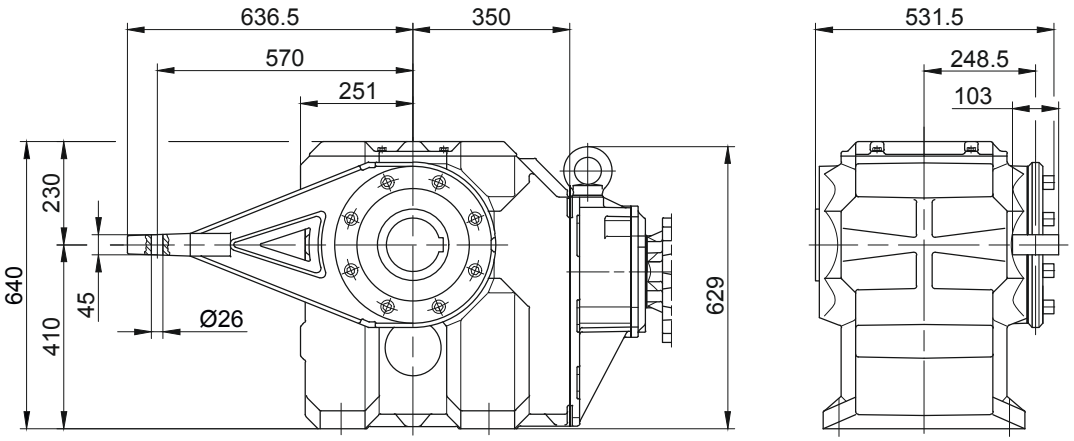
Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BK90G50-../S..08 (M, L)	199.5	427	156	1227.5	114.5	136.5	1293.5	1339.5	1401	-
BK90G50-../S..09 (S, X)	250.5	441.5	176	1293	124	157	1386	1400.5	1490	-
BK90G50-../S..11 (S, M, L)	319	448	218	1368	165	176	1466	1475.5	1568	-
Dimensions in millimetres (mm										

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK90G50

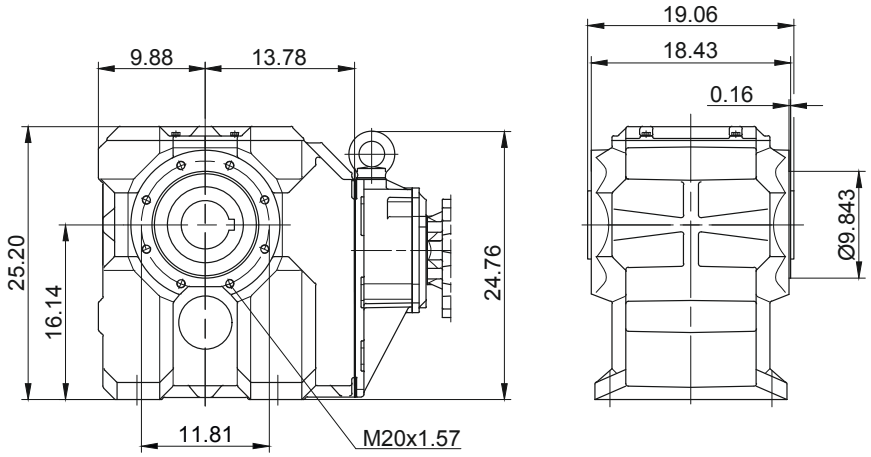
Torque arm at front

Code -5.V/



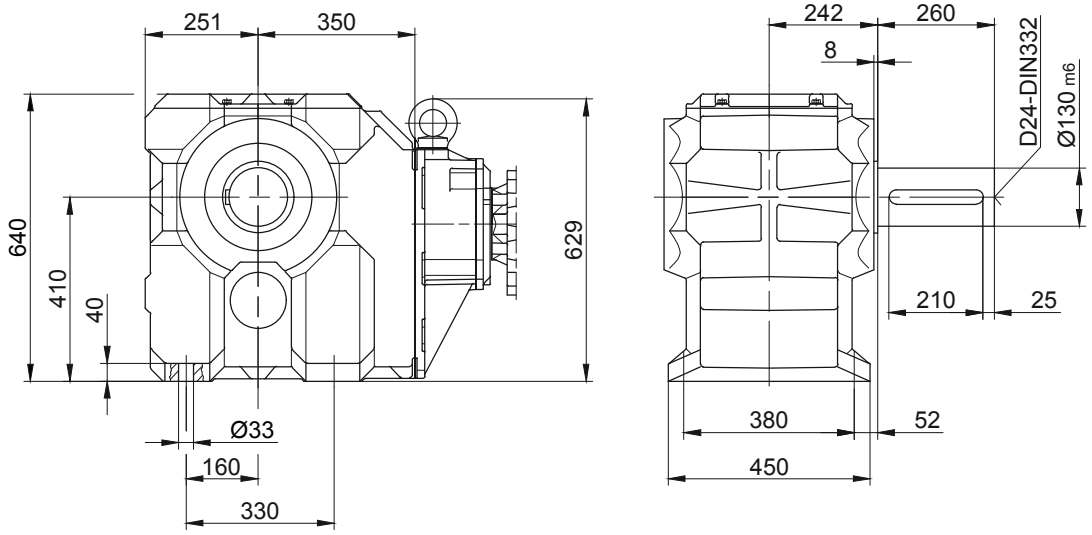
Flange with tapped holes at front

Code -7.V/



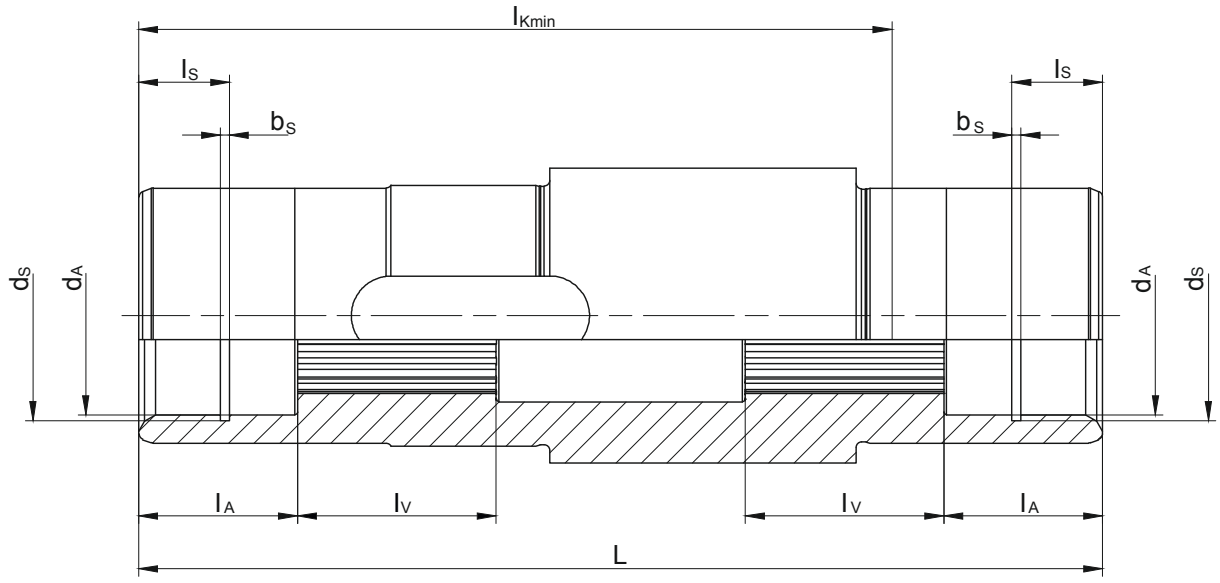
Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Splined shaft

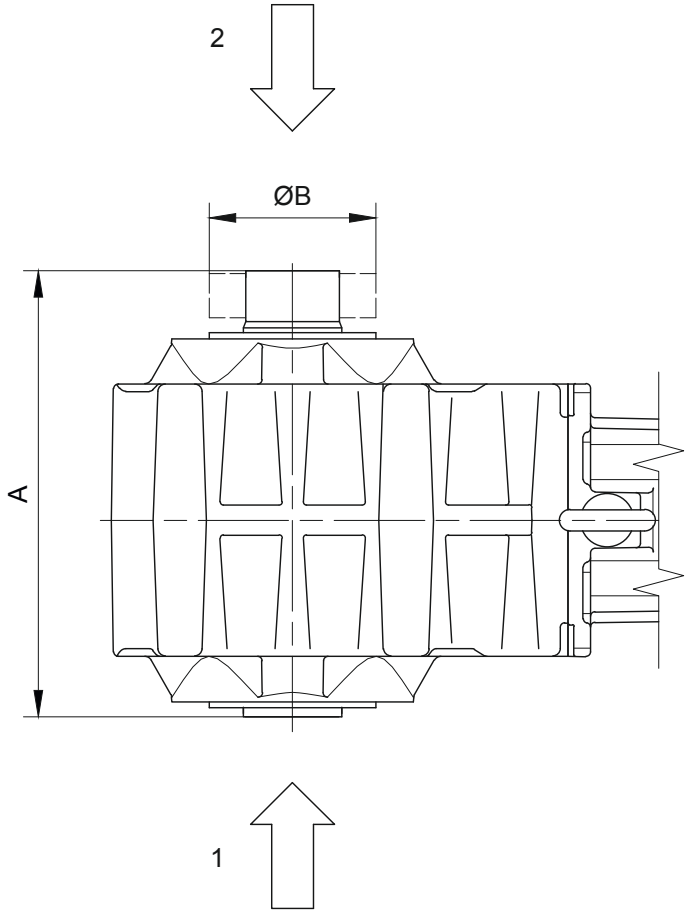


Type	Splined shaft acc. to DIN 5480	d_A	l_A	l_V	l_{Kmin}	L	d_S	l_S	b_S
BK10	N30x1.25x22x9H	35^{G7}	28	35	132	170	37^{H12}	16	1.6^{H13}
BK20	N35x2x16x9H	36^{G7}	28	35	154	192	37^{H12}	16	1.6^{H13}
BK30	N40x2x18x9H	41^{G7}	25	42	179	224	42.5^{H12}	17	1.85^{H13}
BK40	N50x2x24x9H	51^{G7}	25	49	214	260	53^{H12}	17	2.15^{H13}
BK50	N60x2x28x9H	61^{G7}	25	58	229	282	63^{H12}	17	2.15^{H13}
BK60	N70x2x34x9H	72^{G7}	25	72	248	302	75^{H12}	17	2.65^{H13}
BK70	N85x3x27x9H	86^{G7}	26	100	295	352	88.5^{H12}	17	3.15^{H13}
BK80	N110x3x35x9H	112^{G7}	60	90	335	404	116^{H12}	30	4.15^{H13}
BK90	N130x5x24x9H	131.5^{G7}	60	110	410	484	134^{H12}	30	4.15^{H13}
Dimensions in millimetres (mm)									

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Shrink disc couplings (SSV)

(Code BK10-.5/...)
(Code BK10Z-.5/...)



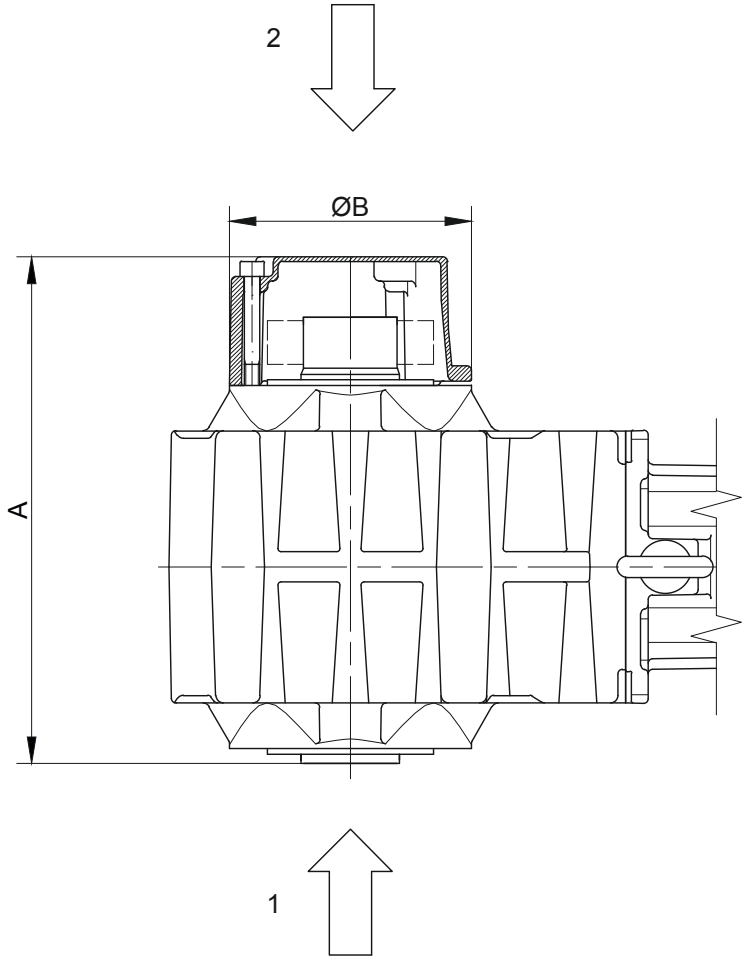
1 Gear side FRONT (V)
2 Gear side REAR (H)

Type	SSV Ringfeder	SSV STÜWE	A	B
BK06	RfN 4161 024x050	HSD 24-22x24	118	50
BK10	RfN 4161 036x072	HSD 36-22x36	195	72
BK20	RfN 4161 044x080	HSD 44-22x44	222	80
BK30	RfN 4161 050x090	HSD 50-22x50	254	90
BK40	RfN 4161 062x110	HSD 62-22x62	295	110
BK50	RfN 4161 068x115	HSD 68-22x68	317	115
BK60	RfN 4161 080x141	HSD 80-22x80	337	140
BK70	RfN 4161 105x185	HSD 110-22x105	407	185
BK80	RfN 4161 130x215	HSD 125-22x130	464	215
BK90	RfN 4161 150x263	HSD 155-22x150	554	263
Dimensions in millimetres (mm)				

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Shrink disc connection with cover (SSV)

(Code BK10-.5A/...)
(Code BK10Z-.5A/...)

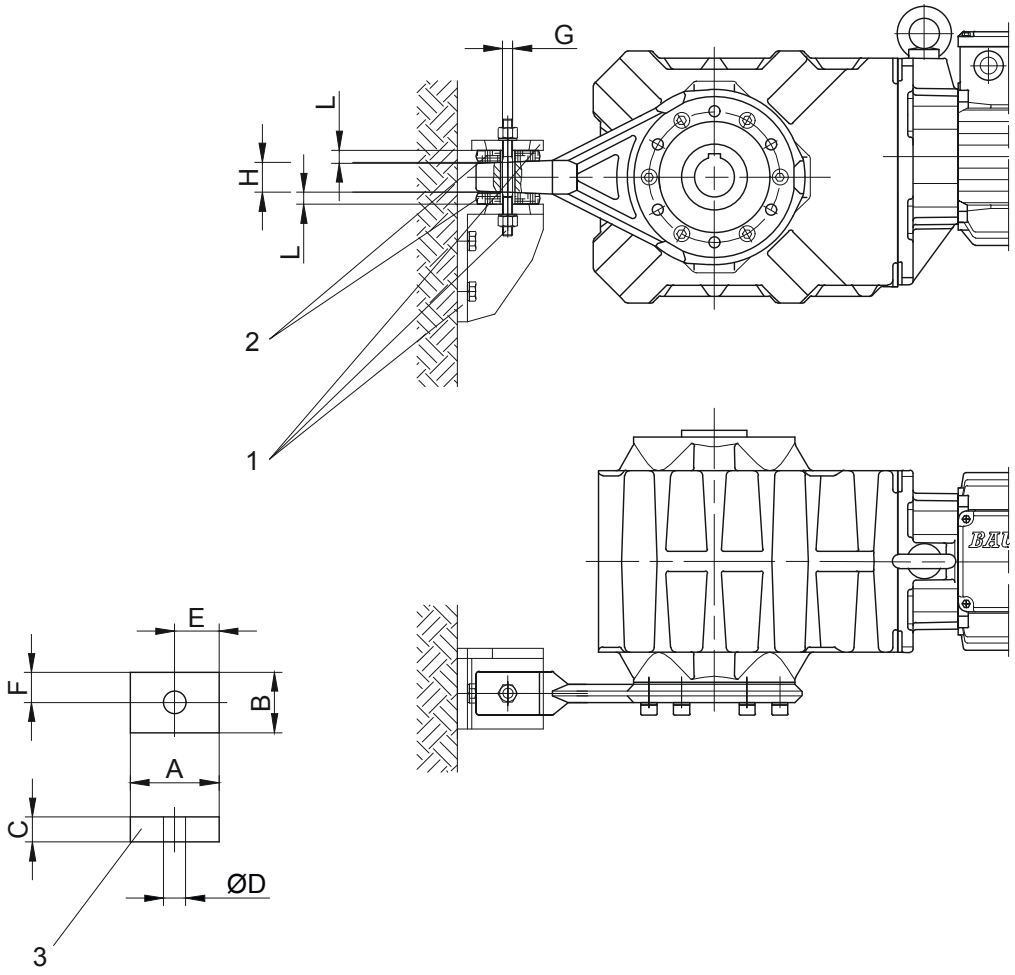


1 Gear side FRONT (V)
2 Gear side REAR (H)

Type	SSV Ringfeder	SSV STÜWE	A	B
BK10	RfN 4161 036x072	HSD 36-22x36	217	120
BK20	RfN 4161 044x080	HSD 44-22x44	270	140
BK30	RfN 4161 050x090	HSD 50-22x50	300	160
BK40	RfN 4161 062x110	HSD 62-22x62	335	160
BK50	RfN 4161 068x115	HSD 68-22x68	329	200
BK60	RfN 4161 080x141	HSD 80-22x80	386	210
BK70	RfN 4161 105x185	HSD110-22x105	465	250
BK80	RfN 4161 130x215	HSD125-22x130	502	300
BK90	RfN 4161 150x263	HSD155-22x150	602	350
Dimensions in millimetres (mm)				

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Rubber buffer for torque arm



1 not included in delivery
2 Rubber buffers pretensioned
3 Rubber buffer
G Maximum screw diameter

Material: Natural rubber
Hardness 50 +/-5 Shore A

Dimensions of the transverse hole:
see dimensioned sketch of the respective shaft mounted gearbox

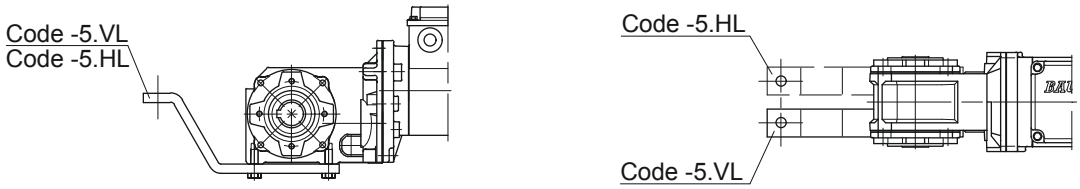
12

Gear	Position	A	B	C	D	E	F	G	H	L
BK06	Position 0	30	30	12	12	15	15	M10	10	10
BK08	Position 1	48	32	15	14	24	16	M10	19	13.5
BK10	Position 1	48	32	15	14	24	16	M10	19	13.5
BK17	Position 1	48	32	15	14	24	16	M10	19	13
BK20	Position 1	48	32	15	14	24	16	M10	19	13
BK30	Position 2	63	43	20	14	31.5	21.5	M10	30	17
BK40	Position 2	63	43	20	14	31.5	21.5	M10	30	17
BK50	Position 3	88	60	25	22	44	30	M18	36	21.5
BK60	Position 3	88	60	25	22	44	30	M18	38	21
BK70	Position 4	123	88	30	26	61.5	44	M20	40	25.5
BK80	Position 5	133	103	35	26	66.5	51.5	M20	45	30
BK90	Position 5	133	103	35	26	66.5	51.5	M20	45	29.5
Dimensions in millimetres (mm)										

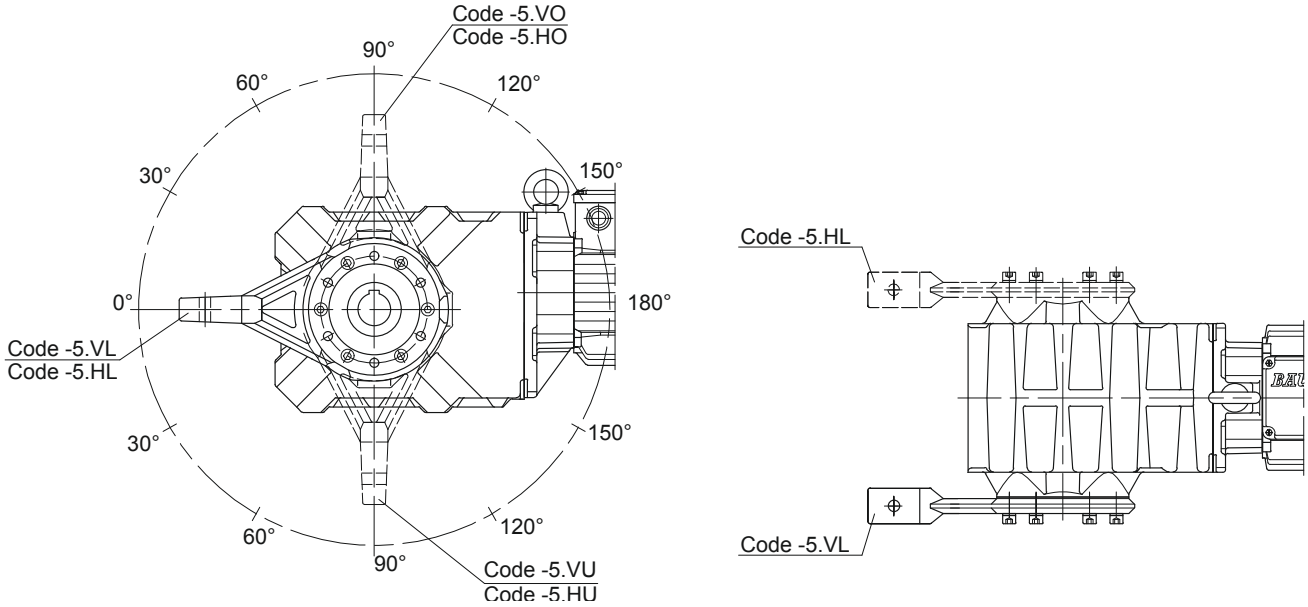
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Position of the torque arm

BK06



BK08 - BK90



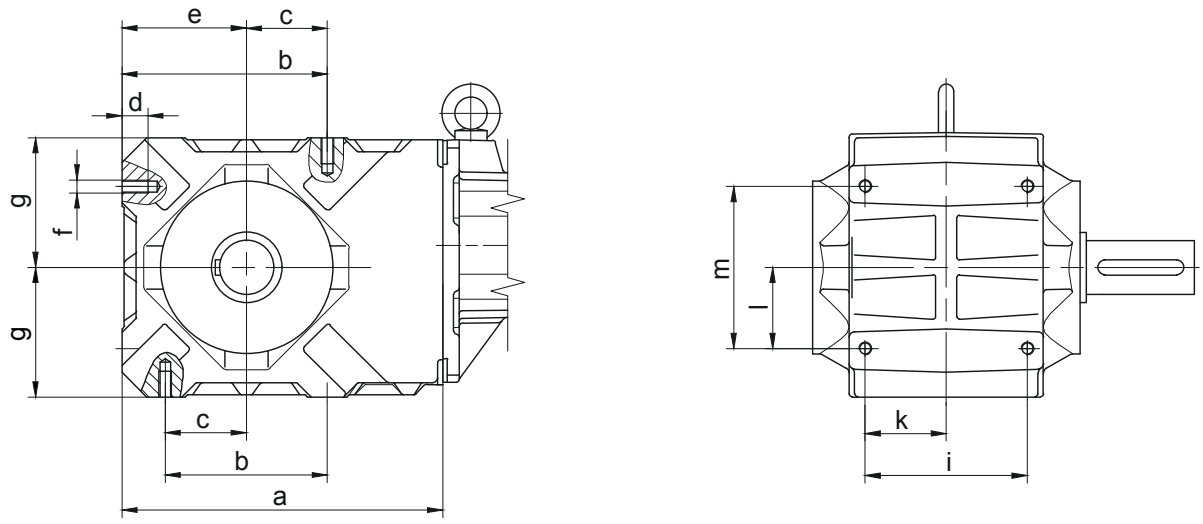
Gear	Position						
	VL/HL	VO/HO/VU/HU					VR/HR
BK06	0°	-	-	-	-	-	-
BK08	0°	30°	60°	90°	120°	-	-
BK10	0°	30°	60°	90°	120°	150°	-
BK17	0°	30°	60°	90°	120°	-	-
BK20	0°	30°	60°	90°	120°	150°	-
BK30	0°	30°	60°	90°	120°	150°	-
BK40	0°	30°	60°	90°	120°	150°	-
BK50	0°	30°	60°	90°	120°	150°	-
BK60	0°	30°	60°	90°	120°	150°	-
BK70	0°	30°	60°	90°	120°	150°	-
BK80	0°	30°	60°	90°	120°	150°	-
BK90	0°	45°		90°	135°		-

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

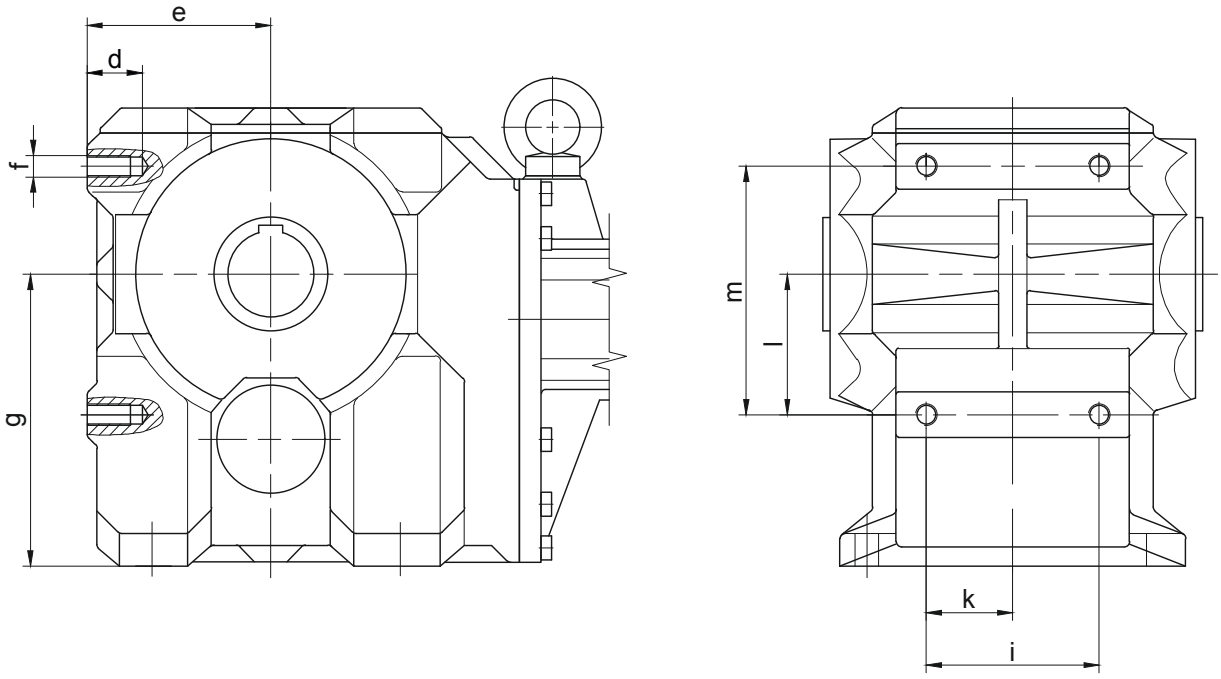
BK-series bevel-geared motors

Additional Dimension Sheet

Foot with tapped holes



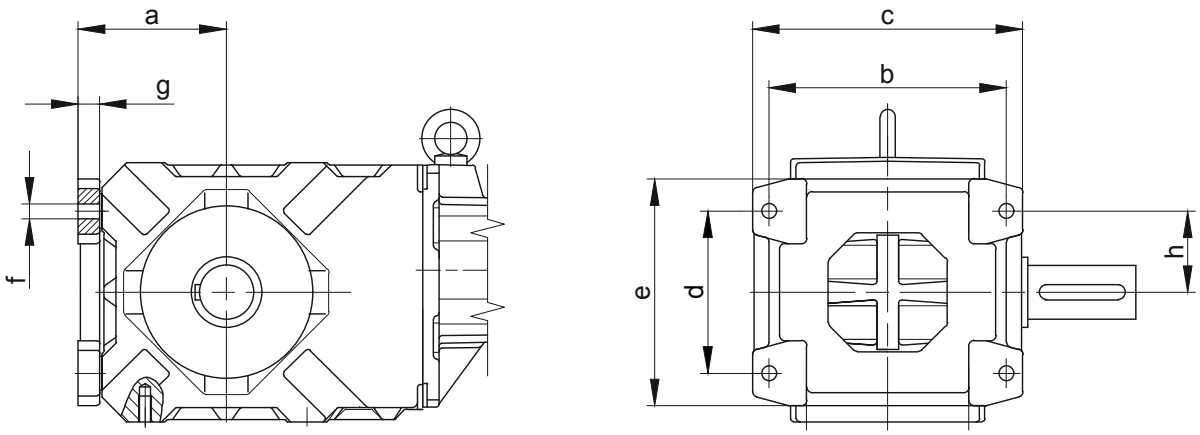
Type	a	b	c	d	e	f	g	i	k	l	m
BK10-BK10Z	202	90	45	16	78	M8	80	95	47.5	45	90
BK20-BK20Z	242	110	55	20	95	M10	100	105	52.5	55	110
BK30-BK30Z	266	125	62.5	24	105	M12	110	120	60	62.5	125
BK40-BK40Z	297	150	75	24	115	M12	120	150	75	75	150
BK50-BK50Z	356	200	100	28	145	M14	150	160	80	100	200



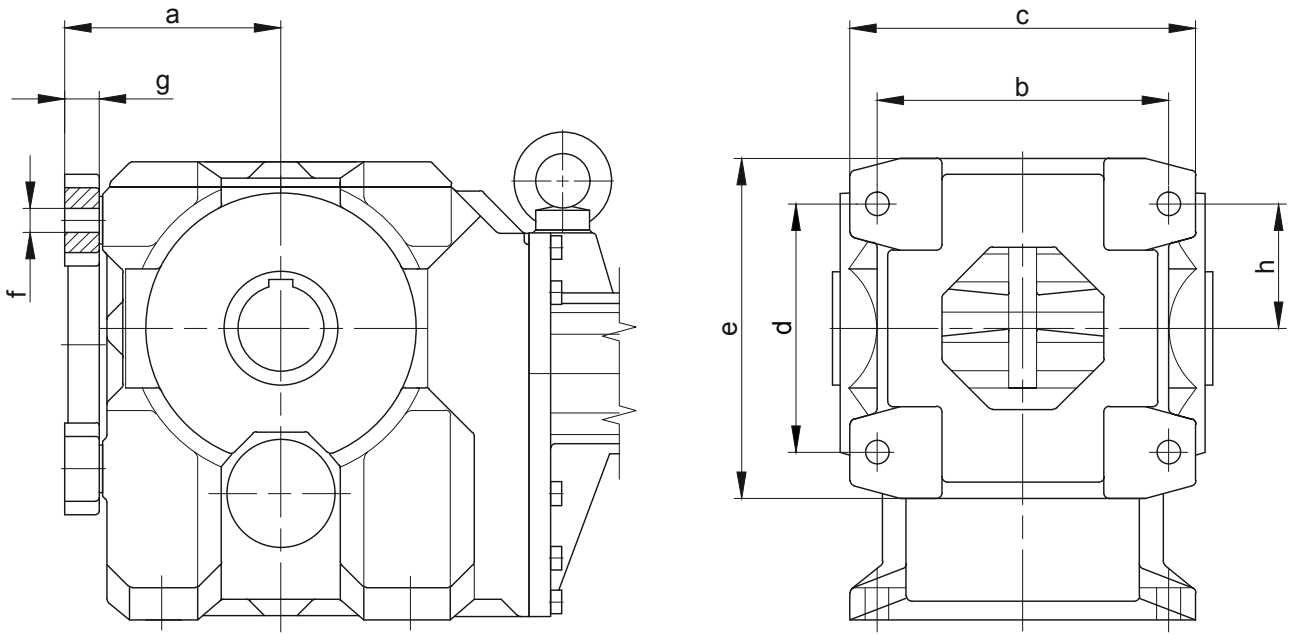
Type	a	b	c	d	e	f	g	i	k	l	m
BK60-BK60Z	-	-	-	40	130	M20	212	160	80	145	230
BK70-BK70Z	-	-	-	40	165	M20	270	160	80	130	230
BK80-BK80Z	-	-	-	60	200	M30	335	210	105	240	360
BK90-BK90Z	-	-	-	60	245	M30	410	210	105	215	360

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Foot plate with clearance holes



Type	a	b	c	d	e	f	g	h
BK10-BK10Z	96	145	165	90	130	Ø9	16	45
BK20-BK20Z	115	165	195	110	160	Ø11	18	55
BK30-BK30Z	127	190	220	125	185	Ø13.5	20	62.5
BK40-BK40Z	137	220	250	150	210	Ø13.5	20	75
BK50-BK50Z	170	240	280	200	265	Ø17.5	23	100



Type	a	b	c	d	e	f	g	h
BK60-BK60Z	165	270	320	230	315	Ø22	32	85
BK70-BK70Z	200	270	320	230	315	Ø22	32	100
BK80-BK80Z	250	400	480	360	480	Ø33	47	120
BK90-BK90Z	295	400	480	360	480	Ø33	47	145

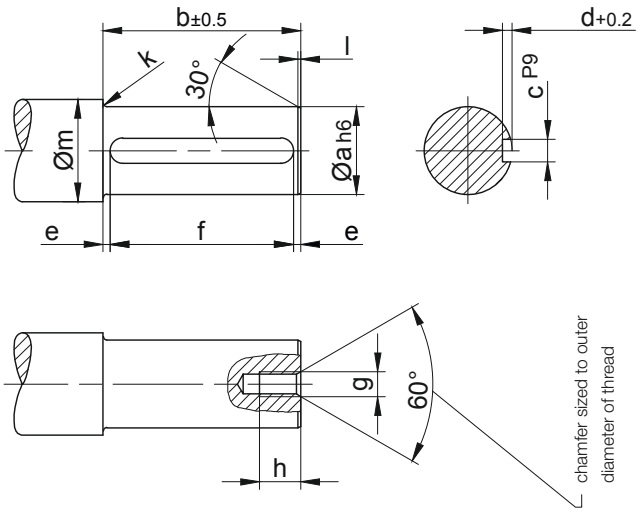
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BK-series bevel-geared motors

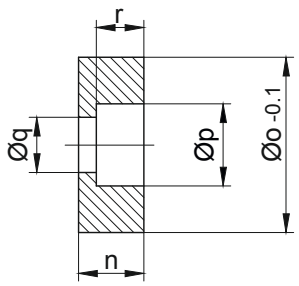
Additional Dimension Sheet

Assembly tools for hollow shaft and keyway

Position 1 Shaft

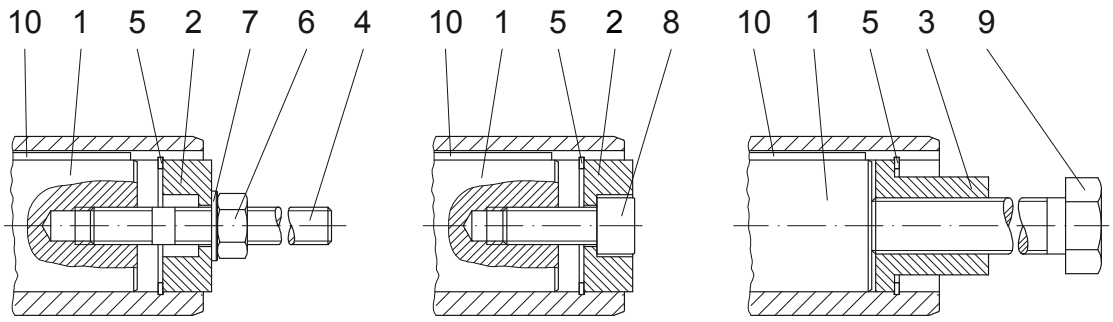


* Position 2 Disc



Material: Steel, tensile strength ≥ 470 N/mm²

Type	Dimensions (mm)															
	Postion 1 Shaft											Postion 2 Disc				
	a	b	c	d	e	f	g	h	k	l	m	n	o	p	q	r
BK06	20	75	6	3.5	6	$63^{+0.3}$	M8	16	2	1	28	13.5	19.8	11	6.6	6.5
BK10	25	148	8	4	11.5	$125^{+0.5}$	M8	18	2.5	1.5	33	13.5	24.8	15	9	8.5
BK20	30	170	8	4	15	$140^{+0.5}$	M10	20	3	1.5	38	15	29.8	18	11	10
BK30	35	201	10	5	10.5	$180^{+0.5}$	M10	20	3	1.5	43	16	34.8	18	11	10
BK40	40	235	12	5	17.5	$200^{+0.5}$	M12	22	3	2	48	18	39.8	20	13.5	12
BK50	50	254	14	5.5	17	$220^{+0.5}$	M16	30	3.5	2	58	21	49.8	26	17.5	15
BK60	60	273	18	7	11.5	$250^{+0.5}$	M20	38	3.5	2	68	24	59.8	33	22	18
BK70	80	316	22	9	18	$280^{+0.5}$	M20	38	4	2	90	27	79.8	33	22	20
BK70-K70	70	316	20	7.5	18	$280^{+0.5}$	M20	38	4	2	90	27	69.8	33	22	20
BK80	100	360	28	10	20	$320^{+0.5}$	M24	45	4	3	110	32	99.8	40	26	25
BK90	120	432	32	11	16	$400^{+0.5}$	M24	45	4.5	3	130	35	119.8	40	26	28



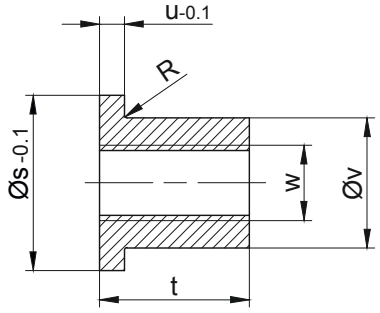
Installation Holding Dismantlement

The parts shown are neccessary for assembly. ONLY * specified parts are enclosed in the assembly kit.
Suitable measures are to be used to secure Bolt Pos. 8 against loosening!

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

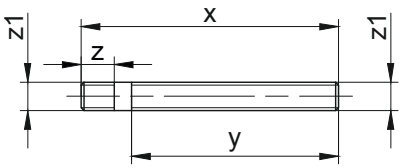
Assembly tools for hollow shaft and keyway

Position 3 Sleeve



Material: Steel, tensile strength ≥ 470 N/mm²

* Position 4 Stud bolt



Material: Steel, tensile strength ≥ 1000 N/mm² Thread rolled

Type	Dimensions (mm)										* Retaining ring DIN 472	Hexagon nut DIN 394-8	Disc DIN 125-St	* Filister head screw DIN 912-8.8	Starting torque (Nm)	Hexagon bolt DIN EN 24017-8.8	Key DIN 6885 Width/Height/Length
	Position 3 Sleeve						Position 4 Stud bolt										
	s	t	u	v	w	R	x	y	z	z1	Pos.5	Pos.6	Pos.7	Pos.8		Pos.9	Pos.10
BK06	19.8	20	5	11.1	M8	0.8	130	100	20	M6	20x1	M6	6.4	M6x30	5	M6x120	A 6x6x63
BK10	24.8	24	5	15.4	M12	0.8	200	170	20	M8	25x1.2	M8	8.4	M8x30		M12x190	A 8x7x125
BK20	29.8	28	5	19.8	M14	0.8	230	195	23	M10	30x1.2	M10	10.5	M10x30	8	M14x210	A 8x7x140
BK30	34.8	28	5	23	M14	-	260	220	23	M10	35x1.5	M10	10.5	M10x35		M14x240	A 10x8x180
BK40	39.8	40	6	27.7	M20	0.8	300	260	28	M12	40x1.75	M12	13	M12x35	16	M20x290	A 12x8x200
BK50	49.8	48	6	36	M24	-	340	290	37	M16	50x2.0	M16	17	M16x40	30	M24x320	A 14x9x220
BK60	59.8	60	6	44	M30	-	370	310	45	M20	60x2.0	M20	21	M20x50	42	M30x350	A 18x11x250
BK70	79.8	60	8	55	M30	-	420	360	45	M20	80x2.5	M20	21	M20x50		M30x400	A 22x14x280
BK70-K70	69.8	60	8	53	M30	-	420	360	45	M20	70x2.5	M20	21	M20x50		M30x400	A 20x12x280
BK80	99.8	72	10	75	M36	-	480	410	55	M24	100x3.0	M24	25	M24x60	100	M36x450	A 28x16x320
BK90	119.8	72	10	80	M36	-	560	480	55	M24	120x4.0	M24	25	M24x60		M36x520	A 32x18x400

The parts shown are neccessary for assembly. ONLY * specified parts are enclosed in the assembly kit.
Suitable measures are to be used to secure Bolt Pos. 8 against loosening!

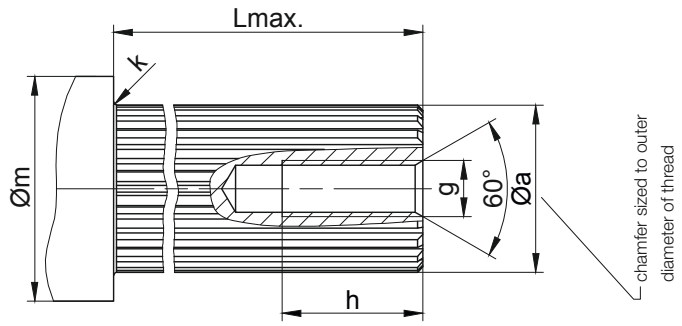
Optional

Type	Assembly tool „Holding“
BK06	Id.Nr.4104013
BK10	Id.Nr.4103921
BK20	Id.Nr.4103939
BK30	Id.Nr.4103947
BK40	Id.Nr.4103955
BK50	Id.Nr.4103963
BK60	Id.Nr.4103971
BK70	Id.Nr.4103980
BK70-K70	Id.Nr.4104765
BK80	Id.Nr.4103998
BK90	Id.Nr.4104005

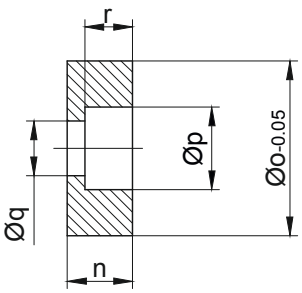
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Assembly tools for splined shaft

Position 1 Shaft

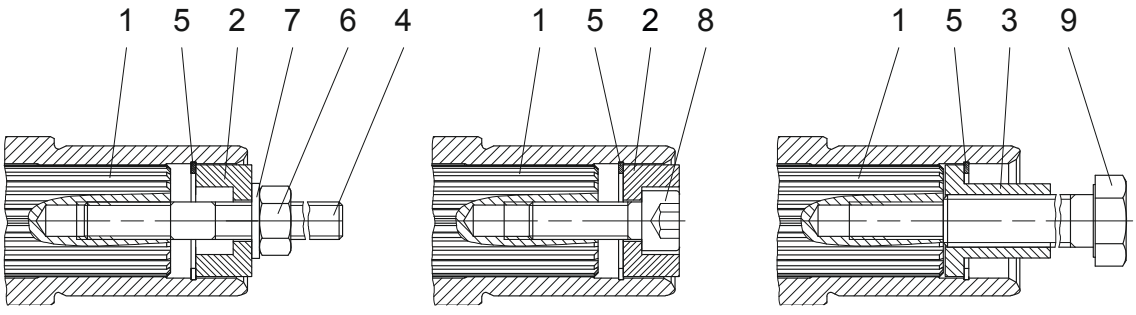


* Position 2 Disc



Material: Steel, tensile strength ≥ 470 N/mm²

Type	Dimensions (mm)										
	Postion 1 Shaft						Postion 2 Disc				
	a	g	h	g	Lmax.	m	n	o	p	q	r
BK10	DIN 5480-W30x1.25x22	M10	25	2.5	145	42	15	34.9	18	11	10
BK20	DIN 5480-W35x2x16	M10	25	3	167	44	14	35.9	18	11	10
BK30	DIN 5480-W40x2x18	M12	30	3	200	49	18	40.9	20	13.5	12
BK40	DIN 5480-W50x2x24	M16	35	3	235	59	17.5	50.9	26	17.5	12.5
BK50	DIN 5480-W60x2x28	M20	40	3.5	255	69	24	60.9	33	22	18
BK60	DIN 5480-W70x2x34	M20	40	3.5	275	80	24	71.9	33	22	18
BK70	DIN 5480-W85x3x27	M20	40	4	323	96	22	85.9	33	22	16
BK80	DIN 5480-W110x3x35	M24	50	4	360	122	32	111.9	40	26	25
BK90	DIN 5480-W130x5x24	M24	50	4.5	440	143	25	131.4	40	26	18



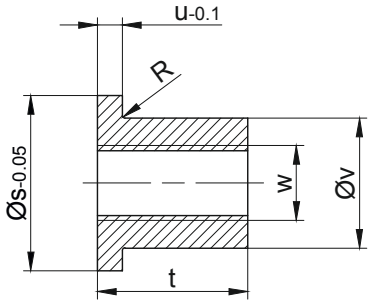
Installation Holding Dismantlement

The parts shown are neccessary for assembly. ONLY * specified parts are enclosed in the assembly kit.
Suitable measures are to be used to secure Bolt Pos. 8 against loosening!

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

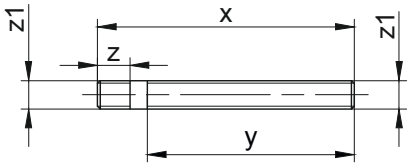
Assembly tools for splined shaft

Position 3 Sleeve



Material: Steel, tensile strength ≥ 470 N/mm²

* Position 4 Stud bolt



Material: Steel, tensile strength ≥ 1000 N/mm² Thread rolled

Type	Dimensions (mm)										* Retaining ring DIN 472	Hexagon nut DIN 394-8	Disc DIN 125-St	* Filister head screw DIN 912-8.8	Tightening torques (Nm)	Hexagon bolt DIN EN 24017-8.8
	Position 3 Sleeve						Position 4 Stud bolt									
	s	t	u	v	w	R	x	y	z	z1	Pos.5	Pos.6	Pos.7	Pos.8		Pos.9
BK10	30.4	28	5	19.8	M14	-	200	170	23	M10	35x1.5	M10	10.5	M10x30	8	M14x190
BK20	35.9	28	5	23	M14	-	230	195	23	M10	35x1.5	M10	10.5	M10x35		M14x210
BK30	40.9	40	6	27.7	M20	-	260	220	28	M12	40x1.75	M12	13	M12x35	16	M20x240
BK40	50.9	48	6	36	M24	0.8	300	260	37	M16	50x2.0	M16	17	M16x40	30	M24x290
BK50	60.9	60	6	44	M30	-	340	290	45	M20	60x2.0	M20	21	M20x50	42	M30x320
BK60	71.9	60	6	53	M30	0.8	370	310	45	M20	72x2.5	M20	21	M20x50		M30x350
BK70	85.9	60	8	65	M30	0.8	420	360	45	M20	85x3	M20	21	M20x50		M30x400
BK80	111.9	72	10	85	M36	0.8	480	410	55	M24	112x4	M24	25	M24x60	100	M36x450
BK90	131.4	72	10	95	M36	0.8	560	480	55	M24	130x4	M24	25	M24x60		M36x520

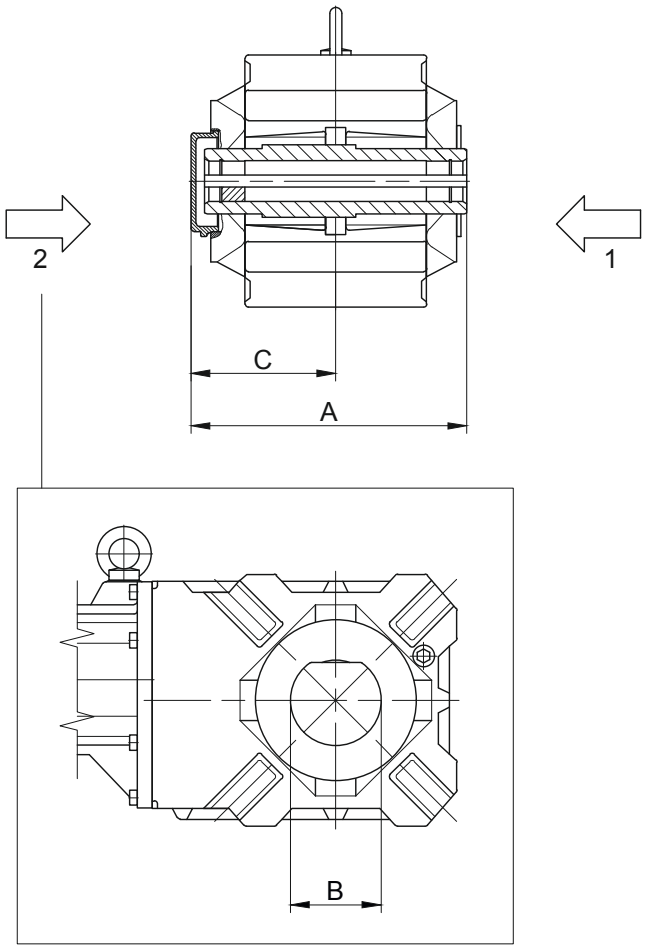
The parts shown are neccessary for assembly. ONLY * specified parts are enclosed in the assembly kit.
Suitable measures are to be used to secure Bolt Pos. 8 against loosening!

Optional

Type	Assembly tool „Holding“
BK10	Id.Nr. 4105133
BK20	Id.Nr. 4105141
BK30	Id.Nr. 4105150
BK40	Id.Nr. 4105168
BK50	Id.Nr. 4105176
BK60	Id.Nr. 4105184
BK70	Id.Nr. 4105192
BK80	Id.Nr. 4105206
BK90	Id.Nr. 4105214

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Shaft cap (VK)

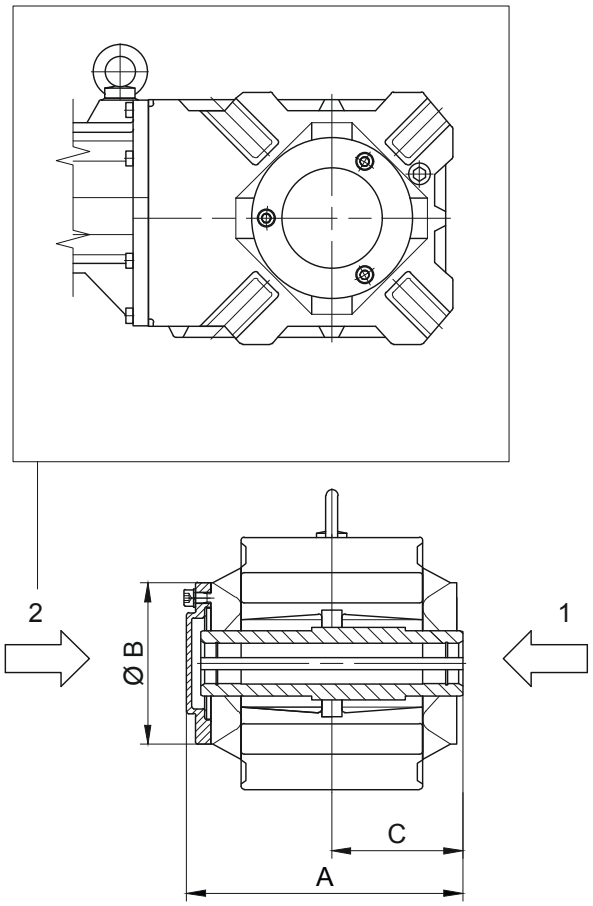


1 Gear side FRONT (V)
2 Gear side REAR (H)

Type	A	B	C
BK10	182.5	85	97.5
BK20	204.5	90	108.5
BK40	273.5	100	143.5
BK50	298	115	157
BK60	322	130	171
BK70	370	160	194
Dimensions in millimetres (mm)			

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

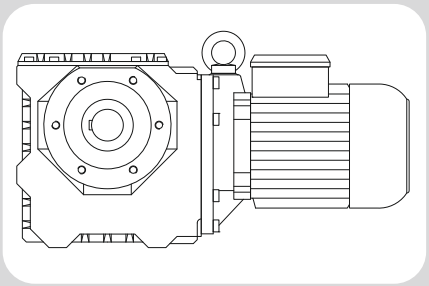
Shaft cover (VD)



1 Gear side FRONT (V)
2 Gear side REAR (H)

Type	A	B	C
BK10	181	120	85
BK20	206	139.5	96
BK30	239	160	112
BK40	274	160	130
BK50	297	199	141
BK60	321	210	151
BK70	368	250	176
BK80	419	300	202
BK90	492	351	242
Dimensions in millimetres (mm)			

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.



13

BS-series worm-geared motors - Dimensions

Dimension - Standard **456**
BS02 456
BS03 458
BS04 460
BS06 462
BS10-BS10Z 464
BS20-BS20Z 466
BS30-BS30Z 468
BS40-BS40Z 470
Dimension - Tandem Gearbox **472**
BS06G04 472
BS10G06 474
BS20G06 476
BS30G06 478
BS40G10 480
Additional Dimension Sheet **482**
Shrink disc couplings (SSV) 482
Shrink disc couplings with (SSV) cover 483
Rubber buffer for torque arm 484
Position of the torque arm 485
Threaded foot 486
Foot plate, left 487
Assembly tools for hollow shaft and keyway 488
Shaft cap (VK) 490
Shaft cover (VD) 491

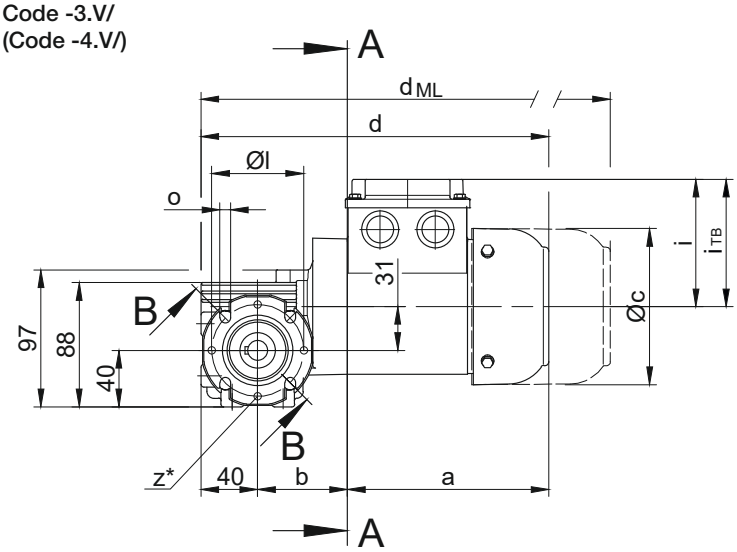
BS-series worm-geared motors

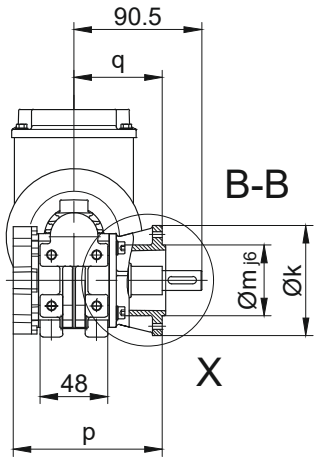
Dimension - Standard

BS02

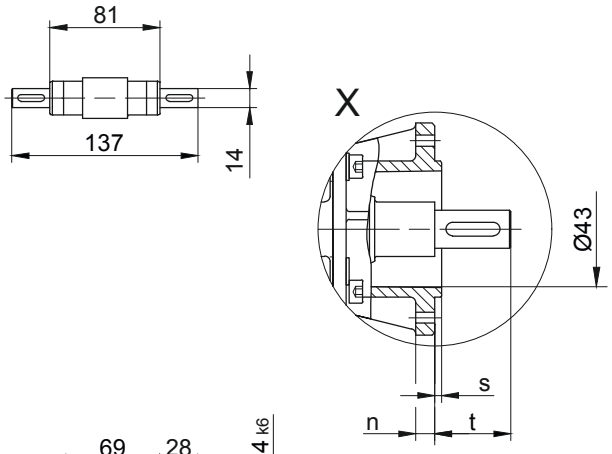
Flange with clearance holes at front

Code -3.V/
(Code -4.V/)

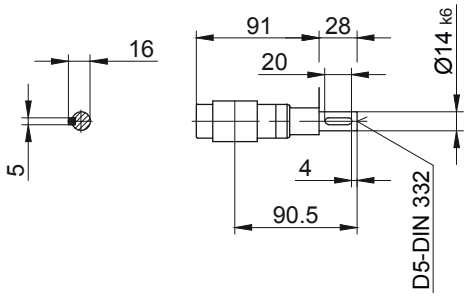




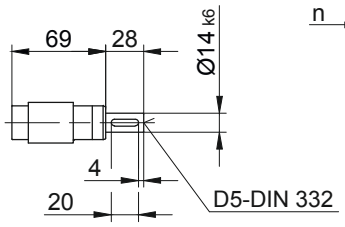
Code -.3/



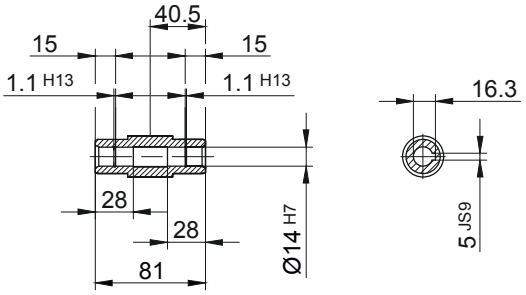
Code -.7/

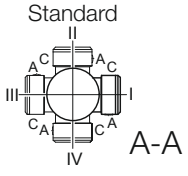


Code -.1/



Code -.4/





* optional 4xM5 with code -3.
* optional 4xM6 with code -4.

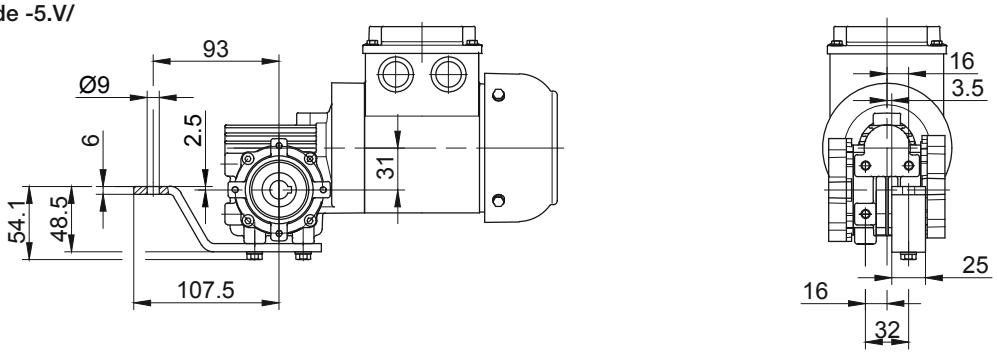
Flange Dimensions										
Type	Design	k	l	m	n	o	p	q	s	t
BS02	Code -3.V/	80	65	50	7.5	5.5	105.5	62.5	2.5	28
BS02	Code -4.V/	110	80	60	8	6.6	105.5	62.5	2.5	28
Dimensions in millimetres (mm										

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BS02-../S04S	142.5	63.5	110.5	246	90	112	289.5	333.5	377	-
BS02-../S..06 (M, L)	170.5	65.5	123	276	99	119	318	378.5	416	-
Dimensions in millimetres (mm)										

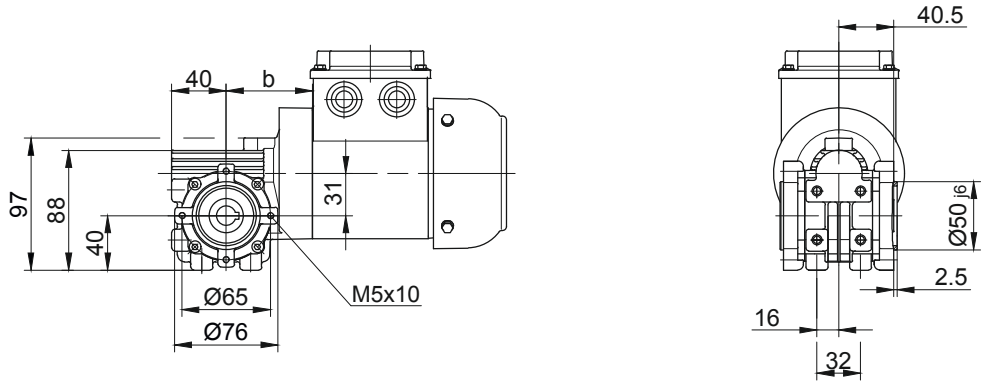
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS02

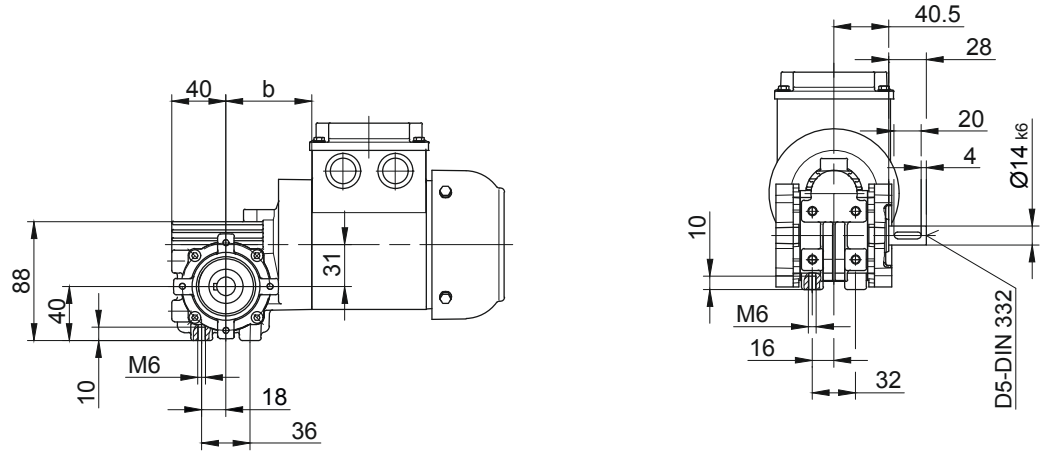
Torque arm at front
Code -5.V/



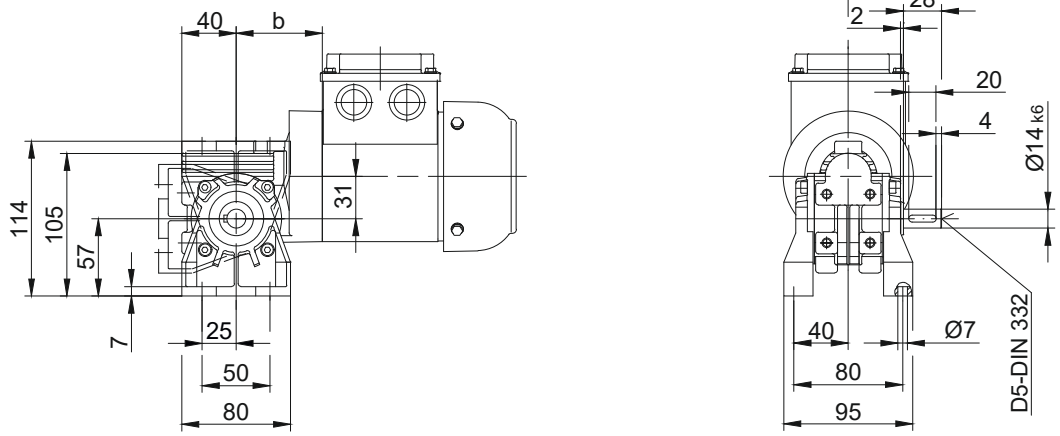
Flange with tapped holes at front
Code -7.V/



Foot with tapped holes at bottom
Code -6.U/



Foot with clearance holes at bottom
Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

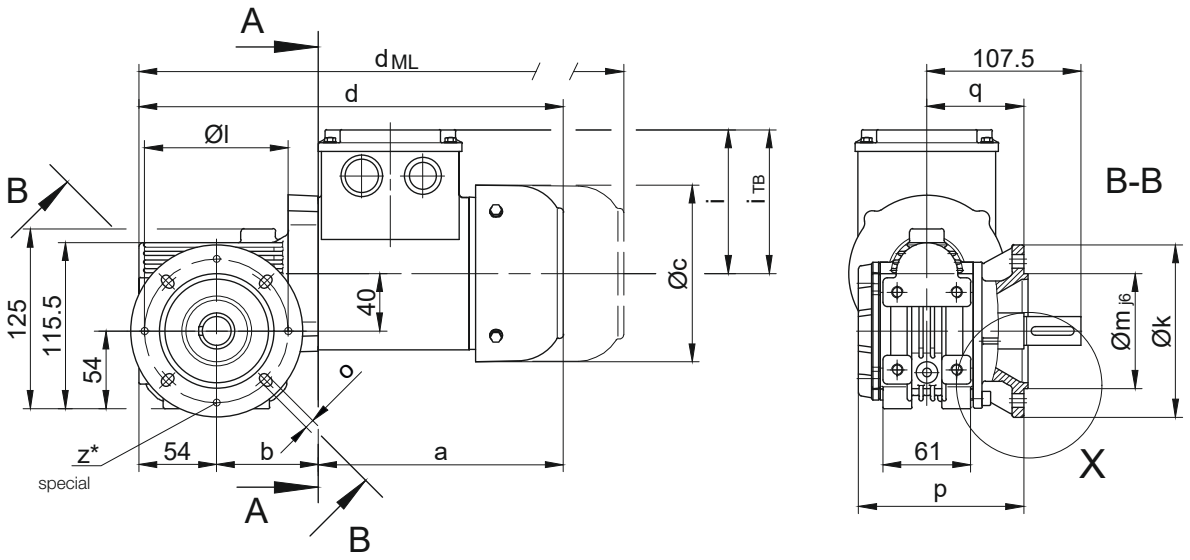
BS-series worm-geared motors

Dimension - Standard

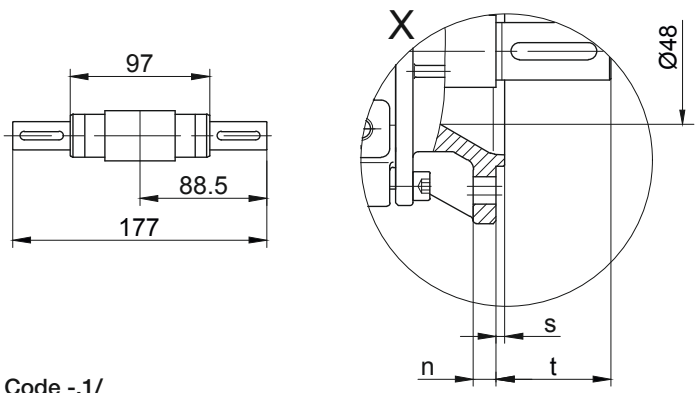
BS03

Flange with clearance holes at front

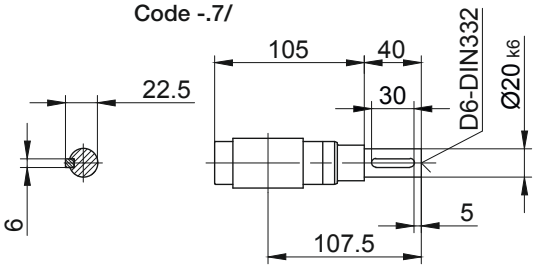
Code -3.V/



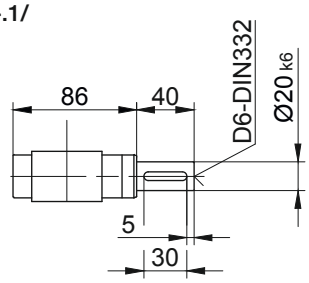
Code -.3/



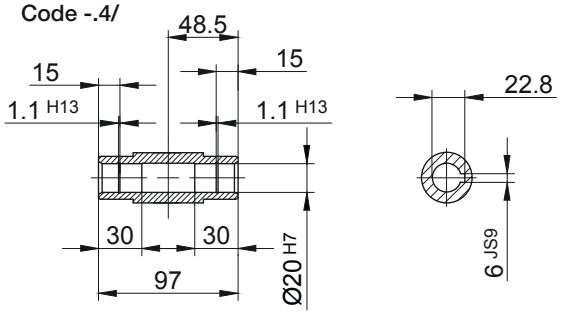
Code -.7/

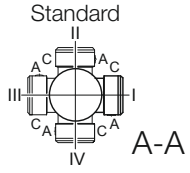


Code -.1/



Code -.4/





* optional 4xM6 with code -3.

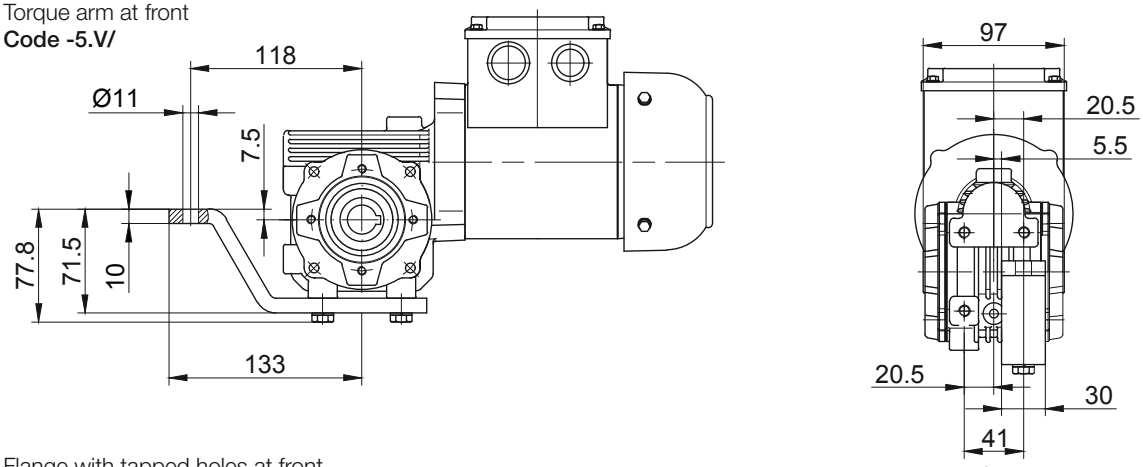
Flange Dimensions										
Type	Design	k	l	m	n	o	p	q	s	t
BS03	Code -3.V/	120	100	80	8	6.6	115	67.5	3	40
Dimensions in millimetres (mm										

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BS03-../S..06 (M, L)	170.5	71	123	295.5	99	119	337.5	398	435.5	-
BS03-../S..08 (M, L)	199.5	115	156	368.5	114.5	136.5	434.5	480.5	542	-
Dimensions in millimetres (mm)										

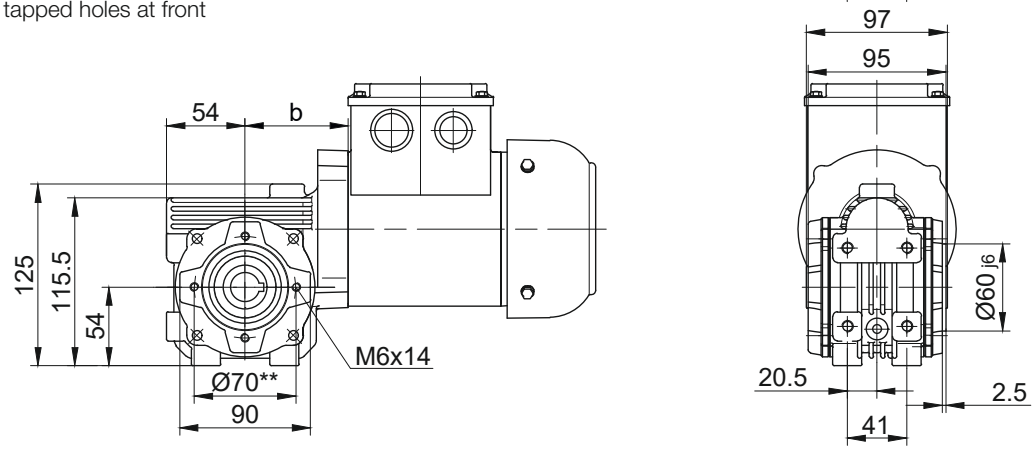
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS03

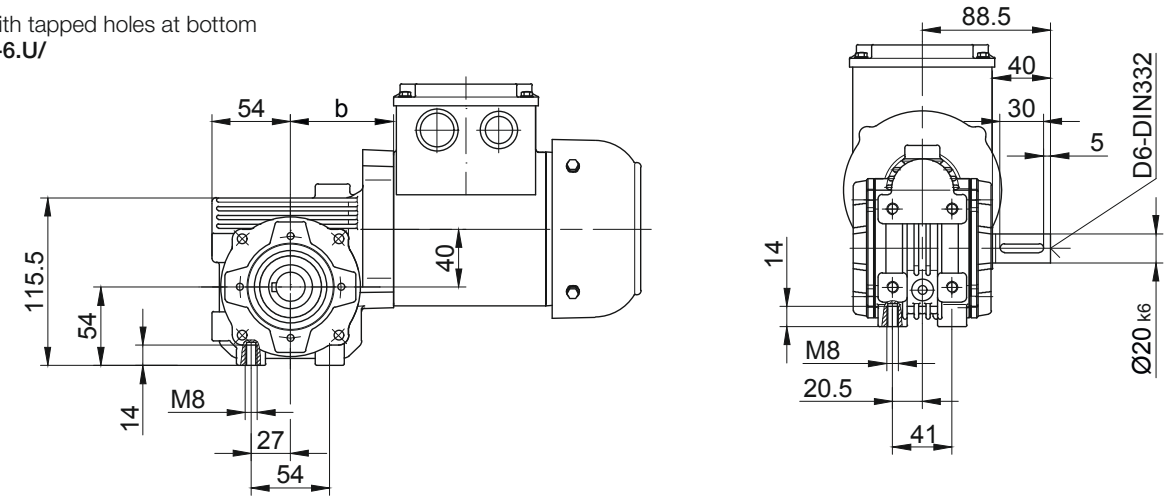
Torque arm at front
Code -5.V/



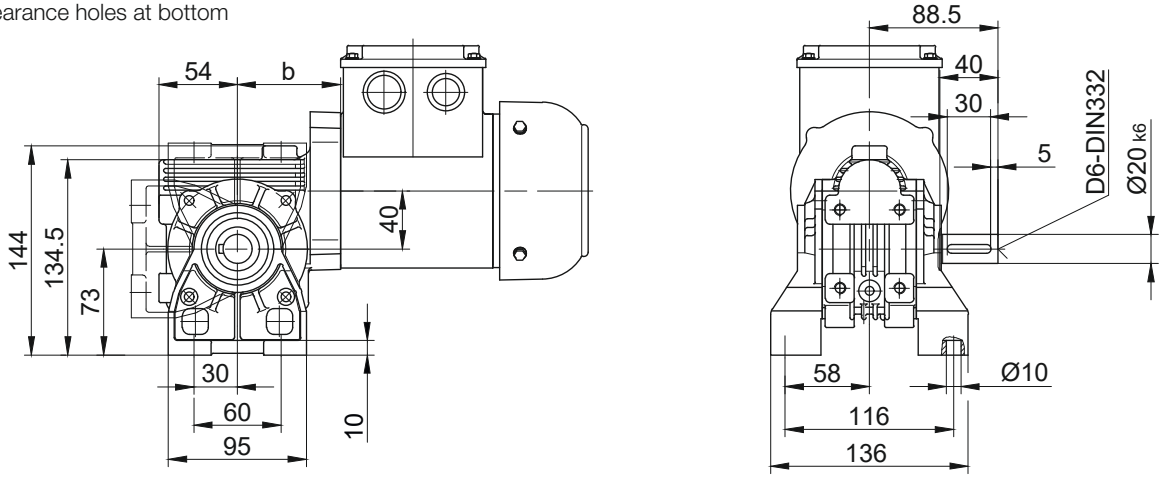
Flange with tapped holes at front
Code -7.V/



Foot with tapped holes at bottom
Code -6.U/



Foot with clearance holes at bottom
Code -1.U/



** not for S..08.. with PTO shaft (Code -.1, -.2, -3., -.7, -.8, -.9)

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

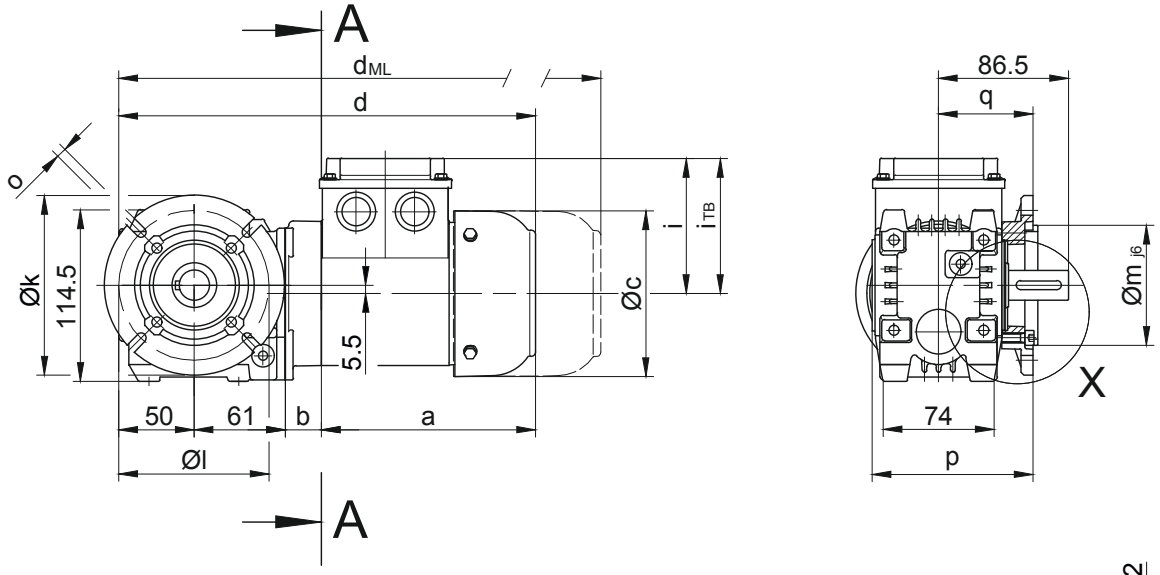
BS-series worm-geared motors

Dimension - Standard

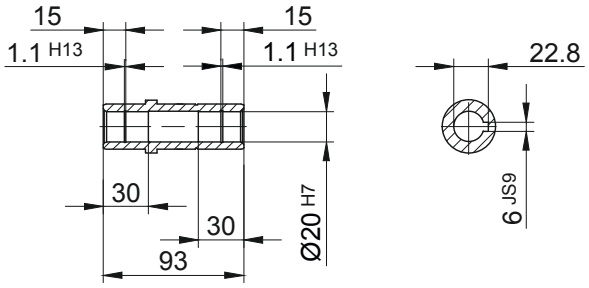
BS04

Flange with clearance holes at front

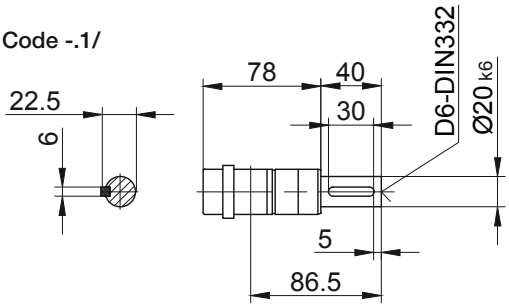
Code -3.V/

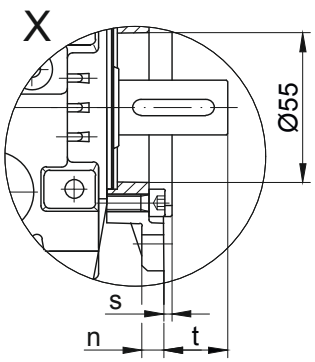


Code -.4/

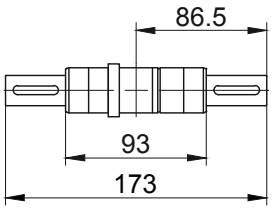


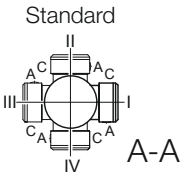
Code -.1/





Code -.3/





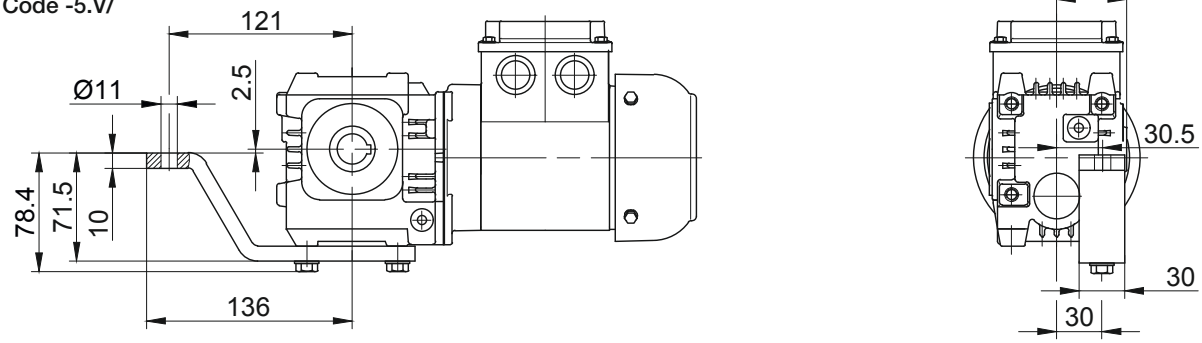
Flange Dimensions										
Type	Design	k	l	m	n	o	p	q	s	t
BS04	Code -3.V/	120	100	80	8	6.6	107.5	63	3	23.5
Dimensions in millimetres (mm										

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BS04-../S04S	142.5	24	110.5	277.5	90	112	321	365	408.5	-
BS04-../S..06 (M, L)	170.5	26	123	307.5	99	119	349.5	410	447.5	-
Dimensions in millimetres (mm)										

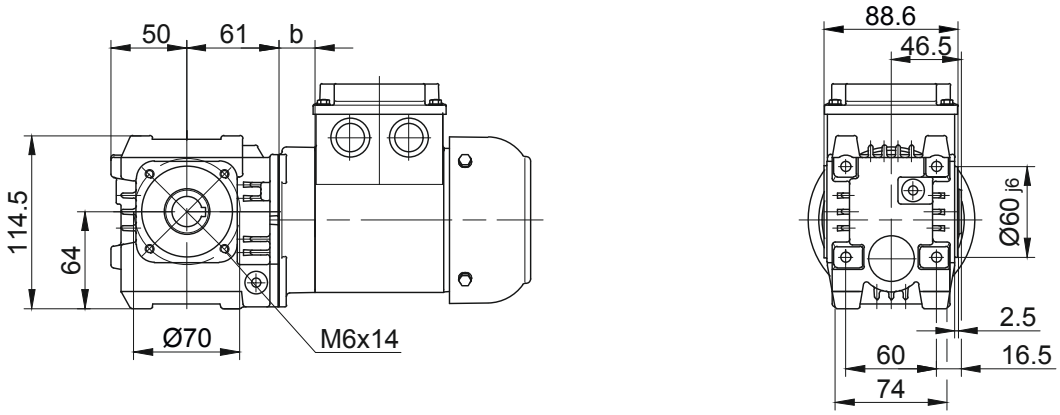
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS04

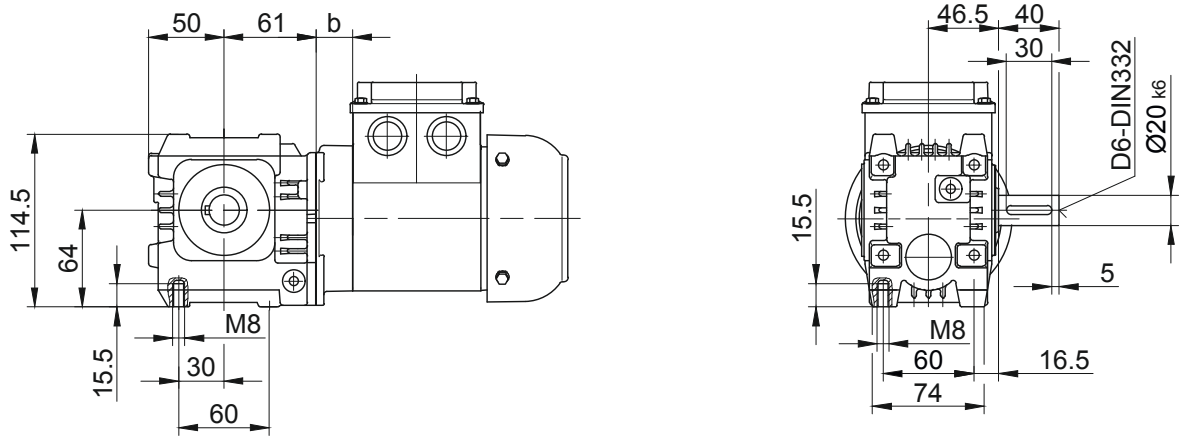
Torque arm at front
Code -5.V/



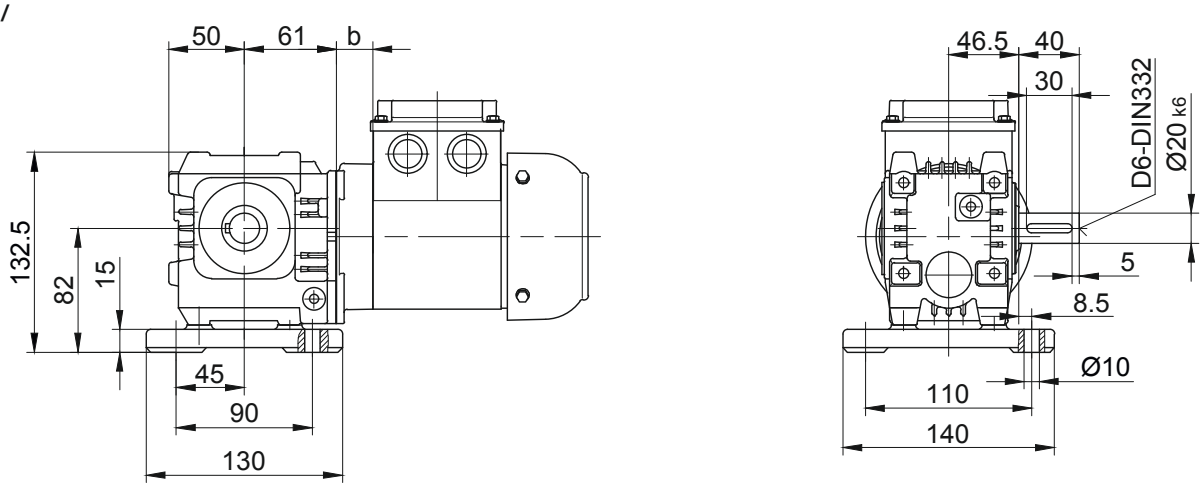
Flange with tapped holes holes at front
Code -7.V/



Foot with tapped holes at bottom
Code -6.U/



Foot with clearance holes at bottom
Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

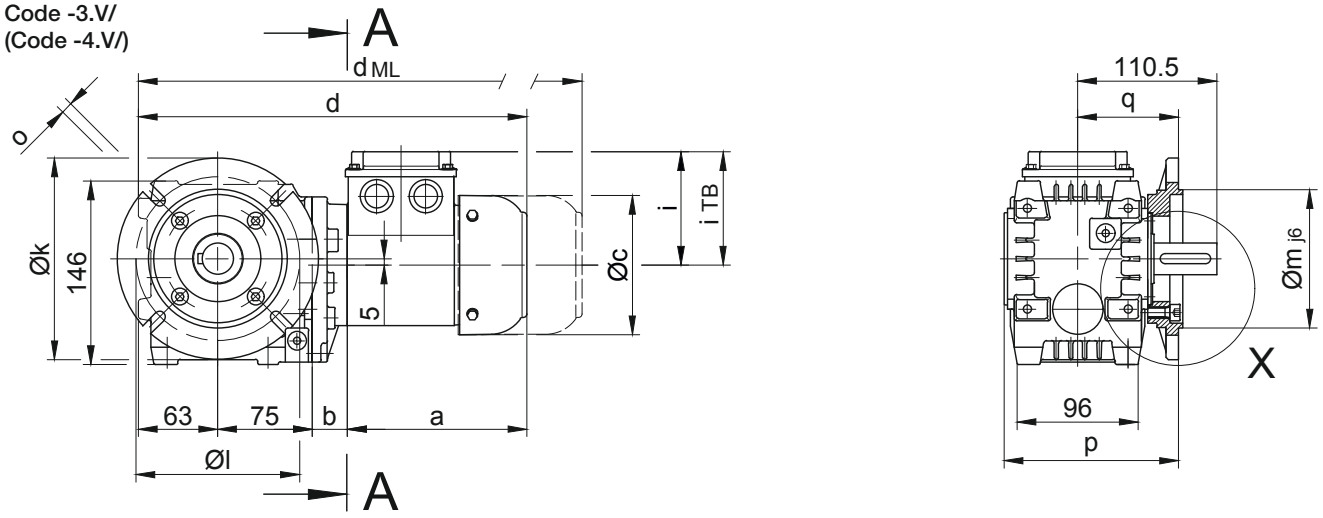
BS-series worm-geared motors

Dimension - Standard

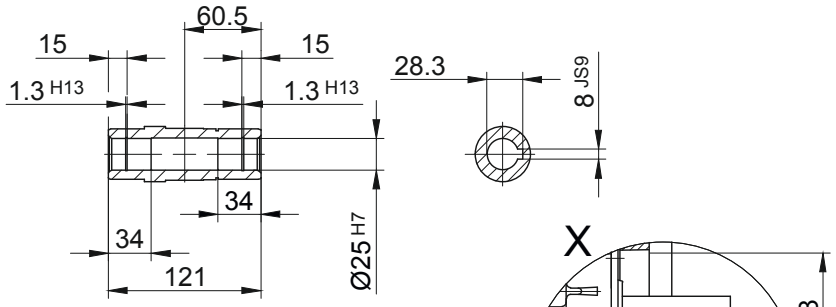
BS06

Flange with clearance holes at front

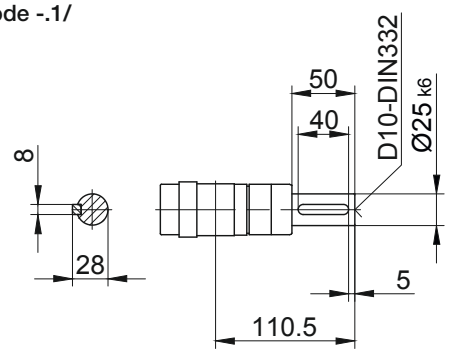
Code -3.V/
(Code -4.V/)



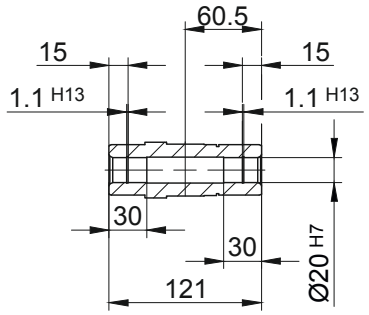
Code -.4/
Standard



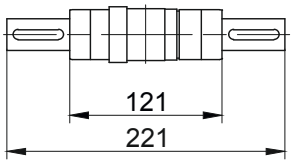
Code -.1/

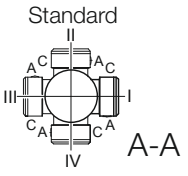


Code -.4/K20



Code -.3/





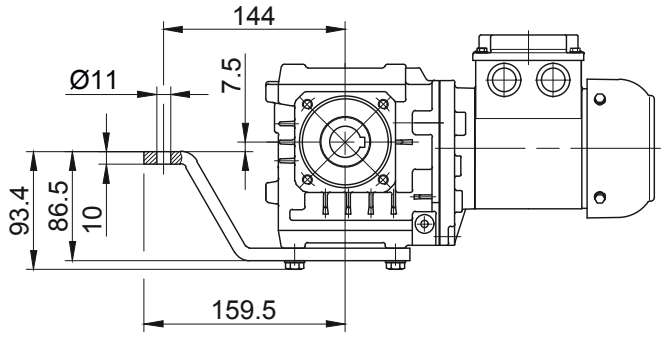
Flange Dimensions										
Type	Design	k	l	m	n	o	p	q	s	t
BS06..	Code -3.V/	140	115	95	10	9	138.3	80	3	30.5
BS06..	Code -4.V/	160	130	110	10	9	138.3	80	3.5	30.5
Dimensions in millimetres (mm										

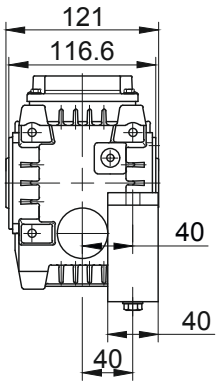
Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BS06-../S04S	142.5	28	110.5	308.5	90	112	352	396	439.5	-
BS06-../S..06 (M, L)	170.5	30	123	338.5	99	119	380.5	441	478.5	-
BS06-../S..08 (M, L)	199.5	74	156	411.5	114.5	136.5	477.5	523.5	585	-
Dimensions in millimetres (mm)										

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

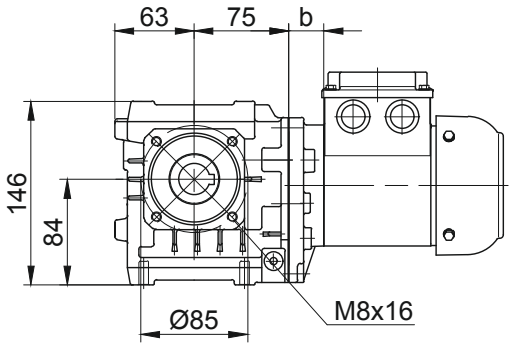
BS06

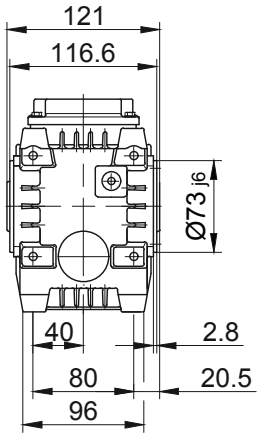
Torque arm at front
Code -5.V/



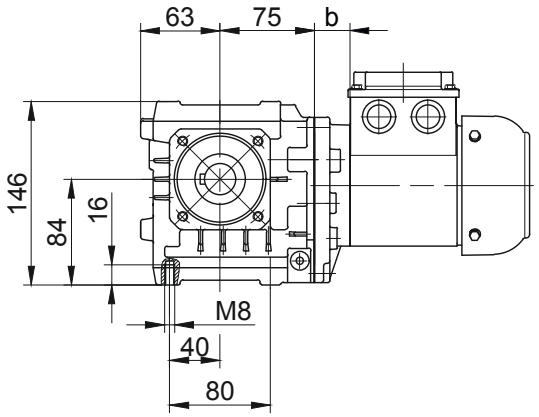


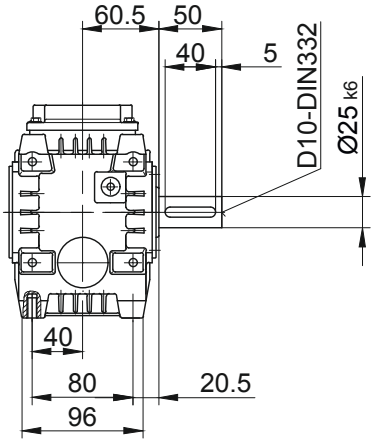
Flange with tapped holes at front
Code -7.V/



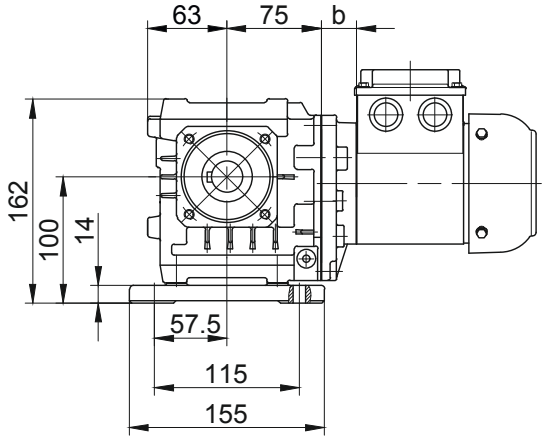


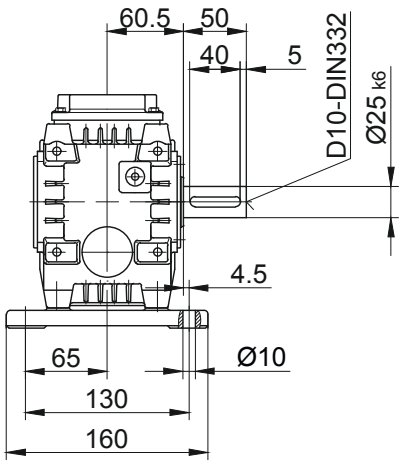
Foot with tapped holes at bottom
Code -6.U/





Foot with clearance holes at bottom
Code -1.U/





The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS-series worm-geared motors

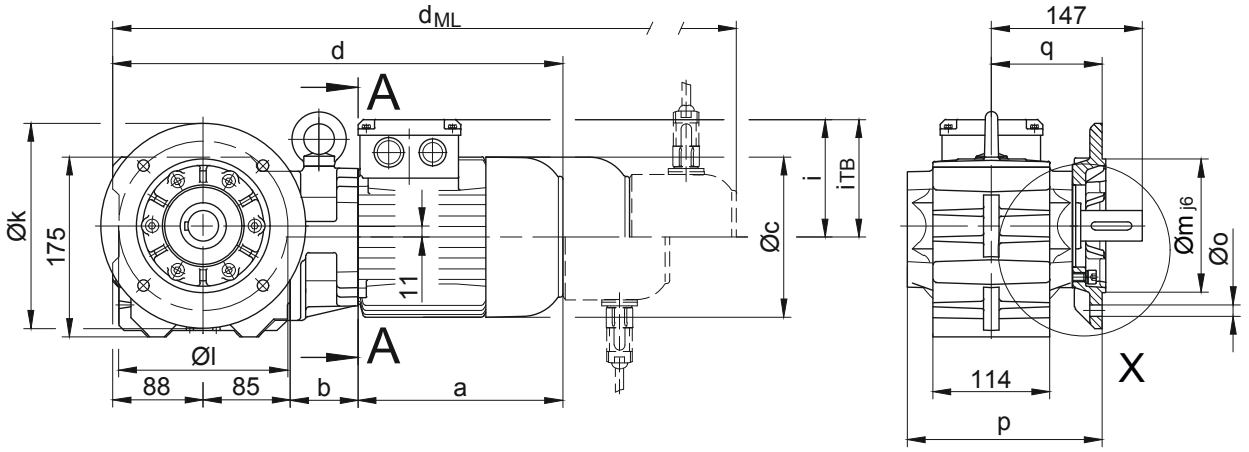
Dimension - Standard

BS10-BS10Z

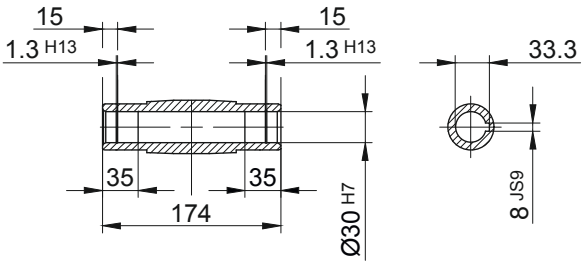
Flange with clearance holes at front

Code -3.V/

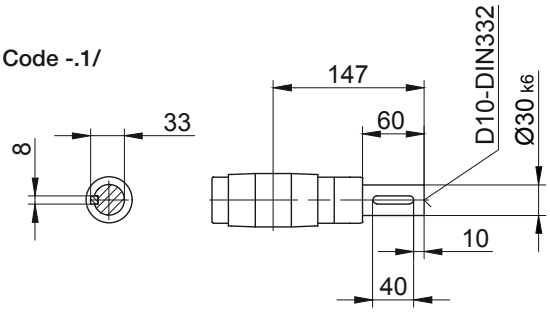
(Code -2.V/)

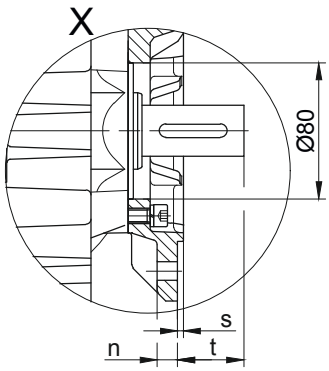


Code -.4/

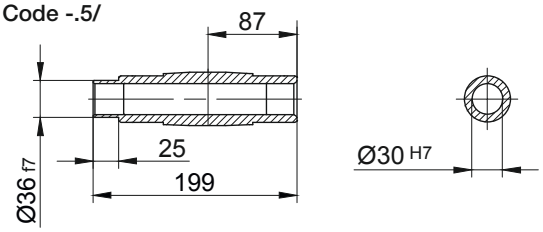


Code -.1/

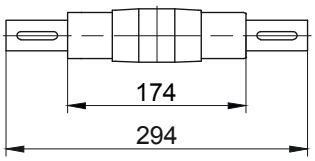


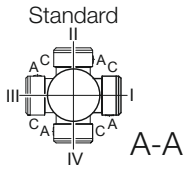


Code -.5/



Code -.3/





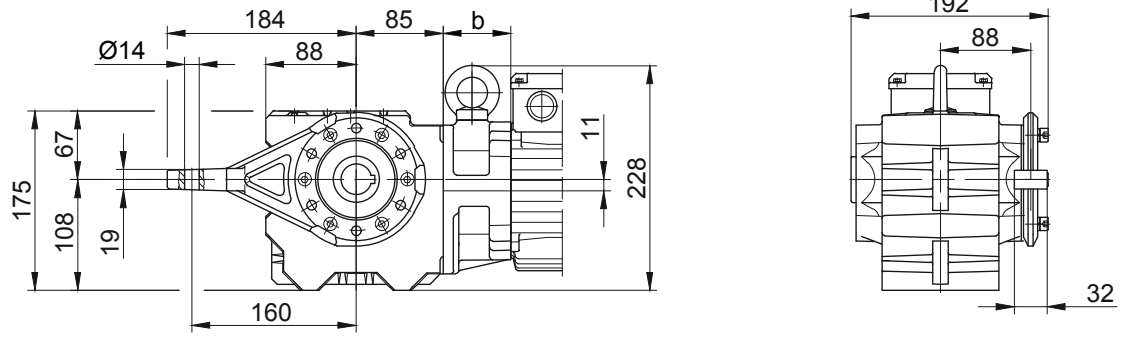
Flange Dimensions										
Type	Design	k	l	m	n	o	p	q	s	t
BS10..	Code -3.V/	200	165	130	12	11	190	108	3.5	39
BS10..	Code -2.V/	160	130	110	10	9	183	101	3.5	46
Dimensions in millimetres (mm										

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BS10Z-../S04S	142.5	86	110.5	401.5	90	112	445	489	532.5	-
BS10-../S..06 (M, L)	170.5	62	123	405.5	99	119	447.5	508	545.5	-
BS10Z-../S..06 (M, L)	170.5	88	123	431.5	99	119	473.5	534	571.5	-
BS10-../S..08 (M, L)	199.5	66	156	438.5	114.5	136.5	504.5	550.5	612	-
BS10Z-../S..08 (M, L)	199.5	132	156	504.5	114.5	136.5	570.5	616.5	678	-
BS10-../S..09 (S, X)	250.5	80.5	176	504	124	157	597	611.5	701	-
Dimensions in millimetres (mm)										

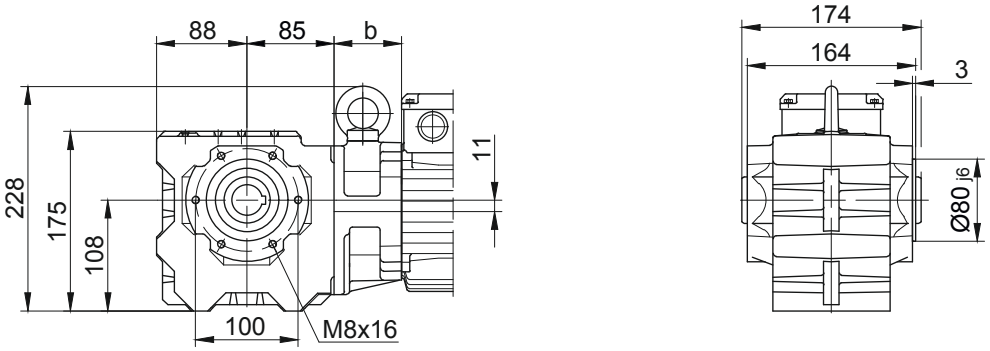
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS10-BS10Z

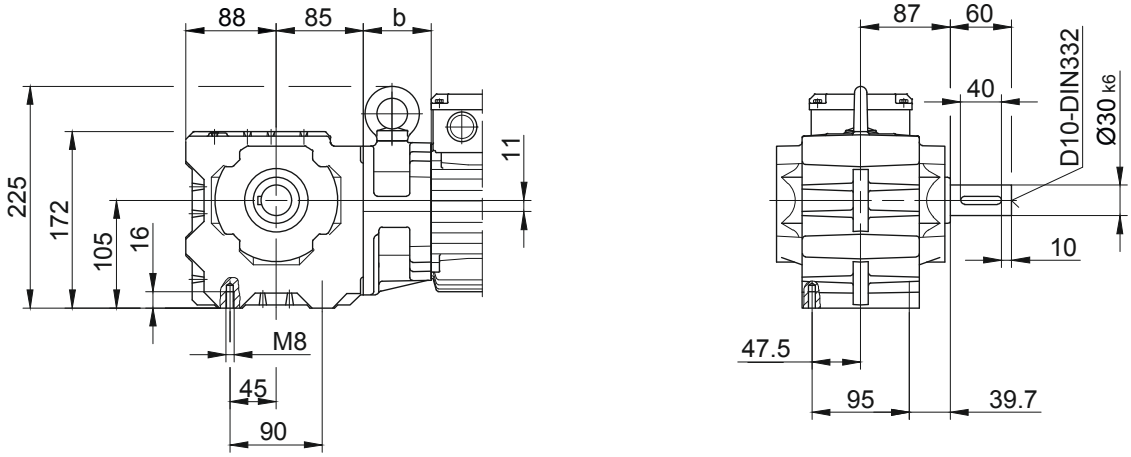
Torque arm at front
Code -5.V/



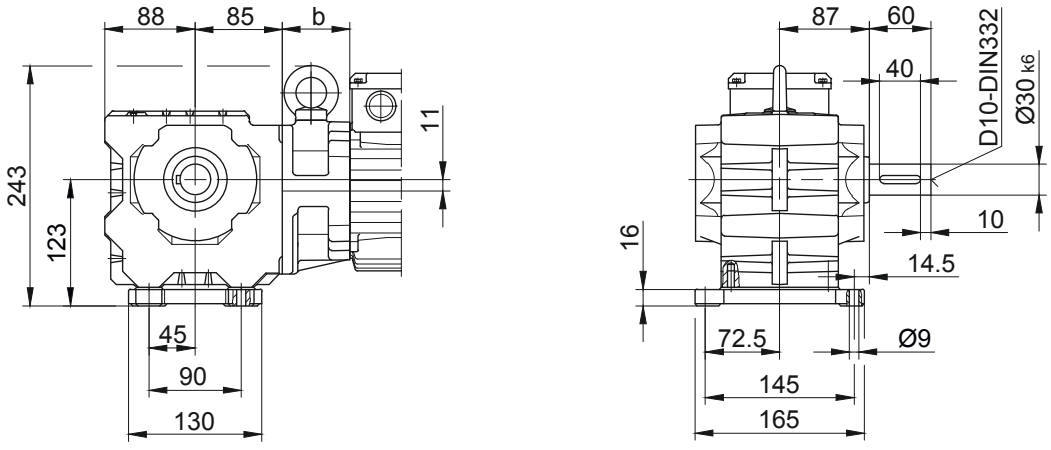
Flange with tapped holes at front
Code -7.V/



Foot with tapped holes at bottom
Code -6.U/



Foot with clearance holes at bottom
Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

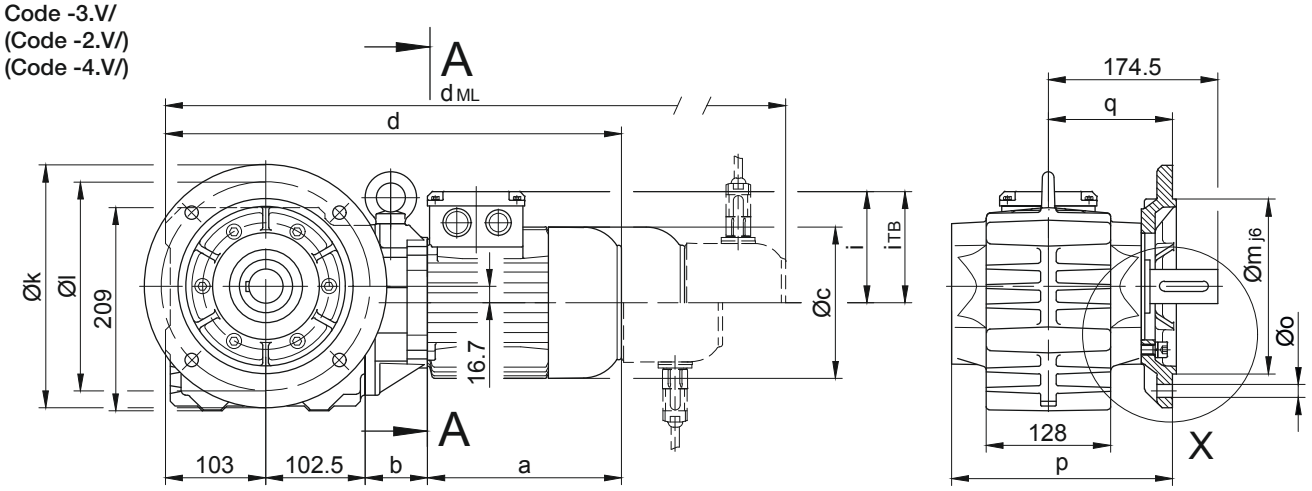
BS-series worm-geared motors

Dimension - Standard

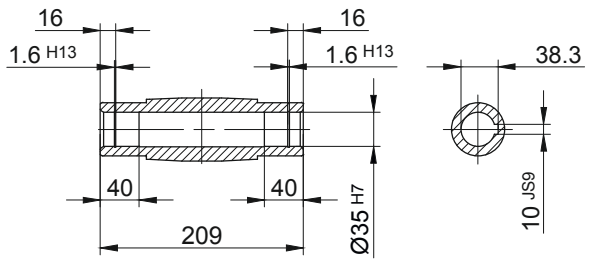
BS20-BS20Z

Flange with clearance holes at front

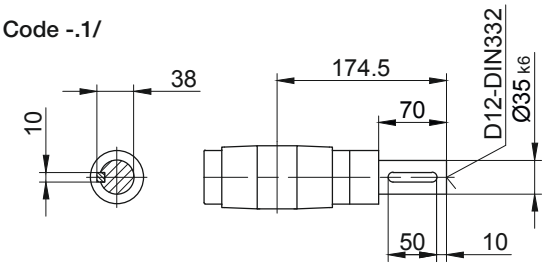
Code -3.V/
(Code -2.V/)
(Code -4.V/)

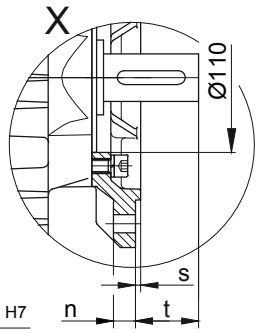


Code -.4/

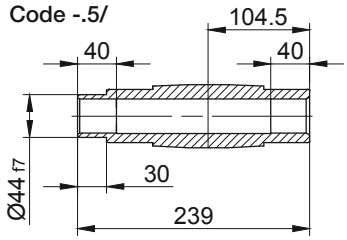


Code -.1/

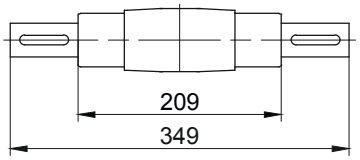


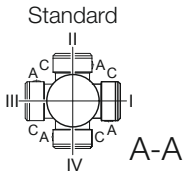


Code -.5/



Code -.3/





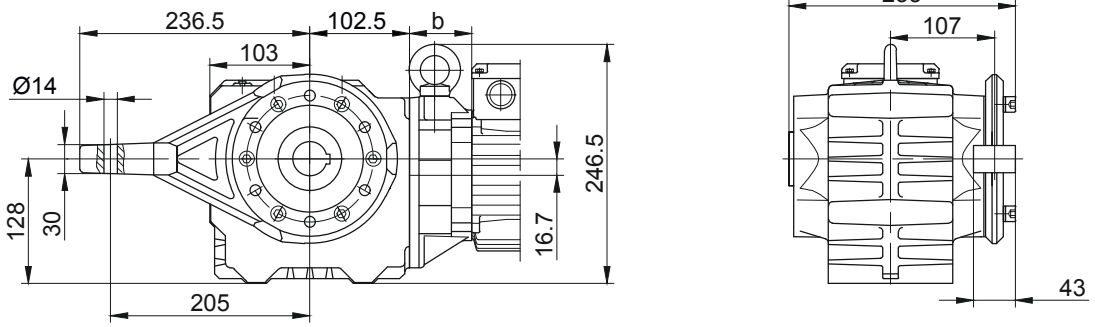
Flange Dimensions										
Type	Design	k	l	m	n	o	p	q	s	t
BS20..	Code -3.V/	250	215	180	16	13.5	227.5	128	4	46.5
BS20..	Code -2.V/	200	165	130	12	11	224.5	125	3.5	49.5
BS20..	Code -4.V/	300	265	230	20	13.5	233.5	134	4	40.5
Dimensions in millimetres (mm										

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BS20Z-../S04S	142.5	100	110.5	448	90	112	491.5	535.5	579	-
BS20-../S..06 (M, L)	170.5	60	123	436	99	119	478	538.5	576	-
BS20Z-../S..06 (M, L)	170.5	102	123	478	99	119	520	580.5	618	-
BS20-../S..08 (M, L)	199.5	64	156	469	114.5	136.5	535	581	642.5	-
BS20Z-../S..08 (M, L)	199.5	146	156	551	114.5	136.5	617	663	724.5	-
BS20-../S..09 (S, X)	250.5	78.5	176	534.5	124	157	627.5	642	731.5	-
Dimensions in millimetres (mm)										

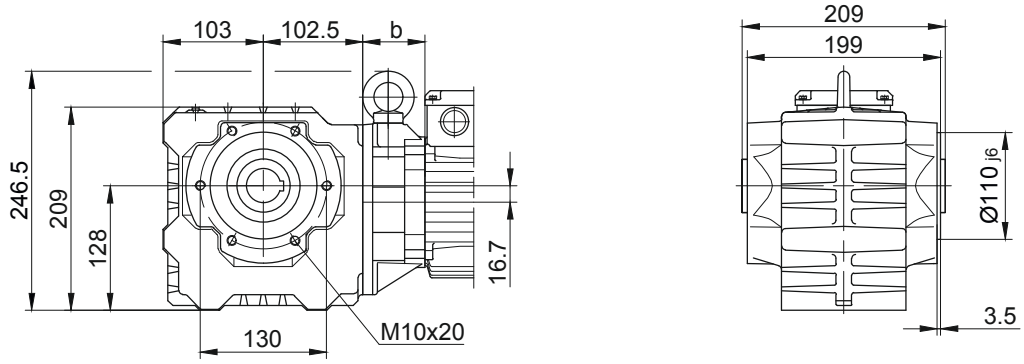
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS20-BS20Z

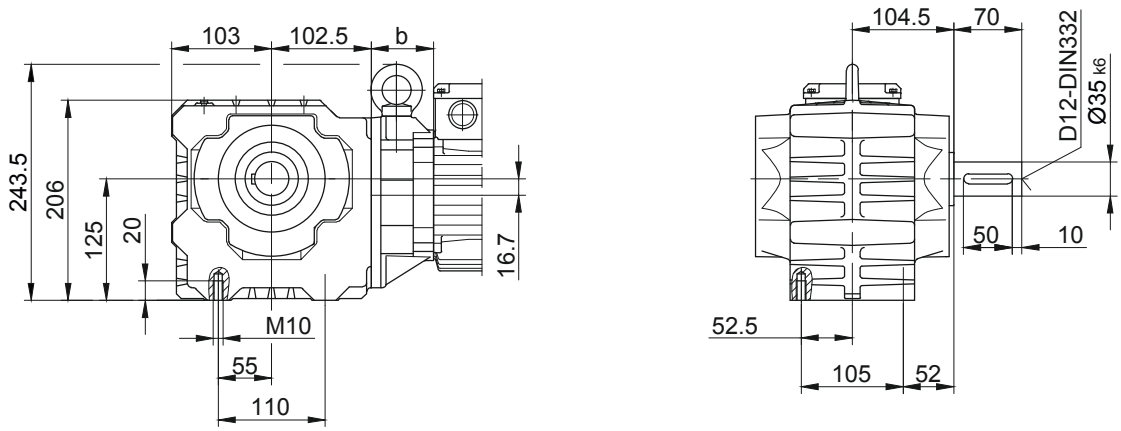
Torque arm at front
Code -5.V/



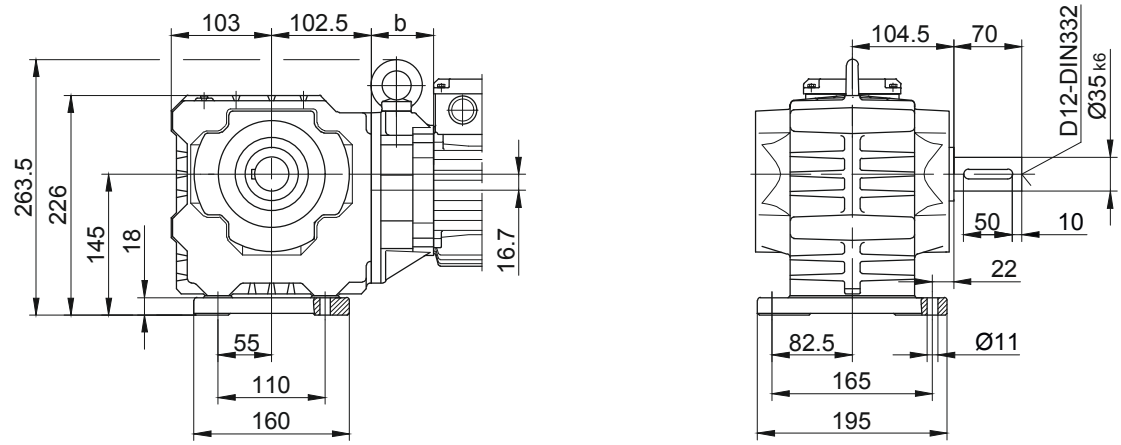
Flange with tapped holes at front
Code -7.V/



Foot with tapped holes at bottom
Code -6.U/



Foot with clearance holes at bottom
Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

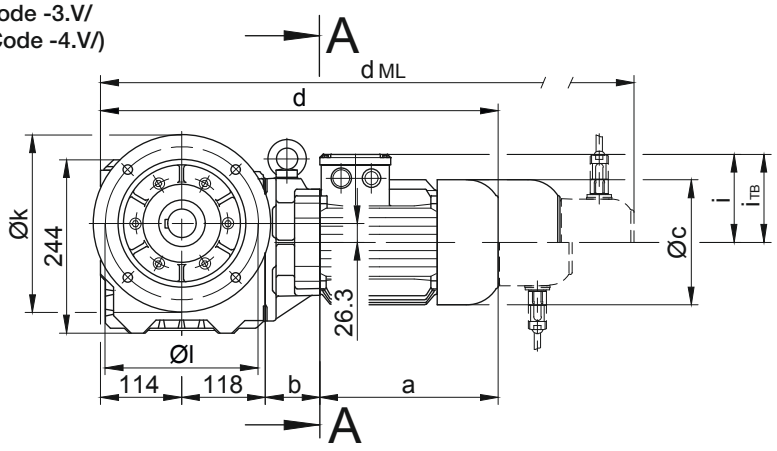
BS-series worm-geared motors

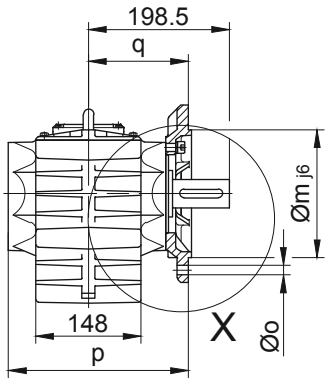
Dimension - Standard

BS30-BS30Z

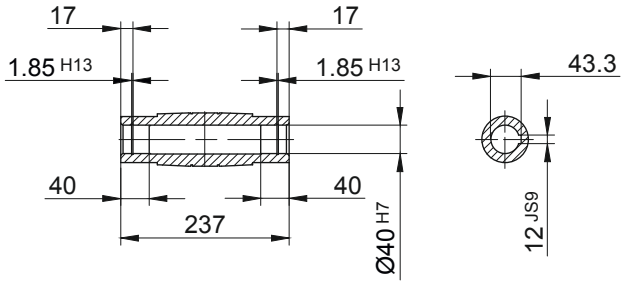
Flange with clearance holes at front

Code -3.V/
(Code -4.V/)

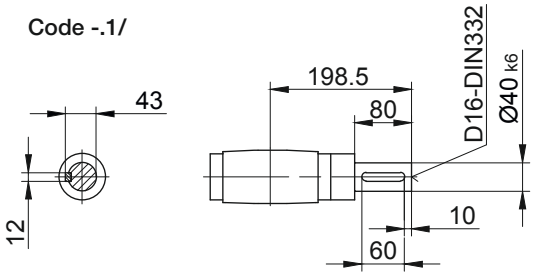




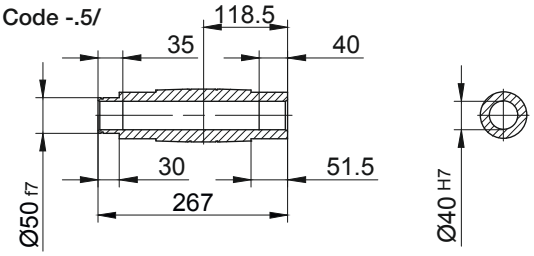
Code -.4/

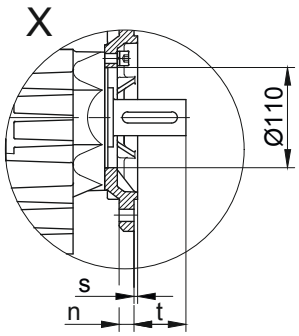


Code -.1/

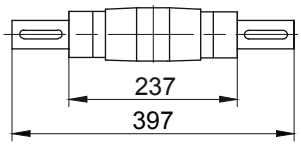


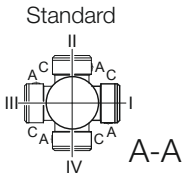
Code -.5/





Code -.3/





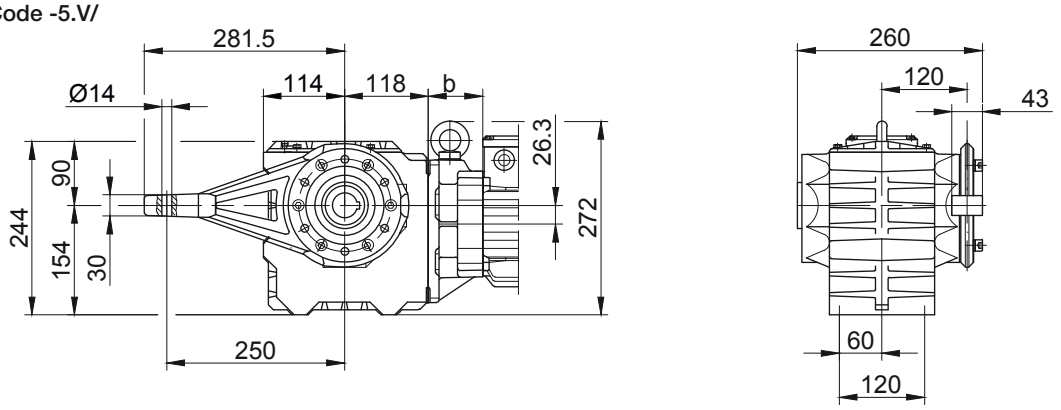
Flange Dimensions										
Type	Design	k	l	m	n	o	p	q	s	t
BS30..	Code -3.V/	250	215	180	16	13.5	253.5	141	4	57.5
BS30..	Code -4.V/	300	265	230	20	13.5	259.5	147	4	51.5
Dimensions in millimetres (mm										

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BS30-../S..06 (M, L)	170.5	58	123	460.5	99	119	502.5	563	600.5	-
BS30Z-../S..06 (M, L)	170.5	133.5	123	536	99	119	578	638.5	676	-
BS30-../S..08 (M, L)	199.5	62	156	493.5	114.5	136.5	559.5	605.5	667	-
BS30Z-../S..08 (M, L)	199.5	137.5	156	569	114.5	136.5	635	681	742.5	-
BS30-../S..09 (S, X)	250.5	76.5	176	559	124	157	652	666.5	756	-
BS30Z-../S..09 (S, X)	250.5	152	176	634.5	124	157	727.5	742	831.5	-
BS30-../S..11 (S, M, L)	319	83	218	634	165	176	732	741.5	834	-
Dimensions in millimetres (mm)										

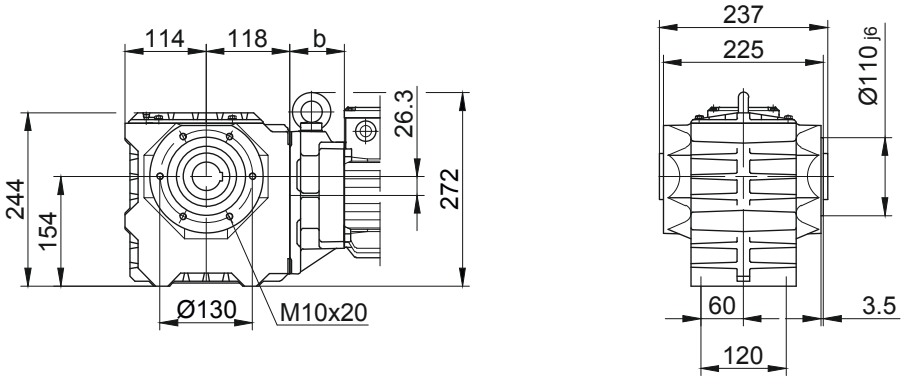
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS30-BS30Z

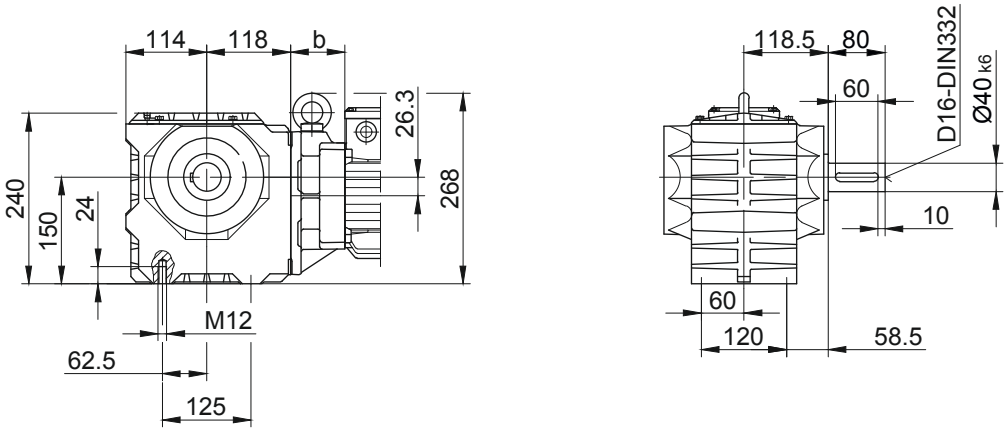
Torque arm at front
Code -5.V/



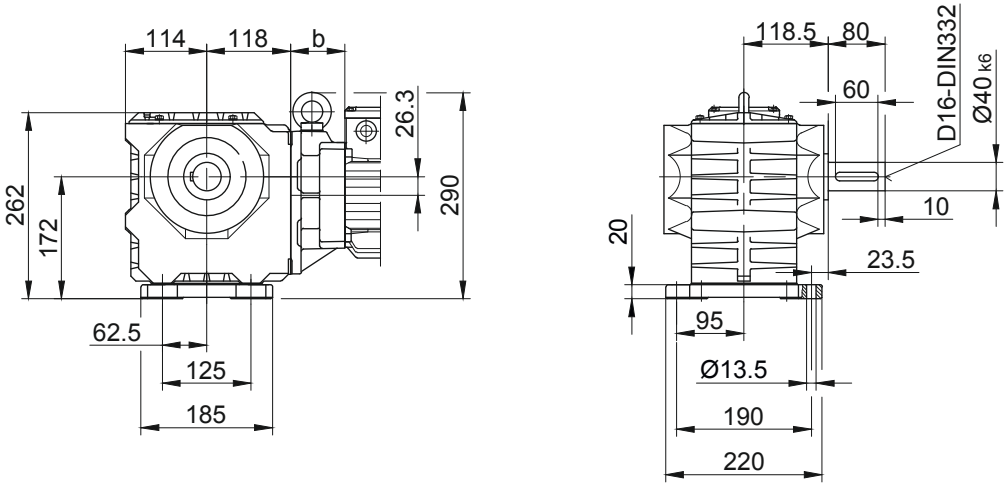
Flange with tapped holes at front
Code -7.V/



Foot with tapped holes at bottom
Code -6.U/



Foot with clearance holes at bottom
Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

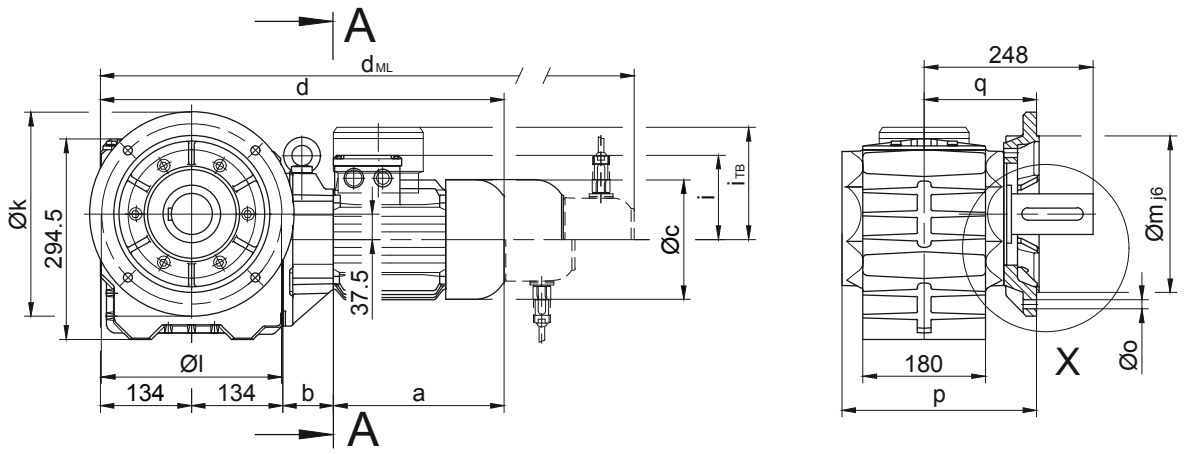
BS-series worm-geared motors

Dimension - Standard

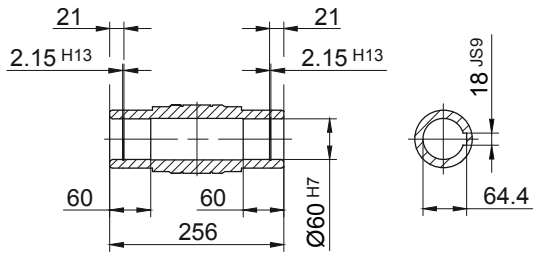
BS40-BS40Z

Flange with clearance holes at front

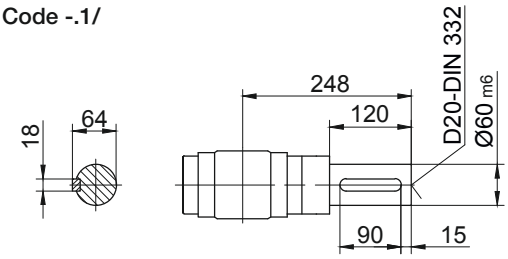
Code -3.V/

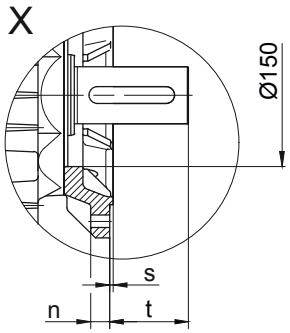


Code -.4/

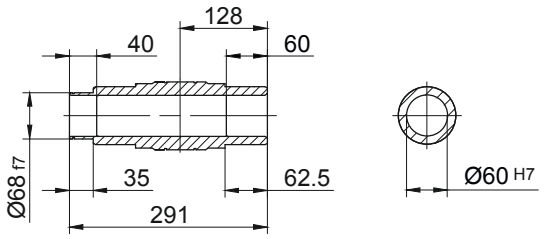


Code -.1/

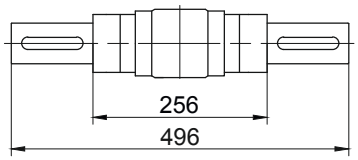


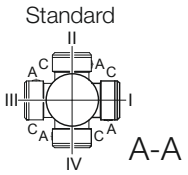


Code -.5/



Code -.3/





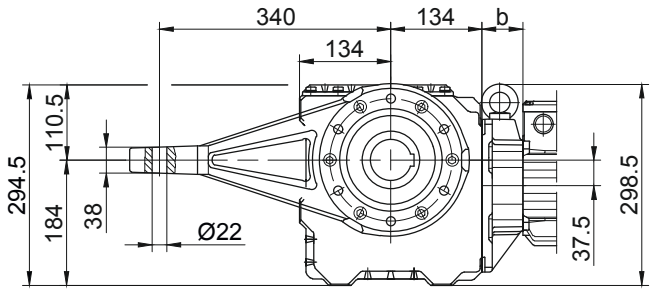
Flange Dimensions										
Type	Design	k	l	m	n	o	p	q	s	t
BS40..	Code -3.V/	300	265	230	20	13.5	286	165	4	83
Dimensions in millimetres (mm										

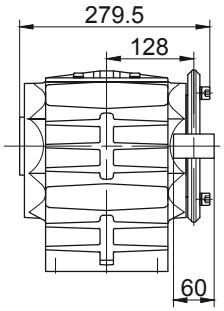
Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BS40Z-../S..06 (M, L)	170.5	138.5	123	577	99	119	619	679.5	717	-
BS40-../S..08 (M, L)	199.5	60	156	527.5	114.5	136.5	593.5	639.5	701	-
BS40Z-../S..08 (M, L)	199.5	142.5	156	610	114.5	136.5	676	722	783.5	-
BS40-../S..09 (S, X)	250.5	74.5	176	593	124	157	686	700.5	790	-
BS40Z-../S..09 (S, X)	250.5	157	176	675.5	124	157	768.5	783	872.5	-
BS40-../S..11 (S, M, L)	319	81	218	668	165	176	766	775.5	868	-
Dimensions in millimetres (mm)										

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

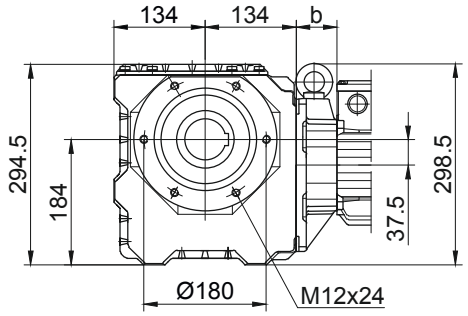
BS40-BS40Z

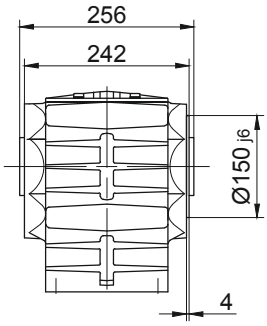
Torque arm at front
Code -5.V/



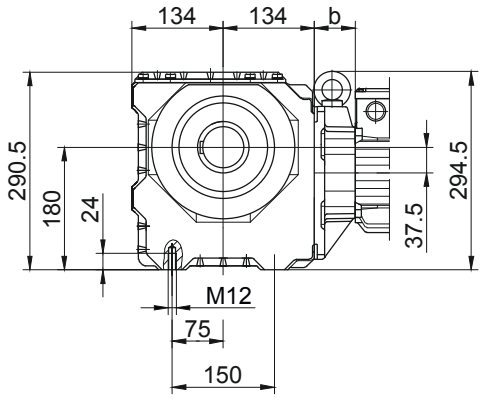


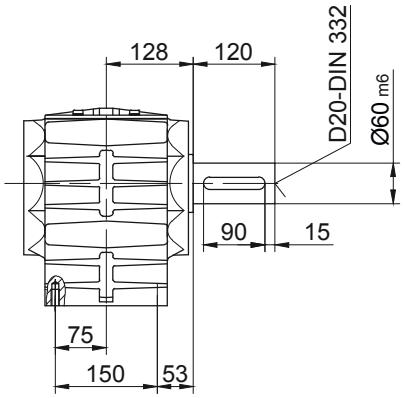
Flange with tapped holes at front
Code -7.V/



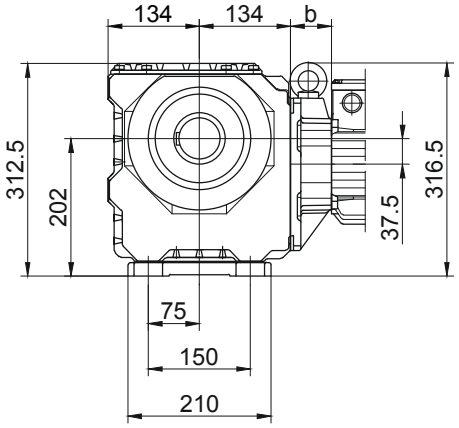


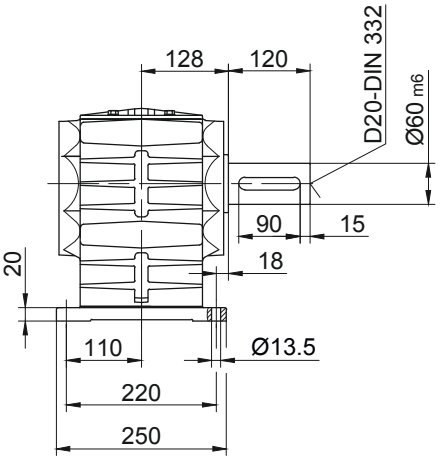
Foot with tapped holes at bottom
Code -6.U/





Foot with clearance holes at bottom
Code -1.U/





The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

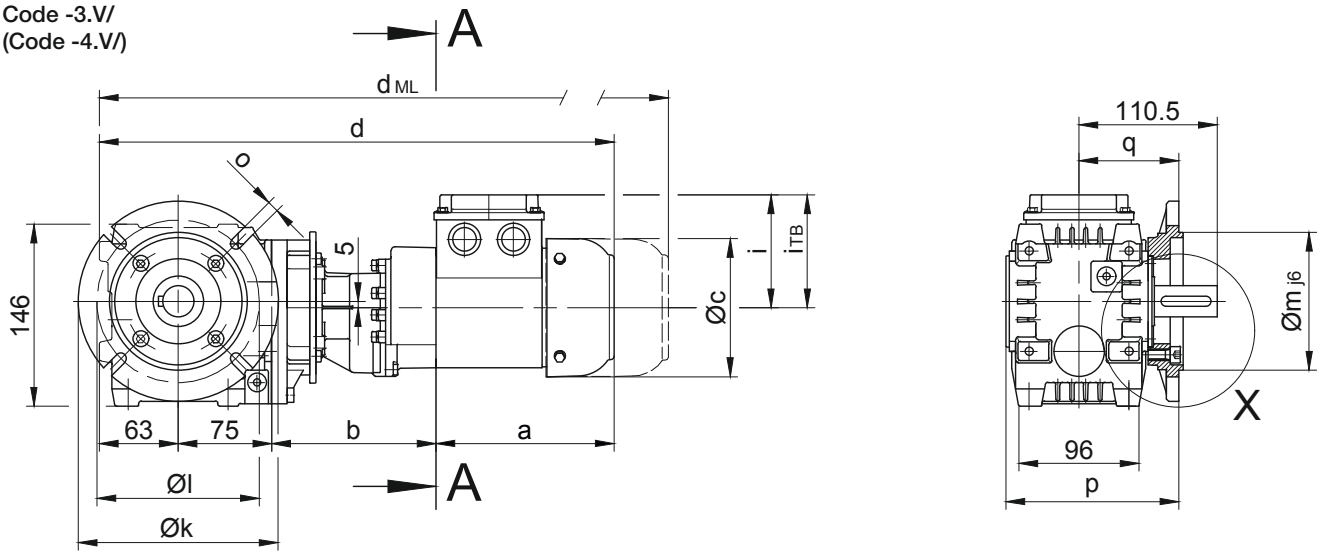
BS-series worm-geared motors

Dimension - Tandem Gearbox

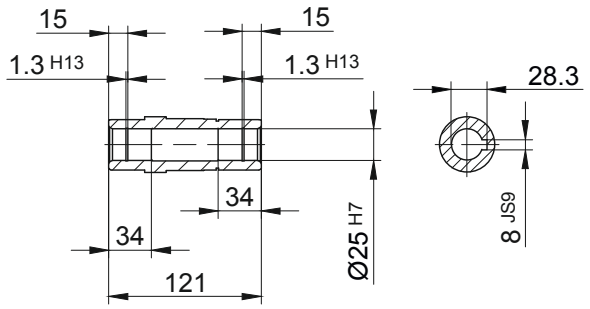
BS06G04

Flange with clearance holes at front

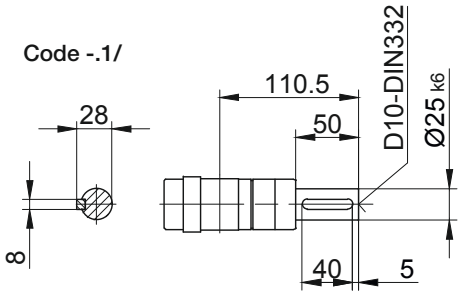
Code -3.V/
(Code -4.V/)

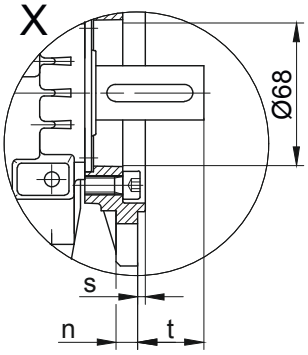


Code -.4/
Standard

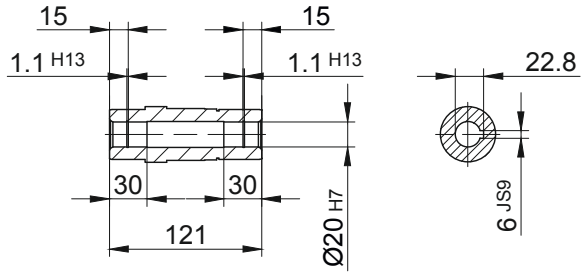


Code -.1/

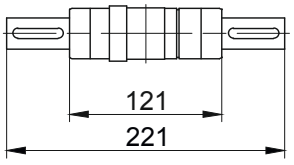


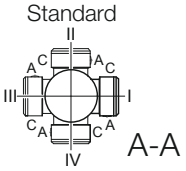


Code -.4/K20



Code -.3/





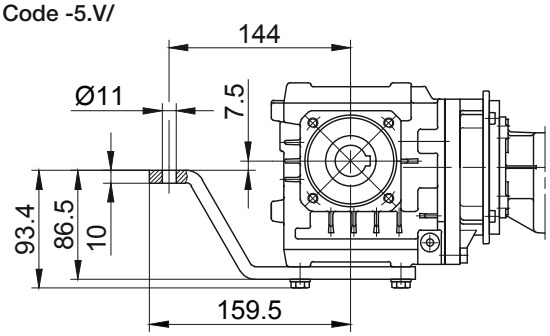
Flange Dimensions										
Type	Design	k	l	m	n	o	p	q	s	t
BS06..	Code -3.V/	140	115	95	10	9	138.3	80	3	30.5
BS06..	Code -4.V/	160	130	110	10	9	138.3	80	3.5	30.5
Dimensions in millimetres (mm										

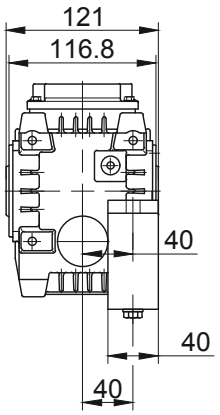
Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BS06G04-../S04S	142.5	131	110.5	411.5	90	112	455	499	542.5	-
Dimensions in millimetres (mm)										

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

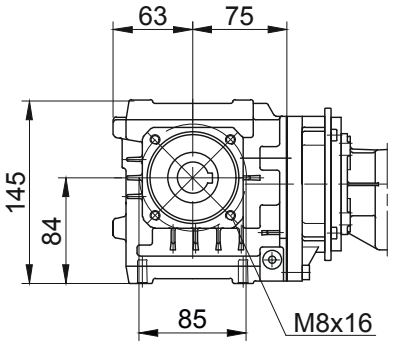
BS06G04

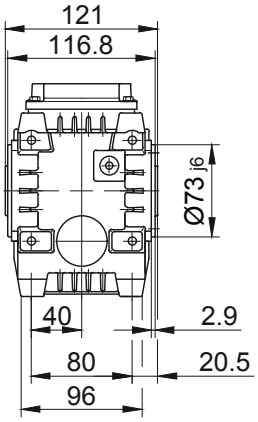
Torque arm at front
Code -5.V/



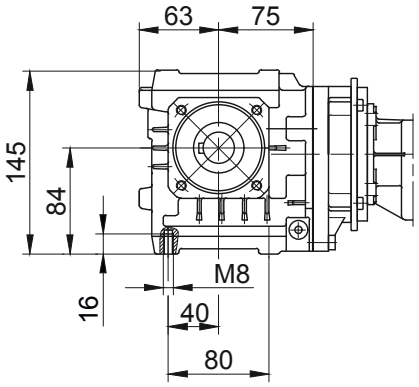


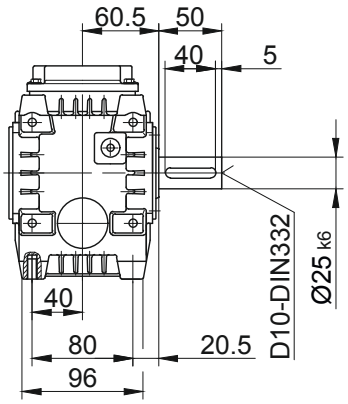
Flange with tapped holes at front
Code -7.V/



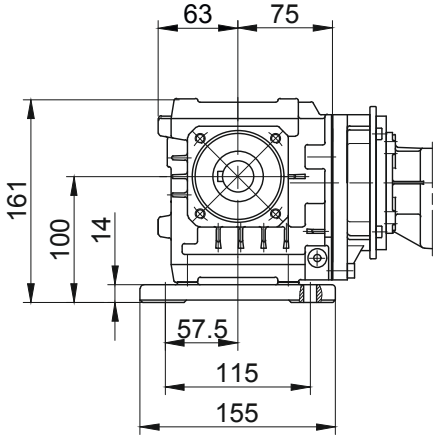


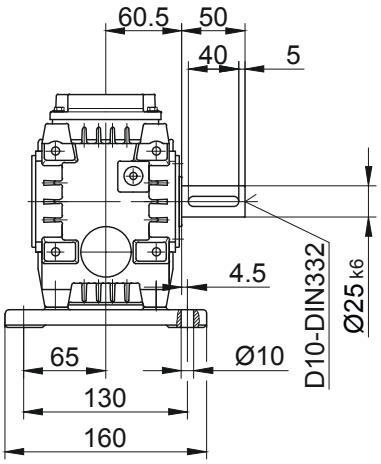
Foot with tapped holes at bottom
Code -6.U/





Foot with clearance holes at bottom
Code -1.U/





13

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

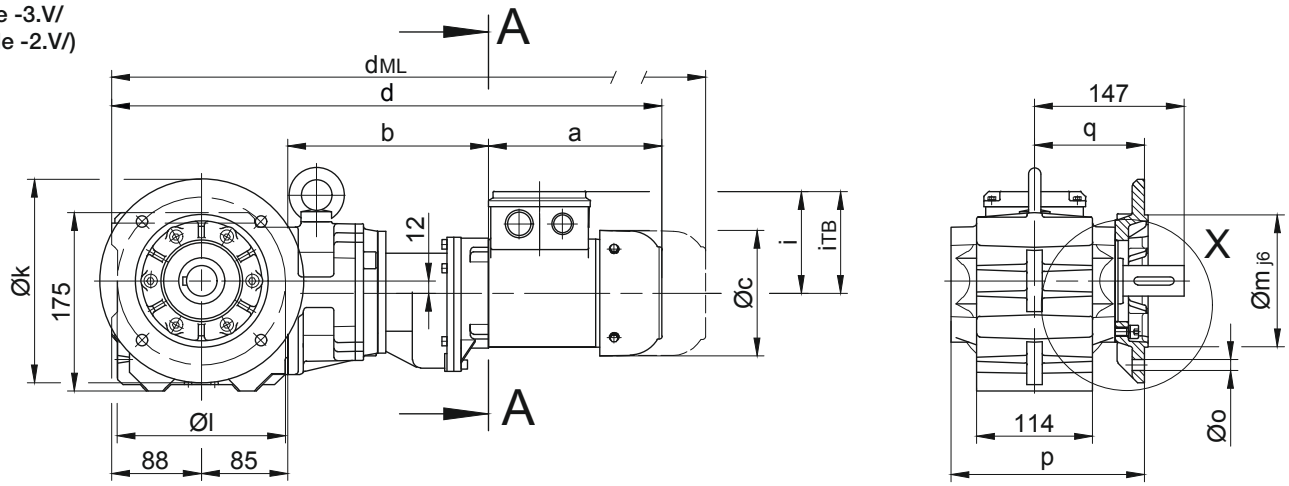
BS-series worm-geared motors

Dimension - Tandem Gearbox

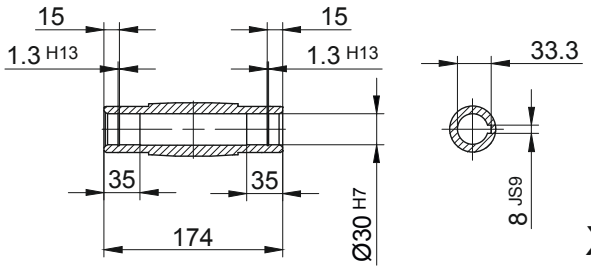
BS10G06

Flange with clearance holes at front

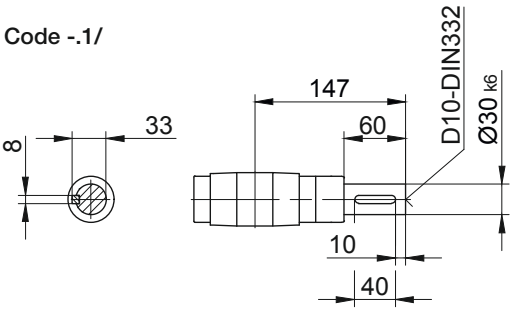
Code -3.V/
(Code -2.V/)



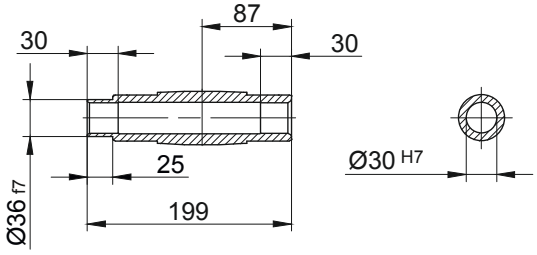
Code -.4/

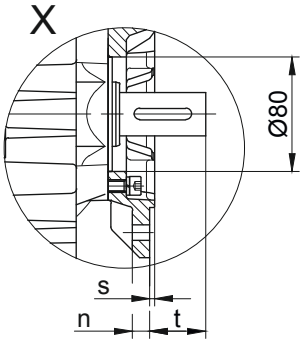


Code -.1/

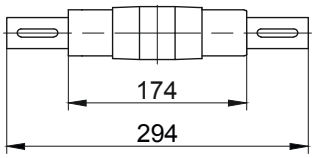


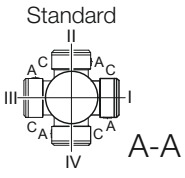
Code -.5/





Code -.3/





Flange Dimensions										
Type	Design	k	l	m	n	o	p	q	s	t
BS10..	Code -3.V/	200	165	130	12	11	190	108	3.5	39
BS10..	Code -2.V/	160	130	110	10	9	183	101	3.5	46
Dimensions in millimetres (mm										

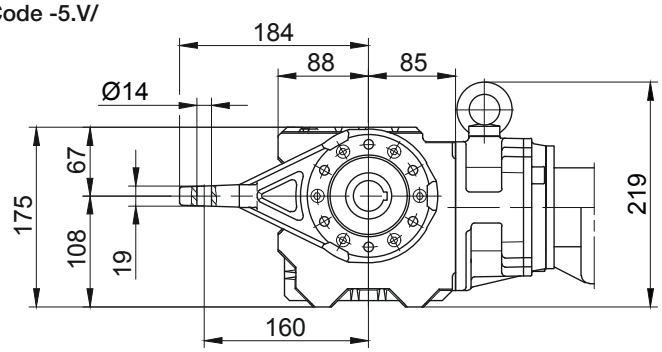
Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BS10G06-../S04S	142.5	195	110.5	510.5	90	112	554	598	641.5	-
BS10G06-../S..06 (M, L)	170.5	197	123	540.5	99	119	582.5	643	680.5	-
BS10G06-../S..08 (M, L)	199.5	241	156	613.5	114.5	136.5	679.5	725.5	787	-
Dimensions in millimetres (mm)										

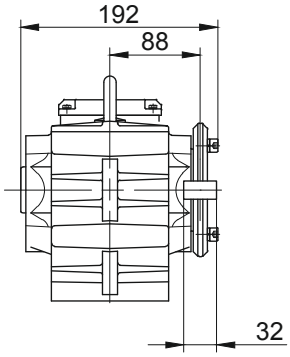
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS10G06

Torque arm at front

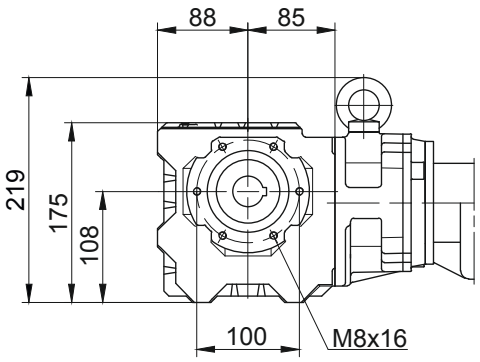
Code -5.V/

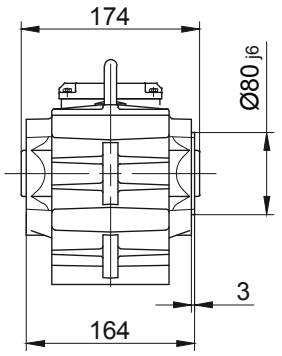




Flange with tapped holes at front

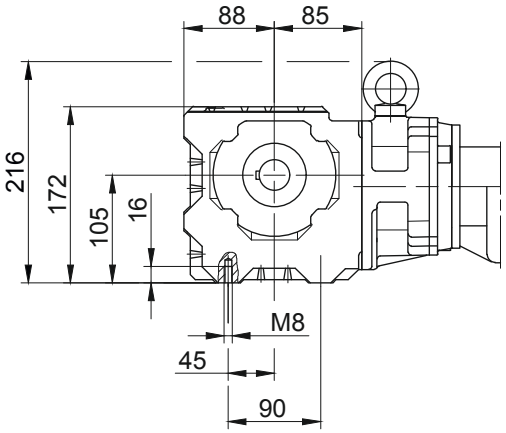
Code -7.V/

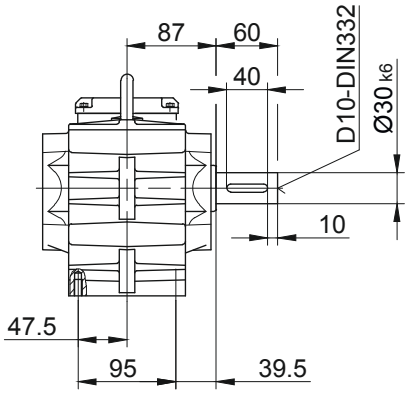




Foot with tapped holes at bottom

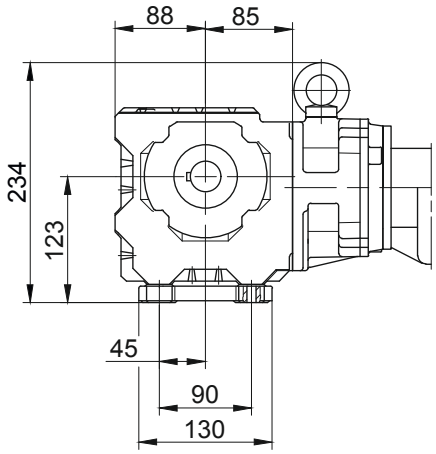
Code -6.U/

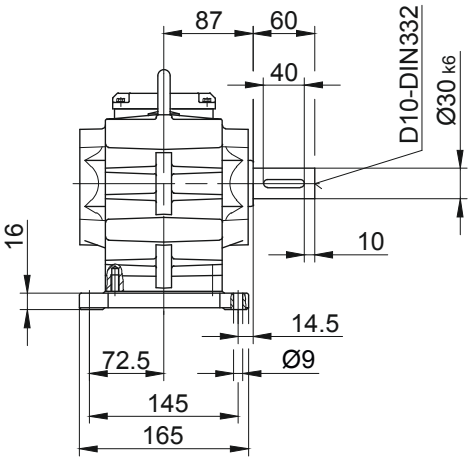




Foot with clearance holes at bottom

Code -1.U/





The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

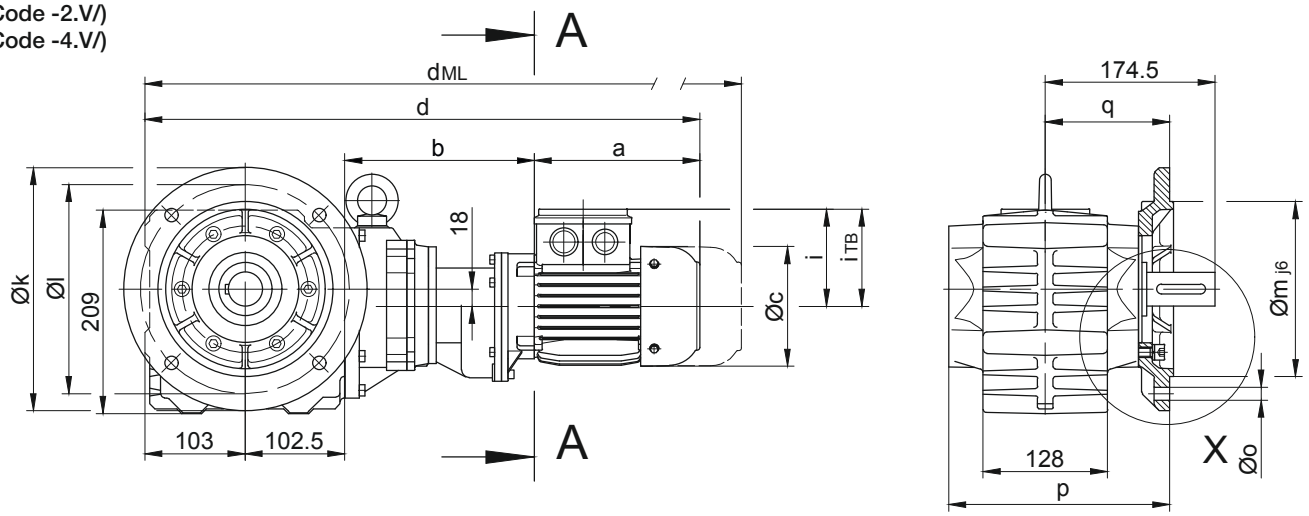
BS-series worm-geared motors

Dimension - Tandem Gearbox

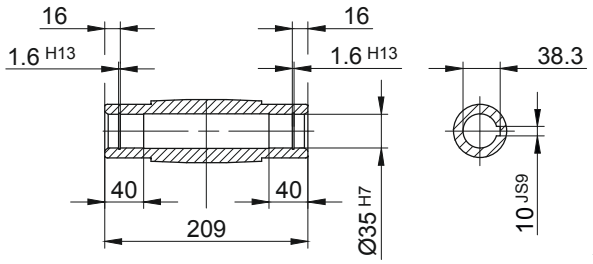
BS20G06

Flange with clearance holes at front

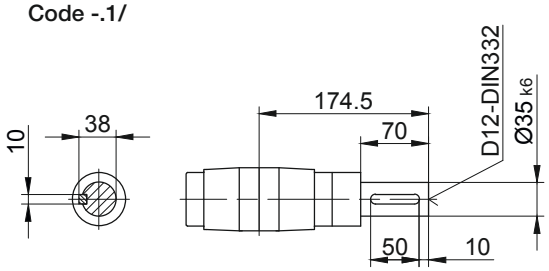
Code -3.V/
(Code -2.V/)
(Code -4.V/)

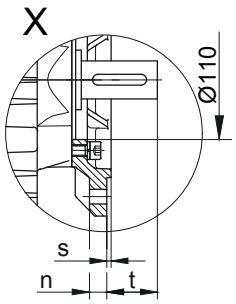


Code -.4/

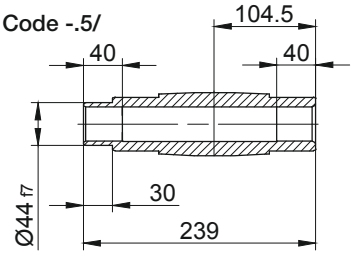


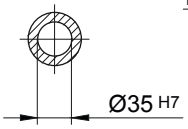
Code -.1/



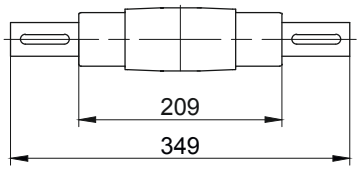


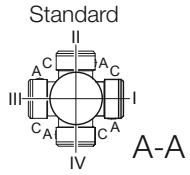
Code -.5/





Code -.3/





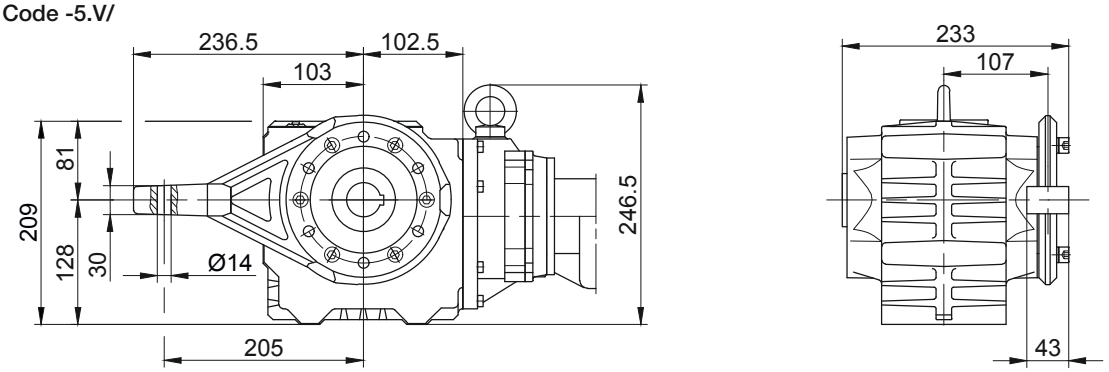
Flange Dimensions										
Type	Design	k	l	m	n	o	p	q	s	t
BS20..	Code -3.V/	250	215	180	16	13.5	227.5	128	4	46.5
BS20..	Code -2.V/	200	165	130	12	11	224.5	125	3.5	49.5
BS20..	Code -4.V/	300	265	230	20	13.5	233.5	134	4	40.5
Dimensions in millimetres (mm										

Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BS20G06-../S04S	142.5	193	110.5	541	90	112	584.5	628.5	672	-
BS20G06-../S..06 (M, L)	170.5	195	123	571	99	119	613	673.5	711	-
BS20G06-../S..08 (M, L)	199.5	239	156	644	114.5	136.5	710	756	817.5	-
Dimensions in millimetres (mm)										

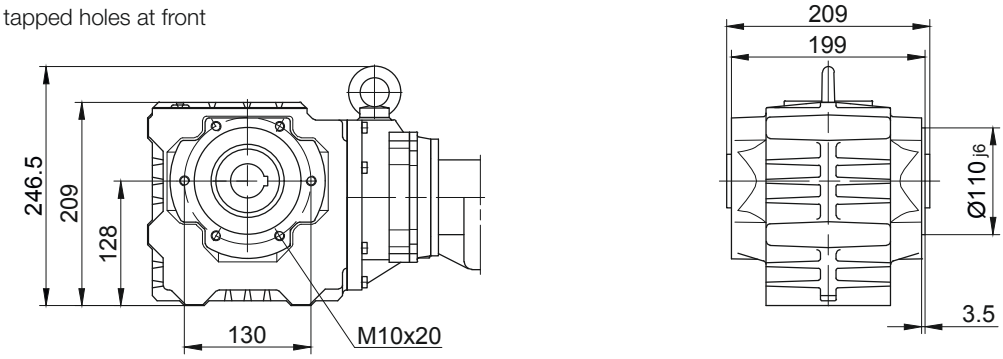
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS20G06

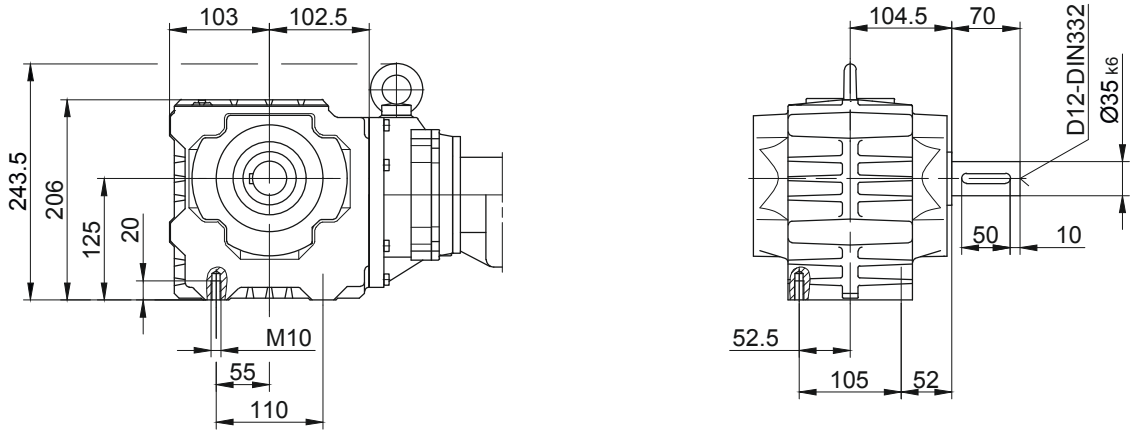
Torque arm at front
Code -5.V/



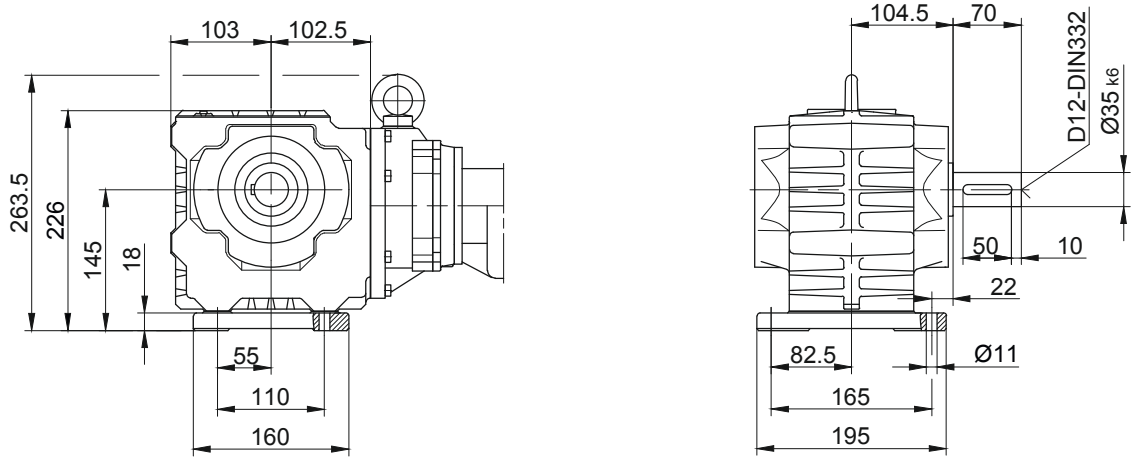
Flange with tapped holes at front
Code -7.V/



Foot with tapped holes at bottom
Code -6.U/



Foot with clearance holes at bottom
Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

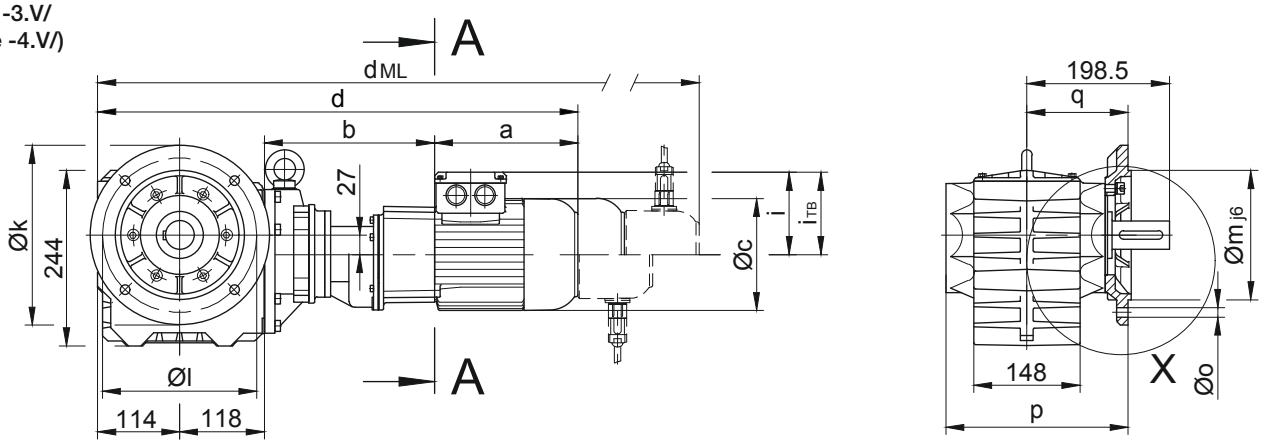
BS-series worm-geared motors

Dimension - Tandem Gearbox

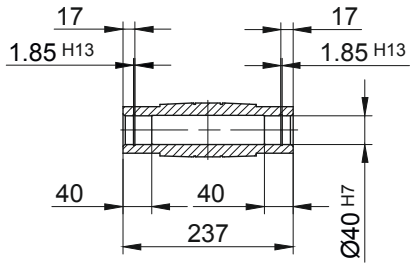
BS30G06

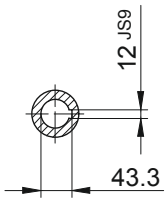
Flange with clearance holes at front

Code -3.V/
(Code -4.V/)

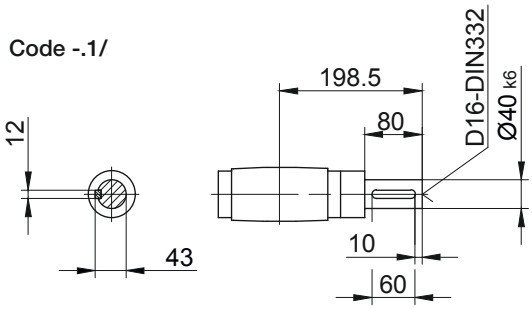


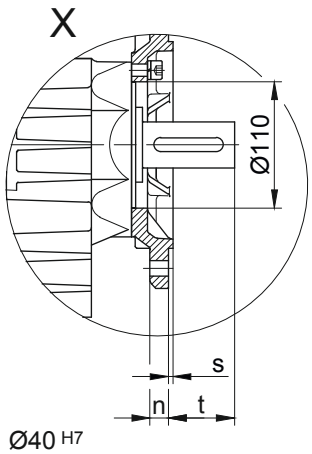
Code -.4/



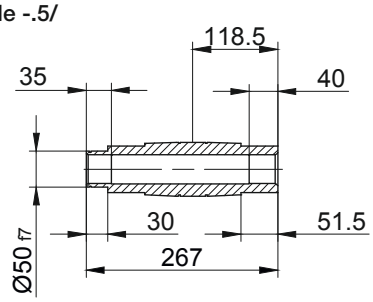


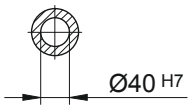
Code -.1/



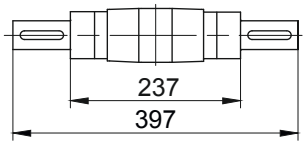


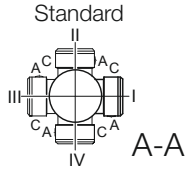
Code -.5/





Code -.3/





Flange Dimensions										
Type	Design	k	l	m	n	o	p	q	s	t
BS30..	Code -3.V/	250	215	180	16	13.5	253.5	141	4	57.5
BS30..	Code -4.V/	300	265	230	20	13.5	259.5	147	4	51.5
Dimensions in millimetres (mm										

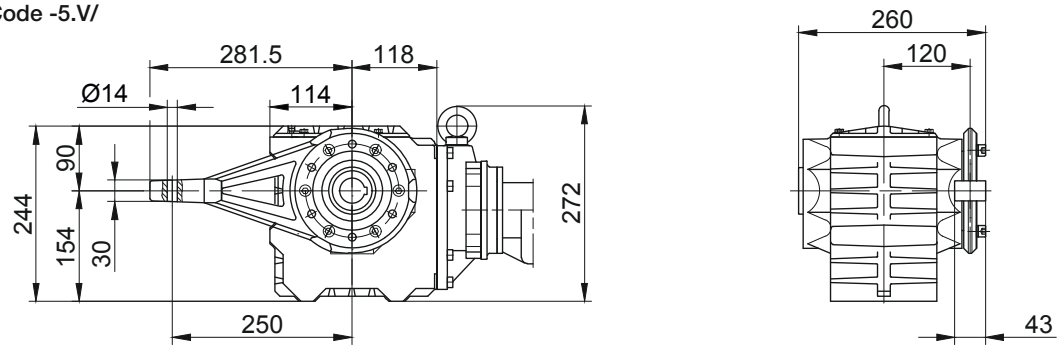
Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BS30G06-../S04S	142.5	191	110.5	565.5	90	112	609	653	696.5	-
BS30G06-../S..06 (M, L)	170.5	193	123	595.5	99	119	637.5	698	735.5	-
BS30G06-../S..08 (M, L)	199.5	237	156	668.5	114.5	136.5	734.5	780.5	842	-
Dimensions in millimetres (mm)										

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS30G06

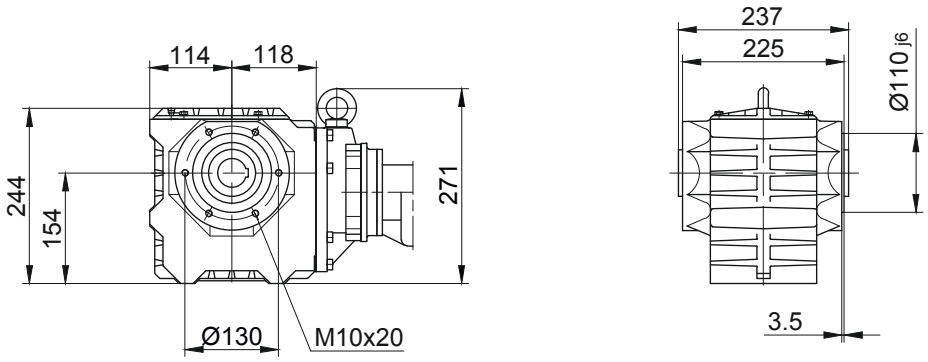
Torque arm at front

Code -5.V/



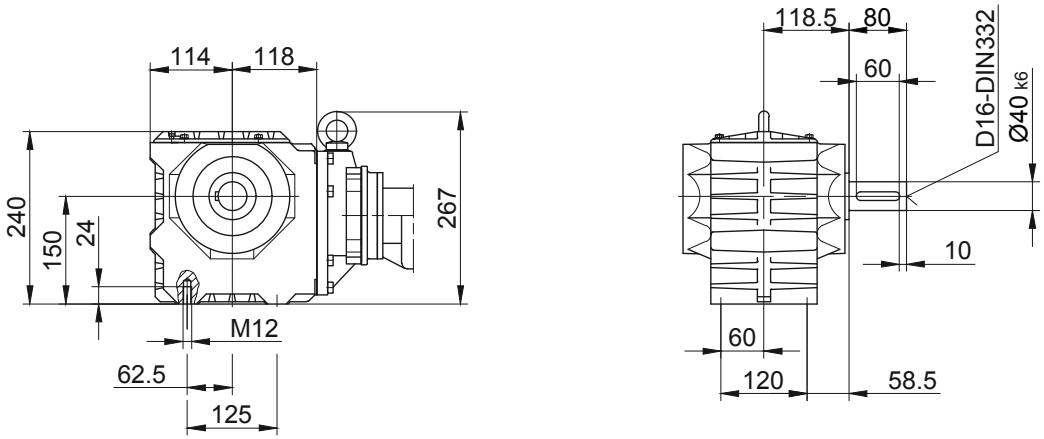
Flange with tapped holes at front

Code -7.V/



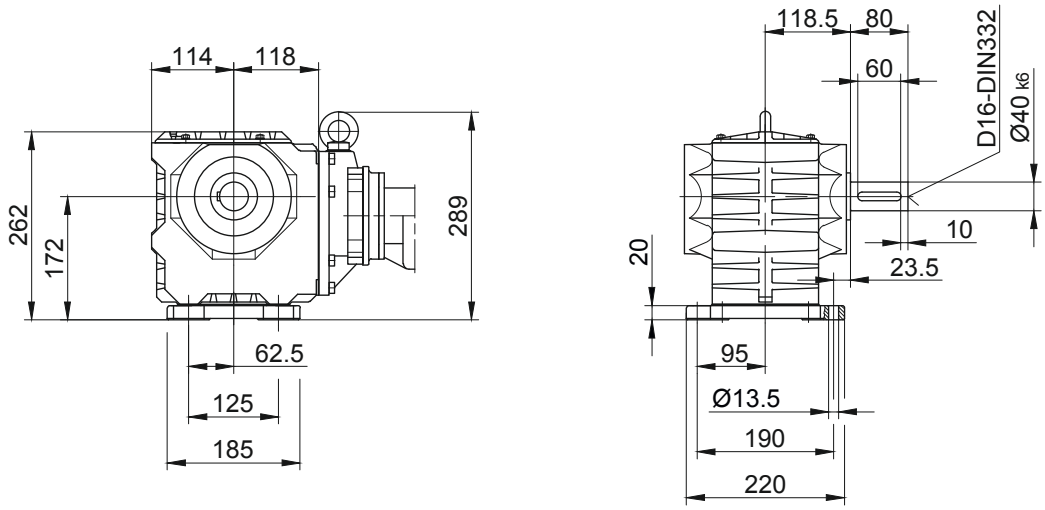
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

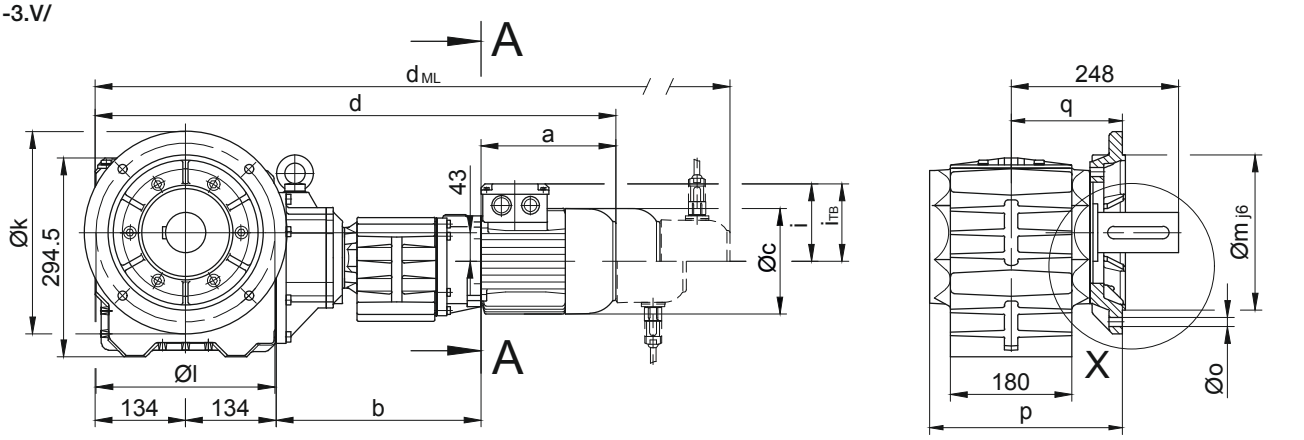
BS-series worm-geared motors

Dimension - Tandem Gearbox

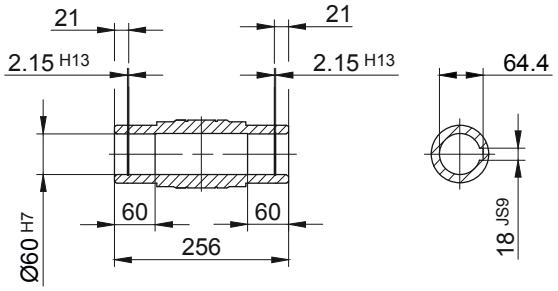
BS40G10

Flange with clearance holes at front

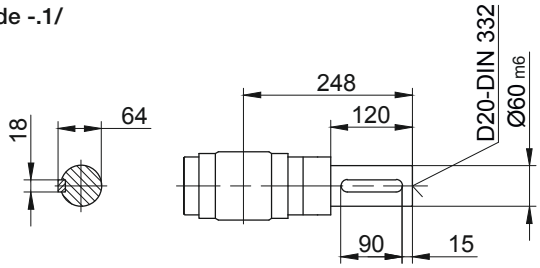
Code -3.V/

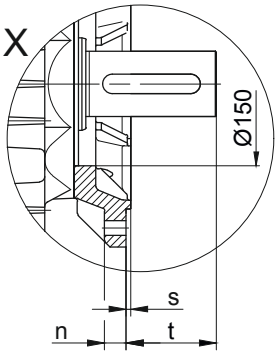


Code -.4/

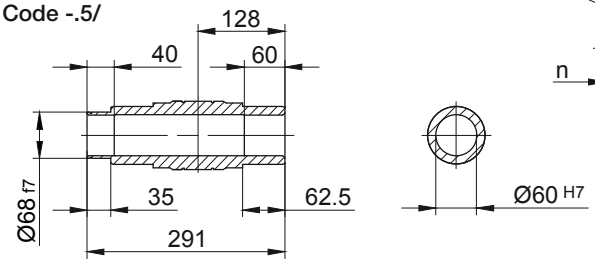


Code -.1/

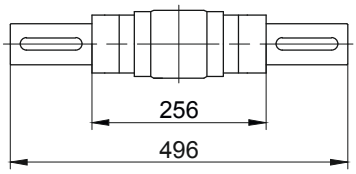


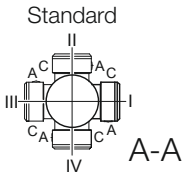


Code -.5/



Code -.3/





Flange Dimensions										
Type	Design	k	l	m	n	o	p	q	s	t
BS40..	Code -3.V/	300	265	230	20	13.5	286	165	4	83
Dimensions in millimetres (mm										

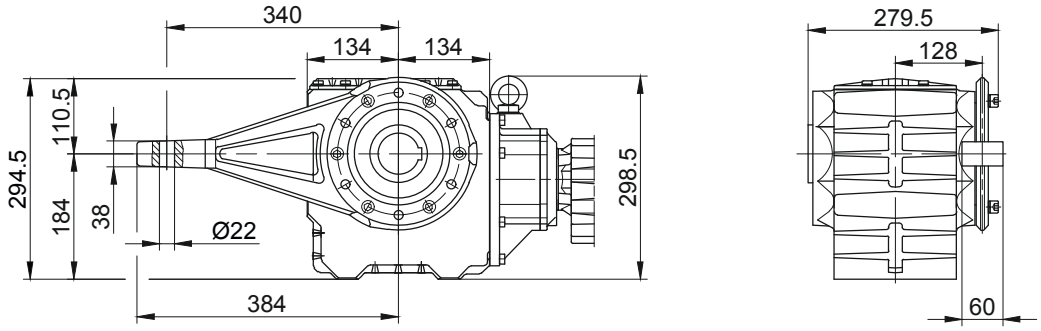
Type	a	b	c	d	i	Design with motor extensions				
						i_{TB}	Brake	Encoder	Brake with Encoder	Back Stop
							d_{ML}	d_{ML}	d_{ML}	d_{ML}
BS40G10-../S..06 (M, L)	170.5	300	123	738.5	99	119	780.5	841	878.5	-
BS40G10-../S..08 (M, L)	199.5	304	156	771.5	114.5	136.5	837.5	883.5	945	-
BS40G10-../S..09 (S, X)	250.5	318.5	176	837	124	157	930	944.5	1034	-
Dimensions in millimetres (mm)										

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS40G10

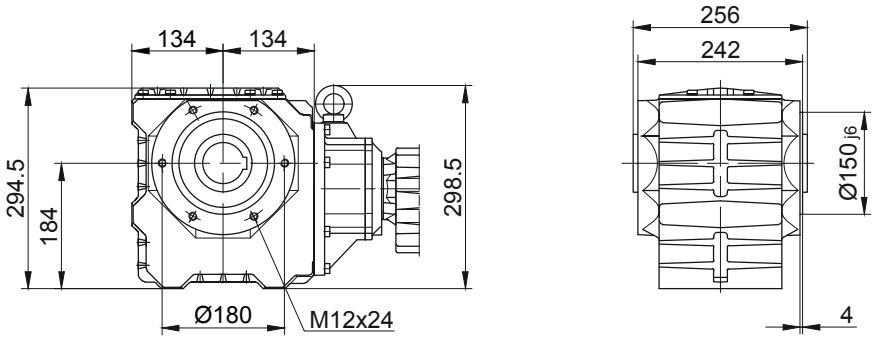
Torque arm at front

Code -5.V/



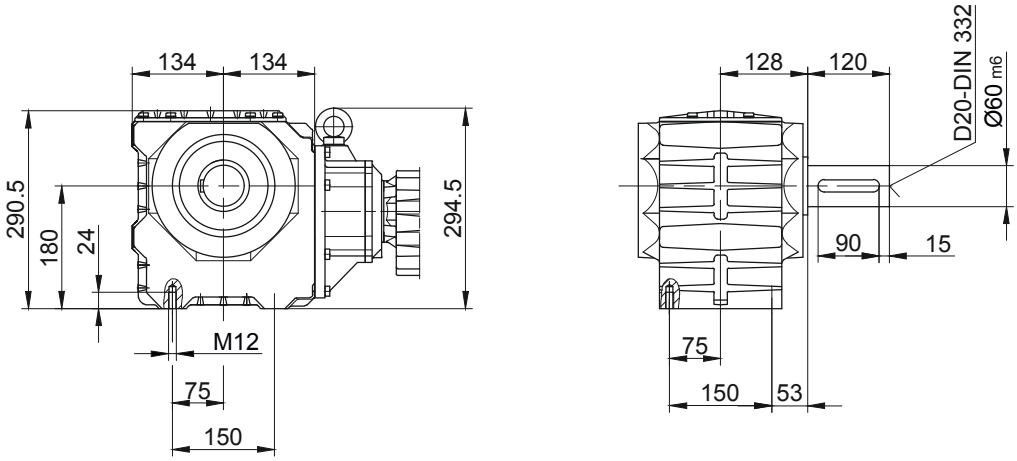
Flange with tapped holes at front

Code -7.V/



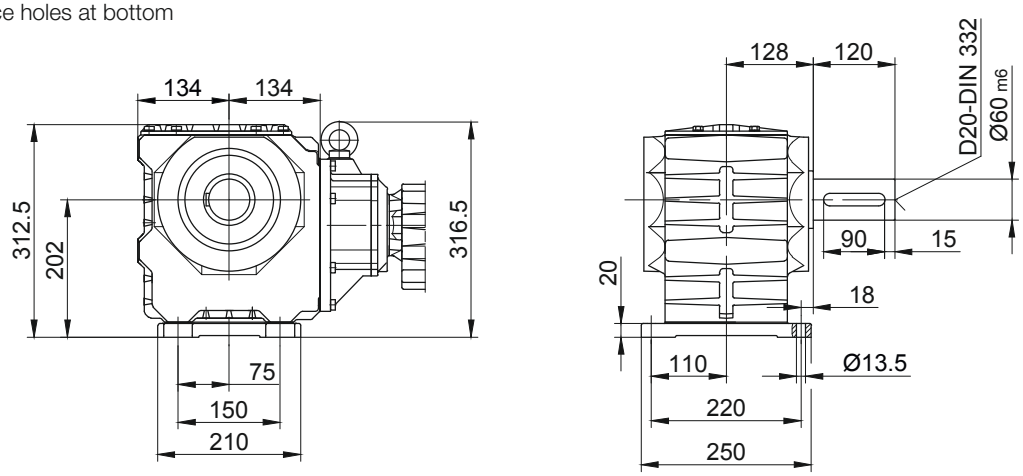
Foot with tapped holes at bottom

Code -6.U/



Foot with clearance holes at bottom

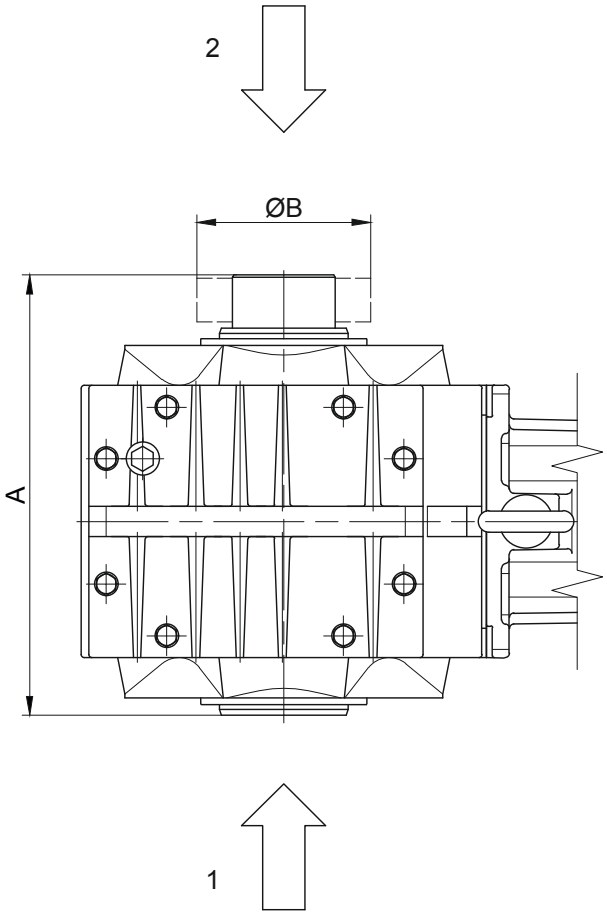
Code -1.U/



The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Shrink disc couplings (SSV)

(Code BS10-.5A/...)



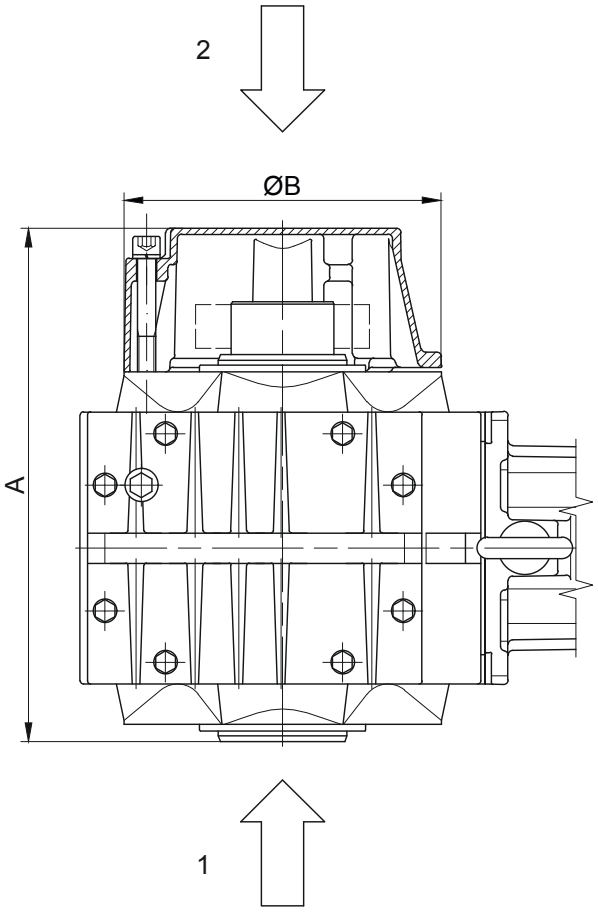
1 Gear side FRONT (V)
2 Gear side REAR (H)

Type	SSV Ringfeder	SSV STÜWE	A	B
BS10	RfN 4161 036x072	HSD 36-22x36	199	72
BS20	RfN 4161 044x080	HSD 44-22x44	239	80
BS30	RfN 4161 050x090	HSD 50-22x50	267	90
BS40	RfN 4161 062x110	HSD 68-22x68	291	115
Dimensions in millimetres (mm)				

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Shrink disc couplings with (SSV) cover

(Code BS10-.5A/...)



1 Gear side FRONT (V)
2 Gear side REAR (H)

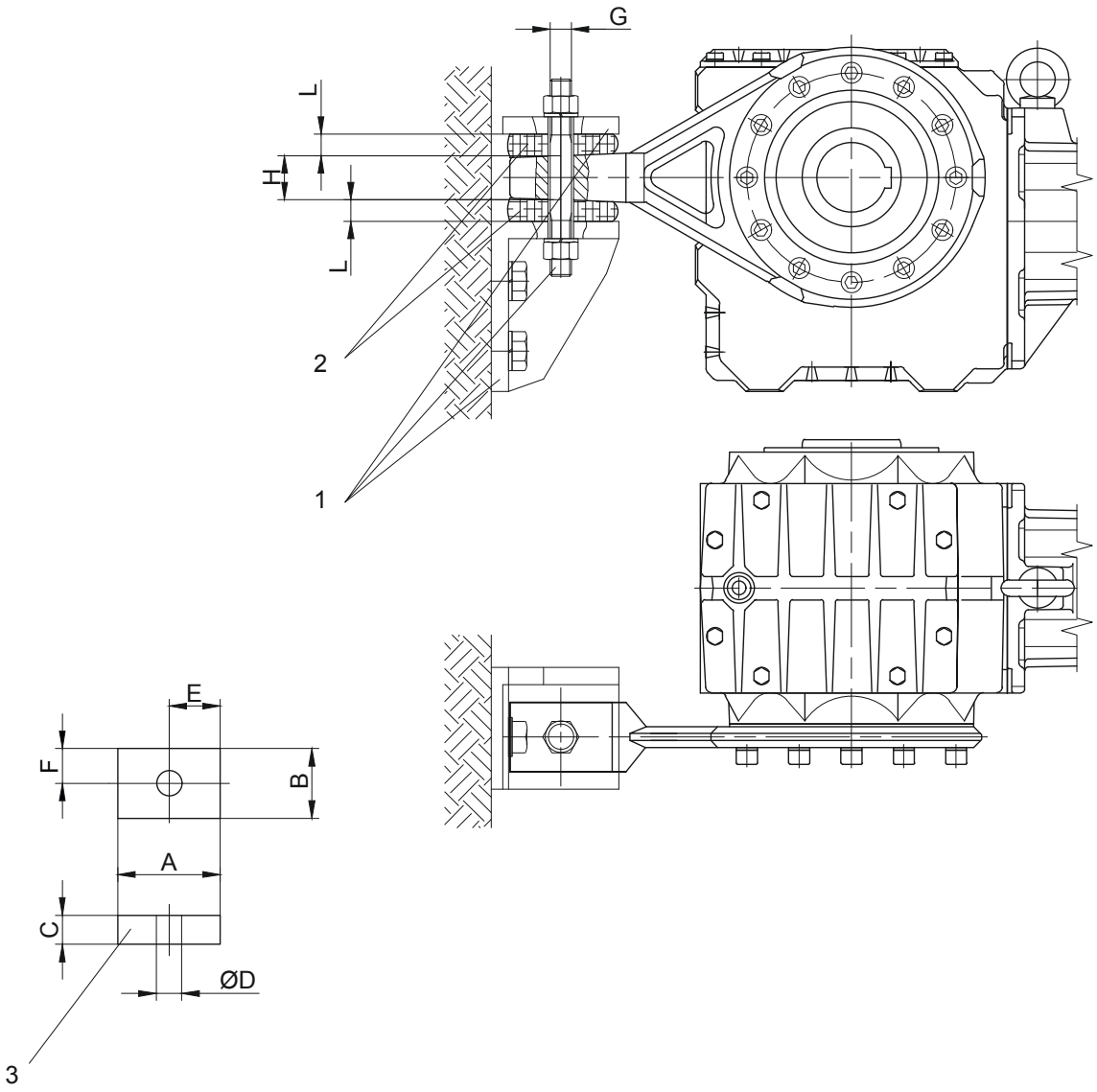
Type	SSV Ringfeder	SSV STÜWE	A	B
BS10	RfN 4161 036x072	HSD 36-22x36	221	120
BS20	RfN 4161 044x080	HSD 44-22x44	286	160
BS30	RfN 4161 050x090	HSD 50-22x50	313	160
BS40	RfN 4161 062x110	HSD 68-22x68	340	210
Dimensions in millimetres (mm)				

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS-series worm-geared motors

Additional Dimension Sheet

Rubber buffer for torque arm



13

1 not included in delivery

2 Rubber buffers pretensioned

3 Rubber buffer - only for BS03-BS40

G maximaler Schraubendurchmesser

Material: Natural rubber
Hardness 50 +/-5 Shore A

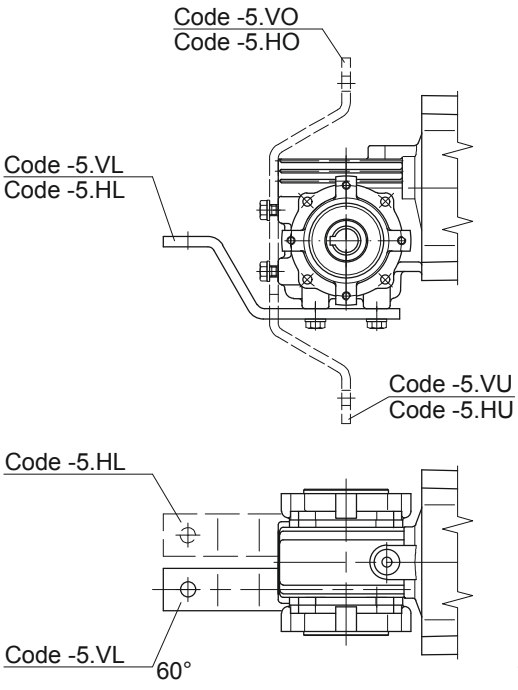
Dimensions of the transverse hole:
see dimensioned sketch of the respective shaft mounted gearbox

Gear	Position	A	B	C	D	E	F	G	H	L
BS02	-	-	-	-	-	-	-	M8	6	-
BS03	Position 0	30	30	12	12	15	15	M8	10	10.5
BS04	Position 0	30	30	12	12	15	15	M8	10	10.5
BS06	Position 0	30	30	12	12	15	15	M10	10	10
BS10	Position 1	48	32	15	14	24	16	M10	19	13
BS20	Position 2	63	43	20	14	31.5	21.5	M10	30	17.5
BS30	Position 2	63	43	20	14	31.5	21.5	M10	30	17
BS40	Position 3	88	60	25	22	44	30	M18	38	22
Dimensions in millimetres (mm)										

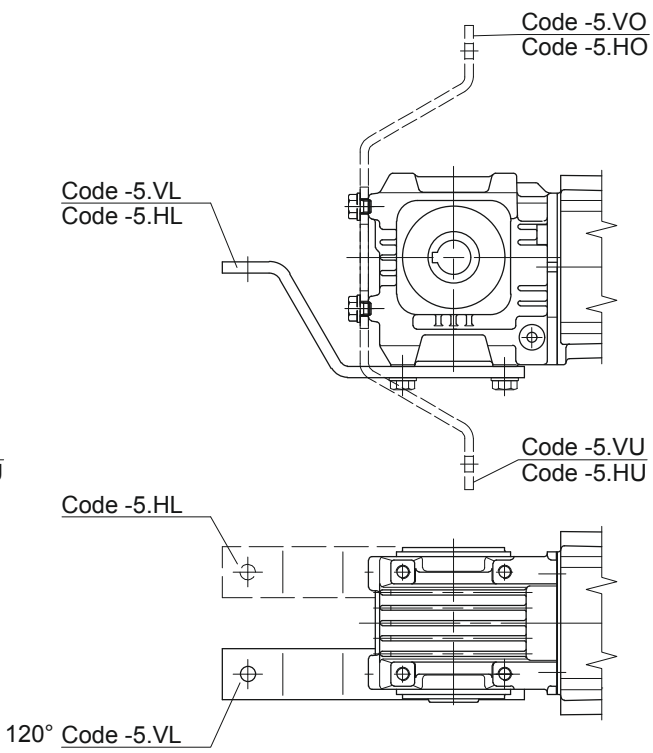
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Position of the torque arm

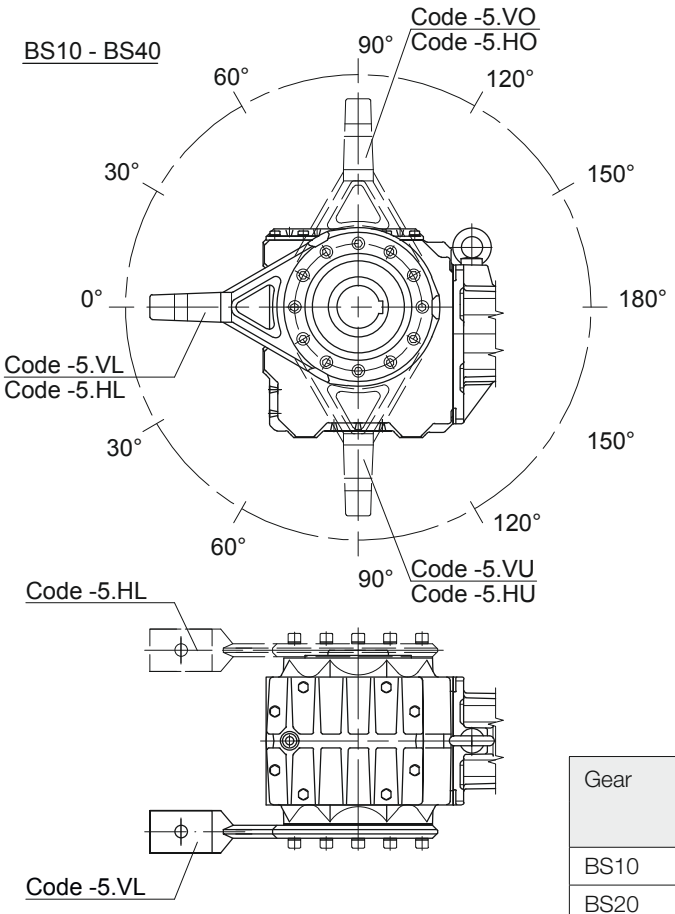
BS02 / BS03



BS04 / BS06



BS10 - BS40



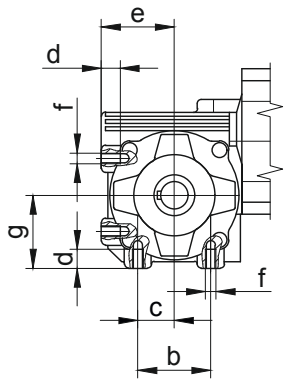
Gear	Position						
	VL/HL	VO/HO/VU/HU					VR/HR
BS10	0°	30°	60°	90°	120°	150°	-
BS20	0°	30°	60°	90°	120°	150°	-
BS30	0°	30°	60°	90°	120°	150°	-
BS40	0°	30°	60°	90°	120°	150°	-

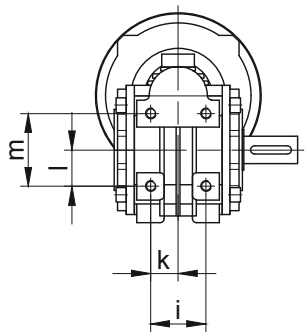
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS-series worm-geared motors

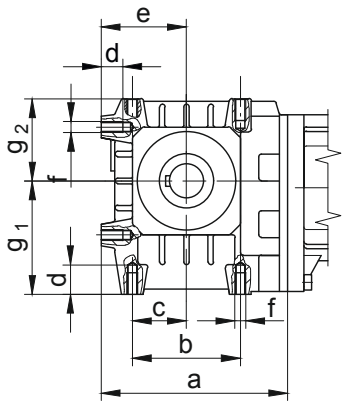
Additional Dimension Sheet

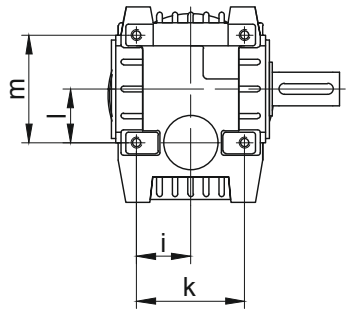
Threaded foot



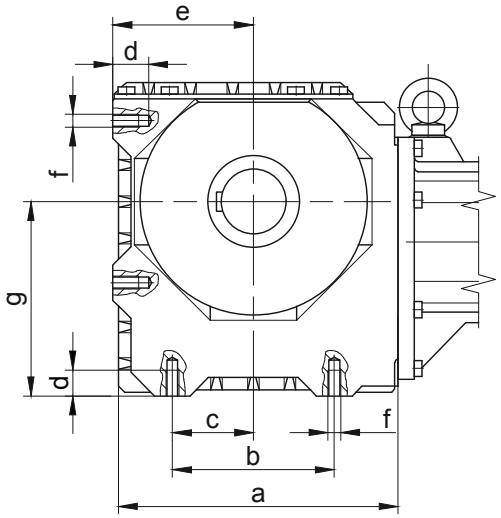


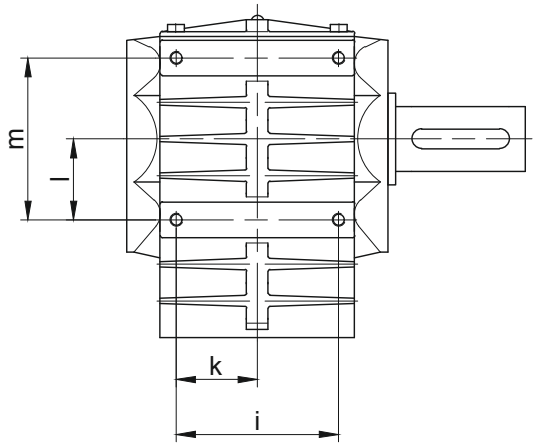
Type	a	b	c	d	e	f	g	-	i	k	l	m
BS02	-	36	18	10	40	M6	40	-	32	16	18	36
BS03	-	54	27	14	54	M8	54	-	41	20.5	27	54





Type	a	b	c	d	e	f	g1	g2	i	k	l	m
BS04	111	60	30	15.5	50	M8	64	49.5	30	60	30	60
BS06	138	80	40	16	63	M8	84	61	40	80	40	80

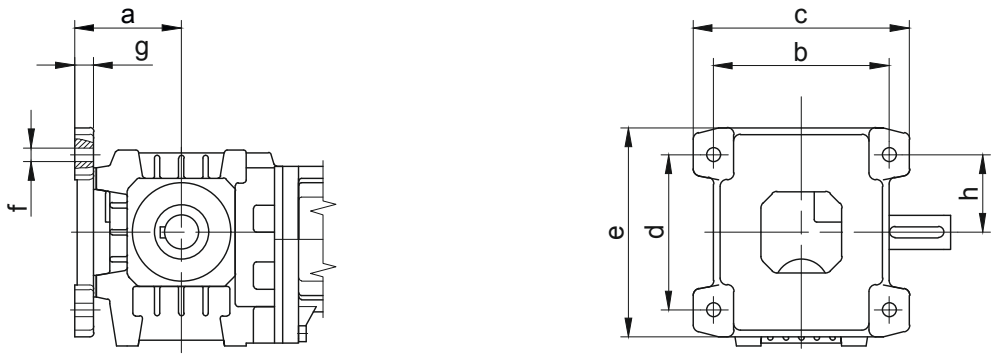




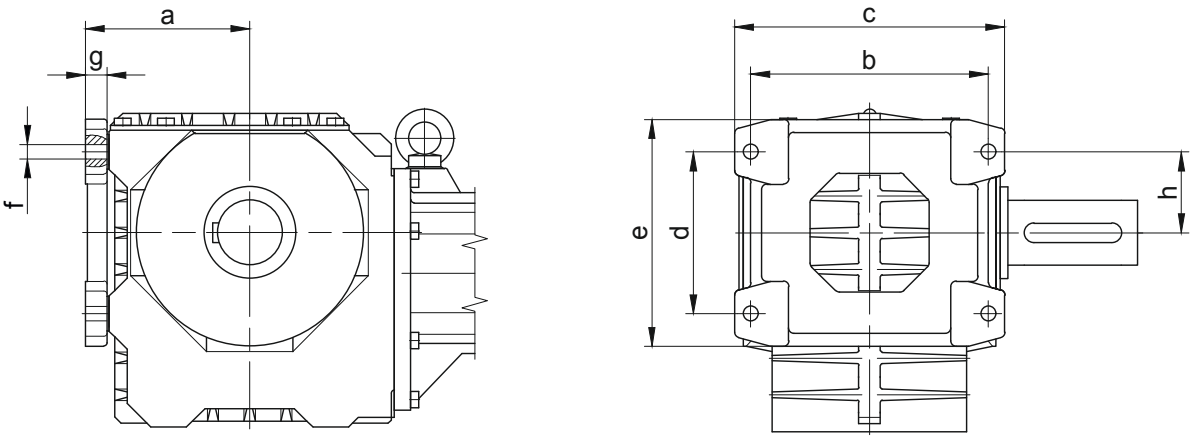
Type	a	b	c	d	e	f	g	-	i	k	l	m
BS10-BS10Z	170	90	45	16	85	M8	105	-	95	47.5	45	90
BS20-BS20Z	202.5	110	55	20	100	M10	125	-	105	52.5	55	110
BS30-BS30Z	228	125	62.5	24	110	M12	150	-	120	60	62.5	125
BS40-BS40Z	264	150	75	24	130	M12	180	-	150	75	75	150

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Foot plate, left



Type	a	b	c	d	e	f	g	h
BS04	68	110	140	90	130	10	15	45
BS06	79	130	160	115	155	10	14	57.5



Type	a	b	c	d	e	f	g	h
BS10-BS10Z	103	145	165	90	130	Ø9	16	72.5
BS20-BS20Z	120	165	195	110	160	Ø11	18	55
BS30-BS30Z	132	190	220	125	185	Ø13.5	20	62.5
BS40-BS40Z	152	220	250	150	210	Ø13.5	20	75

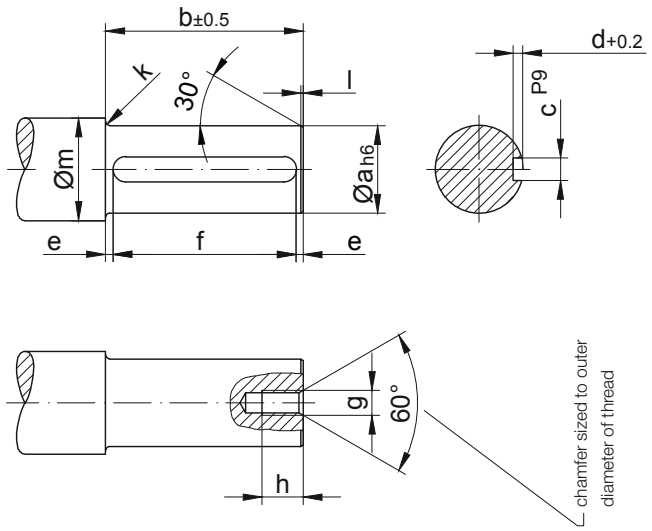
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

BS-series worm-geared motors

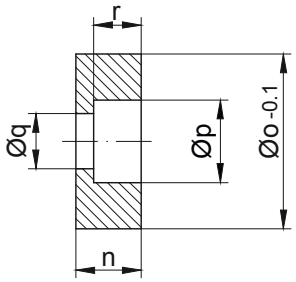
Additional Dimension Sheet

Assembly tools for hollow shaft and keyway

Position 1 Shaft

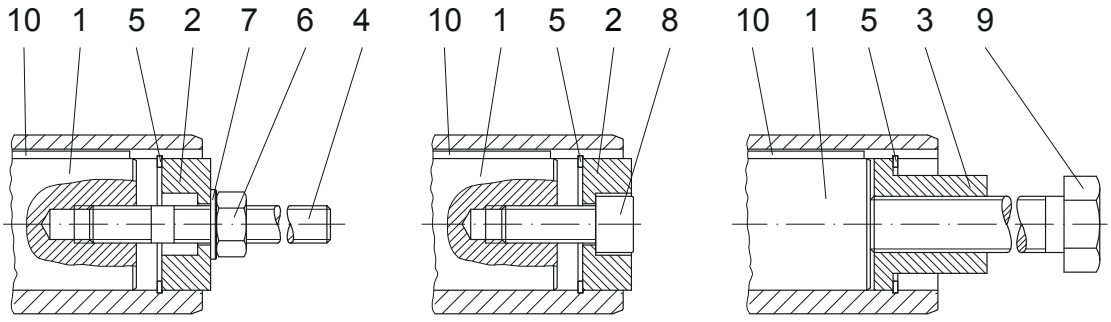


* Position 2 Disc



Material: Steel, tensile strength ≥ 470 N/mm²

Type	Dimensions (mm)															
	Postion 1 Shaft											Postion 2 Disc				
	a	b	c	d	e	f	g	h	k	l	m	n	o	p	q	r
BS03	20	75	6	3.5	6	$63^{+0.3}$	M6	16	2	1.5	28	13.5	19.8	11	6.6	6.5
BS04	20	71	6	3.5	7.5	$56^{+0.3}$	M6	16	2	1.5	28	13.5	19.8	11	6.6	6.5
BS06	25	99	8	4	9.5	$80^{+0.3}$	M8	18	2.5	1.5	33	13.5	24.8	15	9	8.5
BS10	30	152	8	4	6	$140^{+0.5}$	M10	20	3	1.5	38	15	29.8	18	11	10
BS20	35	186	10	5	13	$160^{+0.5}$	M10	20	3	1.5	43	16	34.8	18	11	10
BS30	40	212	12	5	6	$200^{+0.5}$	M12	22	3	2	48	18	39.8	20	13.5	12
BS40	60	227	18	7	13.5	$200^{+0.5}$	M20	38	3.5	2	68	24	59.8	33	22	18



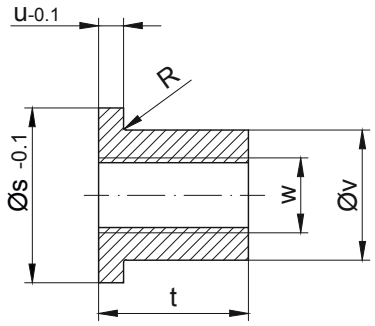
Installation Holding Dismantlement

The parts shown are neccessary for assembly. ONLY * specified parts are enclosed in the assembly kit.
Suitable measures are to be used to secure Bolt Pos. 8 against loosening!

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

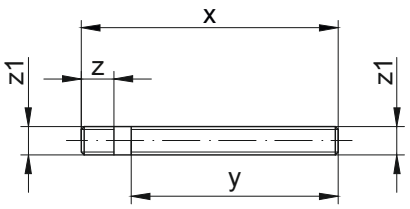
Assembly tools for hollow shaft and keyway

Position 3 Sleeve



Material: Steel, tensile strength ≥ 470 N/mm²

* Position 4 Stud bolt



Material: Steel, tensile strength ≥ 1000 N/mm² Thread rolled

Type	Dimensions (mm)										* Retaining ring DIN 472	Hexagon nut DIN 394-8	Disc DIN 125-St	* Filister head screw DIN 912-8.8	Starting torque (Nm)	Hexagon bolt DIN EN 24017-8.8	Key DIN 6885 Width/Height/Length
	Position 3 Sleeve						Position 4 Stud bolt										
	s	t	u	v	w	R	x	y	z	z1	Pos.5	Pos.6	Pos.7	Pos.8		Pos.9	Pos.10
BS03	19.8	24	5	11	M8	-	120	90	18	M6	20x1.0	M6	6.4	M6x25	5	M8x110	A 8x7x63
BS04	19.8	24	5	11	M8	-	120	90	18	M6	20x1.0	M6	6.4	M6x25		M8x110	A 8x7x56
BS06	19.8	24	5	15.4	M12	0.8	150	120	20	M8	25x1.2	M8	8.4	M8x30		M12x140	A 8x7x80
BS10	29.8	28	5	19.8	M14	0.8	210	175	23	M10	30x1.2	M10	10.5	M10x30	8	M14x190	A 8x7x140
BS20	34.9	28	5	23	M14	-	250	215	23	M10	35x1.5	M10	10.5	M10x35		M14x230	A 10x8x160
BS30	39.9	40	6	27.7	M20	0.8	280	240	28	M12	40x1.75	M12	13	M12x35	16	M20x270	A 12x8x200
BS40	59.8	60	6	44	M30	-	320	260	45	M20	60x2.0	M20	21	M20x50	42	M30x310	A 18x11x200

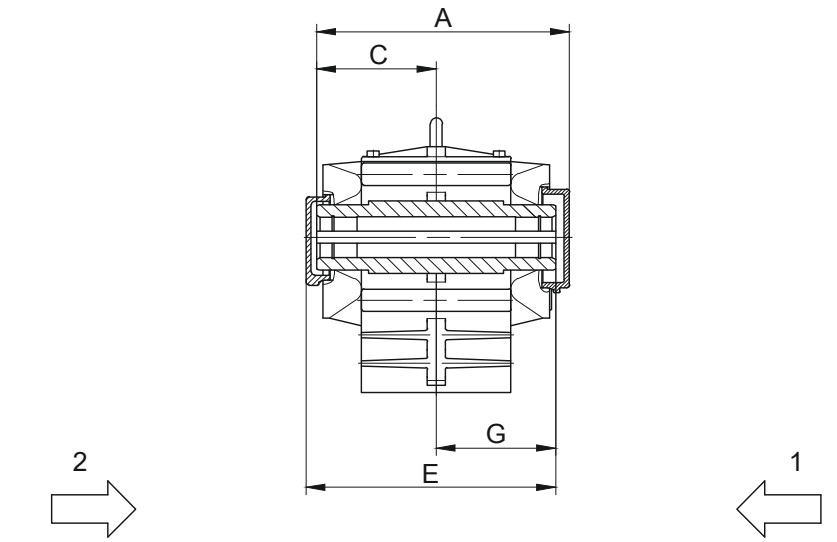
The parts shown are neccessary for assembly. ONLY * specified parts are enclosed in the assembly kit.
Suitable measures are to be used to secure Bolt Pos. 8 against loosening!

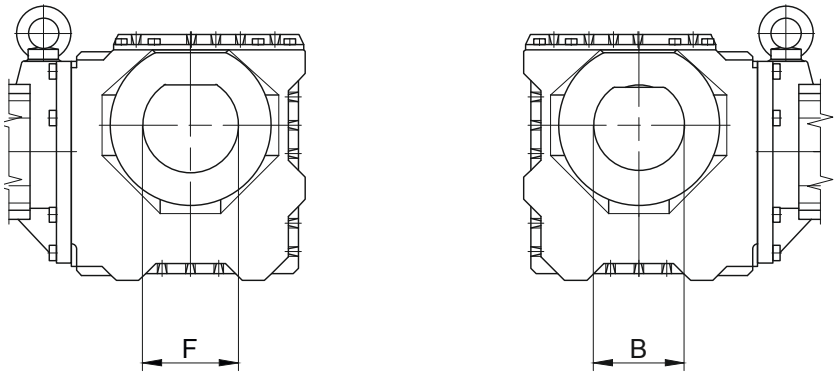
Optional

Type	Assembly tool „Holding“
BS03	Id.Nr. 4104013
BS04	Id.Nr. 4104013
BS06	Id.Nr. 4103921
BS10	Id.Nr. 4103939
BS20	Id.Nr. 4103947
BS30	Id.Nr. 4103955
BS40	Id.Nr. 4103971

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Shaft cap (VK)





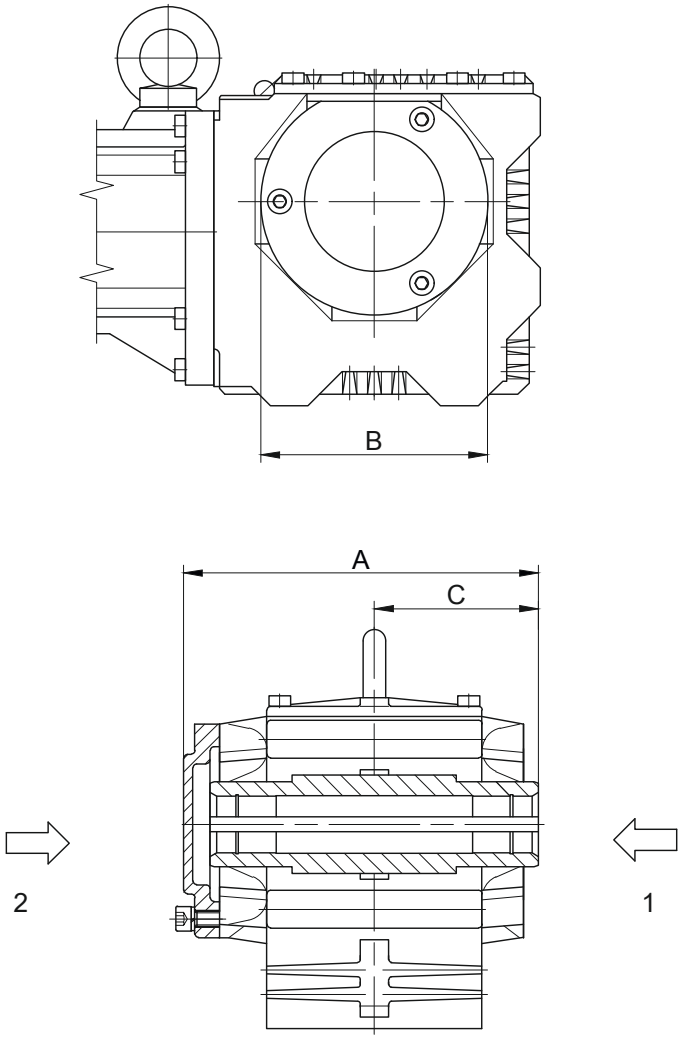
1 Gear side FRONT (V)
2 Gear side REAR (H)

Sealing cap REAR (H)			
Type	A	B	C
BS10	186	68	87
BS30	250.5	100	132
BS40	276	130	128
Dimensions in millimetres (mm)			

Sealing cap FRONT (V)			
Type	E	F	G
BS20	221	78	104.5
Dimensions in millimetres (mm)			

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

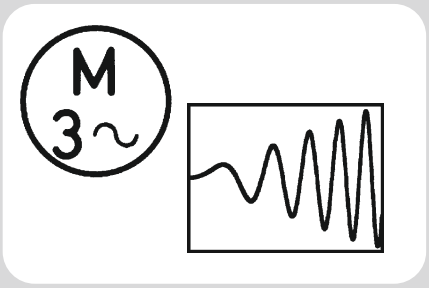
Shaft cover (VD)



1 Gear side FRONT (V)
2 Gear side REAR (H)

Type	A	B	C
BS04	99.5	68	46.5
BS06	128.5	81	60.5
BS10	185	Ø120	87
BS20	224.5	Ø160	104.5
BS30	251.5	Ø160	118.5
BS40	275	Ø210	128
Dimensions in millimetres (mm)			

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.



14

Motors

General **495**
ErP Directive 2009/125/EC 495
Regulation (EG) 640/2009 & (EU) 4/2014 495
Regulation (EU) 2019/1781 496
Torques 498
Line voltages 498
Line frequencies 499
Rating plate 499
Terminal box 499
Motor connections 500
Terminal connections for single speed motors 501
Terminal connections for single speed motors with thermal motor protection 502
Terminal connections for pole changing motors in Dahlander connection (Δ/YY or Y/YY) 503
Terminal connections for pole changing motors with two separate windings (Y/Y or Δ/Δ) 504
Plug-and-socket connection 505
Motor protection 506
Thermistors (PTC) 506
Thermostatic protection 507
KTY sensors 508
PT100 sensors 509
Insulation 510
IP – Protection classes 510
Degrees of protection provided by enclosures for electrical equipment 510
Speed of output shaft 511
Duty types as defined by EN 60034 ..... **512**
General 512
Continuous running duty (S1) 512
Short-time duty (S2) 512
Intermittent periodic duty (S3) 513
Intermittent periodic duty with starting (S4) 514
Intermittent periodic duty with electric braking (S5) 515
Continuous-operation periodic duty (S6) 516
Continuous-operation periodic duty with electric braking (S7) 516
Continuous-operation periodic duty with relative load/speed changes (S8) 517
Duty with non-periodic load and speed variations (S9) 517
Duty with discreet constant loads and speeds (S10) 518
Operation with frequency converter **519**
Notes on design 519
Increased torque with reduced duty factor 519
Increased torque with external fan 519
Energy-saving function 520
Regeneration 520
Notes on operation with other-make frequency inverters 520
Explosion protection **521**
General 521
ATEX 521
Frequency converters 521
Protective device 521
Voltages 522
Gears with non-electrical explosion protection 522

Technical data **523**
Standard Motors **523**
Motors with rated speed 1500 1/min 523
Motor torques in the adjusting range 150 1/min - 1800 1/min. duty type S1 525
Motors with rated speed 2250 1/min 529
Motor torques in the adjusting range 150 1/min - 3600 1/min. duty type S1 531
Motors with rated speed 3000 1/min 533
Motor torques in the adjusting range 150 1/min - 3600 1/min. duty type S1 536
Aseptic-Motors **540**
Aseptic motors with rated speed 1500 1/min 540
Aseptic motors torques in the adjusting range 150 1/min - 1800 1/min. duty type S1 540
Aseptic motors with rated speed 3000 1/min 542
Aseptic motor torques in the adjusting range 150 1/min - 3600 1/min. duty type S1 542
Stainless Steel Motors 544
Stainless steel motors with rated speed 1500 1/min 544
Stainless steel motors torques in the adjusting range 150 1/min - 1800 1/min. duty type S1 544
Stainless steel motors with rated speed 3000 1/min 546
Stainless steel motors torques in the adjusting range 150 1/min - 3000 1/min. duty type S1 546
Atex-Motors **548**
Rated speed 1500 1/min 548
-Type S.XE.08MA4-.. 548
-Type S.XE.08LA4-.. 550
-Type S.XE.09SA4-.. 552
-Type S.XE.09XA4-.. 554
-Type S.XE.11SA6-.. 556
-Type S.XE.11MA6-.. 558
-Type S.XE.11LA6-.. 560
Rated speed 3000 1/min 562
-Type S.XE.08MA4-.. 562
-Type S.XE.08LA4-.. 564
-Type S.XE.09SA4-.. 566
-Type S.XE.09XA4-.. 568
-Type S.XE.11SA6-.. 570
-Type S.XE.11MA6-.. 572
-Type S.XE.11LA6-.. 574

ErP Directive 2009/125/EC

Directive 2009/125/EC of the European Parliament and the Council, issued in 2009, specifies requirements for the environmentally responsible design of energy-related products (ErPs). In November 2009 it superseded Directive 2005/32/EC, which formed the framework for requirements for the environmentally responsible design of energy-using products (EuPs). This change has no effect on already proclaimed implementation measures.

Objectives

The ErP Directive has several objectives:

1. **Mitigating the environmental impact of energy-using products**
   This objective is intended to be achieved by the documentation and labelling of products, by regulations for inspection, and by the formulation of individual requirements in implementation measures. As the entire product life cycle is taken into consideration, action must be taken as early as the design phase.

2. **Climate protection**
   Achievement of the EU climate protection objectives is to be supported. This can be implemented by reducing energy consumption and the emission of global warming gasses in the production, operation and disposal of energy-using products.

3. **Harmonised legislation**
   The directive creates a framework for the European regulation of environmental design requirements. This avoids trade impediments resulting from differences in national regulations. This can be achieved by means of the proclamation of legally binding implementation measures for the entire Community and protection of free trade in goods against further-reaching regulations of the Member States.

Which motors are excluded from the scheme?

- Motors designed to be operated completely immersed in a liquid
- motors fully integrated into a product (e.g. a gearbox, a pump, a fan or a compressor) whose energy efficiency cannot be measured independently of that productn
- at altitudes above 4000 meters above sea level
- at ambient temperatures above 60 °C
- at ambient temperatures below - 30 °C (any motor) or at ambient temperatures below 0 °C (air-cooled motor)
- in potentially explosive atmospheres within the meaning of Directive 94/9/EC of the European Parliament and of the Council
- Brake motors

Example:

Regulation (EU) 2019/1781

To establish eco-design requirements for electric motors and variable speed drives pursuant to Directive 2009/125/EC

Valid from: 01.07.2021
- Frequency converter 0.12 - 1,000 kW: IE2
- 3-phase motors 0.12 < 0.75 kW/2.4, 6 or 8 poles: IE2 (Excluded: Ex eb (DXE))
- 3-phase motors 0.75 - 1,000 kW/2.4, 6 or 8 poles: IE3 (Excluded: Ex eb (DXE)

ATTENTION:
Brake motors are no longer exempt!!
IE2 for inverter operation is no longer permitted!!!

Valid from: 01.07.2023
- 1-phase motors ≥ 0.12 kW: IE2
- Ex eb (DXE) Motors ≥ 0,12 kW: IE2
- 3-phase motors 75 kW – 200 kW 2, 4 or 6 pole: IE4
  (Exempt: brake motor and all explosion-proof motors)

Scope
Induction electric motors without brushes, commutators, slip rings or electrical connections to the rotor, rated for operation on a 50 Hz, 60 Hz or 50/60 Hz sinusoidal voltage and having the following characteristics:
- 2-, 4-, 6- and 8-pole motors
- Rated power PN between 0,12 kW and 1000 kW
- Rated voltage UN over 50 V up to and including 1,000 V
- are designed for continuous operation (S1, S3 ≥ 80 % ED, S6 ≥ 80 % ED) and are intended for direct mains operation

Which engines are excluded from the scheme?

- Motors designed to be operated completely immersed in a liquid
- Motors fully integrated into a product (e.g. a gearbox, a pump, a fan or a compressor) whose energy efficiency cannot be measured independently of that product
- Motors with integrated frequency converter (compact drives) whose energy efficiency cannot be tested independently of the frequency converter
- Motors specifically designed and specified to operate exclusively
  - at altitudes exceeding 4000 m above sea-level
  - at ambient temperatures above 60 °C
  - at ambient temperatures below -30 °C
- Motors with integrated brake, which is an integral part of the inner motor construction and cannot be removed or supplied from a separate power source when testing the motor efficiency.
- Motors specifically qualified for the safety of nuclear installations, as defined in Article 3 of Council Directive 2009/71/EURATOM
- Motors with mechanical commutators
- Totally enclosed Non-Ventilated motors (TENV)
- Engines from the respective scope of application of the two deadlines 01.07.2021 or 01.07.2023, which were placed on the market before these deadlines, may continue to be placed on the market until 30.06.2029 as 1:1 replacements and may be specifically marketed as such
- Multi-speed motors, i.e. pole-changing motors
- Motors designed specifically for the traction of electric vehicles
- Motors in portable equipment whose weight is supported by hand during operation
- Motors in hand-held mobile equipment which are moved during operation
- Motors in cordless or battery-operated equipment
- Motors for underground mining (mines)

Method for determining the motor efficiency according to IEC 60034-2-1

Individual loss procedure
Additional losses according to residual loss method
Low measurement uncertainty

Bauer geared motors for connection to three-phase supply are supplied with specially designed induction motors. This design ensures maximum operating safety with high starting torque and minimum starting current.

The torque/speed characteristic is largely free of torque dips. Torque is optimised to suit requirements and application parameters. See “www.bauergears.com” for more information.

Torques

The torques as stated in the selection tables are fully available at the output shaft. These figures apply for continuous operation (S1-100 %) at a maximum ambient temperature of 40 °C and at site elevations up to 1000 m above sea level. Drives for higher ambient temperatures and site elevations are available on request. Gear efficiencies, which are lower than the usual values for spur gears, are taken into account in the torques listed in the selection tables.

Line voltages

BAUER motors are available as standard for the following three-phase line voltages:

Motor size	Standard voltages:
S04LA4 - S09XA4	220 V Δ / 380 V Y 50 Hz
0,06 - 2,2 kW	230 V Δ **/ 400 V Y 50 Hz***
	240 V Δ / 415 V Y 50 Hz**
	440 V Y / 60 Hz 460 V Y / 60 Hz
	460 V Y / 60 HZ
from S11SA4	220 V Δ / 380 V Y 50 Hz
from 3,0 kW	230 V Δ / 400 V Y 50 Hz
	240 V Δ / 415 V Y 50 Hz**
	440 V Y / 60 Hz
	460 V Y / 60 Hz
	380 V Δ / 660 V Y 50 Hz
	400 V Δ / 690 V Y **50 Hz***
	415 V Δ / 50 Hz**
	440 V Δ / 60 Hz
	460 V Δ / 60 Hz

*Voltage recommended world-wide by IEC 38 and in Europe by CENELEC.
**= Insulation Class F is necessary.

Designs for other voltages available on request and at extra cost.

Unless otherwise specified, motors for operation in conjunction with frequency converters with a 50 or 60 Hz frequency have a Y-circuit to optimise operating noise and winding load.

Unless otherwise stated, the tolerance for the rated voltage is +/- 5 %, in accordance with IEC 60034-1.

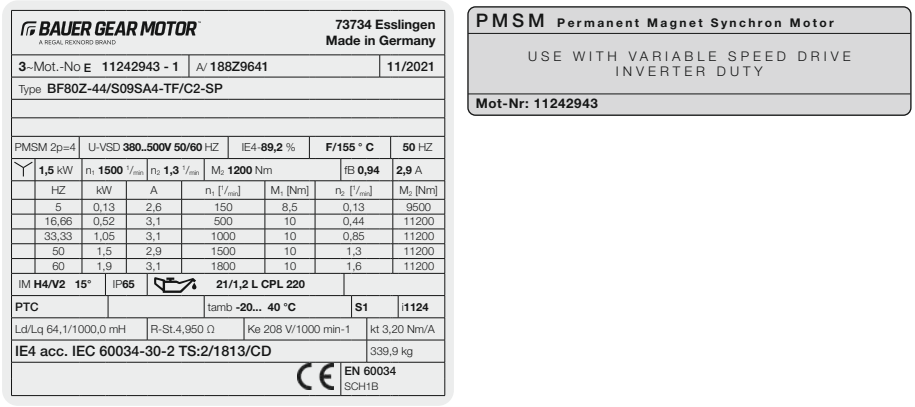
The S04 to S..11 motors in 4 pole design can be operated within a tolerance of +/- 10 % of the rated voltage (400 V 50 Hz).

Line frequencies

All motors are available with the same power ratings for either 50 or 60 Hz. Increased power models are available on request.

Rating plate

Bauer geared motors are supplied with a corrosion-proof rating plate as standard. The standard rating plate is made of special plastic tried and tested in many years of practical use and approved for hazardous areas by the Physikalisch-Technische-Bundesanstalt (PTB).



BAUER GEAR MOTOR
A REGAL REXNORD BRAND

73734 Esslingen
Made in Germany

3~Mot.-No E 11242943 - 1	A/ 188Z9641	11/2021
Type BF80Z-44/S09SA4-TF/C2-SP		

PMSM 2p=4	U-VSD **380..500V 50/60** HZ	IE4-**89,2** %	**F/155** ° C	**50** HZ	
1,5 kW	n_1 **1500** $^1/_{min}$	n_2 **1,3** $^1/_{min}$	M_2 **1200** Nm	fB **0,94**	**2,9** A

	HZ	kW	A	n_1 [$^1/_{min}$]	M_1 [Nm]	n_2 [$^1/_{min}$]	M_2 [Nm]
	5	0,13	2,6	150	8,5	0,13	9500
	16,66	0,52	3,1	500	10	0,44	11200
	33,33	1,05	3,1	1000	10	0,85	11200
	50	1,5	2,9	1500	10	1,3	11200
	60	1,9	3,1	1800	10	1,6	11200

IM **H4/V2 15°**	IP**65**	**21/1,2 L CPL 220**		
PTC		tamb **-20... 40 °C**	**S1**	i**1124**
Ld/Lq 64,1/1000,0 mH	R-St.4,950 Ω	Ke 208 V/1000 min-1	kt 3,20 Nm/A	
IE4 acc. IEC 60034-30-2 TS:2/1813/CD			339,9 kg	
		CE	**EN 60034** SCH1B	

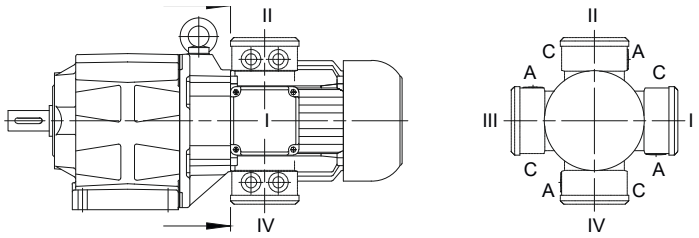
PMSM **Permanent Magnet Synchron Motor**

USE WITH VARIABLE SPEED DRIVE
INVERTER DUTY

Mot-Nr: 11242943

Terminal box

The cables of motors with and without brakes can be introduced into the motor terminal box from side A or side C.

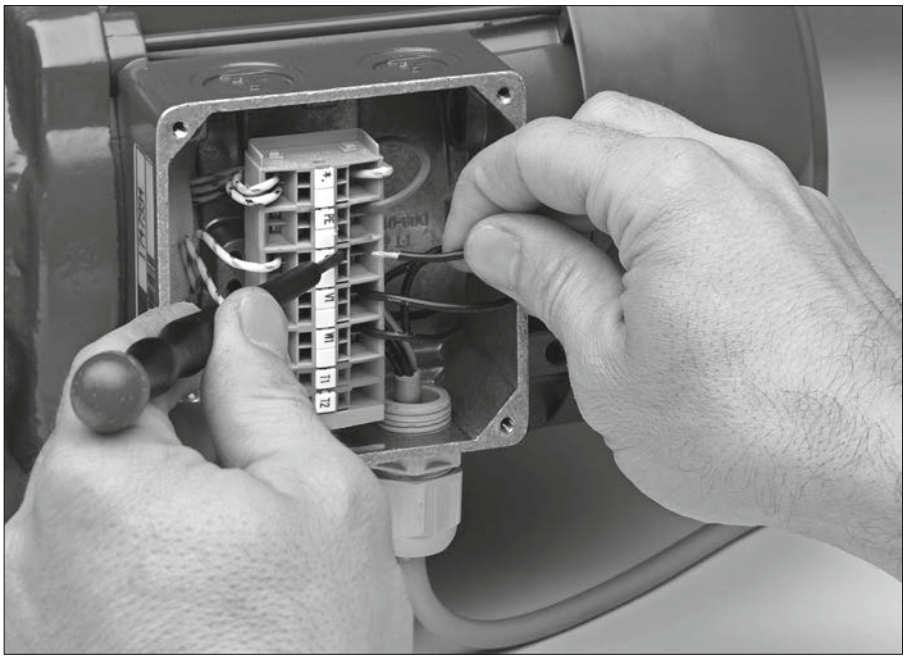


The standard position for the motor terminal box is shown in the dimensional drawings for the geared motors (see chapter 10,11,12 and 13). The terminal box can be installed at any of 3 other positions on request, if on-site space is restricted. The 4 possible positions are 90° offsets around the axis of the motor (dimensional drawing and designation for standard terminal box, see chapter 16 “Dimensional drawing standard terminal box”).

Cast-on terminal boxes (KAG) are supplied with knock out entries with metric nut for cable gland. Screw- on terminal boxes (TBI...4 are supplied with a metric screw thread as standard.

Motor connections

The electrical connection of gear motors is time consuming and creates costs, which cannot be neglected both during initial installation and in service cases. These costs are reduced considerably by the use of BAUER Gear Motors, have CAGE CLAMP® connection technology instead of the conventional terminal block – and that without extra charge.



What are the advantages for you ?

Cost reduction during connection
Public timing test have confirmed, that the electrical connection of a cable by means of CAGE CLAMP® technology saves up to 75 % working time compared with the classic screw connection.

Simple Handling
Cable connection from the top, very easily accessible: The CAGE CLAMP® spring is pressed, and the cable inserted from the front, i.e. in the field of vision of the installation engineer.

Which cable core diameters ?
Suitable for all copper wires from 0.5 mm^2 to 25 mm^2.

Cost saving in material and tooling
- multicore cable ends, cable eyes or cable ring eyes are no longer needed
- Tools such as crimping pliers are no longer needed
- Inadvertently over tightening or breaking of the terminal bolts and the procurement of a new terminal block belong in the past.
- Searching and procurement of nuts and washers for the terminal blocks, which have fallen down, also belongs in the past.

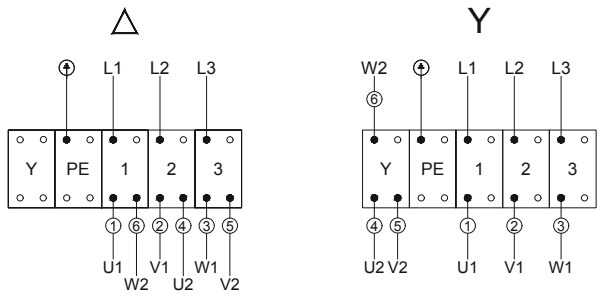
Vibration and shock resistant
Vibration and shock result neither in conductor damage nor in a measurable contact interruption. The connection is service free.

Type of conductors
The CAGE CLAMP®-connector can clamp fine stranded, stranded and solid cores wires.

Terminal connections for single speed motors

Standard connection of three phase motors via CAGE CLAMP®.
S04.. - S..09..

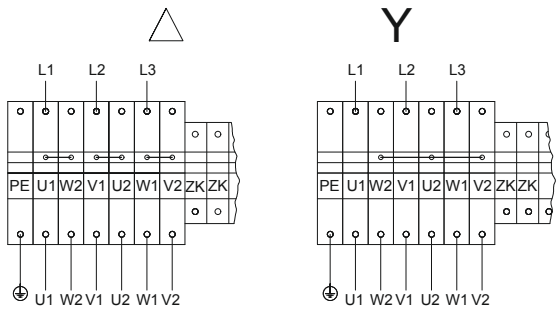
Connection of three-phase motor via CAGE CLAMP®



	IEC/EN 60034-8	NEMA MG 1	Colour
Supply lines	L1 L2 L3	L1 L2 L3	
Motor winding	U1 V1 W1 U2 V2 W2	T1 T2 T3 T4 T5 T6	black blue brown yellow red violet
Δ	Connections for the low rated voltage (e.g.: 230V)		
Y	Connections for the high rated voltage (e.g.: 400V)		

S..11

Connection of three-phase motor via CAGE CLAMP®

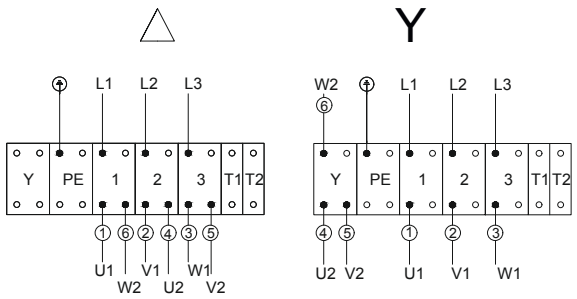


	IEC/EN 60034-8	NEMA MG 1	Colour
Supply lines	L1 L2 L3	L1 L2 L3	
Motor winding	U1 V1 W1 U2 V2 W2	T1 T2 T3 T4 T5 T6	black blue brown yellow red violet
Δ	Connections for the low rated voltage (e.g.: 230V)		
Y	Connections for the high rated voltage (e.g.: 400V)		
ZK	Optimal additional connection		

Terminal connections for single speed motors with thermal motor protection

Standard connection of three phase motors with thermal motor protection via CAGE CLAMP®.
S04.. - S..09..

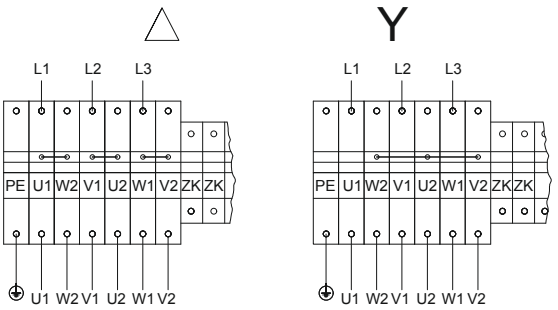
Connection of three-phase motor and thermal motor protection via CAGE CLAMP®



	IEC/EN 60034-8	NEMA MG 1	Colour
Supply lines	L1 L2 L3	L1 L2 L3	
Motor winding	U1 V1 W1 U2 V2 W2	T1 T2 T3 T4 T5 T6	black blue brown yellow red violet
Δ	Schaltung für niedrige Nennspannung (z. B.: 230V)		
Y	Schaltung für hohe Nennspannung (z. B.: 400V)		
T1 T2	Thermal motor protection		

S..11

Connection of three-phase motor via CAGE CLAMP®

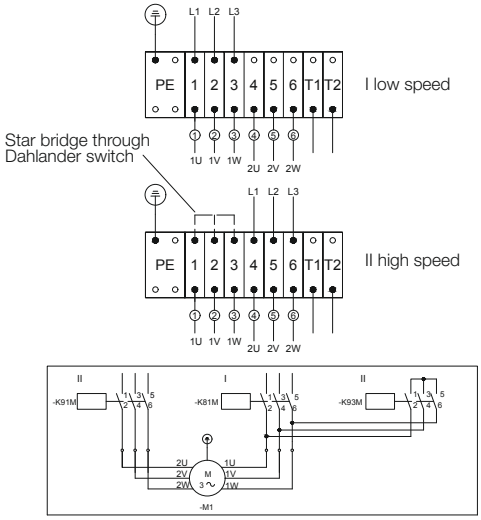


	IEC/EN 60034-8	NEMA MG 1	Colour
Supply lines	L1 L2 L3	L1 L2 L3	
Motor winding	U1 V1 W1 U2 V2 W2	T1 T2 T3 T4 T5 T6	black blue brown yellow red violet
Δ	Connections for the low rated voltage (e.g.: 230V)		
Y	Connections for the high rated voltage (e.g.: 400V)		
ZK	Optimal additional connection		

Terminal connections for pole changing motors in Dahlander connection (Δ/YY or Y/YY)

Standard connection of three phase motors without motor protection via CAGE CLAMP®.
S04.. - S..09..

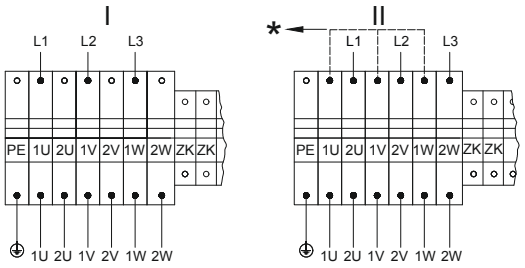
Motor 2 Speeds, Dhalander connection D/YY or Y/YY
(T1-T2 Thermal Motor protection optional)



	IEC/EN 60034-8	NEMA MG 1	Colour
Supply lines	L1	L1	
	L2	L2	
	L3	L3	
Motor winding	1U	T1	black
	1V	T2	blue
	1W	T3	brown
	2U	T5	yellow
	2V	T6	red
	2W	T4	violet
I	low speed		
II	high speed		

S..11

Connection of three phase motor via CAGE CLAMP®
Pole changing for 2 speeds; Dahlander connection Δ/ YY

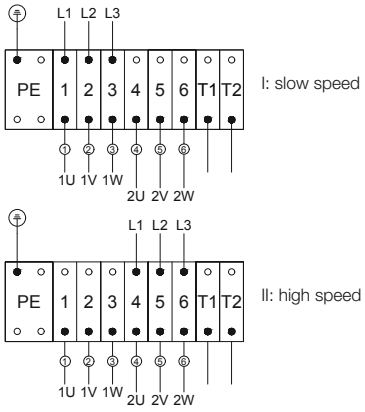


	IEC/EN 60034-8	NEMA MG 1	Colour
Supply lines	L1	L1	
	L2	L2	
	L3	L3	
Motor winding	1U	T1	black
	1V	T2	blue
	1W	T3	brown
	2U	T4	yellow
	2V	T5	red
	2W	T6	violet
I	low speed		
II	high speed		
ZK	Optimal additional connection		
*	Star point over Dahlander Relay		

Terminal connections for pole changing motors with two separate windings (Y/Y or Δ/Δ)

Standard connection of three phase motors with motor protection via CAGE CLAMP®. S..04.. - S..09..

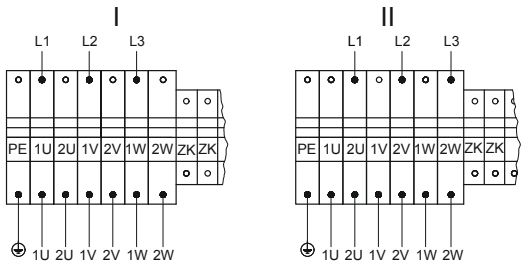
Motor pole-changing
2 speeds, 2 windings: Y/Y or Δ/Δ
(T1-T2 thermal motor protection optional)



	IEC/EN 60034-8	NEMA MG 1	Colour
Supply lines	L1 L2 L3	L1 L2 L3	
Motor winding	1U 1V 1W 2U 2V 2W	T1 T2 T3 T11 T12 T13	black blue brown yellow red violet
I	low speed		
II	high speed		
T1 T2	Thermal motor protection		

S..11..

Connection of three phase motor via CAGE CLAMP®
Motor pole-changing 2 speeds, 2 windings; Y/Y or Δ/Δ

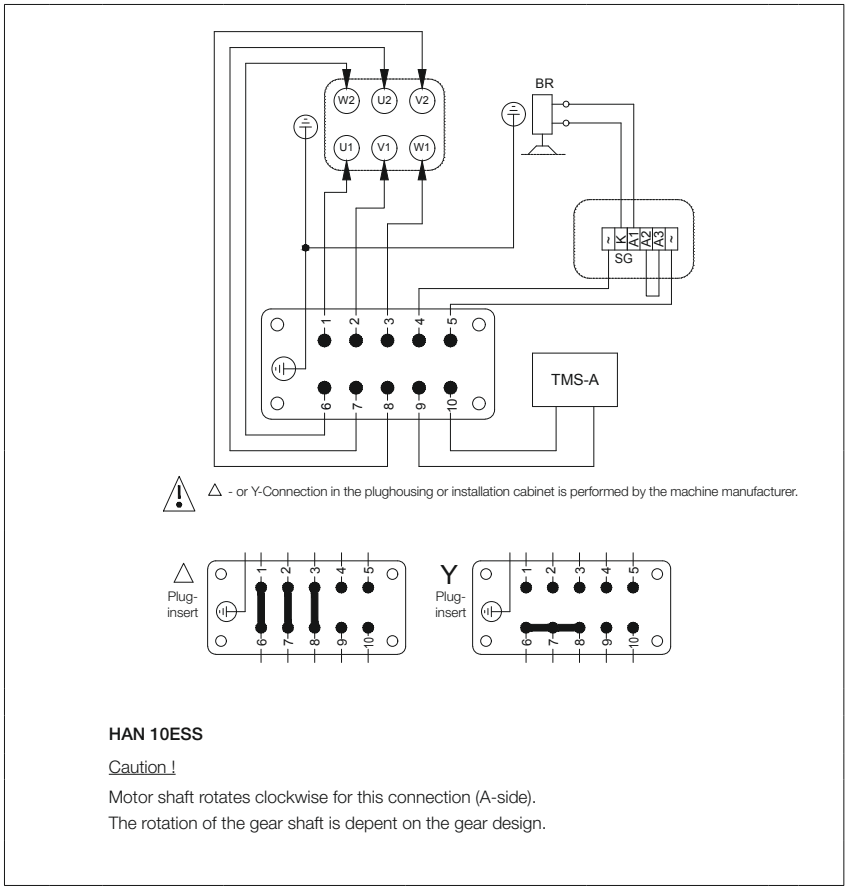


	IEC/EN 60034-8	NEMA MG 1	Colour
Supply lines	L1 L2 L3	L1 L2 L3	
Motor winding	1U 1V 1W 2U 2V 2W	T1 T2 T3 T4 T5 T6	black blue brown yellow red violet
I	low speed		
II	high speed		
ZK	Optimal additional connection		

Plug-and-socket connection

D..06.. to D..16.. Bauer motors are available with plug-in motor connection. The socket housing is mounted on the fan-cowl side of the terminal box as standard. This layout minimises the protrusion caused by the plug.
The standard plug-and-socket type connection incorporates the attachment housing, pin insert and cover. Grommet-type housings and jack inserts are available on request at extra cost. Pin assignments on request (dimensional drawing, see chapter 16 “Dimensional drawing, plug-connector terminal box”).

A design with single clamp lever according to the DESINA regulation of the „Verbandes Deutscher Werkzeugmaschinenhersteller“ (VDW) is also available.



HAN 10ESS

Caution !

Motor shaft rotates clockwise for this connection (A-side).
The rotation of the gear shaft is depent on the gear design.

The motors are also available with a low-cost round plug connector as an alternative. This is fitted at the factory in the standard terminal box and is also suitable for brake connection, thermistors and thermostats. Additional information on request.

Bauer motors from S..08.. with motor-mounted brake are also available with plug-in brake connection. This means that if it requires attention, the brake can be replaced on site with no loss of time.

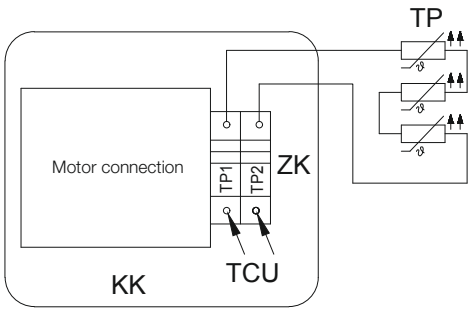
Motor protection

Each geared motor requires a current-dependent motor protection switch or an overcurrent relay with thermal delay in the switchgear to protect the motor windings. The rated motor currents required for settings are stated in the order acknowledgment. Thermal protection for the winding is recommended as an additional safety measure for special operating conditions (short-time or intermittent periodic duty, high switching frequency, severe voltage fluctuations or restricted cooling) and for operation in conjunction with a frequency converter.

Thermistors (PTC)

Thermistors are temperature-dependent resistors which are fitted in each phase winding. In conjunction with a motor protection switch, they ensure optimum protection for the winding in the event of rapid temperature rise. Characteristic to DIN 44081 and “Mark A” to IEC 34-11-2. Thermistors are available for all motors at extra cost. The requisite monitoring device is not included in the scope of supply.

Thermal motor protection with PTC-thermistors



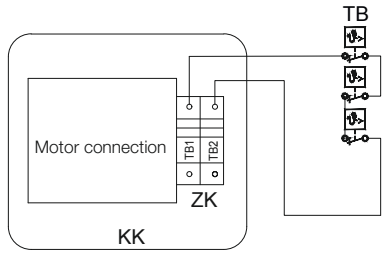
KK	Terminal box
ZK	Additional terminals
TP	PTC-thermistors
TCU	Connection of Thermistor control unit EN 60947 Max. permissible testing voltage 2,5 VDC/thermistor in case of Ex with auth. certificate: PTB 3.63-PTC A

The location of the additional terminals in the drawing is not necessarily identical with the actual arrangement.

Thermostatic protection

Bimetal switches are used for slow-acting, independent temperature monitoring and are embedded in each winding section of the motor.
The bimetal disc is sized such that when the temperature rises above a specific, previously set value, the disc suddenly snaps from a convex state to a concave state and the contact moves vertically away from the contact plate. In this state the switch is either open (normally closed switch) or closed (normally open switch). A significant temperature change is necessary to allow the bimetal disc to independently snap back to its initial position. When it does, the switch is again closed (normally closed switch) or open (normally open switch). Thermal protection switches are available for all motors at additional cost. For technical reasons, this option is not recommended for large motors (S..11..).

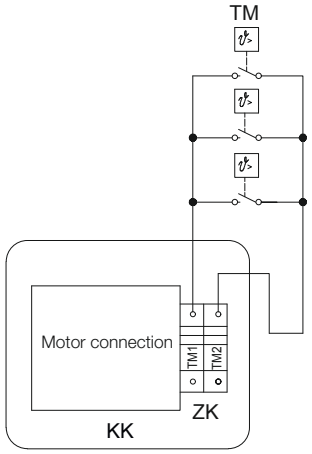
Thermal motor protection with thermostats
(with normally closed contacts)



KK	Terminal box
ZK	Additional terminals
TB	Thermostats with normally closed contacts max. 250VAC 1,6A

The location of the additional terminals in the drawing is not necessarily identical with the actual arrangement.

Thermal motor protection with thermostats
(with normally opened contacts)



KK	Terminal box
ZK	Additional terminals
TB	Thermostats with normally closed contacts max. 250VAC 1,6A

The location of the additional terminals in the drawing is not necessarily identical with the actual arrangement.

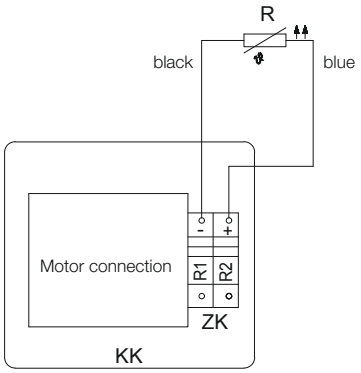
KTY sensors

KTY sensors with heat-shrink insulation can be used to measure and monitor critical surface temperatures and internal temperatures of motors and machines. These sensors are suitable for use in harsh industrial environments in all places where accurate measurements with a single sensor are required. KTY sensors are available for all types of motors at additional cost.

Type 84-130 SH: primarily installed in motors that are operated with Siemens frequency converters.

Working principle: KTY sensors are temperature-dependent components. The resistance of the KTY sensor increases when its temperature rises. The characteristic curve is nearly linear in the sensor‘s measuring range; the reference resistance (at 100 °C) is 970 to 1030 ohms.

Resistance temperature sensor KTY84-130SH



KK	Terminal box
ZK	Additional terminals
R	Resistance temperature sensor

The location of the additional terminals in the drawing is not necessarily identical with the actual arrangement.

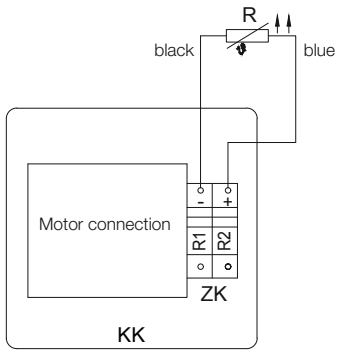
PT100 sensors

Precise monitoring of motor temperatures is necessary in many fields of industry. Pt100 sensors feature high accuracy, short response time and long-term stability, and they are suitable for use over a wide range of temperatures. Pt100 sensors are available for all motor types at additional cost.

Specifications
Nominal resistance: 100 Ω at 0 °C

The resistance characteristics are specified in EN 60751.

Resistance temperature sensor PT 100



KK	Terminal box
ZK	Additional terminals
R	Resistance temperature sensor

The location of the additional terminals in the drawing is not necessarily identical with the actual arrangement.

Insulation

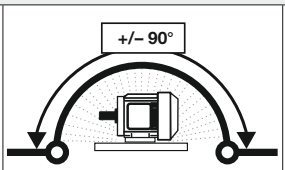
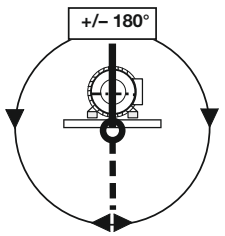
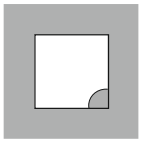
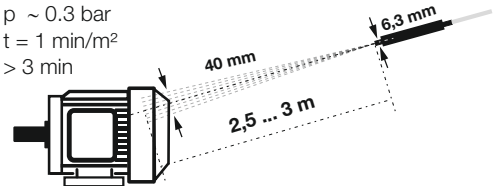
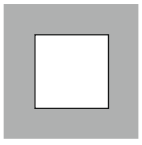
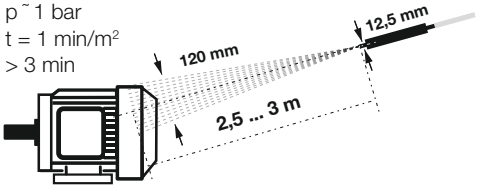
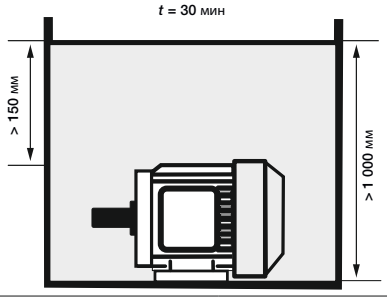
The gearmotors described in the selection tables of this catalogue with the motor sizes S..04.., S..05.., S..06.., S..08.., S..09S and S..09L are executed in insulation class B. Temperature class F is available on request at extra cost.

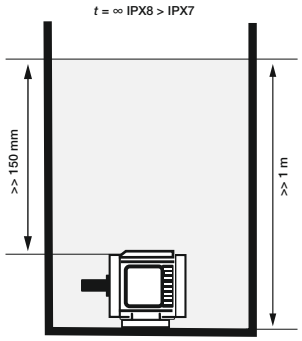
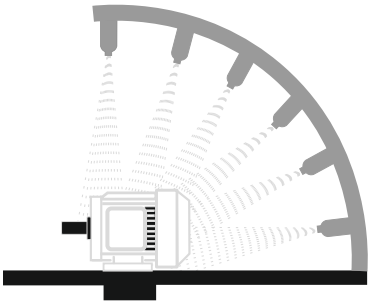
4-pole motors S..07.. and S..09XA4 (2.2 kW) to S..18XA4 (30 kW) and all multi-speed motors are rated in Temperature Class F as standard.
Insulation Class F bestows the winding a multiple protection against high humidity, acidic gases and heavy tropical influences while making the same shock resistant and more resistant to heat. Protection against insects (termites) is guaranteed through the complete enclosure (IP65) as long as the mains cables are encased in metal.

IP – Protection classes

Bauer motors from motor size S..06.. are manufactured to IP65 degree of protection as standard. Motor sizes S..04.. and S..05.. have a smooth motor housing of IP54. Higher IP protection classes on request.

Degrees of protection provided by enclosures for electrical equipment

First IP - code number after DIN EN 60529					Second IP - code number after DIN EN 60529		
	Protection against penetration of solid foreign bodies		Protection of persons against access to hazardous parts with			Protection against penetration of moisture or water	
4	diameter > = 1.0 mm		Wire		4	Splash water	 0.07 l/min per nozzle 
5	Dustproof				5	Jet water	qv = 12.5 l/min p ~ 0.3 bar t = 1 min/m² > 3 min 
6	Dust tight				6	Strong Jet water	qv = 100 l/min p ~ 1 bar t = 1 min/m² > 3 min 
					7	Temporary Submerge	

First IP - code number after DIN EN 60529			Second IP - code number after DIN EN 60529		
	Protection against penetration of solid foreign bodies	Protection of persons against access to hazardous parts with		Protection against penetration of moisture or water	
			8	Permanent Submerge	 x = 5 m (Standard) or by agreement
			9 (9K= DIN 40050-9)	High pressure and high jet water temperature	Housing >= 250 mm t = 1 min /m² > 3 min Water temperature (80 +- 5) °C 15 l/min, 100 bar Distance (175 +- 25) mm 

Speed of output shaft

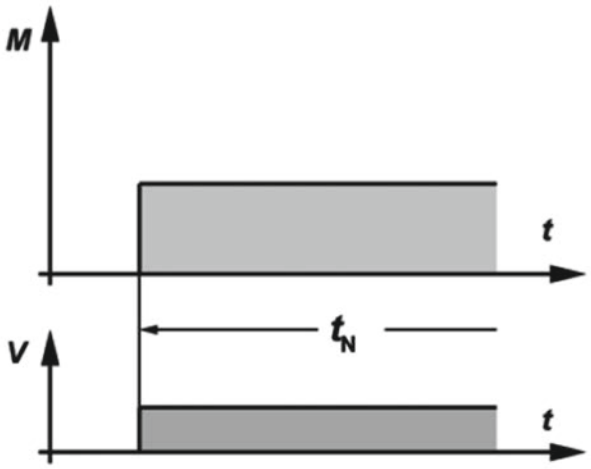
The rated speeds in the selection tables are guidelines for load at rated power. Speed can vary depending on degree of load and temperature (particularly in the case of relatively small motors). Combination gear units for lower speeds are available on request.

Duty types as defined by EN 60034

General

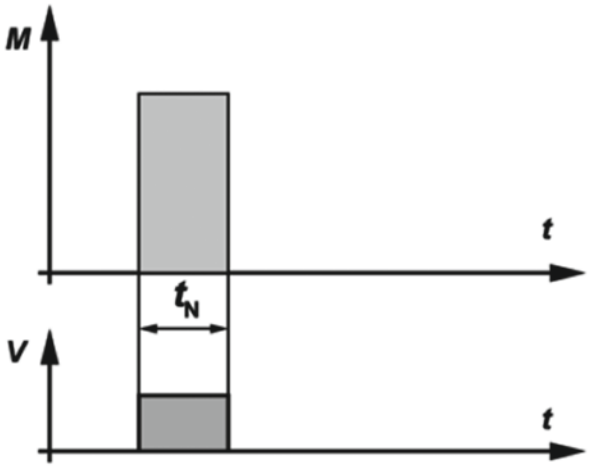
Aside from special drives (such as lifting equipment), standard motors are always designed for continuous running duty. If the drive is operated with frequent on/off cycles, it may be necessary to select a larger motor with a special design. On the other hand, with pronounced short-time duty it is often possible to select a smaller model. **For this reason, it is technically necessary or economically advantageous to inform the motor manufacturer of any duty type that differs from continuous running.**

Continuous running duty (S1)



Operation under rated load for sufficient time to allow temperature equilibrium to be attained, such that the temperature does not increase any more with continued operation. The equipment can operate continuously under the rated load without exceeding the allowable temperature.

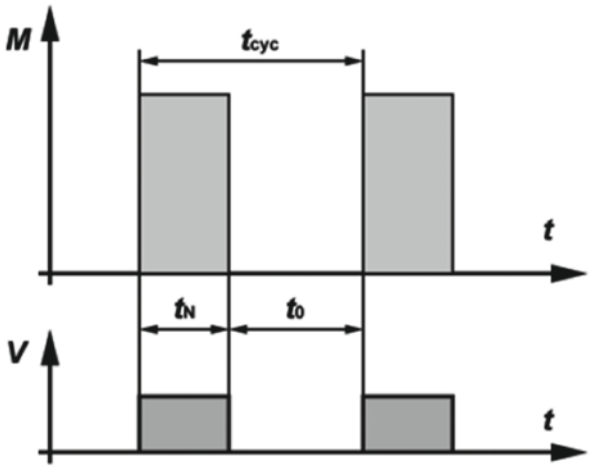
Short-time duty (S2)



The operating time under rated load is short compared with the subsequent rest period. The standard operating times are 10, 30, 60 and 90 minutes. The equipment can operate for this period under the rated load without exceeding the allowable temperature.

Example: S2 – 60 min

Intermittent periodic duty (S3)



S3 duty consists of a sequence of identical cycles, each composed of an operating time with constant load and a rest time with the windings de-energised. The cycle is such that the starting current does not significantly affect the temperature rise. The operating time under rated load and the subsequent pause are both short. The equipment can operate under load only during the period indicated by the duty cycle as a percentage of the total cycle time (cycle duration).
The standardised duty cycles are 15, 25, 40 and 60 %. The cycle duration is 10 minutes unless otherwise specified.

Intermittent periodic duty means that a state of thermal equilibrium is not reached during the load interval.

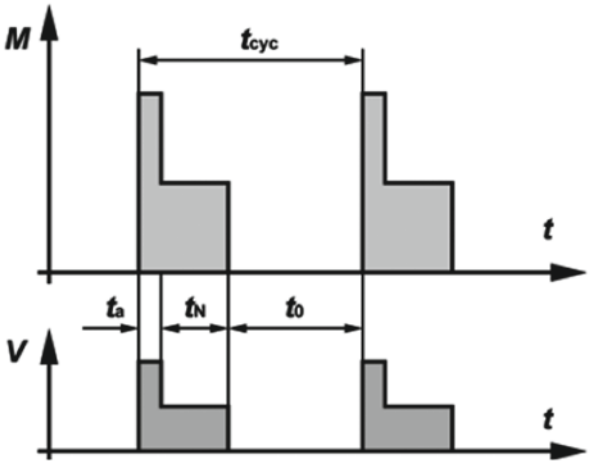
The duty cycle can be determined as follows:

$$ED = \frac{t_N}{t_{cyc}} \times 100\% = \frac{t_N}{t_N + t_0} \times 100\%$$

Example: S3 – 25%

Duty types as defined by EN 60034

Intermittent periodic duty with starting (S4)



S4 duty consists of a sequence of identical cycles, each of which is composed of a distinct starting time, a time of operation under constant load, and a rest period with the windings de-energised.

The operating time under rated load and the subsequent pause are both short. The equipment can operate under load only during the period indicated by the duty cycle as a percentage of the total cycle time (cycle duration).

The standardised duty cycles are 15, 20, 40 and 60 %. The cycle duration is 10 minutes unless otherwise specified.

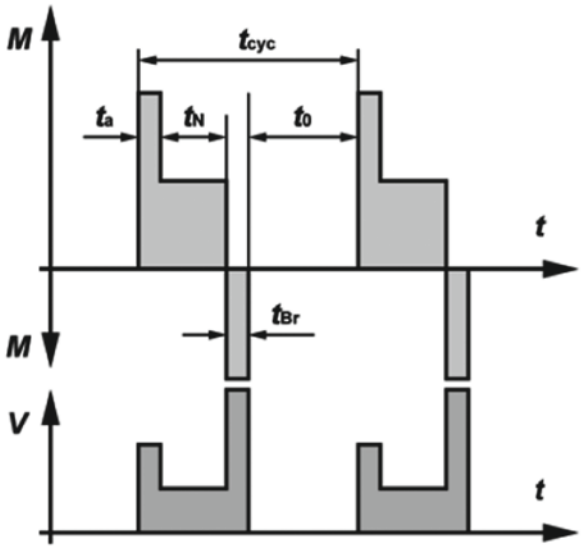
The load cycle corresponds to mode S3, but with additional heating during the starting time that must be taken into account.

The duty cycle can be determined as follows:

$$ED = \frac{(t_a + t_N)}{t_{cyc}} \times 100\% = \frac{t_a + t_N}{t_a + t_N + t_0} \times 100\%$$

Example: S4 – 25 %, J_M = 0.15 kgm²

Intermittent periodic duty with electric braking (S5)



S5 duty consists of a sequence of identical cycles, each of which is composed of a starting time, a time of operation under constant load, a time of fast electric braking, and a rest period with the windings de-energised.
The operating time under rated load and the subsequent pause are both short. The equipment can operate under load only during the period indicated by the duty cycle as a percentage of the total cycle time (cycle duration).
The standardised duty cycles are 15, 20, 40 and 60 %. The cycle duration is 10 minutes unless otherwise specified.

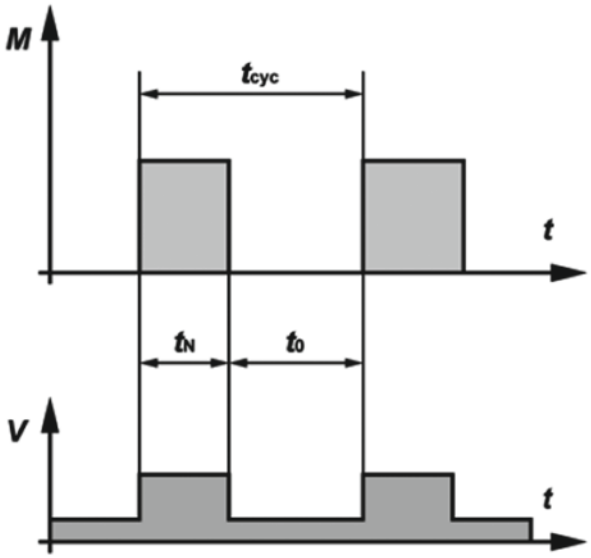
The load cycle corresponds to S3 duty, but with additional warming during the starting time t_a and the braking time t_{Br} taken into account.

The duty cycle can be determined as follows:

$$ED = \frac{(t_a + t_N + t_{Br})}{t_{cyc}} \times 100\% = \frac{t_a + t_N + t_{Br}}{t_a + t_N + t_{Br} + t_0} \times 100\%$$

Example: S5 – 25%; J_M = 0.15 kgm², J_{ext} = 0.7 kgm²
(J_M Moment of inertia of the motor / J_{ext} Moment of inertia of the load)

Continuous-operation periodic duty (S6)



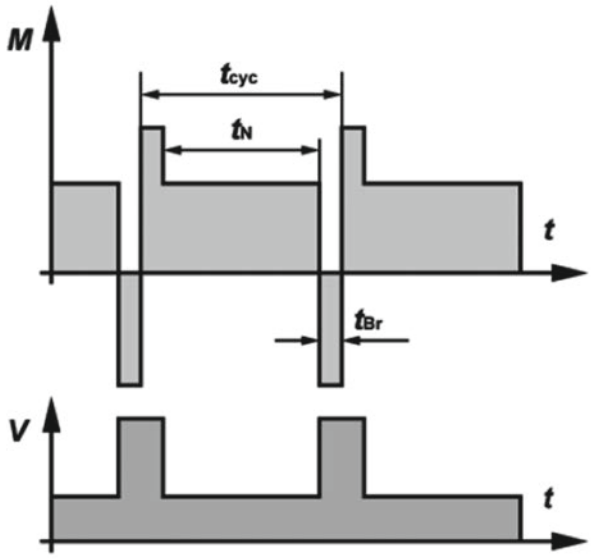
This type of duty corresponds to S3, with the exception that the equipment remains energised during the rest periods. In other words, it operates with no load during these periods. The duty cycle and cycle duration are specified the same way as for S3 duty.

The duty cycle can be determined as follows:

$$ED = \frac{t_N}{t_{cyc}} \times 100\% = \frac{t_N}{t_N + t_0} \times 100\%$$

Example: S6 – 40 %

Continuous-operation periodic duty with electric braking (S7)

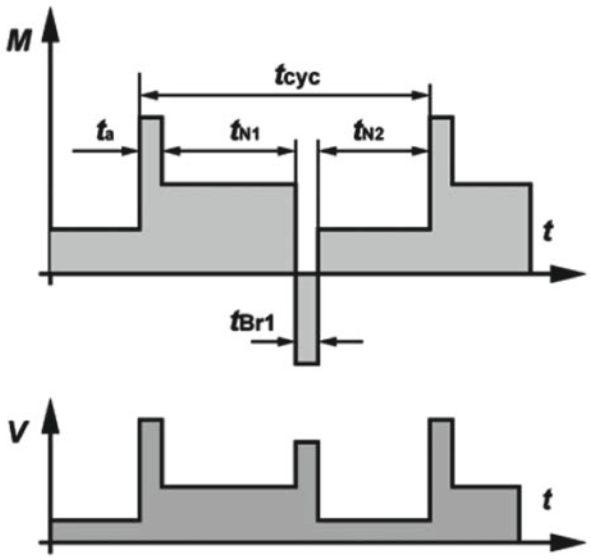


The machine starts up, operates under load, and then is braked electrically, for example by feeding it from a DC power source. Following this, it starts up again immediately. The machine can operate continuously in this manner if the specified moments of inertia of the motor J_M and of the load J_{Ext} as well as the specified duty cycle are not exceeded. If the cycle duration is not specified, it is assumed to be 10 minutes.

The duty cycle can be determined as follows: DC = 1

Example: S7 – J_M = 0.4 kgm², J_{ext} = 7.5 kgm²
(J_M Moment of inertia of the motor / J_{ext} Moment of inertia of the load)

Continuous-operation periodic duty with relative load/speed changes (S8)



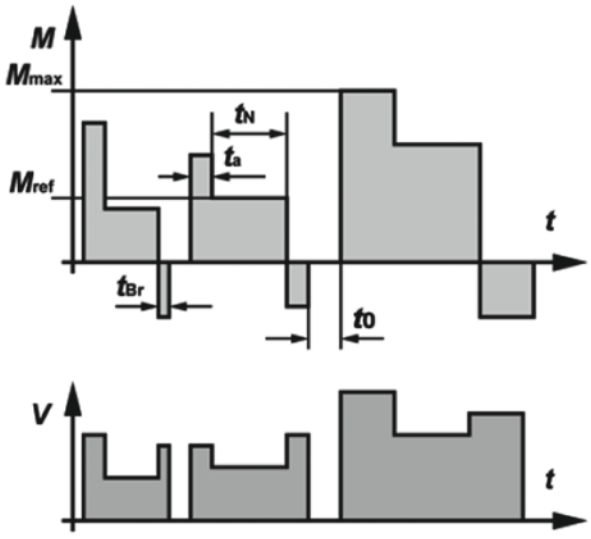
The machine runs continuously under variable load with frequent speed variations. The machine can operate continuously in this manner if at each speed the specified values are not exceeded (moments of inertia J_M and J_{Ext} cycle duration (if other than 10 minutes), rated output and duty cycle. With a moment of inertia of 1 kg m², the acceleration characteristics are the same as with a mass of 1 kg at a distance of 1 m from the axis of rotation).

The duty cycle can be determined as follows:

$$ED = \frac{t_a + t_{N1}}{t_{cyc}} \times 100\% = \frac{t_{Br} + t_{N2}}{t_{cyc}} \times 100\%$$

Example: S8 – J_M = 0.5 kgm², J_{ext} = 6 kgm²
(J_M Moment of inertia of the motor / J_{ext} Moment of inertia of the load)

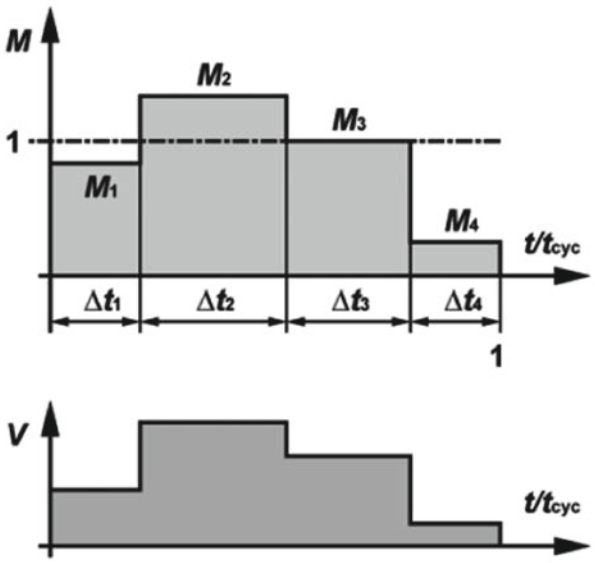
Duty with non-periodic load and speed variations (S9)



In S9 duty the load and the speed vary non-periodically within the permissible operating range. This includes frequently applied overloads, which must never exceed the reference load.
For this duty type, a constant load appropriately selected and based on duty type S1 shall be taken as the reference value M_{ref} for the overload.

Duty types as defined by EN 60034

Duty with discreet constant loads and speeds (S10)



S10 duty comprises operation with at most four different load levels, each of which is maintained long enough to allow the machine to reach thermal equilibrium.
The minimum load within a duty cycle may have a value of zero (no-load operation or at rest with the windings de-energised).
The appropriate abbreviation is S10 followed by the per unit quantities $p/\Delta t$ for the respective load and its duration and the per unit quantity *TL* for the relative thermal life expectancy of the insulation system. The reference value for the thermal life expectancy is the thermal life expectancy at rating for continuous running duty and permissible limits of temperature rise based on duty type S1. For a time de-energized and at rest, the load shall be indicated by the letter *r*.

Example: S10 $p/\Delta t$ = 1.1/0.4, 1/0.3, 0.9/0.2, *r*/0.1; *TL* = 0.6

The figures given in the table below are for Bauer motors operating in conjunction with the frequency inverter. The torques referred to in tables can be entered for the respective frequencies in continuous operation (S1 = duty factor 100 %).

Notes on design

Use the torque required at the lowest operating speed to select motors for applications which require constant torque over the entire speed range, as is the case, for example, with lifting gear and conveyors. Bear in mind, too, the possibility of torque being lower in the field-weakening range.

Use only the torque required at the highest operating speed to select motors for applications which require square-law torque over the speed range, as is the case, for example, with pumps and fans. Field weakening is not permissible.

The motor‘s power is frequency-dependent. It can be approximated in kW from torque M in Nm, the 50 Hz or 60 Hz speed n and the frequency f in Hz by means of the equation

P = M x n / 9550 x f/50
or
P = M x n / 9550 x f/60

If a frequency inverter is used in conjunction with a pulse generator, the full 50 Hz or 60 Hz rated torque is available as holding torque at motor standstill (independent fan required for prolonged periods at standstill). In many instances, however, a mechanical brake is necessary for holding a position exactly or for safety reasons.

The use of thermistors for the thermal protection of the motor winding for frequency inverter duty are strictly recommended (available at extra cost for all motor sizes).

Increased torque with reduced duty factor

A reduction in duty factor increases the torque available at the low end of the frequency range (up to the transition frequency for field weakening) in accordance with the factors in the table below:

Duty factor	Motor torque with reduced duty factor	Increase in current requirementap-proximate
100 %	-	-
60 %	1.15 x S1 torque	1.15 x S1 current
40 %	1.30 x S1 torque	1.30 x S1 current
25 %	1.45 x S1 torque	1.45 x S1 current
15 %	1.60 x S1 torque	1.60 x S1 current

This, in turn, means that short-term overload by a factor of 1.6 is permissible for starting from a low speed, for example. An increase in torque in the field-weakening range due to a reduction in duty factor is possible only under certain conditions; the 1.6x S1 torque generally cannot be achieved

Increased torque with external fan

If an independent fan is used, the S1- torque in the lower frequency range (below 30 Hz) need not be reduced, i.e., when it has an independent fan the motor can provide the 50 Hz or 60 Hz rated torque throughout the entire frequency range to the cut-off frequency of the field weakening.

With a high quality frequency inverter of 160 %, when independent ventilation is combined with a reduced duty factor the 50 Hz or 60 Hz torque is available from rest through to the transition frequency of the field weakening range.

External ventilation is available for motor types S..08.. and larger (see chapter 16 “Motor-independent fan (FV)). In many instances, a more economical alternative is to select a larger motor without external ventilation.

Operation with frequency converter

Energy-saving function

High quality frequency inverters reduce voltage in part-load operation to lower the motor current and thus improve efficiency. This converter function emulates the method of operation of commercially available “energy-saving devices”.

Regeneration

Regenerative torques (braking torques) are required for motors used in lifting gear, for example. In conjunction with high quality frequency inverters, the motor torques listed in the table can also be applied as regenerative torques. As with motor torque, an increase in regenerative torque with reduced duty factor is permissible.

Notes on operation with other-make frequency inverters

The precondition is that the motor current generated by the frequency converter is largely free of harmonics. The harmonics generated in the motor by some old-style frequency inverters result in additional losses and cut available torque by some 10 % across the entire frequency range. There is also a risk of oscillation causing damage to the gear unit.

At frequencies below approximately 5 Hz, operation without pulse generators is possible only using a frequency inverter with state-of- the-art control. If frequency inverters are used that do not feature load-dependent frequency and current adjustment, the increase in the motor‘s current consumption means that, particularly in the case of small motors (S..04..-S..09..), torque has to be reduced at frequencies below approximately 10 Hz even if an external fan is used or the duty factor is reduced. Regenerative operation is possible only under certain circumstances.

General

The gears described in this catalogue are suitable for use in explosion hazard areasof zones 1, 2, 21 and 22. An **EC Declaration of Conformity** is available upon request; it is based on an „assessment of the explosion risk“, which has been recorded with a notified body (PTB). The ignition protection type of the corresponding **motors** is determined by the zone in which they are to be used and by the duty type (e.g. operation on a converter). The motor parts are in some cases larger compared to the normal design shown in this catalogue, or in the case of pressurised enclosures, they are designed entirely differently. However, the modular system shown in section 3 allows, in the majority of cases, the retention of the gear size and the connection dimensions laid out in this catalogue.

ATEX

The term **ATEX** is derived from **At**mosphères **ex**plosibles. The designations **95** and **137** relate to the renumbering of the article of the first Treaty establishing the EU. **ATEX 95:** Directive 94/9/EC to approximate the laws of the Member States for devices and protection systems for intended use in potentially explosive atmospheres; mandatory for **bringing to market** since 1 July 2013 **ATEX 137:** Directive 1999/92/EC on minimum requirements for improving the safety and health protection of workers potentially at risk from explosive atmospheres; mandatory for the **operation** of new systems since 1 July 2003 and mandatory for the adaptation of the operating regulations of existing plants from 1 July 2006.
Safety guidelines for the operation of explosion-protected gear motors an be found in BA170...

Frequency converters

Frequency converters used must comply with the requirements set out in the EC Type Examination Certificate.
For the corresponding motor type, the EC Type Examination Certificate contains the maximum possible torques depending on the frequency, the corresponding rated current, converter settings and other requirements for the converter.
The pulse voltage at the motor terminals must be limited to a maximum permissible pulse voltage of 1.556 V (2 x √2 x 550 V) by selecting a suitable frequency converter and/or using filters. The maximum permissible frequency converter input voltage is 500 V

Protective device

The motor is protected against unacceptable heating by the defined frequency converter setting, as well as by the integrated thermistor sensor in accordance with DIN 44081 / 44082 Response temperature **140 °C**. Analysis of the built-in thermal winding protection must be done by using a trip unit with Ex-mark II (2) G or II (2) D that fulfils the requirements of Directive 94/9/EC.

Explosion protection

Voltages

The voltages at the motor terminals depend on the input voltage of the frequency converter, the voltage loss at the filter and in the motor supply cable, and may not fall below the rated value by more than 10 % according to IEC 60034 - 1 Range „B“, even with minimum input voltage from the frequency converter. In the case of reduced voltages at the motor terminals, the permissible motor torque must be reduced proportionally to the change in voltage. This must be taken into account for the sizing of the motor, the parameterisation of the converter and for the minimum converter input voltage.

The maximum permissible frequency converter input voltage is 500 V +10 %, 50/60 Hz. Changes to the rated values (torque, speed adjusting range) within the permissible operating range are permissible and are determined by the manufacturer. Permissible continuous current limit, torque and speed adjusting range are specified on the nameplate.
Max. permissible ambient temperature range -20 °C to +50 °C

Converter Settings:

Minimum clock frequency:	3 kHz
Short-term current limit:	160 % * In
Maximum overload time:	60 s
Minimum frequency:	5 Hz
Maximum frequency:	Up to 180 Hz, depending on motor design
Permissible operating time below fmin: 60 s	

All other settings must be selected according the requirements of the drive.

The maximum overload time and the permissible operating time below fmin are based on an interval of 10 minutes

Gears with non-electrical explosion protection

As of 1 July 2003, only mechanical equipment („devices“) which comply with the requirements of ATEX 95 may be placed on the market. The ATEX and ExVO define the following: „Equipment includes machines, apparatus, fixed or mobile devices, control components and instrumentation thereof and detection or prevention systems which, separately or jointly, are intended for the generation, transfer, storage, measurement, control and conversion of energy and/or the processing of material and which are capable of causing an explosion through their own potential sources of ignition.“ The definition therefore applies to the gear component of a gear motor; but also to the process machinery and equipment being driven, if these are installed in explosion hazard areas. An **„Assessment of the Ignition Hazard“** must be carried out and documented by the manufacturer for the **„Declaration of Conformity“** for the machine being driven; this task is simplified if a dedicated assessment is carried out for the „gear motor“ components. The assessment can only be undertaken in accordance with the ATEX requirements; the „Presumption of Conformity“ applies in favour of the product, however, if a standard or draft standard is taken as a basis.
When difficult conditions combine (e.g. ambient temperature > 40 °C, speed > 1500 r/min, vertical arrangement of the motor component, temperature class T4), there may be restrictions on the selection of gears in the upper power range.
The following standards, among others, were observed for the assessment of the Bauer gears:
EN 1127 Explosion Protection; basic concepts and methodology
EN 13463 Non-electrical equipment for use in potentially explosive atmospheres
EN 13463-1 Basic method
EN 13463-5 Constructional safety
EN 13463-8 Liquid immersion

Standard Motors

Motors with rated speed 1500 1/min

M_n	IE	Type	P_n	I_n	2p	n_n	f	η	Connec-	R_{20}	R_{s20}	L_d	L_q	ke	kt	$M_{max\ (60s)}$	$I_{max\ (60s)}$	J
Nm	Class		kW	A		1/min	Hz	%	tion	Ω	Ω	mH	mH	V/1000 1/min	Nm/A	Nm	A	kgm²
0.76	4	S4E04SA4-1	0.12	0.41	4	1500	50	IE4-67.4	Y	154	77.2	268	412	120	1.85	1.6	0.86	0.00014
0.76	3	SPEU04SA4-1	0.12	0.42	4	1500	50	IE3-66	Y	154	77.2	268	412	120	1.8	1.2	0.67	0.00014
1	2	SHE04SA4-1	0.157	0.54	4	1500	50	IE2-61.4	Y	154	77.2	268	412	120	1.85	1.6	0.86	0.00014
1.15	5	S5EU06MA4	0.18	0.49	4	1500	50	IE5-80.8	Y	79	39.5	171	271	152	2.35	2.6	1.1	0.0002
1.3	5	S5E06MA4	0.2	0.55	4	1500	50	IE5-79.6	Y	79	39.5	171	271	152	2.4	3.8	1.6	0.0002
1.3	5	S5EU06MA4	0.2	0.55	4	1500	50	IE5-79.1	Y	79	39.5	171	271	152	2.35	2.6	1.1	0.0002
1.6	4	S4E06MA4	0.25	0.67	4	1500	50	IE4-76.6	Y	79	39.5	171	271	152	2.4	3.8	1.6	0.0002
1.6	4	S4EU06MA4	0.25	0.68	4	1500	50	IE4-75.5	Y	79	39.5	171	271	152	2.35	2.6	1.1	0.0002
1.6	5	S5EU06LA4	0.25	0.7	4	1500	50	IE5-85.5	Y	37.2	18.6	99.5	133	148	2.3	3.8	1.7	0.000295
2.4	1	SSE06MA4	0.37	1	4	1500	50	IE1-66.1	Y	79	39.5	171	271	152	2.4	3.8	1.6	0.0002
2.4	4	S4EU06LA4	0.37	1.05	4	1500	50	IE4-80	Y	37.2	18.6	99.5	133	148	2.3	3.8	1.7	0.000295
2.6	4	S4E06LA4	0.4	1.12	4	1500	50	IE4-79.8	Y	37.2	18.6	99.5	133	148	2.3	5.6	2.4	0.000295
3.5	1	SSE06LA4	0.55	1.5	4	1500	50	IE1-74.1	Y	37.2	18.6	99.5	133	148	2.3	5.6	2.4	0.000295
3.5	5	S5EU08MA4	0.55	1.28	4	1500	50	IE5-87.2	Y	18.7	9.35	97	170	180	2.7	10	3.7	0.00115
5	4	S4E08MA4	0.78	1.8	4	1500	50	IE4-85.7	Y	18.7	9.35	97	170	180	2.8	10	3.7	0.00115
5	5	S5EU08LA4	0.78	1.9	4	1500	50	IE5-86.9	Y	11	5.5	70	117	171	2.6	15	5.6	0.0015
7	3	SPE08LA4	1.1	2.6	4	1500	50	IE3-85.4	Y	11	5.5	70	117	171	2.75	15	5.6	0.0015
7	5	S5EU09SA4	1.1	2.2	4	1500	50	IE5-90.8	Y	9.9	4.95	64.1	110	208	3.2	20	6.4	0.00245
10	1	SSE08LA4	1.55	3.6	4	1500	50	IE1-80.5	Y	11	5.5	70	117	171	2.8	15	5.6	0.0015
10	4	S4E09SA4	1.55	3	4	1500	50	IE4-88.2	Y	9.9	4.95	64.1	110	208	3.3	20	6.4	0.00245
10	5	S5EU09XA4	1.55	3.1	4	1500	50	IE5-89.9	Y	5.25	2.63	41.2	70.1	209	3.2	30	10	0.0038
14	2	SHE09SA4	2.2	4.3	4	1500	50	IE2-83.9	Y	9.9	4.95	64.1	110	208	3.3	20	6.4	0.00245
14	5	S5E09XA4	2.2	4.2	4	1500	50	IE5-90.3	Y	5.25	2.63	41.2	70.1	209	3.35	31	10	0.0038
14	5	S5EU11SA6	2.2	4.4	6	1500	75	IE5-91.3	Y	3.52	1.76	20	30	210	3.1	40	13	0.012
20	3	SPE09XA4	3.1	5.9	4	1500	50	IE3-88	Y	5.25	2.63	41.2	70.1	209	3.35	31	10	0.0038
19	4	S4E11SA6	3	5.9	6	1500	75	IE4-90.1	Y	3.52	1.76	20	30	210	3.2	35	11	0.012
20	5	S5EU11MA6	3.1	6.4	6	1500	75	IE5-93.3	Y	1.78	0.892	12	18.4	206	3.1	55	17	0.0175
25.5	3	SPE11SA6	4	8	6	1500	75	IE3-87.7	Y	3.52	1.76	20	30	210	3.2	35	11	0.012
25.5	5	S5EU11LA6	4	8.1	6	1500	75	IE5-93.2	Y	1.21	0.605	9.3	13.9	210	3.1	75	23	0.0215
26.5	5	S5E11MA6	4.2	8.3	6	1500	75	IE5-92.5	Y	1.78	0.892	12	18.4	206	3.15	55	17	0.0175
35	5	S5E11LA6	5.5	10.8	6	1500	75	IE5-93.2	Y	1.21	0.605	9.3	13.9	210	3.25	75	23	0.0215
35	4	S4E11MA6	5.5	11	6	1500	75	IE4-90.8	Y	1.78	0.892	12	18.4	206	3.15	55	17	0.0175
48	3	SPE11LA6	7.5	14.7	6	1500	75	IE3-91.4	Y	1.21	0.605	9.3	13.9	210	3.25	75	23	0.0215

M_n	Rated torque
P_n	Rated power
I_n	Rated current
2p	No. of Motor Poles
n_n	Rated speed
f	Nominal Frequency
η	Motor efficiency
R_{20}	Phase Resistance U-V
R_{s20}	Winding Resistance
L_d	Inductance D-Axis
L_q	Inductance Q-Axis
ke	Voltage constant
kt	Torque constant
$M_{max\ (60s)}$	Peak Torque
$I_{max\ (60s)}$	Peak Current
J	Moment of inertia

All motors: converter supply voltage 380 to 500 V

Motors
Technical data

Rated speed 1500 1/min

Rated speed 1500 1/min																				
η (100%-Load)	η (75%-Load)	η (50%-Load)	IE Class	Manufacturer data	Type	Number of poles	M_n	P	Frequency	Voltage	n_N	Type of motor	Operating conditions	Power losses in % at operating points (Speed/Torque)						
%	%	%					Nm	kW	Hz	V	1/min			25/25	25/100	50/25	50/50	50/100	90/50	90/100
67.4	n.A	n.A	IE4	1)	S4E04SA4-1	4	0.76	0.12	50	380	1500	2)	3)	4.1	39.2	5.0	12.2	41.1	14.2	43.9
66.0	n.A	n.A	IE3	1)	SPEU04SA4-1	4	0.76	0.12	50	380	1500	2)	3)	4.1	42.8	5.2	13.0	44.8	15.2	46.6
61.4	n.A	n.A	IE2	1)	SHE04SA4-1	4	1	0.157	50	380	1500	2)	3)	4.5	54.3	5.4	15.6	55.2	17.3	56.7
80.8	n.A	n.A	IE5	1)	S5EU06MA4	4	1.15	0.18	50	380	1500	2)	3)	2.3	18.9	3.3	6.7	19.8	8.5	21.5
79.6	n.A	n.A	IE5	1)	S5E06MA4	4	1.3	0.2	50	380	1500	2)	3)	2.5	20.6	3.5	7.2	21.6	9.1	23.5
79.1	n.A	n.A	IE5	1)	S5EU06MA4	4	1.3	0.2	50	380	1500	2)	3)	2.8	21.8	3.6	7.1	22.7	8.6	24.3
76.6	n.A	n.A	IE4	1)	S4E06MA4	4	1.6	0.25	50	380	1500	2)	3)	2.2	24.8	3.0	7.5	25.6	9.6	27.7
75.5	n.A	n.A	IE4	1)	S4EU06MA4	4	1.6	0.25	50	380	1500	2)	3)	2.4	27.4	3.0	8.0	28.2	9.3	29.4
85.5	n.A	n.A	IE5	1)	S5EU06LA4	4	1.6	0.25	50	380	1500	2)	3)	1.9	12.8	2.8	5.1	13.6	6.6	15.3
66.1	n.A	n.A	IE1	1)	SSE06MA4	4	2.4	0.37	50	380	1500	2)	3)	3.1	45.5	3.7	11.6	46.2	13.3	47.1
80.0	n.A	n.A	IE4	1)	S4EU06LA4	4	2.4	0.37	50	380	1500	2)	3)	2.0	21.4	2.5	6.4	21.9	7.4	22.9
79.8	n.A	n.A	IE4	1)	S4E06LA4	4	2.6	0.4	50	380	1500	2)	3)	2.2	20.5	3.0	6.7	21.5	8.5	23.2
74.1	n.A	n.A	IE1	1)	SSE06LA4	4	3.5	0.55	50	380	1500	2)	3)	1.5	10.6	2.5	4.4	11.6	5.9	13.2
87.2	n.A	n.A	IE5	1)	S5EU08MA4	4	3.5	0.55	50	380	1500	2)	3)	2.3	29.7	2.9	8.2	30.2	9.4	31.4
85.7	n.A	n.A	IE4	1)	S4E08MA4	4	5	0.78	50	380	1500	2)	3)	1.4	13.4	1.9	4.4	14.0	5.5	15.2
86.9	n.A	n.A	IE5	1)	S5EU08LA4	4	5	0.78	50	380	1500	2)	3)	1.7	10.4	2.8	4.7	11.7	6.6	13.7
85.4	n.A	n.A	IE3	1)	SPE08LA4	4	7	1.1	50	380	1500	2)	3)	1.4	12.7	2.2	4.4	13.7	6.3	15.4
90.8	n.A	n.A	IE5	1)	S5EU09SA4	4	7	1.1	50	380	1500	2)	3)	0.9	7.7	1.2	2.7	8.3	3.5	9.1
80.5	n.A	n.A	IE1	1)	SSE08LA4	4	10	1.55	50	380	1500	2)	3)	1.6	21.2	2.3	6.3	21.8	7.5	22.2
88.2	n.A	n.A	IE4	1)	S4E09SA4	4	10	1.55	50	380	1500	2)	3)	1.2	10.4	1.7	3.7	11.1	4.9	12.2
89.9	n.A	n.A	IE5	1)	S5EU09XA4	4	10	1.55	50	380	1500	2)	3)	1.6	7.1	2.7	3.9	8.3	5.9	10.3
83.9	n.A	n.A	IE2	1)	SHE09SA4	4	14	2.2	50	380	1500	2)	3)	1.3	15.9	1.7	4.7	16.4	5.6	17.3
90.3	n.A	n.A	IE5	1)	S5E09XA4	4	14	2.2	50	380	1500	2)	3)	1.1	7.6	1.8	3.2	8.4	4.4	9.6
91.3	n.A	n.A	IE5	1)	S5EU11SA6	6	14	2.2	50	380	1500	2)	3)	1.0	6.3	1.7	2.9	7.1	4.4	8.6
88.0	n.A	n.A	IE3	1)	SPE09XA4	4	20	3.1	50	380	1500	2)	3)	1.0	11.4	1.4	3.5	11.7	4.2	12.5
90.1	n.A	n.A	IE4	1)	S4E11SA6	6	19	3	75	380	1500	2)	3)	1.0	7.4	1.7	3.1	8.3	4.7	9.9
93.3	n.A	n.A	IE5	1)	S5EU11MA6	6	20	3.1	75	380	1500	2)	3)	0.8	5.0	1.4	2.2	5.6	3.3	6.6
87.7	n.A	n.A	IE3	1)	SPE11SA6	6	25.5	4	75	380	1500	2)	3)	1.0	10.9	1.5	3.4	11.5	4.6	12.7
93.2	n.A	n.A	IE5	1)	S5EU11LA6	6	25.5	4	75	380	1500	2)	3)	0.8	4.5	1.4	2.2	5.3	3.4	6.5
92.5	n.A	n.A	IE5	1)	S5E11MA6	6	26.5	4.2	75	380	1500	2)	3)	0.7	5.5	1.2	2.3	6.2	3.4	7.2
93.2	n.A	n.A	IE5	1)	S5E11LA6	6	35	5.5	75	380	1500	2)	3)	0.8	5.0	1.3	2.3	5.6	3.4	6.6
90.8	n.A	n.A	IE4	1)	S4E11MA6	6	35	5.5	75	380	1500	2)	3)	0.8	7.7	1.2	2.6	8.2	3.5	9.1
91.4	n.A	n.A	IE3	1)	SPE11LA6	6	48	7.5	75	380	1500	2)	3)	0.7	7.2	1.1	2.4	7.7	3.3	8.5
*Dimensioned according to IEC TS 60034-30-2																				

1)	Manufacturer:	Bauer Gear Motor GmbH	2)	Type of motor:	Three-phase permanent magnet excited synchronous motor
	Commercial register number:	HRB 736269	3)	Installation altitude above sea level (m):	1000
	Address:	Eberhard-Bauer-Str. 37, 73734 Esslingen / Germany		Ambient temperature:	-20 °C to +40 °C

The figures given in the table below are for Bauer motors operating in conjunction with the frequency inverter. The torques referred to in tables can be entered for the respective frequencies in continuous operation (S1 = duty factor 100 %).

Motor torques in the adjusting range 150 1/min - 1800 1/min. duty type S1

M_n Nm	P_n kW	Type	Speed 1/min	Torque Nm	Power kW	Current A	Frequency Hz	Connection
0.76	0.12	S4E04SA4-1	150	0.76	0.012	0.41	5	Y
			500	0.76	0.04	0.41	16.67	Y
			1000	0.76	0.08	0.41	33.33	Y
			1500	0.76	0.12	0.41	50	Y
			1800	0.76	0.143	0.41	60	Y
0.76	0.12	SPEU04SA4-1	150	0.76	0.012	0.42	5	Y
			500	0.76	0.04	0.42	16.67	Y
			1000	0.76	0.08	0.42	33.33	Y
			1500	0.76	0.12	0.42	50	Y
			1800	0.76	0.143	0.42	60	Y
1	0.157	SHE04SA4-1	150	0.76	0.012	0.41	5	Y
			500	0.85	0.045	0.46	16.67	Y
			1000	1	0.105	0.54	33.33	Y
			1500	1	0.157	0.54	50	Y
			1800	1	0.188	0.54	60	Y
1.15	0.18	S5EU06MA4	150	1.15	0.018	0.49	5	Y
			500	1.15	0.06	0.49	16.67	Y
			1000	1.15	0.12	0.49	33.33	Y
			1500	1.15	0.18	0.49	50	Y
			1800	1.15	0.217	0.49	60	Y
1.3	0.2	S5E06MA4	150	1.3	0.02	0.55	5	Y
			500	1.3	0.068	0.55	16.67	Y
			1000	1.3	0.136	0.55	33.33	Y
			1500	1.3	0.2	0.55	50	Y
			1800	1.3	0.245	0.55	60	Y
1.3	0.2	S5EU06MA4	150	1.3	0.02	0.55	5	Y
			500	1.3	0.068	0.55	16.67	Y
			1000	1.3	0.136	0.55	33.33	Y
			1500	1.3	0.2	0.55	50	Y
			1800	1.3	0.245	0.55	60	Y
1.6	0.25	S4E06MA4	150	1.6	0.025	0.67	5	Y
			500	1.6	0.092	0.67	16.67	Y
			1000	1.6	0.168	0.67	33.33	Y
			1500	1.6	0.25	0.67	50	Y
			1800	1.6	0.3	0.67	60	Y
1.6	0.25	S4EU06MA4	150	1.6	0.025	0.68	5	Y
			500	1.6	0.084	0.68	16.67	Y
			1000	1.6	0.168	0.68	33.33	Y
			1500	1.6	0.25	0.68	50	Y
			1800	1.6	0.3	0.7	60	Y
1.6	0.25	S5EU06LA4	150	1.6	0.025	0.7	5	Y
			500	1.6	0.084	0.7	16.67	Y
			1000	1.6	0.168	0.7	33.33	Y
			1500	1.6	0.25	0.7	50	Y
			1800	1.6	0.3	0.7	60	Y
2.4	0.37	SSE06MA4	150	1.8	0.028	0.75	5	Y
			500	2	0.105	0.84	16.67	Y
			1000	2.2	0.23	0.93	33.33	Y
			1500	2.4	0.37	1	50	Y
			1800	2.4	0.45	1	60	Y

M_n Nm	P_n kW	Type	Speed 1/min	Torque Nm	Power kW	Current A	Frequency Hz	Connection
2.4	0.37	S4EU06LA4	150	2.4	0.038	1.05	5	Y
			500	2.4	0.126	1.05	16.67	Y
			1000	2.4	0.25	1.05	33.33	Y
			1500	2.4	0.37	1.05	50	Y
			1800	2.4	0.45	1.05	60	Y
2.6	0.37	S4E06LA4	150	2.5	0.04	1.07	5	Y
			500	2.6	0.136	1.12	16.67	Y
			1000	2.6	0.27	1.12	33.33	Y
			1500	2.6	0.4	1.12	50	Y
			1800	2.6	0.5	1.12	60	Y
3.5	0.55	SSE06LA4	150	2.5	0.04	1.07	5	Y
			500	2.9	0.15	1.25	16.67	Y
			1000	3.5	0.37	1.5	33.33	Y
			1500	3.5	0.55	1.5	50	Y
			1800	3.5	0.66	1.5	60	Y
3.5	0.55	S5EU08MA4	150	3.5	0.06	1.28	5	Y
			500	-	-	-	16.67	Y
			1000	-	-	-	33.33	Y
			1500	3.5	0.55	1.28	50	Y
			1800	3.5	0.66	1.28	60	Y
5	0.78	S4E08MA4	150	5	0.08	1.8	5	Y
			500	5	0.26	1.8	16.67	Y
			1000	5	0.52	1.8	33.33	Y
			1500	5	0.78	1.8	50	Y
			1800	5	0.9	1.8	60	Y
5	0.78	S5EU08LA4	150	5	0.08	1.9	5	Y
			500	-	-	-	16.67	Y
			1000	-	-	-	33.33	Y
			1500	5	0.78	1.9	50	Y
			1800	5	0.9	1.9	60	Y
7	1.1	SPE08LA4	150	6.5	0.1	2.4	5	Y
			500	7	0.37	2.6	16.67	Y
			1000	7	0.73	2.6	33.33	Y
			1500	7	1.1	2.6	50	Y
			1800	7	1.3	2.6	60	Y
7	1.1	S5EU09SA4	150	7	0.11	2.2	5	Y
			500	-	-	-	16.67	Y
			1000	-	-	-	33.33	Y
			1500	7	1.1	2.2	50	Y
			1800	7	1.3	2.2	60	Y
10	1.55	SSE08LA4	150	6.5	0.1	2.4	5	Y
			500	8	0.42	2.9	16.67	Y
			1000	10	1.05	3.6	33.33	Y
			1500	10	1.55	3.6	50	Y
			1800	10	1.9	3.6	60	Y
10	1.55	S4E09SA4	150	8.5	0.13	2.6	5	Y
			500	10	0.52	3	16.67	Y
			1000	10	1.05	3	33.33	Y
			1500	10	1.55	3	50	Y
			1800	10	1.9	3	60	Y
10	1.55	S5EU09XA4	150	10	0.16	3.1	5	Y
			500	-	-	-	16.67	Y
			1000	-	-	-	33.33	Y
			1500	10	1.55	3.1	50	Y
			1800	10	1.9	3.2	60	Y

M_n Nm	P_n kW	Type	Speed 1/min	Torque Nm	Power kW	Current A	Frequency Hz	Connection
14	2.2	SHE09SA4	150	8.5	0.13	2.6	5	Y
			500	10	0.52	3.1	16.67	Y
			1000	14	1.47	4.3	33.33	Y
			1500	14	2.2	4.3	50	Y
			1800	14	2.6	4.5	60	Y
14	2.2	S5E09XA4	150	13	0.2	3.9	5	Y
			500	14	0.73	4.2	16.67	Y
			1000	14	1.47	4.2	33.33	Y
			1500	14	2.2	4.2	50	Y
			1800	14	2.6	4.5	60	Y
14	2.2	S5EU11SA6	150	14	0.22	4.4	7.5	Y
			500	-	-	-	-	Y
			1000	-	-	-	-	Y
			1500	14	2.2	4.4	75	Y
			1800	14	2.6	4.4	90	Y
19	3	S4E11SA6	150	19	0.3	5.9	7.5	Y
			500	19	1	5.9	25	Y
			1000	19	2	5.9	50	Y
			1500	19	3	5.9	75	Y
			1800	19	3.6	5.9	90	Y
20	3.1	SPE09XA4	150	13	0.2	3.9	5	Y
			500	16	0.84	4.8	16.67	Y
			1000	20	2.1	5.9	33.33	Y
			1500	20	3.1	5.9	50	Y
			1800	20	3.8	6.7	60	Y
20	3.1	S5EU11MA6	150	20	0.31	6.4	7.5	Y
			500	-	-	-	-	Y
			1000	-	-	-	-	Y
			1500	20	3.1	6.4	75	Y
			1800	20	3.8	6.4	90	Y
25.5	4	SPE11SA6	150	19	0.3	5.9	7.5	Y
			500	22	1.2	6.9	25	Y
			1000	25.5	2.7	8	50	Y
			1500	25.5	4	8	75	Y
			1800	25.5	4.8	8	90	Y
25.5	4	S5EU11LA6	150	25.5	0.4	8.1	7.5	Y
			500	-	-	-	-	Y
			1000	-	-	-	-	Y
			1500	25.5	4	8.1	75	Y
			1800	25.5	4.8	8.1	90	Y
26.5	4.2	S5E11MA6	150	26.5	0.42	8.3	7.5	Y
			500	26.5	1.4	8.3	25	Y
			1000	26.5	2.8	8.3	50	Y
			1500	26.5	4.2	8.3	75	Y
			1800	26.5	5	8.3	90	Y
35	5.5	S5E11LA6	150	35	0.55	10.8	7.5	Y
			500	35	1.8	10.8	25	Y
			1000	35	3.7	10.8	50	Y
			1500	35	5.5	10.8	75	Y
			1800	35	6.6	10.8	90	Y
35	5.5	S4E11MA6	150	26.5	0.42	8.3	7.5	Y
			500	30	1.6	9.5	25	Y
			1000	35	3.7	11	50	Y
			1500	35	5.5	11	75	Y
			1800	35	6.6	11	90	Y

Motors

Technical data

M_n Nm	P_n kW	Type	Speed 1/min	Torque Nm	Power kW	Current A	Frequency Hz	Connection
48	7.5	SPE11LA6	150	35	0.55	10.8	7.5	Y
			500	40	2.1	12.3	25	Y
			1000	48	5	14.7	50	Y
			1500	48	7.5	14.7	75	Y
			1800	48	9	14.7	90	Y

Converter Settings:

Minimum clock frequency:	3 kHz
Short-term current limit:	160 % * $I_{1500/min}$
Maximum overload time:	60 s
Minimum frequency:	5 Hz
Maximum frequency:	60 Hz
Permissible operating time below f_{min}:	60 s (in open loop mode)

All other settings must be selected according the requirements of the drive.
The maximum overload time and the permissible operating time below f_{min} are based on an interval of 10 minutes.

Non-standard operating conditions on request.

All motors: converter supply voltage 380 to 500 V

Motors with rated speed 2250 1/min

M_n	IE	Type	P_n	I_n	2p	n_n	f	η	Connection	R_{20}	R_{s20}	L_d	L_q	ke	kt	$M_{max\ (60s)}$	$I_{max\ (60s)}$	J
Nm	Classe		kW	A		1/min	Hz	%		Ω	Ω	mH	mH	V/1000 1/min	Nm/A	Nm	A	kgm^2
3.5	5	S5EU08MA4	0.82	2.25	4	2250	75	IE5-88.4	D	6.23	9.35	34	57	103	1.4	10	6.4	0.00115
5	5	S5E08MA4	1.18	3.1	4	2250	75	IE5-87.9	D	6.23	9.35	34	57	103	1.6	10	6.4	0.00115
5	5	S5EU08LA4	1.18	3.6	4	2250	75	IE5-86.5	D	3.67	5.5	24	39	99	1.4	14	9.5	0.0015
7	4	S4E08LA4	1.65	4.7	4	2250	75	IE4-85.9	D	3.67	5.5	24	39	99	1.5	14	9.5	0.0015
7	3	SPE08MA4	1.65	4.3	4	2250	75	IE3-83.8	D	6.23	9.35	34	57	103	1.6	10	6.4	0.00115
7	5	S5EU09SA4	1.65	3.75	4	2250	75	IE5-91.3	D	3.3	4.95	21.4	36.6	120	1.85	20	11	0.00245
10	1	SSE08LA4	2.35	6.6	4	2250	75	IE1-81.4	D	3.67	5.5	24	39	99	1.5	14	9.5	0.0015
10	5	S5E09SA4	2.35	5.3	4	2250	75	IE5-89.3	D	3.3	4.95	21.4	36.6	120	1.9	20	11	0.00245
10	5	S5EU09XA4	2.35	5.5	4	2250	75	IE5-90.6	D	1.75	2.63	13.8	24.4	120	1.8	30	16	0.0038
13	3	SPE09SA4	3	6.9	4	2250	75	IE3-86.8	D	3.3	4.95	21.4	36.6	120	1.9	20	11	0.00245
17.5	4	S4E09XA4	4.1	9.2	4	2250	75	IE4-89.4	D	1.75	2.63	13.8	24.4	120	1.9	29	16	0.0038

M_n	Rated torque
P_n	Rated power
I_n	Rated current
2p	No. of Motor Poles
n_n	Rated speed
f	Nominal Frequency
η	Motor efficiency
R_{20}	Phase Resistance U-V
R_{s20}	Winding Resistance
L_d	Inductance D-Axis
L_q	Inductance Q-Axis
ke	Voltage constant
kt	Torque constant
$M_{max\ (60s)}$	Peak Torque
$I_{max\ (60s)}$	Peak Current
J	Moment of inertia

All motors: converter supply voltage 380 to 500 V

Rated speed 2250 1/min

Rated speed 2250 1/min																				
													Power losses in % at operating points (Speed/Torque)							
η (100 % -Load)	η (75 %-Load)	η (50 %-Load)	IE Class	Manufacturer data	Type	Number of poles	M_n	P	Frequency	Voltage	nN	Type of motor	Operating conditions	25/25	25/100	50/25	50/50	50/100	90/50	90/100
%	%	%					Nm	kW	Hz	V	1/min									
88.4	n.A	n.A	5	1)	S5EU08MA4	4	3.5	0.82	75	380	2250	2)	3)	1.6	8.5	2.6	4.1	9.8	6.0	12.0
87.9	n.A	n.A	5	1)	S5E08MA4	4	5	1.18	75	380	2250	2)	3)	1.1	9.9	1.7	3.5	10.8	4.9	12.3
86.5	n.A	n.A	5	1)	S5EU08LA4	4	5	1.18	75	380	2250	2)	3)	2.5	10.1	3.8	5.4	11.5	7.7	14.0
85.9	n.A	n.A	4	1)	S4E08LA4	4	7	1.65	75	380	2250	2)	3)	2.2	11.0	3.3	5.2	12.3	7.4	14.8
83.8	n.A	n.A	3	1)	SPE08MA4	4	7	1.65	75	380	2250	2)	3)	1.3	15.2	1.7	4.6	16.1	5.7	17.4
91.3	n.A	n.A	5	1)	S5EU09SA4	4	7	1.65	75	380	2250	2)	3)	1.2	6.4	2.1	3.3	7.3	3.6	8.5
81.4	n.A	n.A	1	1)	SSE08LA4	4	10	2.35	75	380	2250	2)	3)	2.2	17.6	3.0	6.2	18.6	8.1	20.5
89.3	n.A	n.A	5	1)	S5E09SA4	4	10	2.35	75	380	2250	2)	3)	1.4	8.0	1.7	3.3	9.1	4.7	10.8
90.6	n.A	n.A	5	1)	S5EU09XA4	4	10	2.35	75	380	2250	2)	3)	1.3	6.0	2.4	3.4	7.3	5.3	9.4
86.8	n.A	n.A	3	1)	SPE09SA4	4	13	3	75	380	2250	2)	3)	1.2	11.4	1.8	3.9	12.5	5.2	14.0
89.4	n.A	n.A	4	1)	S4E09XA4	4	17.5	4.1	75	380	2250	2)	3)	1.1	8.1	1.8	3.3	9.1	4.8	10.7

*Dimensioned according to IEC TS 60034-30-2

1) Manufacturer: Bauer Gear Motor GmbH
Commercial register number: HRB 736269
Address: Eberhard-Bauer-Str. 37, 73734 Esslingen / Germany

2) Type of motor: Three-phase permanent magnet excited synchronous motor

3) Installation altitude above sea level (m): 1000
Ambient temperature: -20 °C to +40 °C

The figures given in the table below are for Bauer motors operating in conjunction with the frequency inverter. The torques referred to in tables can be entered for the respective frequencies in continuous operation (S1 = duty factor 100 %).

Motor torques in the adjusting range 150 1/min - 3600 1/min. duty type S1

M_n Nm	P_n kW	Type	Speed 1/min	Torque Nm	Power kW	Current A	Frequency Hz	Connection
3.5	0.82	S5EU08MA4	150	3.5	0.06	2.25	5	D
			500	-	-	-	16.66	D
			1000	-	-	-	33.33	D
			2250	3.5	0.82	2.25	75	D
			2600	3.5	1	2.25	87	D
5	1.18	S5E08MA4	150	5	0.08	3.1	5	D
			500	5	0.26	3.1	16.66	D
			1000	5	0.52	3.1	33.33	D
			2250	5	1.18	3.1	75	D
			2600	5	1.4	3.1	87	D
5	1.18	S5EU08LA4	150	5	0.08	3.6	5	D
			500	-	-	-	16.66	D
			1000	-	-	-	33.33	D
			2250	5	1.18	3.6	75	D
			2600	5	1.4	3.6	87	D
7	1.65	S4E08LA4	150	6.5	0.1	4.4	5	D
			500	7	0.37	4.7	16.66	D
			1000	7	0.73	4.7	33.33	D
			2250	7	1.65	4.7	75	D
			2600	7	1.9	4.7	87	D
7	1.65	SPE08MA4	150	5	0.08	3.1	5	D
			500	5.9	0.31	3.7	16.66	D
			1000	7	0.73	4.3	33.33	D
			2250	7	1.65	4.3	75	D
			2600	7	1.9	4.3	87	D
7	1.65	S5EU09SA4	150	7	0.11	3.75	5	D
			500	-	-	-	16.66	D
			1000	-	-	-	33.33	D
			2250	7	1.6	3.75	75	D
			2600	7	1.9	3.75	87	D
10	2.35	SSE08LA4	150	6.5	0.1	4.3	5	D
			500	8	0.42	5.3	16.66	D
			1000	10	1.05	6.6	33.33	D
			2250	10	2.35	6.6	75	D
			2600	10	2.7	6.6	87	D
10	2.35	S5E09SA4	150	8.5	0.13	4.5	5	D
			500	10	0.52	5.3	16.66	D
			1000	10	1.05	5.3	33.33	D
			2250	10	2.35	5.3	75	D
			2600	10	2.7	5.3	87	D
10	2.35	S5EU09XA4	150	10	0.16	5.5	5	D
			500	-	-	-	16.66	D
			1000	-	-	-	33.33	D
			2250	10	2.35	5.5	75	D
			2600	10	2.7	5.5	87	D
13	3	SPE09SA4	150	8.5	0.13	4.5	5	D
			500	10	0.52	5.3	16.66	D
			1000	13	1.36	6.9	33.33	D
			2250	13	3	6.9	75	D
			2600	13	3.5	6.9	87	D

M_n Nm	P_n kW	Type	Speed 1/min	Torque Nm	Power kW	Current A	Frequency Hz	Connection
17.5	4.1	S4E09XA4	150	13	0.2	6.9	5	D
			500	16	0.84	8.4	16.66	D
			1000	17.5	1.83	9.2	33.33	D
			2250	17.5	4.1	9.2	75	D
			2600	17.5	4.8	9.2	87	D

Converter Settings:

Minimum clock frequency:	3 kHz
Short-term current limit:	160 % * $I_{2250/min}$
Maximum overload time:	60 s
Minimum frequency:	5 Hz
Maximum frequency:	120 Hz
Permissible operating time below f_{min}:	60 s (in open loop mode)

All other settings must be selected according the requirements of the drive.
The maximum overload time and the permissible operating time below f_{min} are based on an interval of 10 minutes.

Non-standard operating conditions on request.

All motors: converter supply voltage 380 to 500 V

Motors with rated speed 3000 1/min

M_n	IE	Type	P_n	I_n	2p	n_n	f	η	Connection	R_{20}	R_{s20}	L_d	L_q	ke	kt	$M_{max\ (60s)}$	$I_{max\ (60s)}$	J
Nm	Class		kW	A		1/min	Hz	%		Ω	Ω	mH	mH	V/1000 1/min	Nm/A	Nm	A	kgm²
0.38	5	S5EU04SA4-1	0.12	0.33	4	3000	100	IE5-82.2	Y	70.6	35.3	120	185	80	1.2	1	0.85	0.00014
0.58	5	S5EU04SA4-1	0.18	0.49	4	3000	100	IE5-80	Y	70.6	35.3	120	185	80	1.2	1	0.85	0.00014
0.65	5	S5E04SA4-1	0.2	0.52	4	3000	100	IE5-80.3	Y	70.6	35.3	120	185	80	1.25	1.6	1.3	0.00014
0.65	5	S5EU04SA4-1	0.2	0.54	4	3000	100	IE5-79.1	Y	70.6	35.3	120	185	80	1.2	1	0.85	0.00014
0.8	5	S5E04SA4-1	0.25	0.64	4	3000	100	IE5-78.5	Y	70.6	35.3	120	185	80	1.25	1.6	1.3	0.00014
0.8	5	S5EU06MA4	0.25	0.63	4	3000	100	IE5-87.8	Y	24.6	12.3	52.3	83.3	84	1.3	2.8	2.2	0.0002
1	4	S4E04SA4-1	0.315	0.8	4	3000	100	IE4-74.5	Y	70.6	35.3	120	185	80	1.25	1.6	1.3	0.00014
1.2	5	S5EU06MA4	0.37	0.93	4	3000	100	IE5-86.6	Y	24.6	12.3	52.3	83.3	84	1.3	2.8	2.2	0.0002
1.3	5	S5E06MA4	0.4	1	4	3000	100	IE5-86.2	Y	24.6	12.3	52.3	83.3	84	1.3	3.8	3	0.0002
1.3	5	S5EU06MA4	0.4	1	4	3000	100	IE5-86.3	Y	24.6	12.3	52.3	83.3	84	1.3	2.8	2.2	0.0002
1.75	5	S5E06MA4	0.55	1.35	4	3000	100	IE5-84	Y	24.6	12.3	52.3	83.3	84	1.3	3.8	3	0.0002
1.75	5	S5EU06LA4	0.55	1.45	4	3000	100	IE5-87.9	Y	11.5	5.75	29.4	40.1	80.3	1.2	3.8	3.2	0.000295
2.4	3	SPE06MA4	0.75	1.85	4	3000	100	IE3-78.6	Y	24.6	12.3	52.3	83.3	84	1.3	3.8	3	0.0002
2.4	5	S5E06LA4	0.75	1.9	4	3000	100	IE5-88.3	Y	11.5	5.75	29.4	40.1	80.3	1.25	5.6	4.5	0.000295
3.5	4	S4E06LA4	1.1	2.8	4	3000	100	IE4-84	Y	11.5	5.75	29.4	40.1	80.3	1.25	5.6	4.5	0.000295
3.5	5	S5EU08MA4	1.1	2.55	4	3000	100	IE5-90.8	Y	4.73	2.36	24.7	43.5	90	1.4	10	7.5	0.00115
5	5	S5E08MA4	1.55	3.5	4	3000	100	IE5-91.2	Y	4.73	2.36	24.7	43.5	90	1.45	10	7.5	0.00115
5	5	S5EU08LA4	1.55	3.9	4	3000	100	IE5-88.9	Y	2.82	1.41	16.8	29.6	87	1.3	15	11.2	0.0015
7	5	S5E08LA4	2.2	5.2	4	3000	100	IE5-89.2	Y	2.82	1.41	16.8	29.6	87	1.35	15	11.2	0.0015
7	4	S4E08MA4	2.2	4.8	4	3000	100	IE4-88.8	Y	4.73	2.36	24.7	43.5	90	1.45	10	7.5	0.00115
7	5	S5EU09SA4	2.2	4.45	4	3000	100	IE5-91.9	Y	2.42	1.21	15.5	27.6	103	1.6	20	12.5	0.00245
10	3	SPE08LA4	3.1	7.4	4	3000	100	IE3-86.9	Y	2.82	1.41	16.8	29.6	87	1.35	15	11.2	0.0015
10	5	S5EU09XA4	3.1	6.3	4	3000	100	IE5-92.8	Y	1.31	0.66	12.7	17.9	102	1.6	30	20	0.0038
10	5	S5EU11SA6	3.1	6.6	6	3000	150	IE5-91.5	Y	0.89	0.447	5	7.7	106	1.52	40	25	0.012
13	4	S4E09SA4	4	8	4	3000	100	IE4-89.7	Y	2.42	1.21	15.5	27.6	103	1.63	20	12.5	0.00245
12.75	5	S5EU11SA6	4	8.4	6	3000	150	IE5-91.9	Y	0.89	0.447	5	7.7	106	1.52	40	25	0.012
13	5	S5EU11MA6	4	8.6	6	3000	150	IE5-92.5	Y	0.43	0.217	3	4.6	104	1.52	55	35	0.0175
17.5	5	S5E09XA4	5.5	10.5	4	3000	100	IE5-92.5	Y	1.31	0.66	12.7	17.9	102	1.67	30	20	0.0038
17.5	4	S4E11SA6	5.5	11	6	3000	150	IE4-91.2	Y	0.89	0.447	5	7.7	106	1.55	40	25	0.012
17.5	5	S5EU11LA6	5.5	11.5	6	3000	150	IE5-91.9	Y	0.3	0.15	2.4	3.5	105	1.52	75	48	0.0215
17.5	5	S5EU11MA6	5.5	11.5	6	3000	150	IE5-93.3	Y	0.43	0.217	3	4.6	104	1.52	55	35	0.0175
20	5	S5E09XA4	6.3	12	4	3000	100	IE5-92	Y	1.31	0.66	12.7	17.9	102	1.67	30	20	0.0038
24	5	S5E11MA6	7.5	15.4	6	3000	150	IE5-93.2	Y	0.43	0.217	3	4.6	104	1.55	55	35	0.0175
24	4	S4E11SA6	7.5	15.2	6	3000	150	IE4-90.8	Y	0.89	0.447	5	7.7	106	1.55	40	25	0.012
23.9	5	S5EU11LA6	7.5	15.7	6	3000	150	IE5-93.3	Y	0.3	0.15	2.4	3.5	105	1.52	75	48	0.0215
30	5	S5E11LA6	9.5	18.5	6	3000	150	IE5-93.8	Y	0.3	0.15	2.4	3.5	105	1.6	75	48	0.0215
30	5	S5E11MA6	9.5	19.3	6	3000	150	IE5-93.2	Y	0.43	0.217	3	4.6	104	1.55	55	35	0.0175
35	5	S5E11LA6	11	21.5	6	3000	150	IE5-94.1	Y	0.3	0.15	2.4	3.5	105	1.6	75	48	0.0215
35	4	S4E11MA6	11	22.5	6	3000	150	IE4-93.1	Y	0.43	0.217	3	4.6	104	1.55	55	35	0.0175
48	5	S5E11LA6	15	30	6	3000	150	IE5-93.8	Y	0.3	0.15	2.4	3.5	105	1.6	75	48	0.0215

M_n	Rated torque
P_n	Rated power
I_n	Rated current
2p	No. of Motor Poles
n_n	Rated speed
f	Nominal Frequency
η	Motor efficiency
R_{20}	Phase Resistance U-V
R_{s20}	Winding Resistance
L_d	Inductance D-Axis
L_q	Inductance Q-Axis
ke	Voltage constant
kt	Torque constant
$M_{max\ (60s)}$	Peak Torque
$I_{max\ (60s)}$	Peak Current
J	Moment of inertia

All motors: converter supply voltage 380 to 500 V

Rated speed 3000 1/min

Rated speed 3000 1/min																					
													Power losses in % at operating points (Speed/Torque)								
													25/25	25/100	50/25	50/50	50/100	90/50	90/100
Rated speed 3000 1/min												Operating conditions									
												Type of motor									
										n_N	1/min										
									Voltage	V											
								Frequency	Hz												
							P	kW													
						M_n	Nm														
					Number of poles																
				Type																	
			Manufacturer data																		
		IE																			
	η (50 %-Load)	%																			
	η (75 %-Load)	%																			
	η (100 % -Load)	%																			
	82.2	n.A	5	1)	S5EU04SA4-1	4	0.38	0.12	100	380	3000	2)	3)	3.5	12.5	6.0	7.9	15.1	12.1	19.5
	80	n.A	5	1)	S5EU04SA4-1	4	0.58	0.18	100	380	3000	2)	3)	3.0	18.0	4.5	7.8	19.8	10.9	22.8
	80.3	n.A	5	1)	S5E04SA4-1	4	0.65	0.2	100	380	3000	2)	3)	2.9	17.7	4.5	7.7	19.5	11.0	22.6
	79.1	n.A	5	1)	S5EU04SA4-1	4	0.65	0.2	100	380	3000	2)	3)	2.8	20.1	4.1	7.8	21.8	10.3	24.3
	78.5	n.A	5	1)	S5E04SA4-1	4	0.8	0.25	100	380	3000	2)	3)	2.6	20.7	3.9	7.6	22.3	10.5	24.8
	87.8	n.A	5	1)	S5EU06MA4	4	0.8	0.25	100	380	3000	2)	3)	2.1	7.8	3.8	5.0	9.5	8.2	12.6
	74.5	n.A	4	1)	S4E04SA4-1	4	1	0.315	100	380	3000	2)	3)	2.8	27.2	3.8	8.9	28.5	11.7	30.9
	86.6	n.A	5	1)	S5EU06MA4	4	1.2	0.37	100	380	3000	2)	3)	1.8	11.0	3.0	4.8	12.1	7.1	14.2
	86.2	n.A	5	1)	S5E06MA4	4	1.3	0.4	100	380	3000	2)	3)	1.7	10.5	3.0	4.9	11.8	7.9	14.7
	86.3	n.A	5	1)	S5EU06MA4	4	1.3	0.4	100	380	3000	2)	3)	1.7	11.6	2.7	4.7	12.7	6.6	14.6
	84	n.A	5	1)	S5E06MA4	4	1.75	0.55	100	380	3000	2)	3)	1.6	14.0	2.5	5.0	15.0	7.3	17.2
	87.9	n.A	5	1)	S5EU06LA4	4	1.75	0.55	100	380	3000	2)	3)	1.8	8.8	3.0	4.5	10.2	6.7	12.5
	78.6	n.A	3	1)	SPE06MA4	4	2.4	0.75	100	380	3000	2)	3)	1.8	22.3	2.6	6.5	22.9	8.3	24.7
	88.3	n.A	5	1)	S5E06LA4	4	2.4	0.75	100	380	3000	2)	3)	1.2	9.6	1.8	3.4	10.2	5.1	11.9
	84	n.A	4	1)	S4E06LA4	4	3.5	1.1	100	380	3000	2)	3)	1.3	15.3	1.9	4.4	16.0	5.7	17.2
	90.8	n.A	5	1)	S5EU08MA4	4	3.5	1.1	100	380	3000	2)	3)	1.5	6.2	2.4	3.4	7.2	5.3	9.1
	91.2	n.A	5	1)	S5E08MA4	4	5	1.55	100	380	3000	2)	3)	0.9	6.7	1.4	2.6	7.3	4.1	8.8
	88.9	n.A	5	1)	S5EU08LA4	4	5	1.55	100	380	3000	2)	3)	1.9	7.0	3.3	4.5	8.7	7.1	11.5
	89.2	n.A	5	1)	S5E08LA4	4	7	2.2	100	380	3000	2)	3)	1.4	7.2	2.5	3.8	8.5	6.0	10.9
	88.8	n.A	4	1)	S4E08MA4	4	7	2.2	100	380	3000	2)	3)	0.9	9.7	1.3	3.1	10.2	4.1	11.3
	91.9	n.A	5	1)	S5EU09SA4	4	7	2.2	100	380	3000	2)	3)	1.1	5.2	2.1	3.0	6.2	4.6	7.9
	86.9	n.A	3	1)	SPE08LA4	4	10	3.1	100	380	3000	2)	3)	1.5	10.7	2.4	4.4	11.8	6.3	13.8
	92.8	n.A	5	1)	S5EU09XA4	4	10	3.1	100	380	3000	2)	3)	1.3	4.2	2.2	2.8	5.3	4.7	7.1
	91.5	n.A	5	1)	S5EU11SA6	6	10	3.1	150	380	3000	2)	3)	1.4	3.7	3.0	3.5	5.4	6.6	8.5
	89.7	n.A	4	1)	S4E09SA4	4	13	4	100	380	3000	2)	3)	1.1	8.0	1.8	3.2	8.9	4.8	10.6
	91.9	n.A	5	1)	S5EU11SA6	6	12.75	4	150	380	3000	2)	3)	1.2	4.2	2.4	3.1	5.6	5.5	8.0
	92.5	n.A	5	1)	S5EU11MA6	6	13	4	150	380	3000	2)	3)	1.5	2.8	3.2	3.3	4.5	6.3	7.5
	92.5	n.A	5	1)	S5E09XA4	4	17.5	5.5	100	380	3000	2)	3)	0.8	5.1	1.5	2.4	5.9	4.0	7.3
	91.2	n.A	4	1)	S4E11SA6	6	17.5	5.5	150	380	3000	2)	3)	1.0	4.4	2.2	3.0	5.7	5.9	8.7
	91.9	n.A	5	1)	S5EU11LA6	6	17.5	5.5	150	380	3000	2)	3)	1.3	2.3	3.0	3.1	4.0	7.1	7.9
	93.3	n.A	5	1)	S5EU11MA6	6	17.5	5.5	150	380	3000	2)	3)	1.1	3.0	2.3	2.6	4.2	4.7	6.5
	92	n.A	5	1)	S5E09XA4	4	20	6.3	100	380	3000	2)	3)	0.8	5.9	1.4	2.4	6.5	3.7	7.8
	93.2	n.A	5	1)	S5E11MA6	6	24	7.5	150	380	3000	2)	3)	0.9	2.9	1.9	2.4	4.1	4.8	6.6
	90.8	n.A	4	1)	S4E11SA6	6	24	8	150	380	3000	2)	3)	0.9	5.9	1.8	2.8	7.0	5.0	9.2
	93.3	n.A	5	1)	S5EU11LA6	6	24	8	150	380	3000	2)	3)	1.0	2.3	2.2	2.5	3.6	5.3	6.5
	93.8	n.A	5	1)	S5E11LA6	6	30	10	150	380	3000	2)	3)	0.8	2.5	1.7	2.2	3.5	4.4	5.9
	93.2	n.A	5	1)	S5E11MA6	6	30	10	150	380	3000	2)	3)	0.8	3.4	1.6	2.2	4.4	4.2	6.6

Rated speed 3000 1/min

Rated speed 3000 1/min																						
η (100 % -Load)	%	η (75 %-Load)	%	η (50 %-Load)	%	IE Class		Manufacturer data		Type		Number of poles		M_n	Nm	P	kW	Frequency	Hz	Voltage	V	nN	1/min	Type of motor		Operating conditions		Power losses in % at operating points (Speed/Torque)	25/25	25/100	50/25	50/50	50/100	90/50	90/100
94.1		n.A		n.A		5		1)		S5E11LA6		6		35		11		150		380		3000		2)		3)		0.7	2.8	1.6	2.0	3.7	3.9	5.7
93.1		n.A		n.A		4		1)		S4E11MA6		6		35		11		150		380		3000		2)		3)		0.7	3.9	1.5	2.1	4.8	3.9	6.7
93.8		n.A		n.A		5		1)		S5E11LA6		6		48		15		150		380		3000		2)		3)		0.7	3.6	1.3	1.9	4.4	3.3	6.0

*Dimensioned according to IEC TS 60034-30-2

1) Manufacturer: Bauer Gear Motor GmbH
Commercial register number: HRB 736269
Address: Eberhard-Bauer-Str. 37, 73734 Esslingen / Germany

2) Type of motor: Three-phase permanent magnet excited synchronous motor

3) Installation altitude above sea level (m): 1000
Ambient temperature: -20 °C to +40 °C

Motors

Technical data

The figures given in the table below are for Bauer motors operating in conjunction with the frequency inverter. The torques referred to in tables can be entered for the respective frequencies in continuous operation (S1 = duty factor 100 %).

Motor torques in the adjusting range 150 1/min - 3600 1/min. duty type S1

M_n Nm	P_n kW	Type	Speed 1/min	Torque Nm	Power kW	Current A	Frequency Hz	Connection
0.38	0.12	S5EU04SA4-1	150	0.38	0.006	0.33	5	Y
			500	0.38	0.02	0.33	16.67	Y
			1000	0.38	0.04	0.33	33.33	Y
			3000	0.38	0.12	0.33	100	Y
			3600	0.38	0.14	0.33	120	Y
0.58	0.18	S5EU04SA4-1	150	0.58	0.009	0.49	5	Y
			500	0.58	0.03	0.49	16.67	Y
			1000	0.58	0.06	0.49	33.33	Y
			3000	0.58	0.18	0.49	100	Y
			3600	0.58	0.22	0.49	120	Y
0.65	0.2	S5E04SA4-1	150	0.65	0.01	0.52	5	Y
			500	0.65	0.034	0.52	16.67	Y
			1000	0.65	0.068	0.52	33.33	Y
			3000	0.65	0.2	0.52	100	Y
			3600	0.65	0.245	0.52	120	Y
0.65	0.2	S5EU04SA4-1	150	0.65	0.01	0.54	5	Y
			500	0.65	0.034	0.54	16.67	Y
			1000	0.65	0.068	0.54	33.33	Y
			3000	0.65	0.2	0.54	100	Y
			3600	0.65	0.245	0.54	120	Y
0.8	0.25	S5E04SA4-1	150	0.76	0.012	0.61	5	Y
			500	0.8	0.042	0.64	16.67	Y
			1000	0.8	0.084	0.64	33.33	Y
			3000	0.8	0.25	0.64	100	Y
			3600	0.8	0.3	0.64	120	Y
0.8	0.25	S5EU06MA4	150	0.8	0.013	0.63	5	Y
			500	0.8	0.042	0.63	16.67	Y
			1000	0.8	0.084	0.63	33.33	Y
			3000	0.8	0.25	0.63	100	Y
			3600	0.8	0.3	0.63	120	Y
1	0.315	S4E04SA4-1	150	0.76	0.012	0.61	5	Y
			500	0.85	0.045	0.68	16.67	Y
			1000	1	0.105	0.8	33.33	Y
			3000	1	0.315	0.8	100	Y
			3600	1	0.38	0.8	120	Y
1.2	0.37	S5EU06MA4	150	1.2	0.019	0.93	5	Y
			500	1.2	0.063	0.93	16.67	Y
			1000	1.2	0.126	0.93	33.33	Y
			3000	1.2	0.37	0.93	100	Y
			3600	1.2	0.45	0.93	120	Y
1.3	0.4	S5E06MA4	150	1.3	0.02	1	5	Y
			500	1.3	0.068	1	16.67	Y
			1000	1.3	0.136	1	33.33	Y
			3000	1.3	0.4	1	100	Y
			3600	1.3	0.5	1	120	Y
1.3	0.4	S5EU06MA4	150	1.3	0.02	1	5	Y
			500	1.3	0.068	1	16.67	Y
			1000	1.3	0.136	1	33.33	Y
			3000	1.3	0.4	1	100	Y
			3600	1.3	0.5	1	120	Y

M_n Nm	P_n kW	Type	Speed 1/min	Torque Nm	Power kW	Current A	Frequency Hz	Connection
1.75	0.55	S5E06MA4	150	1.75	0.027	1.35	5	Y
			500	1.75	0.092	1.35	16.67	Y
			1000	1.75	0.183	1.35	33.33	Y
			3000	1.75	0.55	1.35	100	Y
			3600	1.75	0.66	1.35	120	Y
1.75	0.55	S5EU06LA4	150	1.75	0.027	1.45	5	Y
			500	1.75	0.092	1.45	16.67	Y
			1000	1.75	0.183	1.45	33.33	Y
			3000	1.75	0.55	1.45	100	Y
			3600	1.75	0.66	1.45	120	Y
2.4	0.75	SPE06MA4	150	1.8	0.028	1.38	5	Y
			500	2	0.105	1.51	16.67	Y
			1000	2.2	0.23	1.68	33.33	Y
			3000	2.4	0.75	1.85	100	Y
			3600	2.4	0.9	1.85	120	Y
2.4	0.75	S5E06LA4	150	2.4	0.038	1.9	5	Y
			500	2.4	0.126	1.9	16.67	Y
			1000	2.4	0.25	1.9	33.33	Y
			3000	2.4	0.75	1.9	100	Y
			3600	2.4	0.9	1.9	120	Y
3.5	1.1	S4E06LA4	150	2.5	0.04	2	5	Y
			500	2.9	0.15	2.3	16.67	Y
			1000	3.5	0.37	2.8	33.33	Y
			3000	3.5	1.1	2.8	100	Y
			3600	3.5	1.3	2.8	120	Y
3.5	1.1	S5EU08MA4	150	3.5	0.06	2.55	5	Y
			500	-	-	-	16.67	Y
			1000	-	-	-	33.33	Y
			3000	3.5	1.1	2.55	100	Y
			3600	3.5	1.3	2.55	120	Y
5	1.55	S5E08MA4	150	5	0.08	3.5	5	Y
			500	5	0.26	3.5	16.67	Y
			1000	5	0.52	3.5	33.33	Y
			3000	5	1.55	3.5	100	Y
			3600	5	1.9	3.5	120	Y
5	1.55	S5EU08LA4	150	5	0.08	3.9	5	Y
			500	-	-	-	16.67	Y
			1000	-	-	-	33.33	Y
			3000	5	1.55	3.9	100	Y
			3600	5	1.9	3.9	120	Y
7	2.2	S5E08LA4	150	6.5	0.1	4.8	5	Y
			500	7	0.37	5.2	16.67	Y
			1000	7	0.73	5.2	33.33	Y
			3000	7	2.2	5.2	100	Y
			3600	7	2.6	5.2	120	Y
7	2.2	S4E08MA4	150	5	0.08	3.5	5	Y
			500	5.9	0.31	4.1	16.67	Y
			1000	7	0.73	4.8	33.33	Y
			3000	7	2.2	4.8	100	Y
			3600	7	2.6	4.8	120	Y
7	2.2	S5EU09SA4	150	7	0.11	4.45	5	Y
			500	-	-	-	16.67	Y
			1000	-	-	-	33.33	Y
			3000	7	2.2	4.45	100	Y
			3600	7	2.6	4.45	120	Y

M_n Nm	P_n kW	Type	Speed 1/min	Torque Nm	Power kW	Current A	Frequency Hz	Connection
10	3.1	SPE08LA4	150	6.5	0.1	4.8	5	Y
			500	8	0.42	5.9	16.67	Y
			1000	10	1.05	7.4	33.33	Y
			3000	10	3.1	7.4	100	Y
			3600	10	3.8	7.4	120	Y
10	3.1	S5EU09XA4	150	10	0.16	6.3	5	Y
			500	-	-	-	16.67	Y
			1000	-	-	-	33.33	Y
			3000	10	3.1	6.3	100	Y
			3600	10	3.8	6.3	120	Y
10	3.1	S5EU11SA6	150	10	0.16	6.6	7.5	Y
			500	-	-	-	25	Y
			1000	-	-	-	50	Y
			3000	10	3.1	6.6	150	Y
			3600	10	3.8	6.6	180	Y
13	4	S4E09SA4	150	8.5	0.13	5.3	5	Y
			500	10	0.52	6.2	16.67	Y
			1000	13	1.36	8	33.33	Y
			3000	13	4	8	100	Y
			3600	13	4.9	8.7	120	Y
12.75	4	S5EU11SA6	150	12.75	0.2	8.4	7.5	Y
			500	-	-	-	25	Y
			1000	-	-	-	50	Y
			3000	12.75	4	8.4	150	Y
			3600	12.75	4.8	8.4	180	Y
13	4	S5EU11MA6	150	13	0.2	8.6	7.5	Y
			500	-	-	-	25	Y
			1000	-	-	-	50	Y
			3000	13	4	8.6	150	Y
			3600	13	4.9	8.6	180	Y
17.5	5.5	S5E09XA4	150	13	0.2	7.8	5	Y
			500	16	0.84	9.6	16.67	Y
			1000	17.5	1.83	10.5	33.33	Y
			3000	17.5	5.5	10.5	100	Y
			3600	17.5	6.6	11.1	120	Y
17.5	5.5	S4E11SA6	150	17.5	0.27	11	7.5	Y
			500	17.5	0.9	11	25	Y
			1000	17.5	1.8	11	50	Y
			3000	17.5	5.5	11	150	Y
			3600	17.5	6.6	11	180	Y
17.5	5.5	S5EU11MA6	150	17.5	0.27	11.5	7.5	Y
			500	-	-	-	25	Y
			1000	-	-	-	50	Y
			3000	17.5	5.5	11.5	150	Y
			3600	17.5	6.6	11.5	180	Y
17.5	5.5	S5EU11LA6	150	17.5	0.27	11.5	7.5	Y
			500	-	-	-	25	Y
			1000	-	-	-	50	Y
			3000	17.5	5.5	11.5	150	Y
			3600	17.5	6.6	11.5	180	Y
20	6.3	S5E09XA4	150	13	0.2	7.8	5	Y
			500	16	0.84	9.6	16.67	Y
			1000	20	2.1	12	33.33	Y
			3000	20	6.3	12	100	Y
			3600	17.5	6.6	11.1	120	Y

M_n Nm	P_n kW	Type	Speed 1/min	Torque Nm	Power kW	Current A	Frequency Hz	Connection
24	7.5	S4E11SA6	150	19	0.3	12	7.5	Y
			500	21.5	1.1	13.6	25	Y
			1000	24	2.5	15.2	50	Y
			3000	24	7.5	15.2	150	Y
			3600	24	9	15.2	180	Y
24	7.5	S5E11MA6	150	24	0.38	15.4	7.5	Y
			500	24	1.3	15.4	25	Y
			1000	24	2.5	15.4	50	Y
			3000	24	7.5	15.4	150	Y
			3600	24	9	15.4	180	Y
23.9	7.5	S5EU11LA6	150	23.9	0.38	15.7	7.5	Y
			500	-	-	-	25	Y
			1000	-	-	-	50	Y
			3000	23.9	7.5	15.7	150	Y
			3600	23.9	9	15.7	180	Y
30	9.5	S5E11MA6	150	26.5	0.42	17	7.5	Y
			500	30	1.6	19.3	25	Y
			1000	30	3.1	19.3	50	Y
			3000	30	9.5	19.3	150	Y
			3600	30	11	19.3	180	Y
30	9.5	S5E11LA6	150	30	0.47	18.5	7.5	Y
			500	30	1.6	18.5	25	Y
			1000	30	3.1	18.5	50	Y
			3000	30	9.5	18.5	150	Y
			3600	30	11	18.5	180	Y
35	11	S4E11MA6	150	26.5	0.42	17	7.5	Y
			500	30	1.6	19.3	25	Y
			1000	35	3.7	22.5	50	Y
			3000	35	11	22.5	150	Y
			3600	35	13	22.5	180	Y
35	11	S5E11LA6	150	35	0.55	21.5	7.5	Y
			500	35	1.8	21.5	25	Y
			1000	35	3.7	21.5	50	Y
			3000	35	11	21.5	150	Y
			3600	35	13	21.5	180	Y
48	15	S5E11LA6	150	35	0.55	21.5	7.5	Y
			500	40	2.1	25	25	Y
			1000	48	5	30	50	Y
			3000	48	15	30	150	Y
			3600	40	15	25.8	180	Y

Converter Settings:

Minimum clock frequency:	3 kHz
Short-term current limit:	160 % * $I_{3000/min}$
Maximum overload time:	60 s
Minimum frequency:	5 Hz
Maximum frequency:	120 Hz
Permissible operating time below f_{min}:	60 s (in open loop mode)

All other settings must be selected according the requirements of the drive.
The maximum overload time and the permissible operating time below f_{min} are based on an interval of 10 minutes.

Non-standard operating conditions on request.

All motors: converter supply voltage 380 to 500 V

Aseptic-Motors

Aseptic motors with rated speed 1500 1/min

M_n Nm	IE Classe	Type	P_n kW	I_n A	2p	n_n 1/min	f Hz	η %	Connec-tion	R_{20} Ω	Rs_{20} Ω	L_d mH	L_q mH	ke V/1000 1/min	kt Nm/A	$M_{max\ (60s)}$ Nm	$I_{max\ (60s)}$ A	J kgm^2
3.5	5	SA5E08MB4	0.55	1.3	4	1500	50	IE5-86.5	Y	18.7	9.35	97	170	180	2.7	10	3.7	0.00115
5	5	SA5E08LB4	0.78	1.85	4	1500	50	IE5-88.4	Y	11	5.5	70	117	171	2.7	15	5.6	0.0015
7	5	SA5E09SB4	1.1	2.2	4	1500	50	IE5-89.2	Y	9.9	4.95	64.1	110	208	3.2	20	6.4	0.00245
10	5	SA5E09XB4	1.55	3.1	4	1500	50	IE5-91	Y	5.25	2.63	41.2	70.1	209	3.2	30	10	0.0038

Aseptic motors torques in the adjusting range 150 1/min - 1800 1/min. duty type S1

M_n Nm	P_n kW	Type	Speed 1/min	Torque Nm	Power kW	Current A	Frequency Hz	Connection
3.5	0.55	SA5E08MB4	150	3.5	0.06	1.3	5	Y
			1500	3.5	0.55	1.3	50	Y
			1800	3.5	0.66	1.3	60	Y
5	0.78	SA5E08LB4	150	5	0.08	1.85	5	Y
			1500	5	0.78	1.85	50	Y
			1800	5	0.94	1.85	60	Y
7	1.1	SA5E09SB4	150	7	0.11	2.2	5	Y
			1500	7	1.1	2.2	50	Y
			1800	7	1.3	2.2	60	Y
10	1.55	SA5E09XB4	150	10	0.16	3.1	5	Y
			1500	10	1.55	3.1	50	Y
			1800	10	1.9	3.1	60	Y

Converter Settings:

Minimum clock frequency:	3 kHz
Short-term current limit:	160 % * $I_{1500/min}$
Maximum overload time:	60 s
Minimum frequency:	5 Hz
Maximum frequency:	60 Hz
Permissible operating time below f_{min}:	60 s (in open loop mode)

All other settings must be selected according the requirements of the drive.
The maximum overload time and the permissible operating time below f_{min} are based on an interval of 10 minutes.

Non-standard operating conditions on request.

All motors: converter supply voltage 380 to 500 V

Aseptic motors with rated speed 1500 1/min

Aseptic motors with rated speed 1500 1/min																				
														Power losses in % at operating points (Speed/Torque)						
η (100 % -Load)	%	η (75 %-Load)	%	η (50 %-Load)	%	IE Class	Manufacturer data	Type	Number of poles	M_n	Nm	P	kW	Frequency	Hz	Voltage	V	n_N	1/min	Type of motor	Operating conditions	25/25	25/100	50/25	50/50	50/100	90/50	90/100
86.5		n.A		n.A		5	1)	SA5E08MB4	4	3.5		0.55		50		380		1500		2)	3)	1.3	11.2	2.0	4.2	12.0	5.9	14.0
88.4		n.A		n.A		5	1)	SA5E08LB4	4	5		0.78		50		380		1500		2)	3)	1.4	9.5	2.3	4.0	10.5	5.8	11.9
89.2		n.A		n.A		5	1)	SA5E09SB4	4	7		1.1		50		380		1500		2)	3)	1.6	8.0	2.5	3.5	9.0	5.2	10.9
91		n.A		n.A		5	1)	SA5E09XB4	4	10		1.55		50		380		1500		2)	3)	1.1	6.6	2.0	3.1	7.6	4.6	9.0

*Dimensioned according to IEC TS 60034-30-2

1) Manufacturer: Bauer Gear Motor GmbH
Commercial register number: HRB 736269
Address: Eberhard-Bauer-Str. 37, 73734 Esslingen / Germany

2) Type of motor: Three-phase permanent magnet excited synchronous motor

3) Installation altitude above sea level (m): 1000
Ambient temperature: -20 °C to +40 °C

Aseptic motors with rated speed 3000 1/min

M_n	IE	Type	P_n	I_n	2p	n_n	f	η	Connec-	R_{20}	Rs_{20}	L_d	L_q	ke	kt	$M_{max\ (60s)}$	$I_{max\ (60s)}$	J
Nm	Classe		kW	A		1/min	Hz	%	tion	Ω	Ω	mH	mH	V/1000 1/min	Nm/A	Nm	A	kgm^2
2.5	5	SA5E08MB4	0.78	1.85	4	3000	100	IE5-90.2	Y	4.73	2.36	24.7	43.5	90	1.35	10	7.5	0.00115
3.5	5	SA5E08LB4	1.1	2.6	4	3000	100	IE5-92.3	Y	2.82	1.41	16.8	29.6	87	1.35	15	11.5	0.0015
4.8	5	SA5E08LB4	1.5	3.55	4	3000	100	IE5-91.8	Y	2.82	1.41	16.8	29.6	87	1.35	15	11.5	0.0015
5	5	SA5E09SB4	1.55	3.3	4	3000	100	IE5-90.7	Y	2.42	1.21	15.5	27.6	103	1.5	20	12.5	0.00245
7	5	SA5E09XB4	2.2	4.5	4	3000	100	IE5-92.9	Y	1.31	0.66	12.7	17.9	102	1.56	30	20	0.0038
9.55	5	SA5E09XB4	3	6.1	4	3000	100	IE5-92.5	Y	1.31	0.66	12.7	17.9	102	1.56	30	20	0.0038

Aseptic motor torques in the adjusting range 150 1/min - 3600 1/min. duty type S1

M_n	P_n	Type	Speed	Torque	Power	Current	Frequency	Connection
Nm	kW		1/min	Nm	kW	A	Hz	
2.5	0.78	SA5E08MB4	150	2.5	0.04	1.85	5	Y
			3000	2.5	0.78	1.85	100	Y
			3600	2.5	0.94	1.85	120	Y
3.5	1.1	SA5E08LB4	150	3.5	0.06	2.6	5	Y
			3000	3.5	1.1	2.6	100	Y
			3600	3.5	1.3	2.6	120	Y
4.8	1.5	SA5E08LB4	150	4.8	0.08	3.55	5	Y
			3000	4.8	1.5	3.55	100	Y
			3600	3.5	1.3	2.6	120	Y
5	1.55	SA5E09SB4	150	5	0.08	3.3	5	Y
			3000	5	1.55	3.3	100	Y
			3600	5	1.9	3.3	120	Y
7	2.2	SA5E09XB4	150	7	0.11	4.5	5	Y
			3000	7	2.2	4.5	100	Y
			3600	7	2.6	4.5	120	Y
9.55	3	SA5E09XB4	150	9.55	0.15	6.1	5	Y
			3000	9.55	3	6.1	100	Y
			3600	-	-	-	120	Y

Converter Settings:

Minimum clock frequency:	3 kHz
Short-term current limit:	160 % * $I_{3000/min}$
Maximum overload time:	60 s
Minimum frequency:	5 Hz
Maximum frequency:	120 Hz
Permissible operating time below f_{min}:	60 s (in open loop mode)

All other settings must be selected according the requirements of the drive.
The maximum overload time and the permissible operating time below f_{min} are based on an interval of 10 minutes.

Non-standard operating conditions on request.

All motors: converter supply voltage 380 to 500 V

Aseptic motors with rated speed 3000 1/min

Aseptic motors with rated speed 3000 1/min																				
													Power losses in % at operating points (Speed/Torque)							
η (100 % -Load)	%	η (75 %-Load)	%	η (50 %-Load)	%	IE Class	Manufacturer data	Type	Number of poles	M_n	Nm	P	kW	Frequency	Hz	Voltage	V	n_N	1/min	Type of motor	Operating conditions	25/25	25/100	50/25	50/50	50/100	90/50	90/100
90.2		n.A		n.A		5	1)	SA5E08MB4	4	2.5		0.78		100		380		3000		2)	3)	1.7	5.2	3.2	4.1	6.9	6.9	9.9
92.3		n.A		n.A		5	1)	SA5E08LB4	4	3.5		1.1		100		380		3000		2)	3)	1.2	4.3	2.4	3.0	5.4	5.0	7.6
91.8		n.A		n.A		5	1)	SA5E08LB4	4	4.8		1.5		100		380		3000		2)	3)	1.0	5.5	2.0	2.9	6.4	4.6	8.1
90.7		n.A		n.A		5	1)	SA5E09SB4	4	5		1.55		100		380		3000		2)	3)	1.7	4.6	3.2	4.0	6.4	7.2	9.4
92.9		n.A		n.A		5	1)	SA5E09XB4	4	7		2.2		100		380		3000		2)	3)	1.2	3.4	2.4	2.8	4.6	5.0	6.8
92.5		n.A		n.A		5	1)	SA5E09XB4	4	9.55		3		100		380		3000		2)	3)	1.0	4.3	1.9	2.7	5.4	4.7	7.3

*Dimensioned according to IEC TS 60034-30-2

1) Manufacturer: Bauer Gear Motor GmbH
Commercial register number: HRB 736269
Address: Eberhard-Bauer-Str. 37, 73734 Esslingen / Germany

2) Type of motor: Three-phase permanent magnet excited synchronous motor

3) Installation altitude above sea level (m): 1000
Ambient temperature: -20 °C to +40 °C

Motors

Technical data

Stainless Steel Motors

Stainless steel motors with rated speed 1500 1/min

M_n Nm	IE Classe	Type	P_n kW	I_n A	2p	n_n 1/min	f Hz	η %	Connec-tion	R_{20} Ω	Rs_{20} Ω	L_d mH	L_q mH	ke V/1000 1/min	kt Nm/A	$M_{max\ (60s)}$ Nm	$I_{max\ (60s)}$ A	J kgm^2
1.6	5	SA5E08MA4	0.25	0.56	4	1500	50	IE5-88.2	Y	18.7	9.35	97	170	180	2.8	5.6	2.1	0.00115
2.4	5	SA5E08MA4	0.37	0.86	4	1500	50	IE5-88	Y	18.7	9.35	97	170	180	2.8	5.6	2.1	0.00115
2.4	5	SA5E09SA4	0.37	0.75	4	1500	50	IE5-89.2	Y	9.9	4.95	64.1	110	208	3.2	7.7	2.4	0.00245
3.5	5	SA5E08MA4	0.55	1.3	4	1500	50	IE5-85.5	Y	18.7	9.35	97	170	180	2.7	5.6	2.1	0.00115
3.5	5	SA5E09SA4	0.55	1.1	4	1500	50	IE5-90.3	Y	9.9	4.95	64.1	110	208	3.2	7.7	2.4	0.00245
3.5	5	SA5E09XA4	0.55	1.1	4	1500	50	IE5-89.9	Y	5.25	2.63	41.2	70.1	209	3.2	11.2	3.7	0.0038
4.8	5	SA5E09SA4	0.75	1.5	4	1500	50	IE5-90.5	Y	9.9	4.95	64.1	110	208	3.2	7.7	2.4	0.00245
4.8	5	SA5E09XA4	0.75	1.6	4	1500	50	IE5-91.2	Y	5.25	2.63	41.2	70.1	209	3	11.2	3.7	0.0038
7	5	SA5E09XA4	1.1	2.3	4	1500	50	IE5-91.4	Y	5.25	2.63	41.2	70.1	209	3	11.2	3.7	0.0038

Stainless steel motors torques in the adjusting range 150 1/min - 1800 1/min. duty type S1

M_n Nm	P_n kW	Type	Speed 1/min	Torque Nm	Power kW	Current A	Frequency Hz	Connection
1.6	0.25	SA5E08MA4	150	1.6	0.025	0.56	5	Y
			1500	1.6	0.25	0.56	50	Y
			1800	1.6	0.3	0.56	60	Y
2.4	0.37	SA5E08MA4	150	2.4	0.037	0.86	5	Y
			1500	2.4	0.37	0.86	50	Y
			1800	2.4	0.45	0.86	60	Y
2.4	0.37	SA5E09SA4	150	2.4	0.037	0.75	5	Y
			1500	2.4	0.37	0.75	50	Y
			1800	2.4	0.45	0.75	60	Y
3.5	0.55	SA5E08MA4	150	3.5	0.055	1.3	5	Y
			1500	3.5	0.55	1.3	50	Y
			1800	3.5	0.66	1.3	60	Y
3.5	0.55	SA5E09SA4	150	3.5	0.055	1.1	5	Y
			1500	3.5	0.55	1.1	50	Y
			1800	3.5	0.66	1.1	60	Y
3.5	0.55	SA5E09XA4	150	3.5	0.055	3.5	5	Y
			1500	3.5	0.55	3.5	50	Y
			1800	3.5	0.66	3.5	60	Y
4.8	0.75	SA5E09SA4	150	4.8	0.075	1.5	5	Y
			1500	4.8	0.75	1.5	50	Y
			1800	4.8	0.9	1.5	60	Y
4.8	0.75	SA5E09XA4	150	4.8	0.075	1.6	5	Y
			1500	4.8	0.75	1.6	50	Y
			1800	4.8	0.9	1.6	60	Y
7	1.1	SA5E09XA4	150	7	0.11	2.3	5	Y
			1500	7	1.1	2.3	50	Y
			1800	7	1.32	2.3	60	Y

Converter Settings:

Minimum clock frequency:	3 kHz
Short-term current limit:	160 % * $I_{1500/min}$
Maximum overload time:	60 s
Minimum frequency:	5 Hz
Maximum frequency:	60 Hz
Permissible operating time below f_{min}:	60 s (in open loop mode)

All other settings must be selected according the requirements of the drive.
The maximum overload time and the permissible operating time below f_{min} are based on an interval of 10 minutes.

Non-standard operating conditions on request.

All motors: converter supply voltage 380 to 500 V

Stainless steel motors with rated speed 1500 1/min

Stainless steel motors with rated speed 1500 1/min																				
				Type								Power losses in % at operating points (Speed/Torque)								
			Manufacturer data		Number of poles	M_n	P	Frequency	Voltage	n_N	Type of motor	Operating conditions	25/25	25/100	50/25	50/50	50/100	90/50	90/100
η (100 % -Load)	%	η (75 %-Load) %	η (50 %-Load) %	IE ClassKlasse			Nm	kW	Hz	V	1/min									
88.2		n.A	n.A	5	1)	SA5E08MA4	4	1.6	0.25	50	380	1500	2)	3)	1.7	6.1	3.0	4.2	7.9	8.7	12.1
88		n.A	n.A	5	1)	SA5E08MA4	4	2.4	0.37	50	380	1500	2)	3)	1.4	8.3	2.3	3.9	9.5	7.2	12.5
89.2		n.A	n.A	5	1)	SA5E09SA4	4	2.4	0.37	50	380	1500	2)	3)	2.0	4.3	4.0	4.3	6.4	9.4	11.1
85.5		n.A	n.A	5	1)	SA5E08MA4	4	3.5	0.55	50	380	1500	2)	3)	1.3	12.1	2.0	4.4	13.0	6.3	15.3
90.3		n.A	n.A	5	1)	SA5E09SA4	4	3.5	0.55	50	380	1500	2)	3)	1.4	4.9	2.7	3.4	6.3	6.8	9.7
89.9		n.A	n.A	5	1)	SA5E09XA4	4	3.5	0.55	50	380	1500	2)	3)	2.2	3.7	4.2	4.1	5.8	8.4	10.1
90.5		n.A	n.A	5	1)	SA5E09SA4	4	4.8	0.75	50	380	1500	2)	3)	1.1	6.1	2.1	3.1	7.1	5.6	9.5
91.2		n.A	n.A	5	1)	SA5E09XA4	4	4.8	0.75	50	380	1500	2)	3)	1.5	4.1	2.9	3.4	5.6	6.5	8.7
91.4		n.A	n.A	5	1)	SA5E09XA4	4	7	1.1	50	380	1500	2)	3)	1.2	5.1	2.5	3.4	6.2	5.3	8.4

*Dimensioned according to IEC TS 60034-30-2

1) Manufacturer: Bauer Gear Motor GmbH
Commercial register number: HRB 736269
Address: Eberhard-Bauer-Str. 37, 73734 Esslingen / Germany

2) Type of motor: Three-phase permanent magnet excited synchronous motor

3) Installation altitude above sea level (m): 1000
Ambient temperature: -20 °C to +40 °C

Motors

Technical data

Stainless steel motors with rated speed 3000 1/min

M_n Nm	IE Classe	Type	P_n kW	I_n A	2p	n_n 1/min	f Hz	η %	Connec-tion	R_{20} Ω	Rs_{20} Ω	L_d mH	L_q mH	ke V/1000 1/min	kt Nm/A	$M_{max\ (60s)}$ Nm	$I_{max\ (60s)}$ A	J kgm^2
1.2	5	SA5E08MA4	0.37	0.9	4	3000	100	IE5-87.5	Y	4.73	2.36	24.7	43.5	90	1.33	3.8	2.9	0.00115
1.75	5	SA5E08MA4	0.55	1.32	4	3000	100	IE5-89.7	Y	4.73	2.36	24.7	43.5	90	1.33	3.8	2.9	0.00115
2.4	5	SA5E08MA4	0.75	1.8	4	3000	100	IE5-90.5	Y	4.73	2.36	24.7	43.5	90	1.33	3.8	2.9	0.00115
2.4	5	SA5E09SA4	0.75	1.6	4	3000	100	IE5-89.3	Y	2.42	1.21	15.5	27.6	103	1.5	7.7	5.1	0.00245
3.5	5	SA5E09SA4	1.1	2.3	4	3000	100	IE5-91.3	Y	2.42	1.21	15.5	27.6	103	1.5	7.7	5.1	0.00245

Stainless steel motors torques in the adjusting range 150 1/min - 3000 1/min. duty type S1

M_n Nm	P_n kW	Type	Speed 1/min	Torque Nm	Power kW	Current A	Frequency Hz	Connection
1.2	0.37	SA5E08MA4	150	1.2	0.019	0.9	5	Y
			3000	1.2	0.37	0.9	100	Y
1.75	0.55	SA5E08MA4	150	1.75	0.027	1.32	5	Y
			3000	1.75	0.55	1.32	100	Y
2.4	0.75	SA5E08MA4	150	2.4	0.038	1.8	5	Y
			3000	2.4	0.75	1.8	100	Y
2.4	0.75	SA5E09SA4	150	2.4	0.038	1.6	5	Y
			3000	2.4	0.75	1.6	100	Y
3.5	1.1	SA5E09SA4	150	3.5	0.055	2.3	5	Y
			3000	3.5	1.1	2.3	100	Y

Converter Settings:

Minimum clock frequency:	3 kHz
Short-term current limit:	160 % * $I_{3000/min}$
Maximum overload time:	60 s
Minimum frequency:	5 Hz
Maximum frequency:	120 Hz
Permissible operating time below f_{min}:	60 s (in open loop mode)

All other settings must be selected according the requirements of the drive.
The maximum overload time and the permissible operating time below f_{min} are based on an interval of 10 minutes.

Non-standard operating conditions on request.

All motors: converter supply voltage 380 to 500 V

Stainless steel motors with rated speed 3000 1/min

Stainless steel motors with rated speed 3000 1/min																						
															Power losses in % at operating points (Speed/Torque)							
η (100 % -Load)	%	η (75 %-Load)	%	η (50 %-Load)	%	IE ClassKlasse		Manufacturer data		Type		Number of poles		M_n	Nm	P	kW	Frequency	Hz	Voltage	V	n_N	1/min	Type of motor		Operating conditions		25/25	25/100	50/25	50/50	50/100	90/50	90/100
IE5-87.5	n.A	n.A	n.A	n.A		5		1)		SA5E08MA4		4		1.2		0.37		100		380		3000		2)		3)		2.5	4.2	5.6	5.8	7.4	11.7	13.2
IE5-89.7	n.A	n.A	n.A	n.A		5		1)		SA5E08MA4		4		1.75		0.55		100		380		3000		2)		3)		1.4	4.0	3.3	3.9	5.9	8.3	10.4
IE5-90.5	n.A	n.A	n.A	n.A		5		1)		SA5E08MA4		4		2.4		0.75		100		380		3000		2)		3)		1.1	4.8	2.5	3.3	6.2	6.5	9.4
IE5-89.3	n.A	n.A	n.A	n.A		5		1)		SA5E09SA4		4		2.4		0.75		100		380		3000		2)		3)		1.9	3.3	4.1	4.3	5.7	9.8	10.9
IE5-91.3	n.A	n.A	n.A	n.A		5		1)		SA5E09SA4		4		3.5		1.1		100		380		3000		2)		3)		1.3	3.4	3.0	3.3	5.0	6.9	8.6

*Dimensioned according to IEC TS 60034-30-2

1) Manufacturer: Bauer Gear Motor GmbH
Commercial register number: HRB 736269
Address: Eberhard-Bauer-Str. 37, 73734 Esslingen / Germany

2) Type of motor: Three-phase permanent magnet excited synchronous motor

3) Installation altitude above sea level (m): 1000
Ambient temperature: -20 °C to +40 °C

Atex-Motors

Rated speed 1500 1/min
-Type S.XE.08MA4-..

Rated data of the motor

Type: **S.XE.08MA4-..** Ignition protection type: Increased Safety
S.XC.08MA4-.. Dust explosion protection – Zone 21

Labelling: **II 2 G Ex e IIC T1 - T3 Gb**
Labelling: **II 2 D Ex tb IIIC T120 °C – T160 °C Db IP6x**

Rated parameters and data of the motor

Rated power Pn	1.0	1.75	kW
Rated torque Mn	6.5	6.5	Nm
Rated current In	2.3	4.0	A
No. of Motor Poles 2p	4	4	
Rated speed n_n	1500	2600	1/min
Nominal Frequency	50	87	Hz
Motorcircuit	Wye circuit	Delta circuit	
Strang-Resistance Rs20	9.35*		Ohm
Strang-Inductance D-Axis Ld	97*		mH
Strang-Inductance Q-Axis Lq	170*		mH
Voltage constant ke	180	103	V / 1000 1/min
Torque constant kt	2.82	1.62	Nm / A
Peak Torque Mmax (60s)	10	10	Nm
Peak Current Imax (60s)	3.7	6.4	A
Converter supply voltage	380 - 500		V

Δ * Input value Danfoss Frequency converter FC302 => delta circuit 1/3 of the phase value

Data operation with frequency converter S1 operation. wye circuit

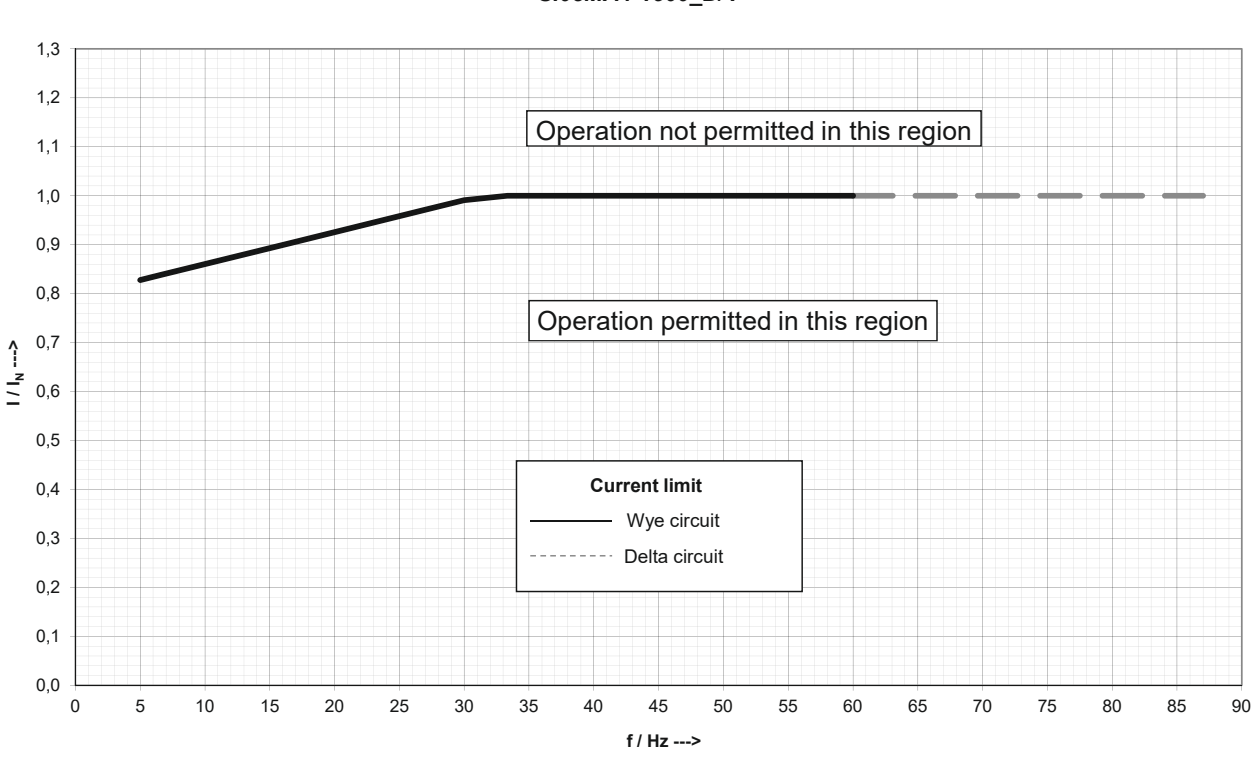
Torque	5.0	5.6	6.5	6.5	6.5	Nm
Power	0.08	0.29	0.68	1.0	1.2	kW
Voltage *	66	138	243	340	378	V
Current	1.9	2.1	2.3	2.3	2.3	A
Frequenz	5	16.66	33.33	50	60	Hz
Speed	150	500	1000	1500	1800	1/min
Duty type	S1					

Data operation with frequency converter S1 operation. delta circuit

Torque	5.0	5.6	6.5	6.5	6.5	Nm
Power	0.08	0.29	0.68	1.0	1.75	kW
Voltage *	38	79	142	198	320	V
Current	3.3	3.6	4.0	4.0	4.0	A
Frequenz	5	16.66	33.33	50	87	Hz
Speed	150	500	1000	1500	2600	1/min
Duty type	S1					

* Basic oscillation at the motor terminals (output voltage of the frequency converter)

Frequency converter continuous current limit configuration parameters



Frequency converter continuous current limit configuration parameters

The voltage at the motor terminals depends on the input voltage from the frequency converter, the loss of voltage at the filter and in the motor supply cable and may not fall below the rated value by more than 10 % according to IEC 60034 - 1 Range „B“, even with minimum input voltage from the frequency converter. In the event of reduced voltage at the motor terminals, the permissible motor torque must be reduced proportionally to the change in voltage. This must be taken into account when sizing the motor, and the parameterisation of the converter and for the converter minimum input voltage.
The maximum permissible frequency converter input voltage is 500 V +10 %, 50/60 Hz.

Max. permissible ambient temperature range -20 °C to +50 °C

Changes to the rated values (torque, speed adjusting range) within the permissible operating range are permissible and are determined by the manufacturer. Permissible continuous current limit, torque and speed adjusting range are specified on the nameplate.

Converter Settings:

Minimum clock frequency:	3 kHz
Short-term current limit:	160 % * In
Maximum overload time:	60 s
Minimum frequency:	5 Hz
Maximum frequency:	60 Hz
Permissible operating time below f_{min}:	60 s

All other settings must be selected according the requirements of the drive.

The maximum overload time and the permissible operating time below f_{min} are based on an interval of 10 minutes.

Rated speed 1500 1/min
-Type S.XE.08LA4-..

Rated data of the motor

Type: **S.XE.08LA4-..** Ignition protection type: Increased Safety
S.XC.08LA4-.. Dust explosion protection - Zone 21

Labelling: **II 2 G Ex e IIC T1 - T3**
Labelling: **II 2 D Ex tb IIIC T 120 °C – T160 °C Db IP6x**

Rated parameters and data of the motor

Rated power Pn	1.50	2.45	kW
Rated torque Mn	9.55	9.0	Nm
Rated current In	3.5	5.9	A
No. of Motor Poles 2p	4	4	
Rated speed n_n	1500	2600	1/min
Nominal Frequency	50	87	Hz
Motorcircuit	Wye circuit	Delta circuit	
Strang-Resistance Rs20	5.5 *		Ohm
Strang-Inductance D-Axis Ld	70 *		mH
Strang-Inductance Q-Axis Lq	117 *		mH
Voltage constant ke	171	99	V / 1000 1/min
Torque constant kt	2.73	1.52	Nm / A
Peak Torque Mmax (60s)	15	14	Nm
Peak Current Imax (60s)	5.6	9.5	A
Converter supply voltage	380 - 500		V

Δ * Input value Danfoss Frequency converter FC302 => delta circuit 1/3 of the phase value

Data operation with frequency converter S1 operation. wye circuit

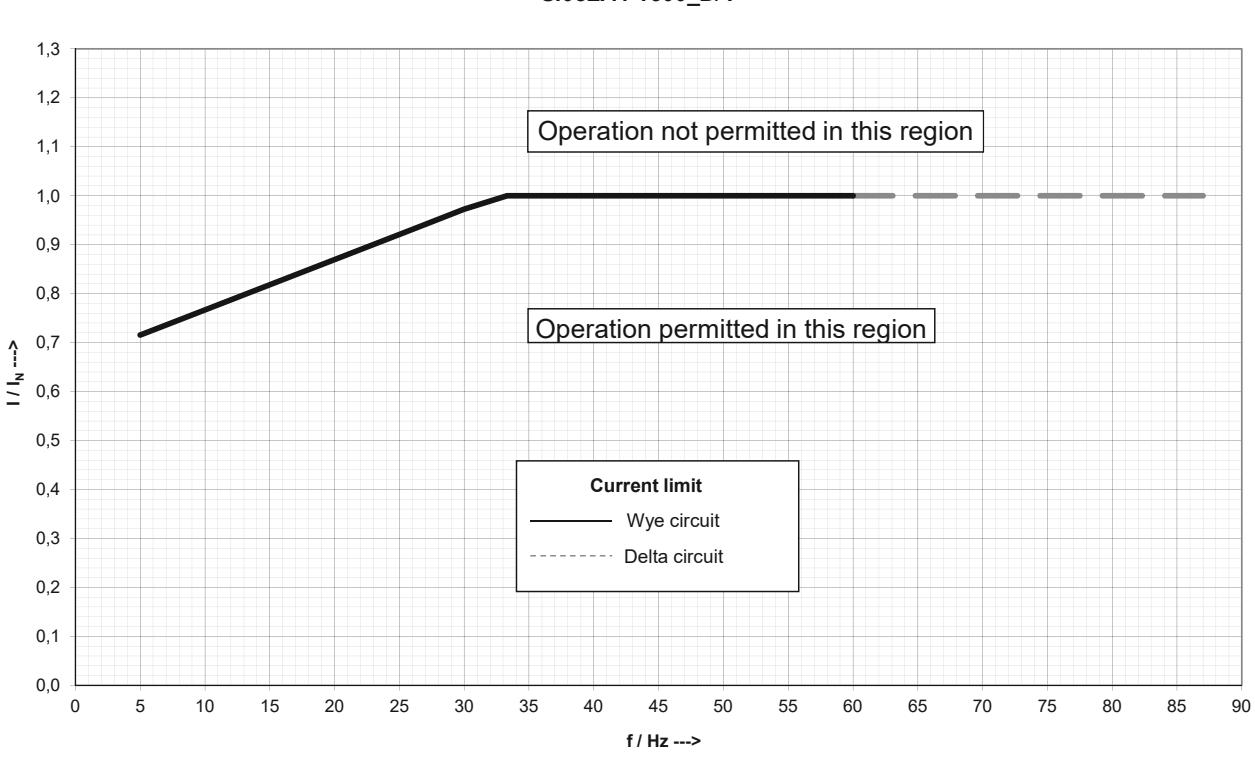
Torque	6.5	8.0	9.55	9.55	9.55	Nm
Power	0.1	0.42	1.0	1.5	1.8	kW
Voltage *	55	125	225	315	378	V
Current	2.5	3.0	3.5	3.5	3.5	A
Frequenz	5	16.66	33.33	50	60	Hz
Speed	150	500	1000	1500	1800	1/min
Duty type	S1					

Data operation with frequency converter S1 operation. delta circuit

Torque	6.25	8.0	9.0	9.0	9.0	Nm
Power	0.10	0.39	0.94	1.4	2.45	kW
Voltage *	33	72	131	182	300	V
Current	4.3	5.0	5.9	5.9	5.9	A
Frequenz	5	16.66	33.33	50	87	Hz
Speed	150	500	1000	1500	2600	1/min
Duty type	S1					

* Basic oscillation at the motor terminals (output voltage of the frequency converter)

Frequency converter continuous current limit configuration parameters



Frequency converter continuous current limit configuration parameters

The voltage at the motor terminals depends on the input voltage from the frequency converter, the loss of voltage at the filter and in the motor supply cable and may not fall below the rated value by more than 10 % according to IEC 60034 - 1 Range „B“, even with minimum input voltage from the frequency converter. In the event of reduced voltage at the motor terminals, the permissible motor torque must be reduced proportionally to the change in voltage. This must be taken into account when sizing the motor, and the parameterisation of the converter and for the converter minimum input voltage.
The maximum permissible frequency converter input voltage is 500 V +10 %, 50/60 Hz.

Max. permissible ambient temperature range -20 °C to +50 °C

Changes to the rated values (torque, speed adjusting range) within the permissible operating range are permissible and are determined by the manufacturer. Permissible continuous current limit, torque and speed adjusting range are specified on the nameplate.

Converter Settings:

Minimum clock frequency:	3 kHz
Short-term current limit:	160 % * In
Maximum overload time:	60 s
Minimum frequency:	5 Hz
Maximum frequency:	60 Hz
Permissible operating time below f_{min}:	60 s

All other settings must be selected according the requirements of the drive.

The maximum overload time and the permissible operating time below f_{min} are based on an interval of 10 minutes.

Rated speed 1500 1/min
-Type S.XE.09SA4-..

Rated data of the motor

Type: **S.XE.09SA4-..** Ignition protection type: Increased Safety
S.XC.09SA4-.. Dust explosion protection - Zone 21

Labelling: **II 2 G Ex e IIC T1 - T3 Gb**
Labelling: **II 2 D Ex tb IIIC T120 °C - T160 °C Db IP6x**

Rated parameters and data of the motor

Rated power Pn	2.0	3.5	kW
Rated torque Mn	13	13	Nm
Rated current In	4.0	7.0	A
No. of Motor Poles 2p	4	4	
Rated speed n_n	1500	2600	1/min
Nominal Frequency	50	87	Hz
Motorcircuit	Wye circuit	Delta circuit	
Strang-Resistance Rs20	4.95*		Ohm
Strang-Inductance D-Axis Ld	64.1*		mH
Strang-Inductance Q-Axis Lq	109.8*		mH
Voltage constant ke	208	120	V / 1000 1/min
Torque constant kt	3.2	1.85	Nm / A
Peak Torque Mmax (60s)	20	20	Nm
Peak Current Imax (60s)	6.4	11.0	A
Converter supply voltage	380 - 500		V

Δ * Input value Danfoss Frequency converter FC302 => delta circuit 1/3 of the phase value

Data operation with frequency converter S1 operation. wye circuit

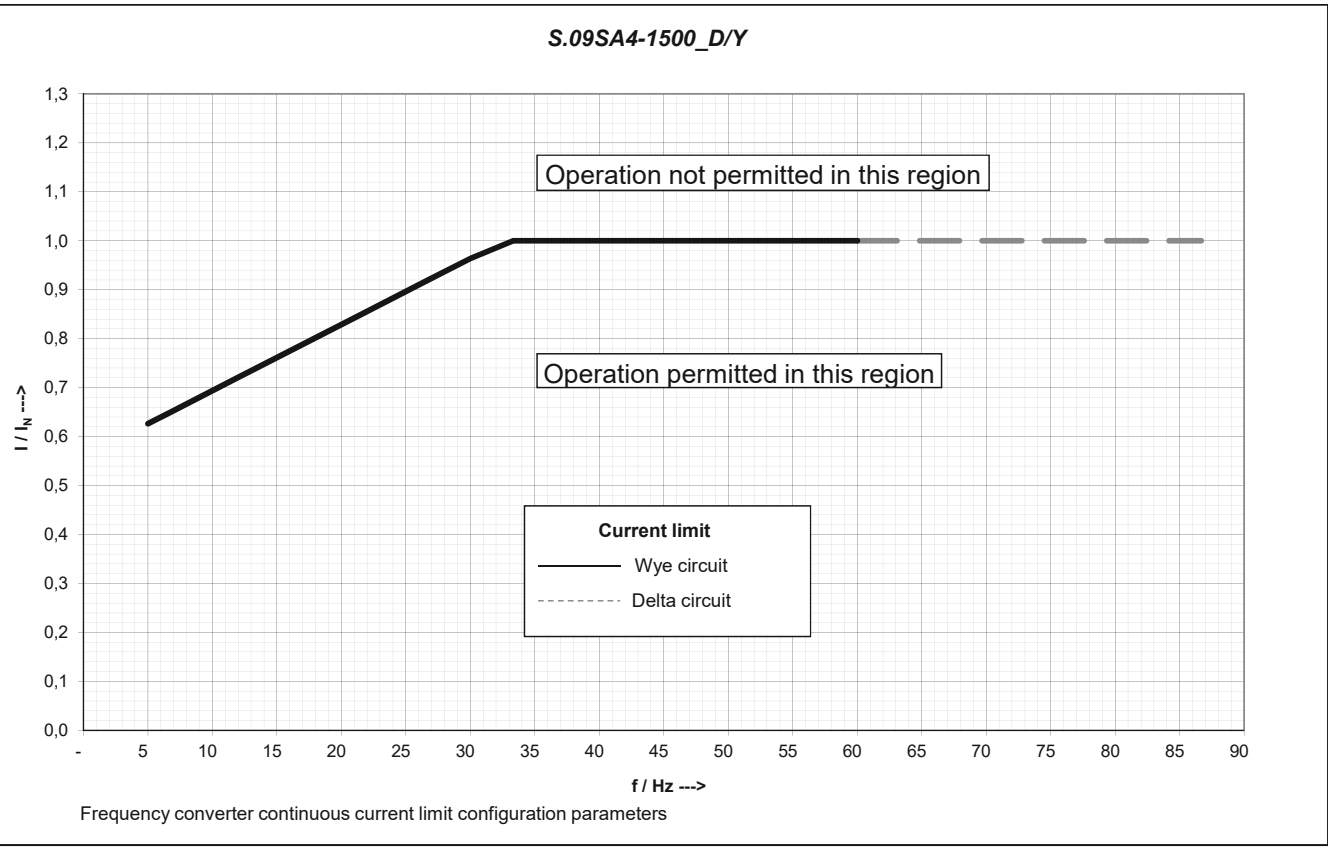
Torque	8	10	13	13	11.5	Nm
Power	0.13	0.53	1.36	2	2.2	kW
Voltage *	56	140	258	370	375	V
Current	2.5	3.2	4.0	4.0	4.0	A
Frequenz	5	16.66	33.33	50	60	Hz
Speed	150	500	1000	1500	1800	1/min
Duty type	S1					

Data operation with frequency converter S1 operation. delta circuit

Torque	8	10	13	13	13	Nm
Power	0.13	0.53	1.36	2	3.5	kW
Voltage *	33	81	149	214	370	V
Current	4.3	5.5	7.0	7.0	7.0	A
Frequenz	5	16.66	33.33	50	87	Hz
Speed	150	500	1000	1500	2600	1/min
Duty type	S1					

* Basic oscillation at the motor terminals (output voltage of the frequency converter)

Frequency converter continuous current limit configuration parameters



Frequency converter continuous current limit configuration parameters

The voltage at the motor terminals depends on the input voltage from the frequency converter, the loss of voltage at the filter and in the motor supply cable and may not fall below the rated value by more than 10 % according to IEC 60034 - 1 Range „B“, even with minimum input voltage from the frequency converter. In the event of reduced voltage at the motor terminals, the permissible motor torque must be reduced proportionally to the change in voltage. This must be taken into account when sizing the motor, and the parameterisation of the converter and for the converter minimum input voltage.
The maximum permissible frequency converter input voltage is 500 V +10 %, 50/60 Hz.

Max. permissible ambient temperature range -20 °C to +50 °C

Changes to the rated values (torque, speed adjusting range) within the permissible operating range are permissible and are determined by the manufacturer. Permissible continuous current limit, torque and speed adjusting range are specified on the nameplate.

Converter Settings:

Minimum clock frequency:	3 kHz
Short-term current limit:	160 % * In
Maximum overload time:	60 s
Minimum frequency:	5 Hz
Maximum frequency:	60 Hz
Permissible operating time below f_{min}:	60 s

All other settings must be selected according the requirements of the drive.

The maximum overload time and the permissible operating time below f_{min} are based on an interval of 10 minutes.

Rated speed 1500 1/min
-Type S.XE.09XA4-..

Rated data of the motor

Type: **S.XE.09XA4-..** Ignition protection type: Increased Safety
S.XC.09XA4-.. Dust explosion protection - Zone 21

Labelling: **II 2 G Ex e IIC T1 - T3 Gb**
Labelling: **II 2 D Ex tb IIIC T120 °C – T160 °C Db IP6x**

Rated parameters and data of the motor

Rated power Pn	3.1	5.5	kW
Rated torque Mn	20	20	Nm
Rated current In	6.3	10.9	A
No. of Motor Poles 2p	4	4	
Rated speed n_n	1500	2600	1/min
Nominal Frequency	50	87	Hz
Motorcircuit	Wye circuit	Delta circuit	
Strang-Resistance Rs20	2.625*		Ohm
Strang-Inductance D-Axis Ld	41.2*		mH
Strang-Inductance Q-Axis Lq	70.1*		mH
Voltage constant ke	209	120	V / 1000 1/min
Torque constant kt	3.2	1.85	Nm / A
Peak Torque Mmax (60s)	31	29	Nm
Peak Current Imax (60s)	10	16	A
Converter supply voltage	380 - 500		V

Δ * Input value Danfoss Frequency converter FC302 => delta circuit 1/3 of the phase value

Data operation with frequency converter S1 operation. wye circuit

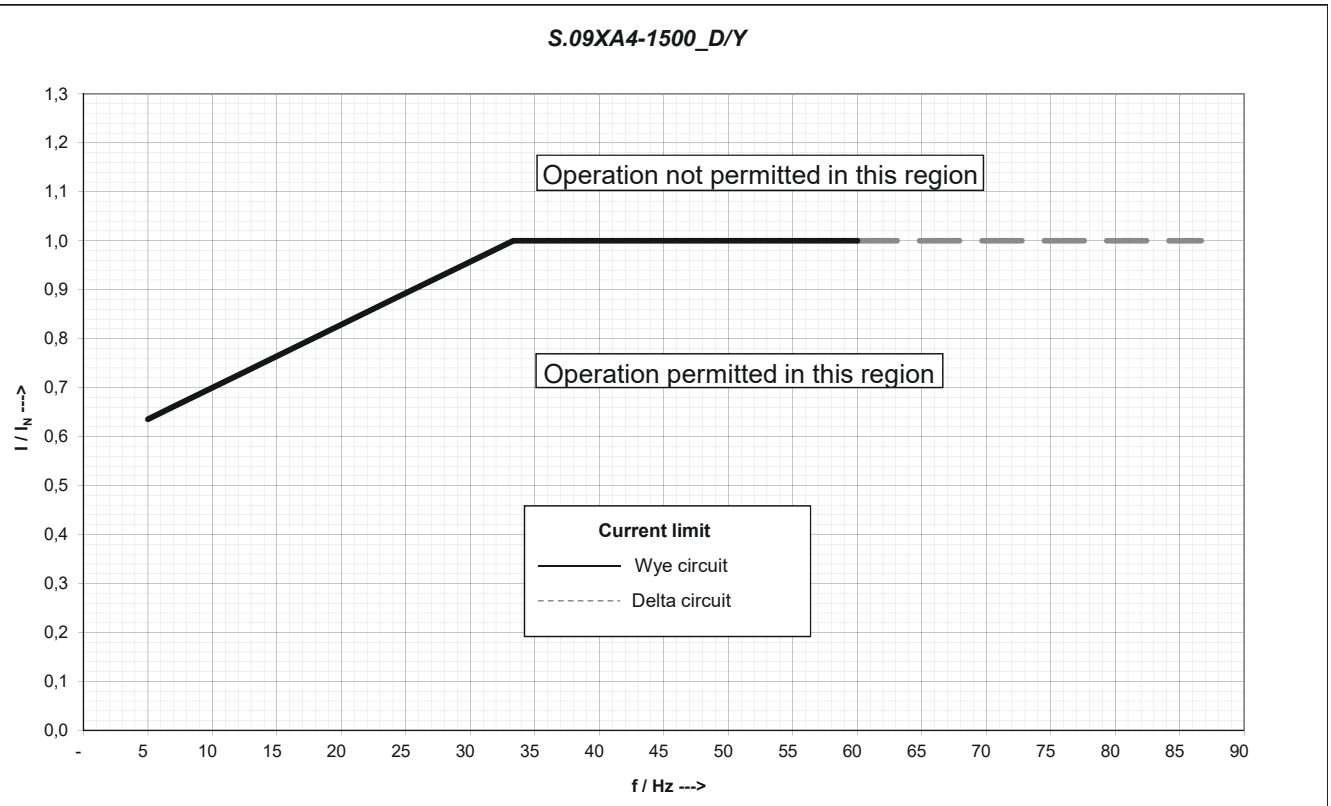
Torque	13	16	20	20	19	Nm
Power	0.20	0.84	2.1	3.1	3.6	kW
Voltage *	53	134	253	364	380	V
Current	4.0	5.0	6.3	6.3	6.3	A
Frequenz	5	16.66	33.33	50	60	Hz
Speed	150	500	1000	1500	1800	1/min
Duty type	S1					

Data operation with frequency converter S1 operation. delta circuit

Torque	13	16	20	20	20	Nm
Power	0.2	0.84	2.1	3.1	5.5	kW
Voltage *	31	78	146	210	348	V
Current	7.0	8.7	10.9	10.9	10.9	A
Frequenz	5	16.66	33.33	50	87	Hz
Speed	150	500	1000	1500	2600	1/min
Duty type	S1					

* Basic oscillation at the motor terminals (output voltage of the frequency converter)

Frequency converter continuous current limit configuration parameters



Frequency converter continuous current limit configuration parameters

The voltage at the motor terminals depends on the input voltage from the frequency converter, the loss of voltage at the filter and in the motor supply cable and may not fall below the rated value by more than 10 % according to IEC 60034 - 1 Range „B“, even with minimum input voltage from the frequency converter. In the event of reduced voltage at the motor terminals, the permissible motor torque must be reduced proportionally to the change in voltage. This must be taken into account when sizing the motor, and the parameterisation of the converter and for the converter minimum input voltage.
The maximum permissible frequency converter input voltage is 500 V +10 %, 50/60 Hz.

Max. permissible ambient temperature range -20 °C to +50 °C

Changes to the rated values (torque, speed adjusting range) within the permissible operating range are permissible and are determined by the manufacturer. Permissible continuous current limit, torque and speed adjusting range are specified on the nameplate.

Converter Settings:

Minimum clock frequency:	3 kHz
Short-term current limit:	160 % * In
Maximum overload time:	60 s
Minimum frequency:	5 Hz
Maximum frequency:	60 Hz
Permissible operating time below f_{min}:	60 s

All other settings must be selected according the requirements of the drive.

The maximum overload time and the permissible operating time below f_{min} are based on an interval of 10 minutes.

Rated speed 1500 1/min
-Type S.XE.11SA6-..

Rated data of the motor

Type: **S.XE.11SA6-..** Ignition protection type: Increased Safety
S.XC.11SA6-.. Dust explosion protection - Zone 21

Labelling: **II 2 G Ex e IIC T1 - T3 Gb**
Labelling: **III 2 D Ex tb IIIC T120 °C – T160 °C Db IP6x**

Rated parameters and data of the motor

Rated power Pn	3.5	6.1	kW
Rated torque Mn	22.5	22.5	Nm
Rated current In	7.0	12.5	A
No. of Motor Poles 2p	6	6	
Rated speed n_n	1500	2600	1/min
Nominal Frequency	75	130	Hz
Motorcircuit	Wye circuit	Delta circuit	
Strang-Resistance Rs20	1.76*		Ohm
Strang-Inductance D-Axis Ld	20*		mH
Strang-Inductance Q-Axis Lq	30*		mH
Voltage constant ke	210	121	V / 1000 1/min
Torque constant kt	3.20	1.80	Nm / A
Peak Torque Mmax (60s)	35	35	Nm
Peak Current Imax (60s)	11	19	A
Converter supply voltage	380 - 500		V

Δ * Input value Danfoss Frequency converter FC302 => delta circuit 1/3 of the phase value

Data operation with frequency converter S1 operation. wye circuit

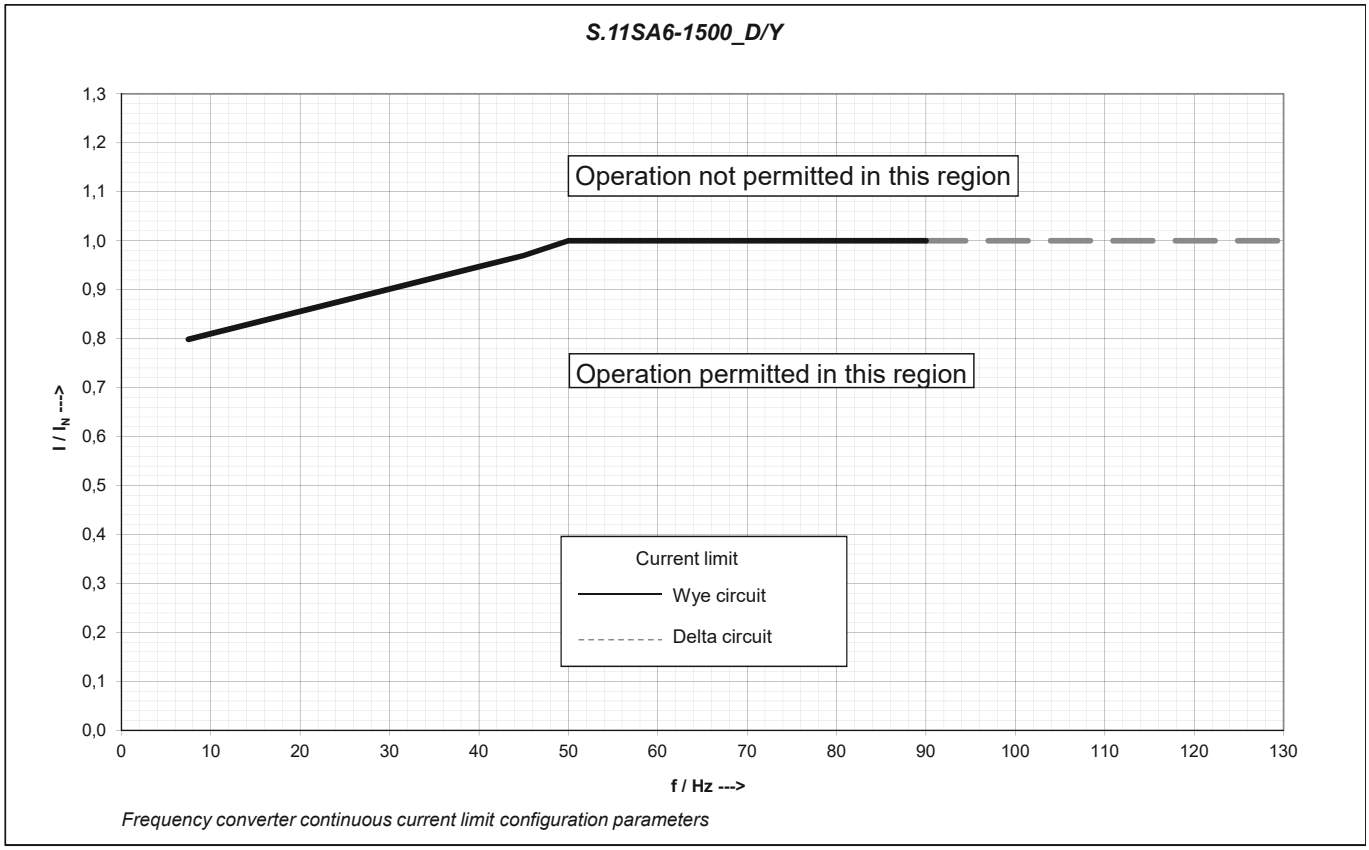
Torque	18	20	22.5	22.5	22.5	Nm
Power	0.28	1.0	2.4	3.5	6.1	kW
Voltage *	54	132	245	351	381	V
Current	5.6	6.2	7.0	7.0	7.0	A
Frequenz	7.5	25	50	75	90	Hz
Speed	150	500	1000	1500	1800	1/min
Duty type	S1					

Data operation with frequency converter S1 operation. delta circuit

Torque	18	20	22.5	22.5	22.5	Nm
Power	0.28	1.0	2.4	3.5	6.1	kW
Voltage *	31	76	142	203	341	V
Current	10	11	12.5	12.5	12.5	A
Frequenz	7.5	25	50	75	130	Hz
Speed	150	500	1000	1500	2600	1/min
Duty type	S1					

* Basic oscillation at the motor terminals (output voltage of the frequency converter)

Frequency converter continuous current limit configuration parameters



Frequency converter continuous current limit configuration parameters

The voltage at the motor terminals depends on the input voltage from the frequency converter, the loss of voltage at the filter and in the motor supply cable and may not fall below the rated value by more than 10 % according to IEC 60034 - 1 Range „B“, even with minimum input voltage from the frequency converter. In the event of reduced voltage at the motor terminals, the permissible motor torque must be reduced proportionally to the change in voltage. This must be taken into account when sizing the motor, and the parameterisation of the converter and for the converter minimum input voltage.
The maximum permissible frequency converter input voltage is 500 V +10 %, 50/60 Hz.

Max. permissible ambient temperature range -20 °C to +50 °C

Changes to the rated values (torque, speed adjusting range) within the permissible operating range are permissible and are determined by the manufacturer. Permissible continuous current limit, torque and speed adjusting range are specified on the nameplate.

Converter Settings:

Minimum clock frequency:	3 kHz
Short-term current limit:	160 % * In
Maximum overload time:	60 s
Minimum frequency:	5 Hz
Maximum frequency:	60 Hz
Permissible operating time below f_{min}:	60 s

All other settings must be selected according the requirements of the drive.

The maximum overload time and the permissible operating time below f_{min} are based on an interval of 10 minutes.

Rated speed 1500 1/min
-Type S.XE.11MA6-..

Rated data of the motor

Type: **S.XE.11MA6-..** Ignition protection type: Increased Safety
S.XC.11MA6-.. Dust explosion protection - Zone 21

Labelling: **II 2 G Ex e IIC T1 - T3 Gb**
Labelling: **II 2 D Ex tb IIIC T120 °C – T160 °C Db IP6x**

Rated parameters and data of the motor

Rated power Pn	5.50	9.50	kW
Rated torque Mn	35	35	Nm
Rated current In	11.0	19.1	A
No. of Motor Poles 2p	6	6	
Rated speed n_n	1500	3600	1/min
Nominal Frequency	75	130	Hz
Motorcircuit	Wye circuit	Delta circuit	
Strang-Resistance Rs20	0.892*		Ohm
Strang-Inductance D-Axis Ld	12*		mH
Strang-Inductance Q-Axis Lq	18.4*		mH
Voltage constant ke	206	117	V / 1000 1/min
Torque constant kt	3.15	1.79	Nm / A
Peak Torque Mmax (60s)	55	55	Nm
Peak Current Imax (60s)	17	30	A
Converter supply voltage	380 - 500		V

Δ * Input value Danfoss Frequency converter FC302 => delta circuit 1/3 of the phase value

Data operation with frequency converter S1 operation. wye circuit

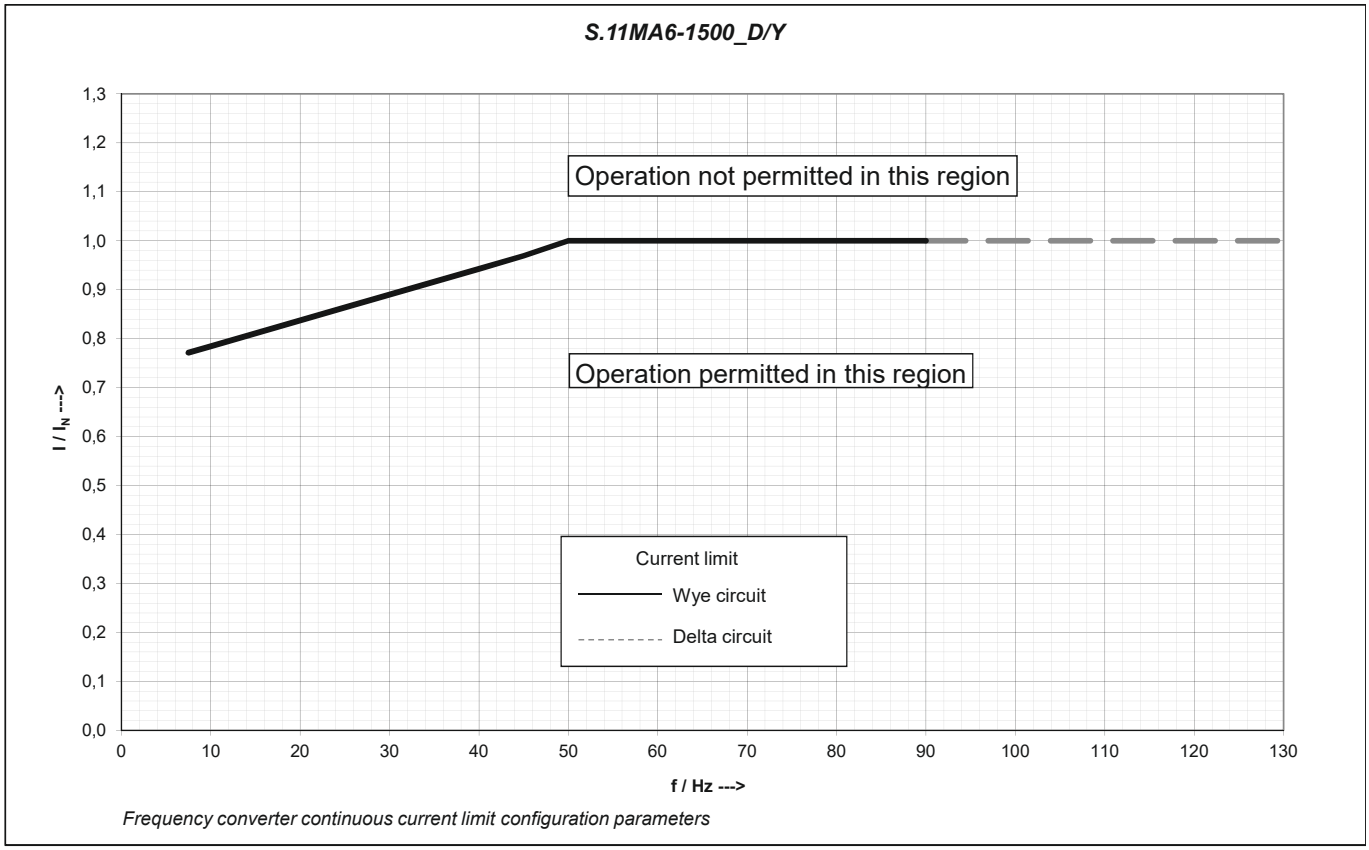
Torque	26.5	30	35	35	35	Nm
Power	0.42	1.6	3.7	5.5	6.5	kW
Voltage *	46	121	229	331	377	V
Current	8.5	9.5	11.0	11.0	11.0	A
Frequenz	7.5	25	50	75	90	Hz
Speed	150	500	1000	1500	1800	1/min
Duty type	S1					

Data operation with frequency converter S1 operation. delta circuit

Torque	26.2	30	35	35	35	Nm
Power	0.41	1.6	3.7	5.5	9.5	kW
Voltage *	27	70	132	190	321	V
Current	14.7	16.7	19.1	19.1	19.1	A
Frequenz	7.5	25	50	75	130	Hz
Speed	150	500	1000	1500	2600	1/min
Duty type	S1					

* Basic oscillation at the motor terminals (output voltage of the frequency converter)

Frequency converter continuous current limit configuration parameters



Frequency converter continuous current limit configuration parameters

The voltage at the motor terminals depends on the input voltage from the frequency converter, the loss of voltage at the filter and in the motor supply cable and may not fall below the rated value by more than 10 % according to IEC 60034 - 1 Range „B“, even with minimum input voltage from the frequency converter. In the event of reduced voltage at the motor terminals, the permissible motor torque must be reduced proportionally to the change in voltage. This must be taken into account when sizing the motor, and the parameterisation of the converter and for the converter minimum input voltage.
The maximum permissible frequency converter input voltage is 500 V +10 %, 50/60 Hz.

Max. permissible ambient temperature range -20 °C to +50 °C

Changes to the rated values (torque, speed adjusting range) within the permissible operating range are permissible and are determined by the manufacturer. Permissible continuous current limit, torque and speed adjusting range are specified on the nameplate.

Converter Settings:

Minimum clock frequency:	3 kHz
Short-term current limit:	160 % * In
Maximum overload time:	60 s
Minimum frequency:	5 Hz
Maximum frequency:	60 Hz
Permissible operating time below f_{min}:	60 s

All other settings must be selected according the requirements of the drive.

The maximum overload time and the permissible operating time below f_{min} are based on an interval of 10 minutes.

Rated speed 1500 1/min
-Type S.XE.11LA6-..

Rated data of the motor

Type: **S.XE.11LA6-..** Ignition protection type: Increased Safety
S.XC.11LA6-.. Dust explosion protection - Zone 21

Labelling: **II 2 G Ex e IIC T1 - T3 Gb**
Labelling: **II 2 D Ex tb IIIC T120 °C - T160 °C Db IP6x**

Rated parameters and data of the motor

Rated power Pn	7.50	13	kW
Rated torque Mn	48	48	Nm
Bemessungsstrom In	14.7	26	A
No. of Motor Poles 2p	6	6	
Rated speed n_n	1500	2600	1/min
Nominal Frequency	75	130	Hz
Motorcircuit	Wye circuit	Delta circuit	
Strang-Resistance Rs20	0.605*		Ohm
Strang-Inductance D-Axis Ld	9.3*		mH
Strang-Inductance Q-Axis Lq	13.9*		mH
Voltage constant ke	210	121	V / 1000 1/min
Torque constant kt	3.25	1.84	Nm / A
Peak Torque Mmax (60s)	75	75	Nm
Peak Current Imax (60s)	23	40	A
Converter supply voltage	380 - 500		V

Δ * Input value Danfoss Frequency converter FC302 => delta circuit 1/3 of the phase value

Data operation with frequency converter S1 operation. wye circuit

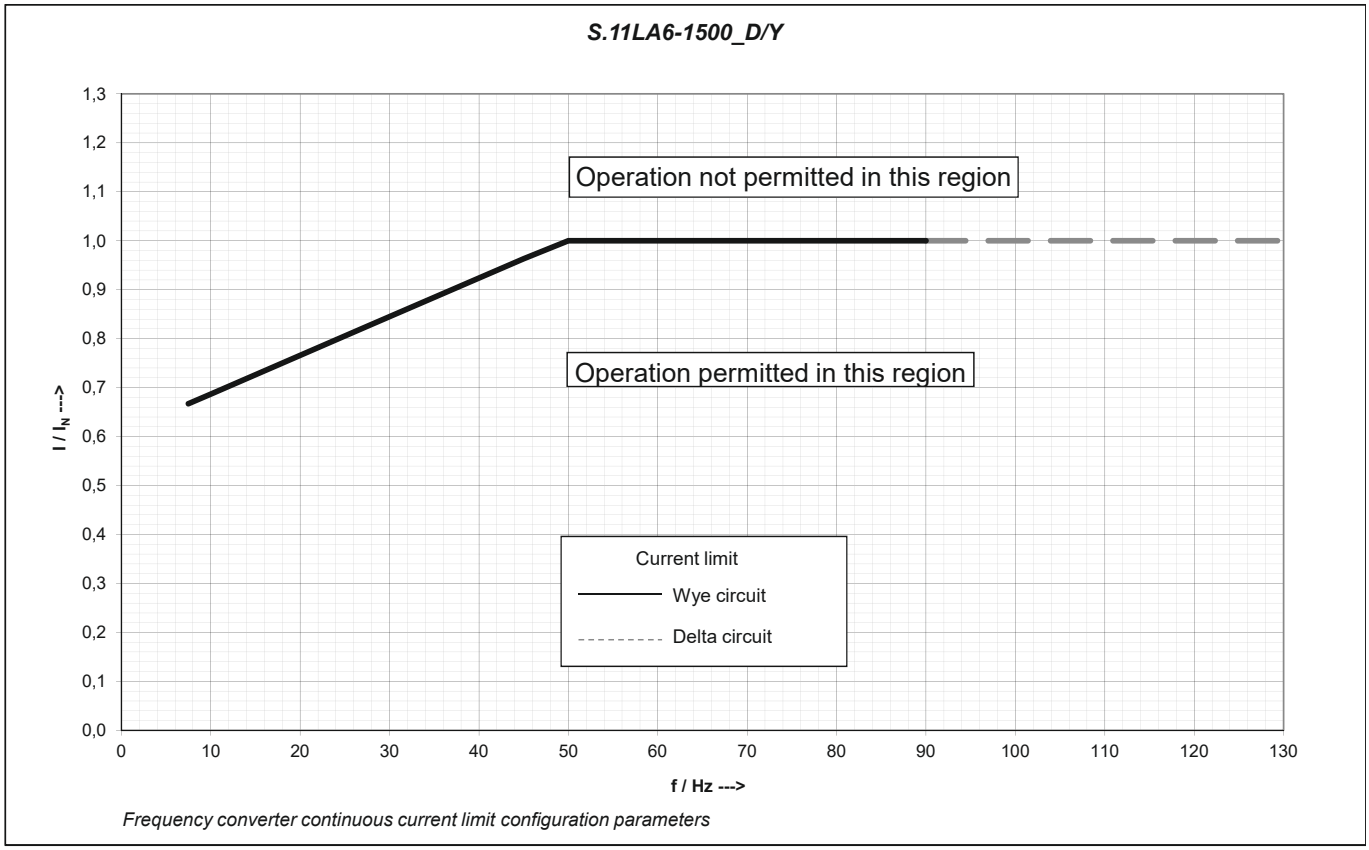
Torque	32.5	39.4	48	48	47.5	Nm
Power	0.51	2.0	5.0	7.5	9.0	kW
Voltage *	44	121	231	338	375	V
Current	9.8	12.0	14.7	14.7	14.7	A
Frequenz	7.5	25	50	75	90	Hz
Speed	150	500	1000	1500	1800	1/min
Duty type	S1					

Data operation with frequency converter S1 operation. delta circuit

Torque	32.5	39.5	48	48	48	Nm
Power	0.51	2.0	5.0	7.5	13	kW
Voltage *	26	71	134	197	328	V
Current	17.6	21.1	26	26	26	A
Frequenz	7.5	25	50	75	130	Hz
Speed	150	500	1000	1500	2600	1/min
Duty type	S1					

* Basic oscillation at the motor terminals (output voltage of the frequency converter)

Frequency converter continuous current limit configuration parameters



Frequency converter continuous current limit configuration parameters

The voltage at the motor terminals depends on the input voltage from the frequency converter, the loss of voltage at the filter and in the motor supply cable and may not fall below the rated value by more than 10 % according to IEC 60034 - 1 Range „B“, even with minimum input voltage from the frequency converter. In the event of reduced voltage at the motor terminals, the permissible motor torque must be reduced proportionally to the change in voltage. This must be taken into account when sizing the motor, and the parameterisation of the converter and for the converter minimum input voltage.
The maximum permissible frequency converter input voltage is 500 V +10 %, 50/60 Hz.

Max. permissible ambient temperature range -20 °C to +50 °C

Changes to the rated values (torque, speed adjusting range) within the permissible operating range are permissible and are determined by the manufacturer. Permissible continuous current limit, torque and speed adjusting range are specified on the nameplate.

Converter Settings:

Minimum clock frequency:	3 kHz
Short-term current limit:	160 % * In
Maximum overload time:	60 s
Minimum frequency:	5 Hz
Maximum frequency:	60 Hz
Permissible operating time below f_{min}:	60 s

All other settings must be selected according the requirements of the drive.

The maximum overload time and the permissible operating time below f_{min} are based on an interval of 10 minutes.

Rated speed 3000 1/min
-Type S.XE.08MA4-..

Rated data of the motor

Type: **S.XE.08MA4-..** Ignition protection type: Increased Safety
S.XC.08MA4-.. Dust explosion protection - Zone 21

Labelling: **II 2 G Ex e IIC T1 - T3 Gb**
Labelling: **II 2 D Ex tb IIIC T120 °C – T160 °C Db IP6x**

Rated parameters and data of the motor

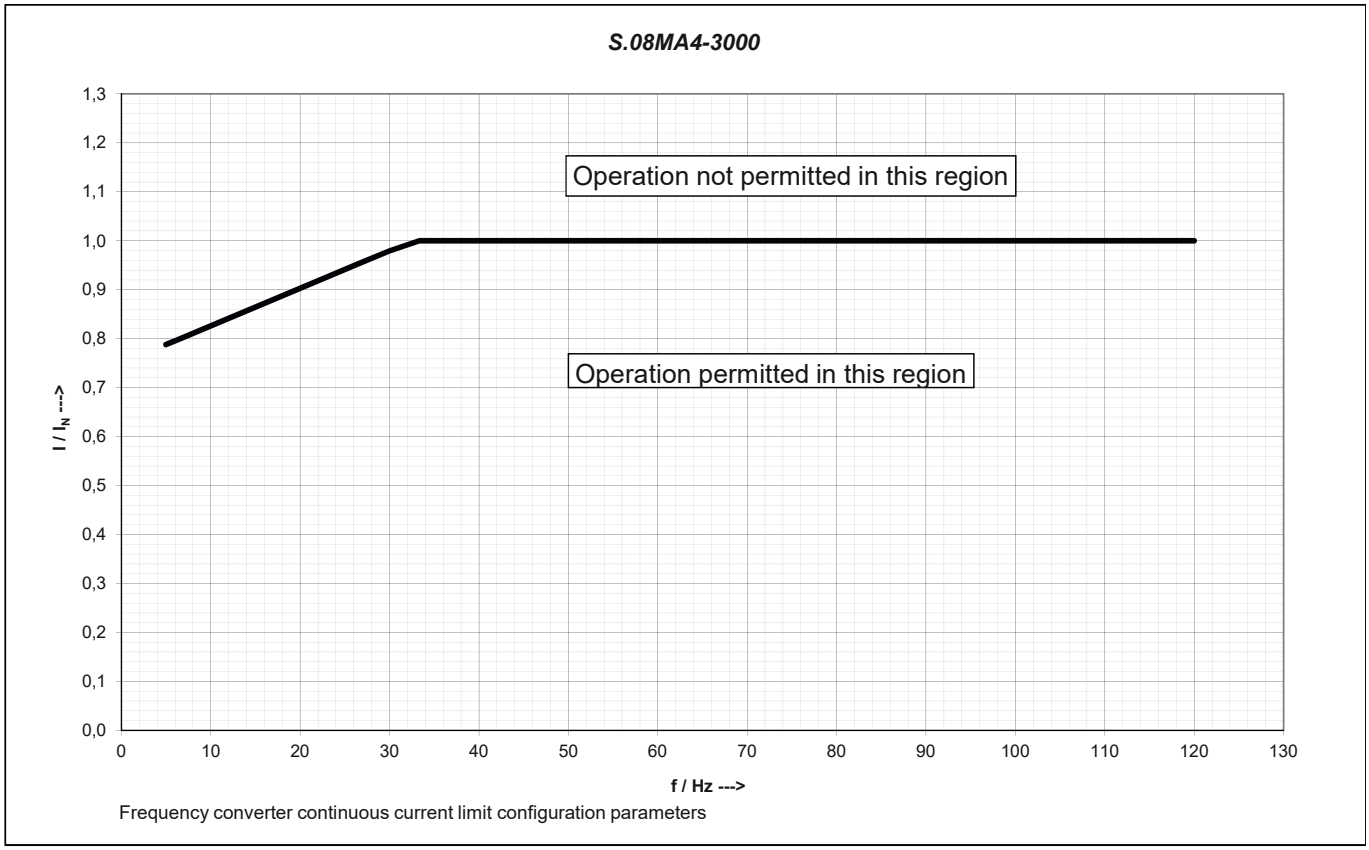
Rated power Pn	2.0	kW
Rated torque Mn	6.50	Nm
Rated current In	4.7	A
No. of Motor Poles 2p	4	
Rated speed n_n	3000	1/min
Nominal Frequency	100	Hz
Motorcircuit	Wye circuit	
Strang-Resistance Rs20	2.36	Ohm
Strang-Inductance D-Axis Ld	24.7	mH
Strang-Inductance Q-Axis Lq	43.5	mH
Voltage constant ke	90	V / 1000 1/min
Torque constant kt	1.28	Nm / A
Peak Torque Mmax (60s)	10	Nm
Peak Current Imax (60s)	7.5	A
Converter supply voltage	380 - 500	V

Data operation with frequency converter

Torque	5.0	5.6	6.5	6.5	6.5	Nm
Power	0.08	0.29	0.68	2.0	2.5	kW
Voltage *	34	68	119	308	372	V
Current	3.7	4.1	4.7	4.7	4.7	A
Frequenz	5	16.66	33.33	100	120	Hz
Speed	150	500	1000	3000	3600	1/min
Duty type	S1					

* Basic oscillation at the motor terminals (output voltage of the frequency converter)

Frequency converter continuous current limit configuration parameters



Frequency converter continuous current limit configuration parameters

The voltage at the motor terminals depends on the input voltage from the frequency converter, the loss of voltage at the filter and in the motor supply cable and may not fall below the rated value by more than 10 % according to IEC 60034 - 1 Range „B“, even with minimum input voltage from the frequency converter. In the event of reduced voltage at the motor terminals, the permissible motor torque must be reduced proportionally to the change in voltage. This must be taken into account when sizing the motor, and the parameterisation of the converter and for the converter minimum input voltage.
The maximum permissible frequency converter input voltage is 500 V +10 %, 50/60 Hz.

Max. permissible ambient temperature range -20 °C to +50 °C

Changes to the rated values (torque, speed adjusting range) within the permissible operating range are permissible and are determined by the manufacturer. Permissible continuous current limit, torque and speed adjusting range are specified on the nameplate.

Converter Settings:

Minimum clock frequency:	3 kHz
Short-term current limit:	160 % * In
Maximum overload time:	60 s
Minimum frequency:	5 Hz
Maximum frequency:	60 Hz
Permissible operating time below f_{min}:	60 s

All other settings must be selected according the requirements of the drive.

The maximum overload time and the permissible operating time below f_{min} are based on an interval of 10 minutes.

Rated speed 3000 1/min
-Type S.XE.08LA4-..

Rated data of the motor

Type: **S.XE.08LA4-..** Ignition protection type: Increased Safety
S.XC.08LA4-.. Dust explosion protection - Zone 21

Labelling: **II 2 G Ex e IIC T1 - T3 Gb**
Labelling: **II 2 D Ex tb IIIC T120 °C - T160 °C Db IP6x**

Rated parameters and data of the motor

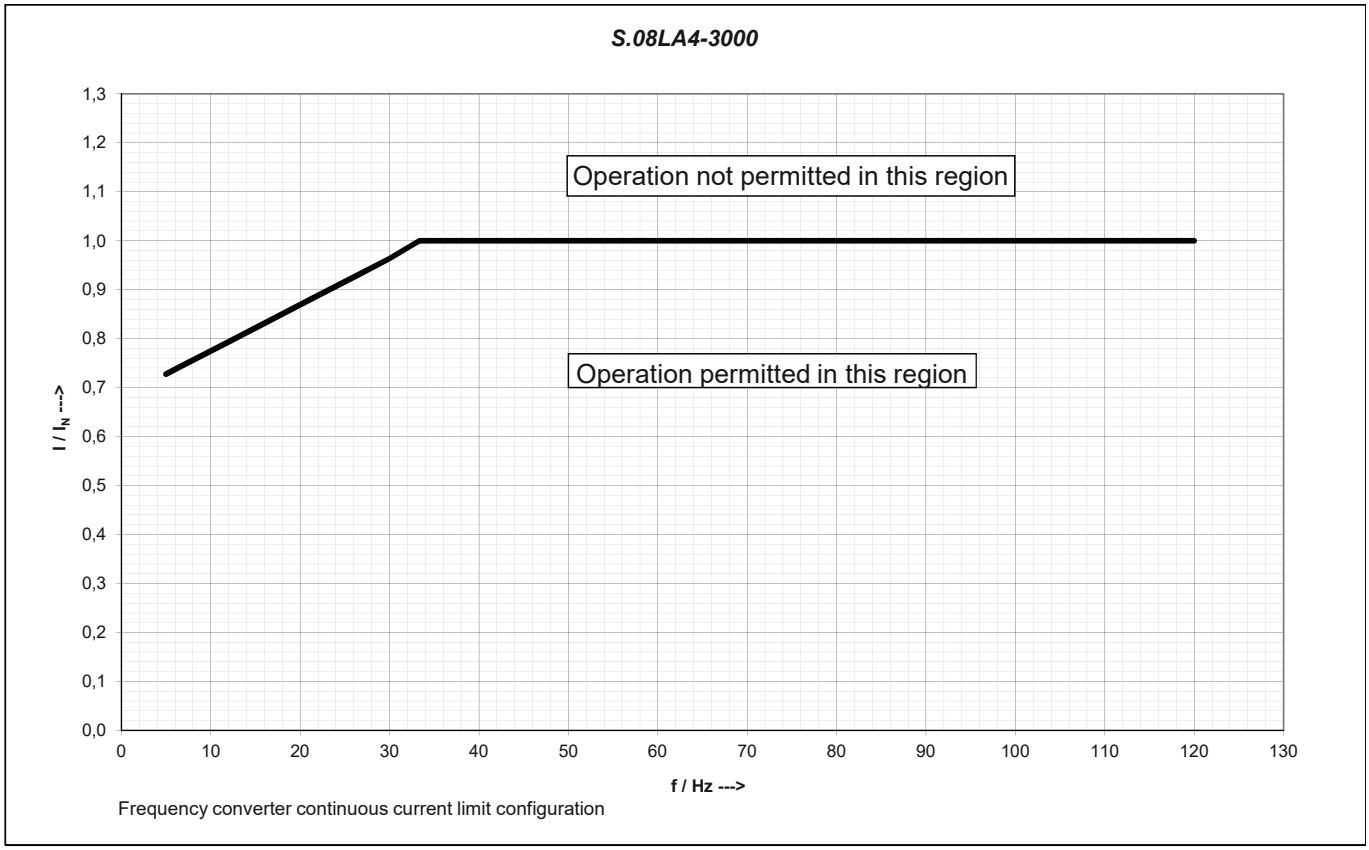
Rated power Pn	3.0	kW
Rated torque Mn	9.55	Nm
Rated current In	7.0	A
No. of Motor Poles 2p	4	
Rated speed n_n	3000	1/min
Nominal Frequency	100	Hz
Motorcircuit	Wye circuit	
Strang-Resistance Rs20	1.41	Ohm
Strang-Inductance D-Axis Ld	16.8	mH
Strang-Inductance Q-Axis Lq	29.6	mH
Voltage constant ke	87	V / 1000 1/min
Torque constant kt	1.36	Nm / A
Peak Torque Mmax (60s)	15	Nm
Peak Current Imax (60s)	11.2	A
Converter supply voltage	380 - 500	V

Data operation with frequency converter

Torque	6.5	8.0	9.55	9.55	9.55	Nm
Power	0.1	0.42	1.0	3.0	3.6	kW
Voltage *	28	63	114	296	358	V
Current	5.2	5.9	7.0	7.0	7.0	A
Frequenz	5	16.66	33.33	100	120	Hz
Speed	150	500	1000	3000	3600	1/min
Duty type	S1					

* Basic oscillation at the motor terminals (output voltage of the frequency converter)

Frequency converter continuous current limit configuration parameters



Frequency converter continuous current limit configuration

The voltage at the motor terminals depends on the input voltage from the frequency converter, the loss of voltage at the filter and in the motor supply cable and may not fall below the rated value by more than 10 % according to IEC 60034 - 1 Range „B“, even with minimum input voltage from the frequency converter. In the event of reduced voltage at the motor terminals, the permissible motor torque must be reduced proportionally to the change in voltage. This must be taken into account when sizing the motor, and the parameterisation of the converter and for the converter minimum input voltage.
The maximum permissible frequency converter input voltage is 500 V +10 %, 50/60 Hz.

Max. permissible ambient temperature range -20 °C to +50 °C

Changes to the rated values (torque, speed adjusting range) within the permissible operating range are permissible and are determined by the manufacturer. Permissible continuous current limit, torque and speed adjusting range are specified on the nameplate.

Converter Settings:

Minimum clock frequency:	3 kHz
Short-term current limit:	160 % * In
Maximum overload time:	60 s
Minimum frequency:	5 Hz
Maximum frequency:	60 Hz
Permissible operating time below f_{min}:	60 s

All other settings must be selected according the requirements of the drive.

The maximum overload time and the permissible operating time below f_{min} are based on an interval of 10 minutes.

Rated speed 3000 1/min
-Type S.XE.09SA4-..

Rated data of the motor

Type: **S.XE.09SA4-..** Ignition protection type: Increased Safety
S.XC.09SA4-.. Dust explosion protection - Zone 21

Labelling: **II 2 G Ex e IIC T1 - T3 Gb**
Labelling: **II 2 D Ex tb IIIC T120 °C - T160 °C Db IP6x**

Rated parameters and data of the motor

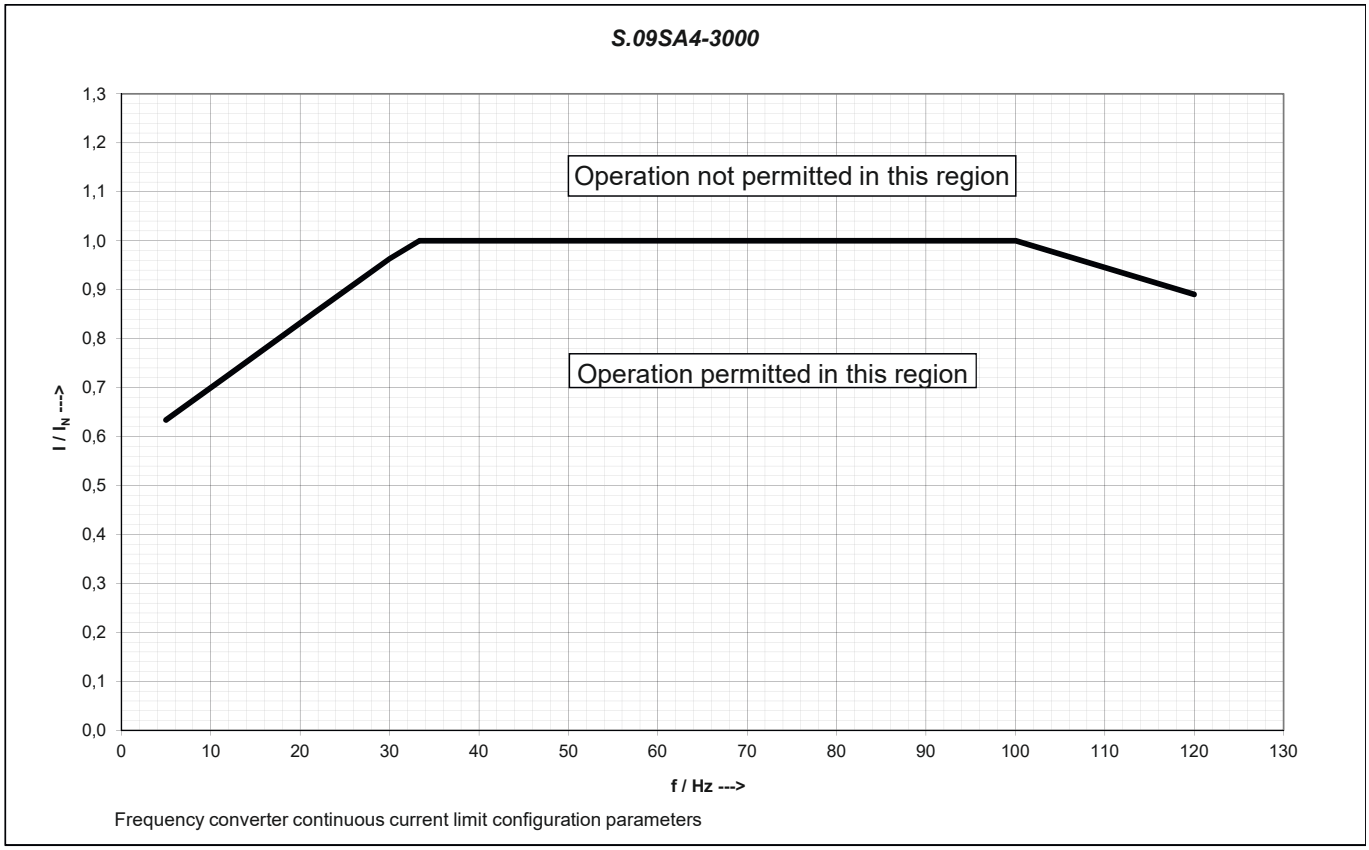
Rated power Pn	6.3	kW
Rated torque Mn	20	Nm
Rated current In	12.5	A
No. of Motor Poles 2p	4	
Rated speed n_n	3000	1/min
Nominal Frequency	100	Hz
Motorcircuit	Wye circuit	
Phase Resistance U-V R20	1.305	Ohm
Strang-Resistance Rs20	0.653	Ohm
Strang-Inductance D-Axis Ld	12.7	mH
Strang-Inductance Q-Axis Lq	17.9	mH
Voltage constant ke	102	V / 1000 1/min
Torque constant kt	1.60	Nm / A
Peak Torque Mmax (60s)	30	Nm
Peak Current Imax (60s)	20	A
Converter supply voltage	380 - 500	V

Data operation with frequency converter

Torque	12.5	15.7	20	20	14.5	Nm
Power	0.196	0.84	2.1	6.3	5.5	kW
Voltage *	26	66	124	334	380	V
Current	8	9.9	12.5	12.5	9.2	A
Frequenz	5	16.66	33.33	100	120	Hz
Speed	150	500	1000	3000	3600	1/min
Duty type	S1					

* Basic oscillation at the motor terminals (output voltage of the frequency converter)

Frequency converter continuous current limit configuration parameters



Frequency converter continuous current limit configuration parameters

The voltage at the motor terminals depends on the input voltage from the frequency converter, the loss of voltage at the filter and in the motor supply cable and may not fall below the rated value by more than 10 % according to IEC 60034 - 1 Range „B“, even with minimum input voltage from the frequency converter. In the event of reduced voltage at the motor terminals, the permissible motor torque must be reduced proportionally to the change in voltage. This must be taken into account when sizing the motor, and the parameterisation of the converter and for the converter minimum input voltage.
The maximum permissible frequency converter input voltage is 500 V +10 %, 50/60 Hz.

Max. permissible ambient temperature range -20 °C to +50 °C

Changes to the rated values (torque, speed adjusting range) within the permissible operating range are permissible and are determined by the manufacturer. Permissible continuous current limit, torque and speed adjusting range are specified on the nameplate.

Converter Settings:

Minimum clock frequency:	3 kHz
Short-term current limit:	160 % * In
Maximum overload time:	60 s
Minimum frequency:	5 Hz
Maximum frequency:	60 Hz
Permissible operating time below f_{min}:	60 s

All other settings must be selected according the requirements of the drive.

The maximum overload time and the permissible operating time below f_{min} are based on an interval of 10 minutes.

Rated speed 3000 1/min
-Type S.XE.09XA4-..

Rated data of the motor

Type: **S.XE.09XA4-..** Ignition protection type: Increased Safety
S.XC.09XA4-.. Dust explosion protection - Zone 21

Labelling: **II 2 G Ex e IIC T1 - T3 Gb**
Labelling: **II 2 D Ex tb IIIC T120 °C - T160 °C Db IP6x**

Rated parameters and data of the motor

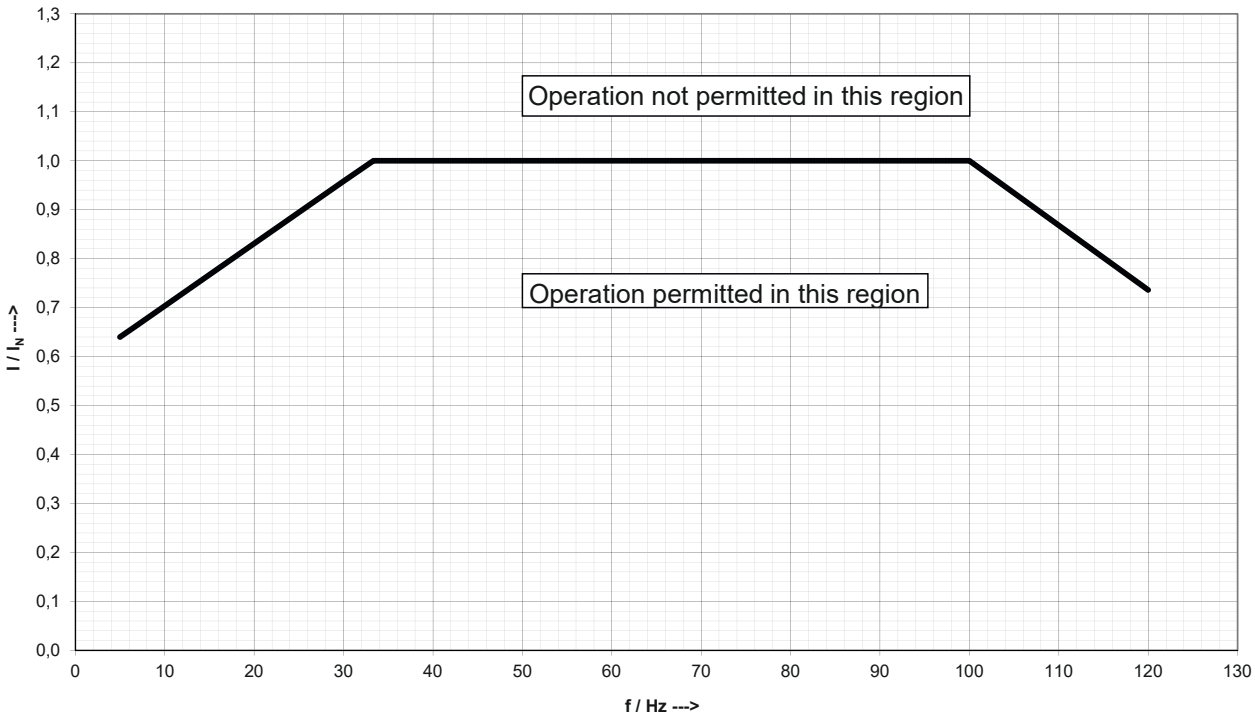
Rated power Pn	6.3	kW
Rated torque Mn	20	Nm
Rated current In	12.5	A
No. of Motor Poles 2p	4	
Rated speed n_n	3000	1/min
Nominal Frequency	100	Hz
Motorcircuit	Wye circuit	
Phase Resistance U-V R20	1.305	Ohm
Strang-Resistance Rs20	0.653	Ohm
Strang-Inductance D-Axis Ld	12.7	mH
Strang-Inductance Q-Axis Lq	17.9	mH
Voltage constant ke	102	V / 1000 1/min
Torque constant kt	1.60	Nm / A
Peak Torque Mmax (60s)	30	Nm
Peak Current Imax (60s)	20	A
Converter supply voltage	380 - 500	V

Data operation with frequency converter

Torque	12.5	15.7	20	20	14.5	Nm
Power	0.196	0.84	2.1	6.3	5.5	kW
Voltage *	26	66	124	334	380	V
Current	8	9.9	12.5	12.5	9.2	A
Frequenz	5	16.66	33.33	100	120	Hz
Speed	150	500	1000	3000	3600	1/min
Duty type	S1					

* Basic oscillation at the motor terminals (output voltage of the frequency converter)

Frequency converter continuous current limit configuration parameters



Frequency converter continuous current limit configuration parameters

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The maximum permissible frequency converter input voltage is 500 V +10 %, 50/60 Hz.

Max. permissible ambient temperature range -20 °C to +50 °C

Changes to the rated values (torque, speed adjusting range) within the permissible operating range are permissible and are determined by the manufacturer. Permissible continuous current limit, torque and speed adjusting range are specified on the nameplate.

Converter Settings:

Minimum clock frequency:	3 kHz
Short-term current limit:	160 % * In
Maximum overload time:	60 s
Minimum frequency:	5 Hz
Maximum frequency:	60 Hz
Permissible operating time below f_{min}:	60 s

All other settings must be selected according the requirements of the drive.

The maximum overload time and the permissible operating time below f_{min} are based on an interval of 10 minutes.

Rated speed 3000 1/min
-Type S.XE.11SA6-..

Rated data of the motor

Type: **S.XE.11SA6-..** Ignition protection type: Increased Safety
S.XC.11SA6-.. Staubexplosionsschutz - Zone 21

Labelling: **II 2 G Ex e IIC T1 - T3 Gb**
Labelling: **II 2 D Ex tb IIIC T120 °C – T160 °C Db IP6x**

Rated parameters and data of the motor

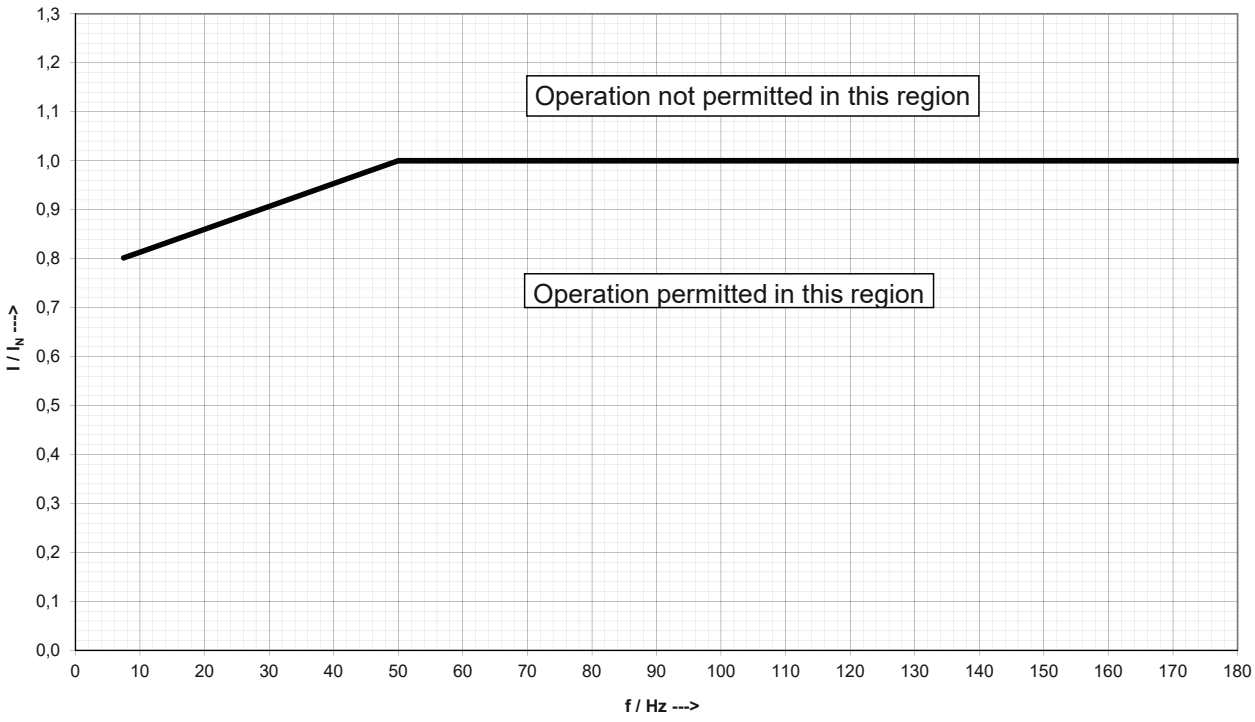
Rated power Pn	7.1	kW
Rated torque Mn	22.5	Nm
Rated current In	15.0	A
No. of Motor Poles 2p	6	
Rated speed n_n	3000	1/min
Nominal Frequency	150	Hz
Motorcircuit	Wye circuit	
Strang-Resistance Rs20	0.447	Ohm
Strang-Inductance D-Axis Ld	5.0	mH
Strang-Inductance Q-Axis Lq	7.7	mH
Voltage constant ke	106	V / 1000 1/min
Torque constant kt	1.55	Nm / A
Peak Torque Mmax (60s)	35	Nm
Peak Current Imax (60s)	23	A
Converter supply voltage	380 - 500	V

Data operation with frequency converter

Torque	18	20	22.5	22.5	22.5	Nm
Power	0.28	1.0	2.4	7.1	8.5	kW
Voltage *	28	66	122	333	368	V
Current	12	13.3	15	15	15	A
Frequenz	7.5	25	50	150	180	Hz
Speed	150	500	1000	3000	3600	1/min
Duty type	S1					

* Basic oscillation at the motor terminals (output voltage of the frequency converter)

Frequency converter continuous current limit configuration parameters



Frequency converter continuous current limit configuration parameters

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The maximum permissible frequency converter input voltage is 500 V +10 %, 50/60 Hz.

Max. permissible ambient temperature range -20 °C to +50 °C

Changes to the rated values (torque, speed adjusting range) within the permissible operating range are permissible and are determined by the manufacturer. Permissible continuous current limit, torque and speed adjusting range are specified on the nameplate.

Converter Settings:

Minimum clock frequency:	3 kHz
Short-term current limit:	160 % * In
Maximum overload time:	60 s
Minimum frequency:	5 Hz
Maximum frequency:	60 Hz
Permissible operating time below f_{min}:	60 s

All other settings must be selected according the requirements of the drive.

The maximum overload time and the permissible operating time below f_{min} are based on an interval of 10 minutes.

Rated speed 3000 1/min
-Type S.XE.11MA6-..

Rated data of the motor

Type: **S.XE.11MA6-..** Ignition protection type: Increased Safety
S.XC.1MA6-.. Dust explosion protection - Zone 21

Labelling: **II 2 G Ex e IIC T1 - T3 Gb**
Labelling: **II 2 D Ex tb IIIC T120 °C – T160 °C Db IP6x**

Rated parameters and data of the motor

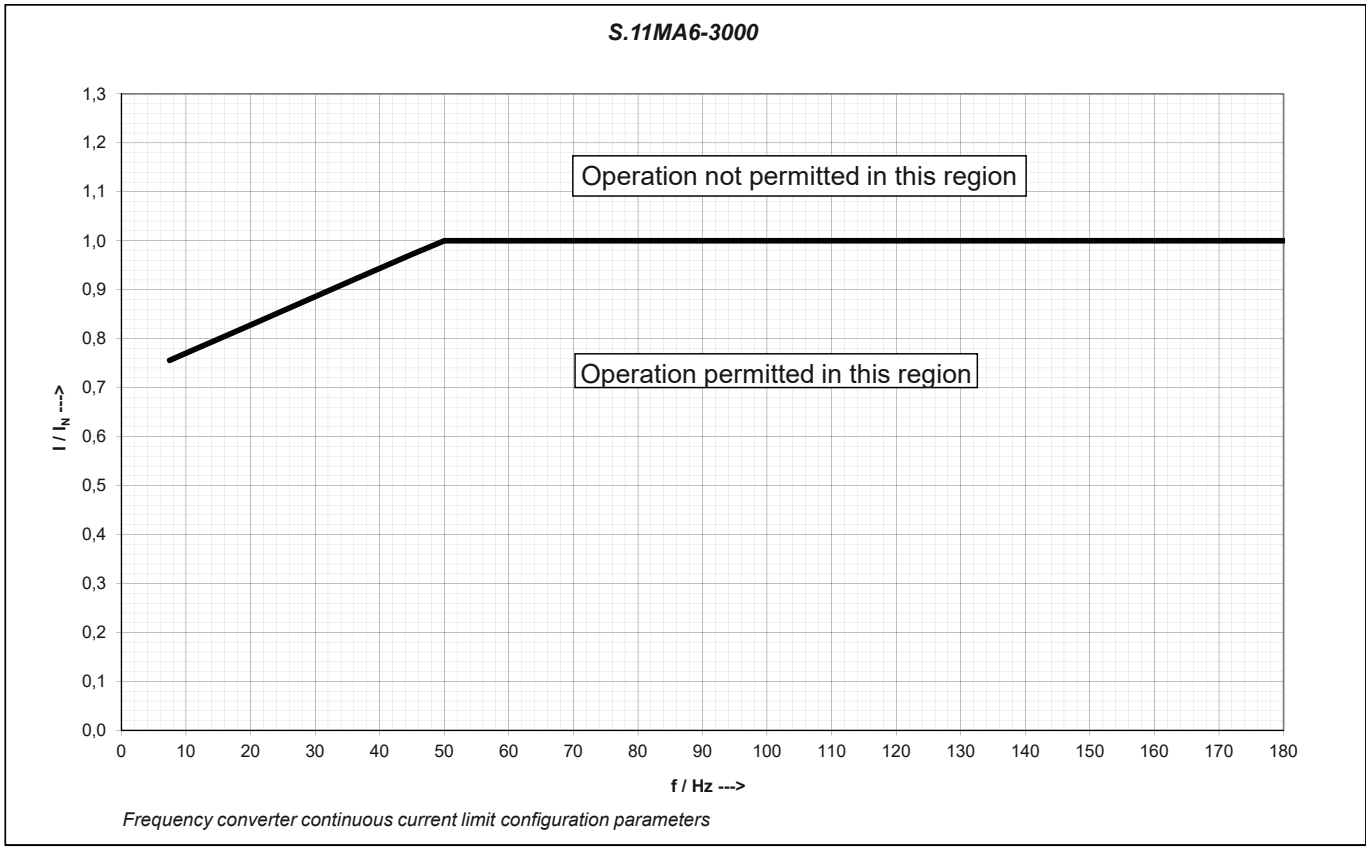
Rated power Pn	11.0	kW
Rated torque Mn	35	Nm
Rated current In	22.5	A
No. of Motor Poles 2p	6	
Rated speed n_n	3000	1/min
Nominal Frequency	150	Hz
Motorcircuit	Wye circuit	
Strang-Resistance Rs20	0.217	Ohm
Strang-Inductance D-Axis Ld	3.0	mH
Strang-Inductance Q-Axis Lq	4.6	mH
Voltage constant ke	104	V / 1000 1/min
Torque constant kt	1.55	Nm / A
Peak Torque Mmax (60s)	55	Nm
Peak Current Imax (60s)	35	A
Converter supply voltage	380 - 500	V

Data operation with frequency converter

Torque	26.5	30	35	35	34.3	Nm
Power	0.42	1.6	3.7	11	12.9	kW
Voltage *	23	61	115	320	368	V
Current	17	19.3	22.5	22.5	22.5	A
Frequenz	7.5	25	50	150	180	Hz
Speed	150	500	1000	3000	3600	1/min
Duty type	S1					

* Basic oscillation at the motor terminals (output voltage of the frequency converter)

Frequency converter continuous current limit configuration parameters



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The maximum permissible frequency converter input voltage is 500 V +10 %, 50/60 Hz.

Max. permissible ambient temperature range -20 °C to +50 °C

Changes to the rated values (torque, speed adjusting range) within the permissible operating range are permissible and are determined by the manufacturer. Permissible continuous current limit, torque and speed adjusting range are specified on the nameplate.

Converter Settings:

Minimum clock frequency:	3 kHz
Short-term current limit:	160 % * In
Maximum overload time:	60 s
Minimum frequency:	5 Hz
Maximum frequency:	60 Hz
Permissible operating time below f_{min}:	60 s

All other settings must be selected according the requirements of the drive.

The maximum overload time and the permissible operating time below f_{min} are based on an interval of 10 minutes.

Rated speed 3000 1/min
-Type S.XE.11LA6-..

Rated data of the motor

Type: **S.XE.11LA6-..** Ignition protection type: Increased Safety
S.XC.11LA6-.. Dust explosion protection - Zone 21

Labelling: **II 2 G Ex e IIC T1 - T3 Gb**
Labelling: **II 2 D Ex tb IIIC T120 °C - T160 °C Db IP6x**

Rated parameters and data of the motor

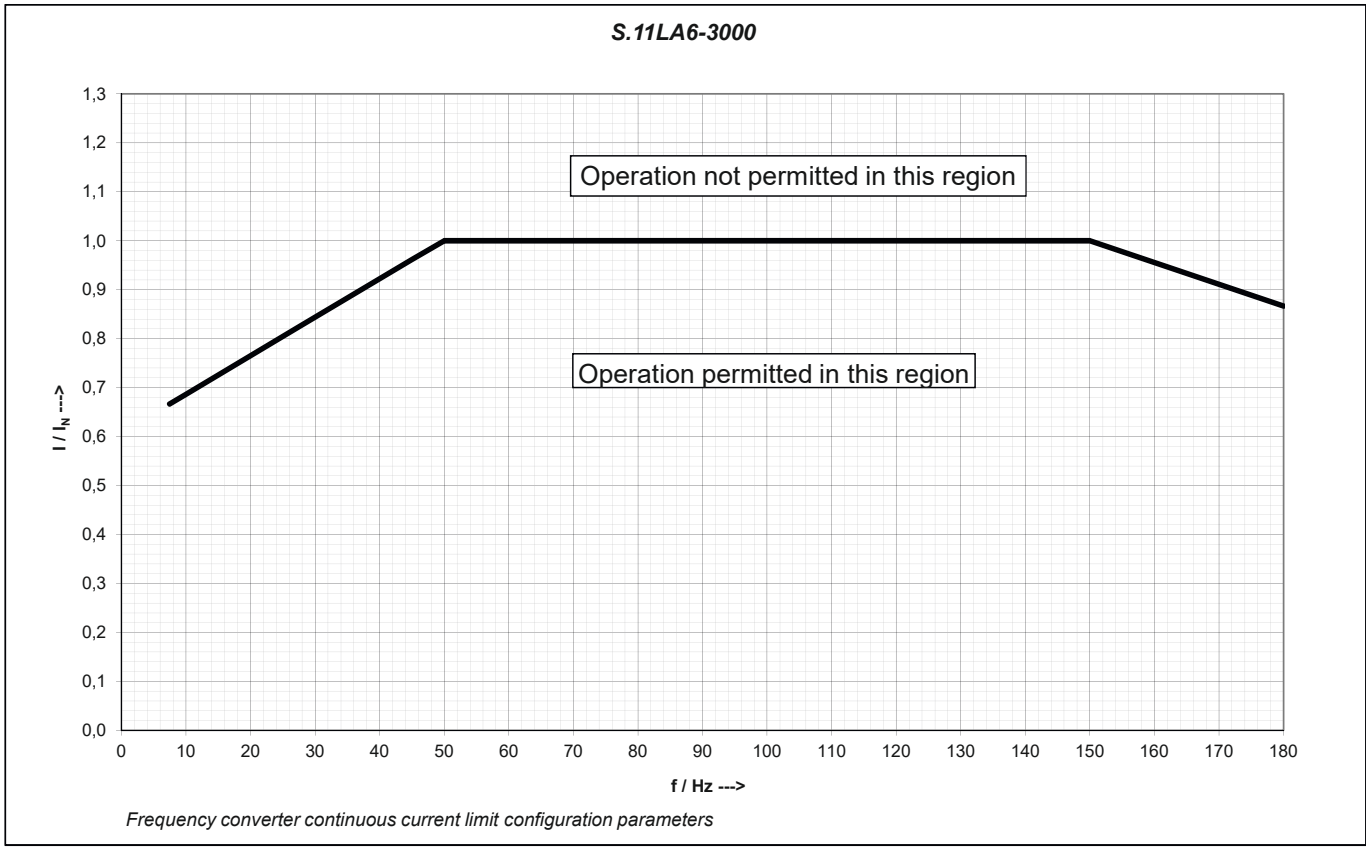
Rated power Pn	15.0	kW
Rated torque Mn	48	Nm
Rated current In	30	A
No. of Motor Poles 2p	6	
Rated speed n_n	3000	1/min
Nominal Frequency	150	Hz
Motorcircuit	Wye circuit	
Strang-Resistance Rs20	0.150	Ohm
Strang-Inductance D-Axis Ld	2.4	mH
Strang-Inductance Q-Axis Lq	3.5	mH
Voltage constant ke	105	V / 1000 1/min
Torque constant kt	1.59	Nm / A
Peak Torque Mmax (60s)	75	Nm
Peak Current Imax (60s)	48	A
Converter supply voltage	380 - 500	V

Data operation with frequency converter

Torque	32.5	39.4	48	48	40	Nm
Power	0.5	2.1	5.0	15.0	15.0	kW
Voltage *	22.6	61.4	116	327	368	V
Current	20	24	30	30	25.8	A
Frequenz	7.5	25	50	150	180	Hz
Speed	150	500	1000	3000	3600	1/min
Duty type	S1					

* Basic oscillation at the motor terminals (output voltage of the frequency converter)

Frequency converter continuous current limit configuration parameters



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The maximum permissible frequency converter input voltage is 500 V +10 %, 50/60 Hz.

Max. permissible ambient temperature range -20 °C to +50 °C

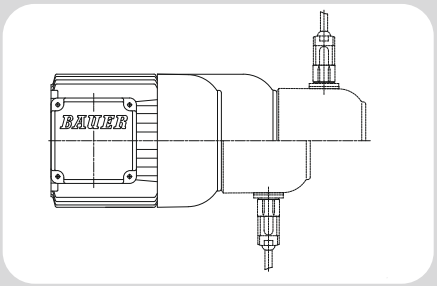
Changes to the rated values (torque, speed adjusting range) within the permissible operating range are permissible and are determined by the manufacturer. Permissible continuous current limit, torque and speed adjusting range are specified on the nameplate.

Converter Settings:

Minimum clock frequency:	3 kHz
Short-term current limit:	160 % * In
Maximum overload time:	60 s
Minimum frequency:	5 Hz
Maximum frequency:	60 Hz
Permissible operating time below f_{min}:	60 s

All other settings must be selected according the requirements of the drive.

The maximum overload time and the permissible operating time below f_{min} are based on an interval of 10 minutes.



15

Motor Mounted Components

Brake **579**
Functional description 579
Product description of type ES(X) spring-actuated brakes 579
Product description of type ZS(X) spring-actuated brakes 580
Brake selection and sizing 581
Electrical connection 584
Specifications of holding brakes with emergency stop capability 587
Specifications of working brakes 588
Connection 590
DC connection via terminals (K) 590
Standard rectifier (S) 591
Rectifier for electronic rapid shutdown (E) 592
Rectifier for overexcitation and rapid shutdown (M) 593
Brake connection, operation with frequency converter 594
Manual release (HA, HN) 594
Second motor shaft extension (ZW, ZV) 595
Protective fan cowl (D) 595
Motor-independent fan (FV) 595
Technical Data Motor-independent fan 595
Encoder system **596**
Shaft encoder (G) 596
Incremental rotary encoder **597**
Functional description 597
Electrical specifications 597
Plug end view with male pin insert 597
Signal assignments 597
SinCos feedback **598**
Functional description 598
Electrical specifications 598
Ansichten auf Steckseite, Stiftkontakteinsatz 598
Terminal assignment 598
Absolute rotary encoders **599**
Functional description 599
Profibus DP interface 599
SSI interface 600
Modular motor system **601**
Motor and encoder 601
Motor, brake and encoder 601
Motor and forced ventilation 601

Functional description

The compression springs act on the anchor disc, which is free to move in the axial direction and presses the brake disc, which is keyed to the rotor shaft, against the friction plate or the motor bearing plate. This produces the braking torque.

When a DC voltage is applied to the coil in the electromagnet housing, it generates a magnetic force that opposes the spring force and causes the anchor disc to be pulled toward the electromagnet enclosure.

This releases the brake disc and disengages the brake.

Brakes are classified into two types according to how they are used: holding brakes and working brakes.

Holding brake ES.. / ZS..
brake that in normal operation does not convert kinetic energy into frictional energy but is only used to hold a mechanism in a particular position, but which can also be used for motion braking in an emergency.

Service brake ESX.. / ZSX..
A brake that converts kinetic energy into frictional energy in normal operation, which means that it brakes mechanical motion.
When a working brake is used as a holding brake, the braking torque tolerance of up to -30 % (in new condition) must be taken into account.

Product description of type ES(X) spring-actuated brakes

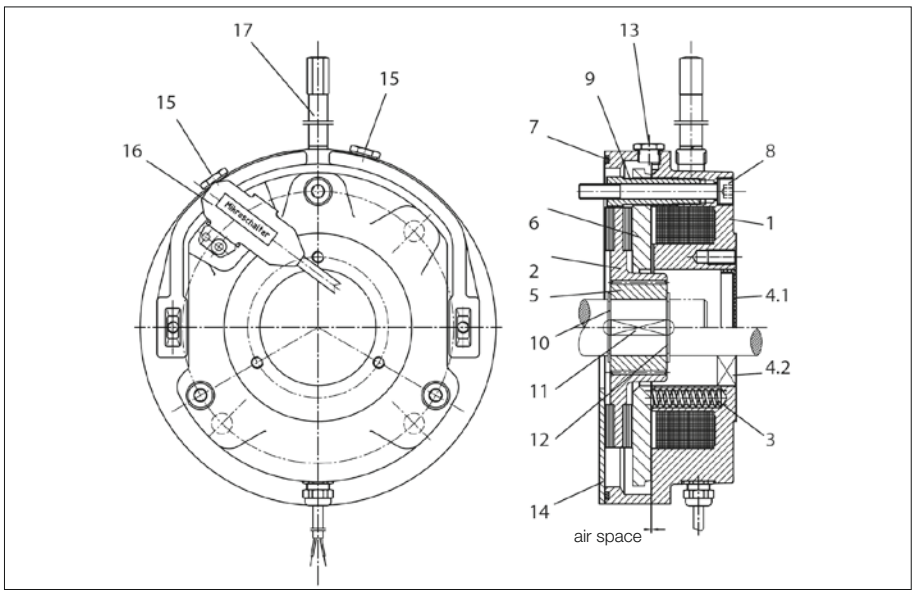


Figure 1: Construction of ES(X) brake

Construction of ES(X) brake

1	Electromagnet housing	9	Hollow screw
2	Brake disc	10	Retaining ring
3	Compression spring	11	Key
4.1	Cover plate with closed brake	12	Retaining ring
4.2	Shaft seal with through shaft	13	Screw plug for checking air gap
5	Drive bush	14	Friction plate (only with motor size Dxx08 or Dxx09)
6	Anchor disc	15	Screw plug for checking microswitch setting
7	O-ring	16	Microswitch (optional)
8	Fitting screw with copper washer	17	Manual release (optional)

Brake mounting
ES and ESX: Brake mounting is under the fan cover
EH and EHX: Brake mounting is on the fan cover

Options
- Manual release, non-locking or locking
- Microswitch for monitoring operation or wear

Product description of type ZS(X) spring-actuated brakes

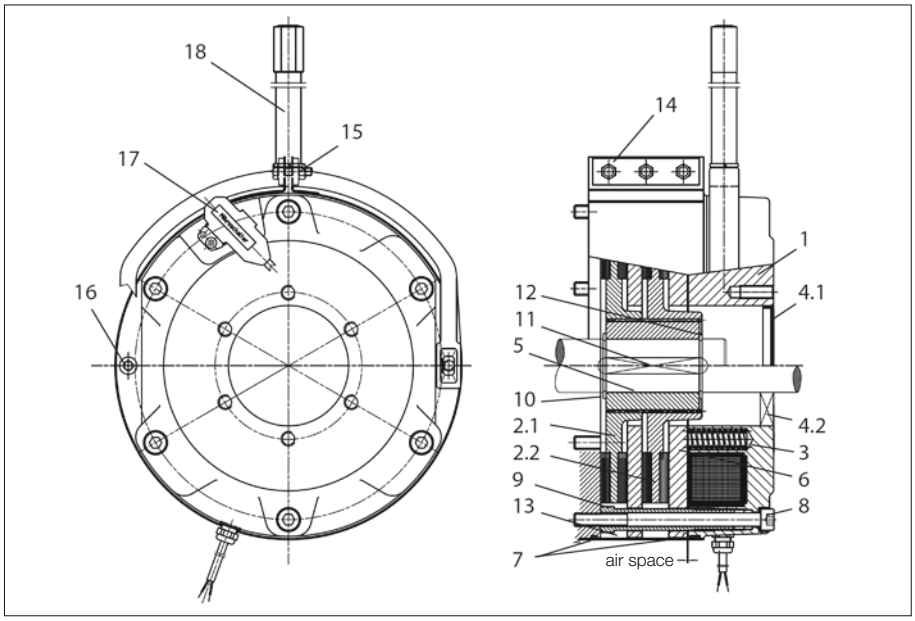


Figure 2: Construction of ZS(X) brake

Construction of ZS(X) brake

1	Electromagnet housing	9	Hollow screw
2.1	Brake disc	10	Retaining ring
2.2	Brake disc	11	Key
3	Compression spring	12	Retaining ring
4.1	Cover plate	13	Cover
4.2	Shaft seal with through shaft	14	Fitting screws
5	Drive bush	15	Bracket
6	Anchor disc	16	Assembly screw/assembly aid
7	O-ring	17	Microswitch (optional)
8	Fitting screw with copper washer	18	Manual release (optional)

Options

- Manual release, non-locking or locking
- Microswitch for monitoring operation or wear

Brake selection and sizing

If the working brake is undersized, it will have increased wear and a shorter lifetime. If it is oversized, the resulting mechanical forces may overload the drive.

If specific application data is not available, in the case of horizontally driven equipment we recommend selecting a braking torque with a safety factor (K) of 1 to 1.5 times the rated torque of the motor.

For braking to standstill, the selected braking torque should be at least 80 % of the rated torque of the drive.

Rated torque:

$$M_{Berf} = \frac{P \times 9550}{n_2} \times K$$

M_{Berf}	Braking torque	[Nm]
P	Motor power	[kW]
n	Rated speed at rotor shaft	[rpm]

For lifting operation, a braking torque equal to twice the rated motor torque should always be chosen for safety reasons.

If the moment of inertia, speed and allowable deceleration time of the machine are known, the braking torque can be calculated as described below.

External moments of inertia

If the masses to be decelerated by the brake do not run at the same speed as the rotor shaft, the moment of inertia (J_{ext}) must be reduced to the value at the rotor shaft

$$J_{ext'} = \frac{J_{ext1} \times n_1^2 + J_{ext2} \times n_2^2 + ... + J_{extn} \times n_n^2}{i^2}$$

or the external moment of inertia reduced by the gear ratio of the gear unit to the value at the rotor shaft.

$$J_{ext'} = \frac{J_{ext}}{i^2}$$

J_{ext}	Total external moment of inertia [kgm²]
$J_{ext'}$	Total external moment of inertia referenced to the rotor shaft [kgm²]
$J_{ext1,2,...}$	Individual external moments of inertia [kgm²]
i	Gear reduction ratio
n	Rotor shaft speed
$n_{1,2}$...	Speeds of the individual moments of inertia [rpm]

Load torque under static load

$$M_L = F \times r$$

M_L	Load torque [Nm]
F	Force [N]
r	radius [m]

Braking torque with dynamic load

A purely dynamic load is present when flywheels, rolls, etc. must be decelerated and the static load torque is negligible.

$$M_a = \frac{J_{ges} \times n_a}{9{,}55 \times (t_a - t_A)} = \frac{(J_{ext.} + J_{rot} + J_{Br}) \times n_a}{9{,}55 \times (t_a - t_A)}$$

J_{br}	Moment of inertia of the brake [kgm²]
J_{rot}	Moment of inertia of the rotor shaft and rotor [kgm²]
M_a	Deceleration torque [Nm]
n_a	Initial speed at start of deceleration [rpm]
t_a	Total deceleration time (from switch-off until drive is stationary) [s]
t_A	The response time of the brake for braking corresponds to t_{AC} or t_{DC} in the specification tables [s]

Dynamic and static loads

In most application situations, both static and dynamic loads are present.

$M_{Berf} = (M_a \pm M_L) \times K$ where $M_{Berf} \leq M_{Br}$ must hold true.

M_L braking (positive) or driving (negative) load torque [Nm]

Heat generated by each brake cycle

Friction converts the kinetic energy of the moving masses into heat.

This amounts to

$$W = \frac{J_{ges} \times n^2}{182{,}5} = \frac{(J_{ext.} + J_{rot} + J_{Br}) \times n_a^{\,2}}{182{,}5}$$ where $W \leq W_{max}$ must hold true.

W	Braking energy for each brake cycle [J]
M_{max}	Maximum permissible frictional energy per brake cycle (see brake tables)

Thermally allowable braking energy of working brakes

With a uniform sequence of brake cycles, which means a certain average number of brake cycles per hour, the temperature rises until an equilibrium between heat input and heat dissipation is reached. The temperature rise must be sized to avoid overheating the coil and the friction layer, taking the ambient temperature into account.

Braking to standstill:

$$W_Z = W \times Z \leq W_{th}$$

W_{th} Maximum allowable braking energy per hour
W_Z Braking energy with Z brake cycles
Z Number of brake cycles per hour

Lifting operation

In lowering operation, the drive motor acts as a generator and its braking effect results in a steady downward motion (constant speed). If we ignore transmission losses, under full load the drive must brake the load with the rated motor torque. If a mechanical brake with a braking torque equal to the braking torque of the motor is applied after the drive is switched off, the downward motion will continue at the same speed. This means that additional braking torque is necessary to stop the motion of the load. For example, if the brake is dimensioned for 200 % braking torque, approximately 100 % is used for “static” deceleration and the rest is used for “dynamic” deceleration.
If part of the braking torque is required for braking the load during lowering (downward motion), the brake engagement time is greater, and the thermal load is therefore greater.

In this case

$$W_H = \frac{M_{Br}}{M_{Br} - M_L} \times W_Z$$

W_H Friction energy per hour in lifting operation
M_{Br} Braking torque of the brake

Brake lifetime

The energy absorbed during braking causes the brake disc to wear, which increases the air gap. If the air gap increases beyond a certain maximum gap size, the magnetic field is so weak that the pulling force of the electromagnet is no longer sufficient to release the brake. A proper air gap must be restored by adjusting the air gap or by replacing the brake disc, depending on the type of brake construction.

The maximum number of brake cycles until service is necessary can be calculated as follows:

$$Z_L = \frac{W_L}{W}$$

Z_L Number of brake cycles until the air gap limit is reached
W_L Maximum allowable braking energy until maintenance; i.e. replacing the brake disc or adjusting the air gap. Adjustment of the air gap is possible only with type ZXSxx brakes.

Deceleration time
The pure braking time from the start of mechanical braking to standstill depends on the braking deceleration.
Especially with lifting operation, but also in other types of operation, it is necessary to check whether the load torque reinforces the braking effect or counters the braking effect.

The deceleration time is therefore calculated as follows:

$$t_a = \frac{J_{ges} \times n_a}{9{,}55 \times (M_{Br} \pm M_L)}$$

Electrical connection

General

There are two basic options for providing the supply voltage for the DC electromagnet:

1. Externally from an existing DC control voltage mains or a rectifier in the cabinet.
2. From a rectifier built into the motor or brake terminal box. In this case, the rectifier can be powered either directly from the motor terminal board or from the mains.

Note that in the following cases the rectifier is not allowed to be connected to the terminal board of the motor:

- Pole-changing motors and motors with wide operating voltage range
- Operation from a frequency converter
- Other configurations in which the motor voltage is not constant, such as operation with soft-start devices, start-up transformers, etc.

Release

When the rated voltage is applied to the electromagnet coil, the current through the coils increases exponentially and with it the generated magnetic field. The current must rise to a certain value ($I_{release}$) before it overcomes the spring force and starts to release the brake.

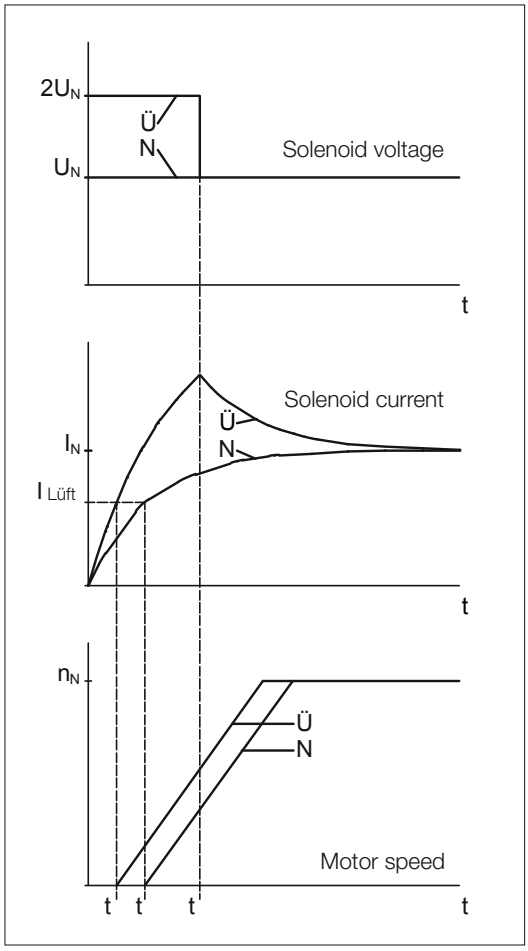


Figure 3: Idealised curves of coil voltage, coil current and motor speed with normal excitation (N) and overexcitation (Ü). $t_{Ü}$: overexcitation time; t_{AN}, $t_{AÜ}$: Response time with normal excitation and overexcitation.

Two different situations can arise during the response time tA, assuming that the voltage is applied to the motor and the brake simultaneously:

- The motor is locked if $M_A < M_L + M_{Br}$
  The motor draws its locked-rotor current, which increases the thermal load on the motor. This situation is illustrated in Figure 3.
- The brake slips if $M_A > M_L + M_{Br}$
  In this case, the brake is also thermally stressed during start-up and wears faster.
-

M_A: locked rotor torque of the motor; M_L: load torque; M_{Br}: braking torque

As can be seen, there is an additional load on the motor and brake in both cases. The effect of the response time increases with increasing brake size. Consequently, it is advisable to reduce the response time, especially with medium-sized and large brakes and with a high cycle rate. This can be achieved relatively easily by means of electrical overexcitation. With this approach, the coil is briefly operated at twice its rated voltage after switch-on.

This causes the current to rise faster than with normal excitation, and it reduces the response time by approximately 50 %. This overexcitation function is built into the type MSG special rectifier.

The release current increases with increasing air gap, and with it the response time. When the release current exceeds the rated coil current, the brake will not be released with normal excitation and the brake has reached its wear limit.

Braking
The brake does not start generating braking torque immediately after the coil voltage is switched off. First the magnetic energy must decline to the point that the spring force can overcome the magnetic force. This occurs at the holding current I_{hold}, which is lower than the release current.
The response time depends on how the voltage is switched off.

Switching off the AC supply voltage to a type SG standard rectifier

a) Rectifier powered from the motor terminal board (Figure 4, curve 1)
Response time t_{A1}: very long

Cause: Due to the residual magnetism of the motor, after the motor voltage is switched off a slowly decaying voltage is induced, and it continues to supply power to the rectifier and thereby to the brake. In addition, the magnetic energy of the brake coil is dissipated relatively slowly in the freewheel circuit of the rectifier.

b) Rectifier powered separately (Figure 4, curve 2)
Response time t_{A2}: long

Cause: After the rectifier voltage is switched off, the magnetic energy of the brake coil is dissipated relatively slowly in the freewheel circuit of the rectifier.

If the supply voltage is interrupted on the AC side, no significant switch-off voltage occurs on the electromagnet coil.

Interrupting the DC circuit of the electromagnet coil (Figure 4, curve 3)

a) By a mechanical switch
- with separate power supply from a DC control voltage mains or
- at the DC switch contacts (A2 and A3) of the type SG standard rectifier
Response time t_{A3}: very short

Cause: The magnetic energy of the brake coil is dissipated very quickly by arcing across the switch contacts.

b) Electronic

Using a type ESG or MSG special rectifier
Response time t_{A3}: short

Cause: The magnetic energy of the brake coil is dissipated quickly by a varistor integrated in the rectifier.

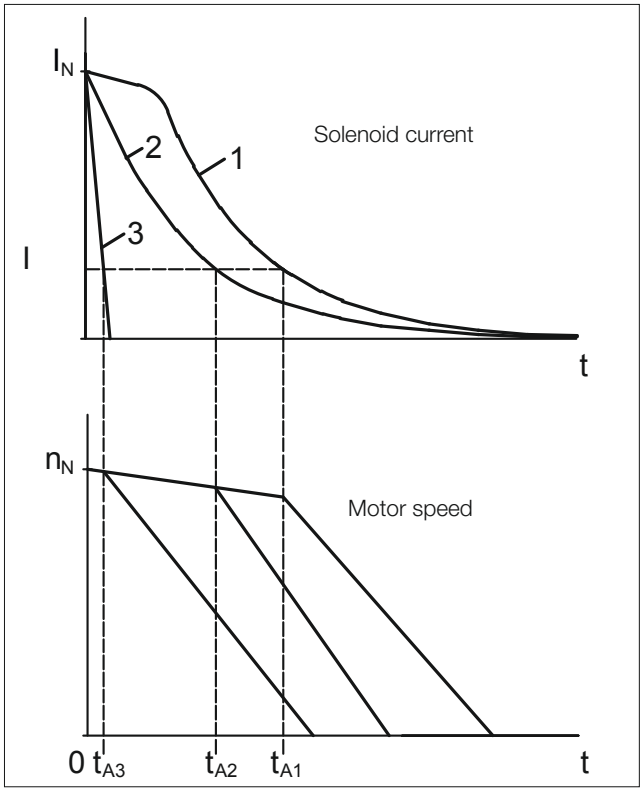


Figure 4: Idealised coil current and motor speed curves after switching off power on the AC side (1 and 2) or DC side (3)

If the circuit is interrupted on the DC side, a high voltage u_q is induce by the electromagnet coil. The magnitude of this voltage depends on the inductance L of the coil and the switch-off speed di/dt according to the formula

$$u_q = L \cdot \frac{di}{dt}$$

Due to the winding design, the inductance L increases with increasing rated coil voltage. Consequently, the voltage spikes induced at switch-off can reach hazardous levels with relatively high coil voltages. For this reason, a varistor is included in the circuit for all brakes with voltages greater than 24 V.

This varistor is solely intended to protect the electromagnet coil; it is not intended to protect adjacent electronic components or devices against electromagnetic interference. On request, brakes with rated voltages of 24 V or less can also be fitted with a varistor.
If the circuit is interrupted on the DC side by a mechanical switch, the resulting arcing over the switch contacts causes strong erosion of the contacts. For this reason, only special DC contactors or adapted AC contactors with contacts rated for use class AC3 as specified in EN 60947-4-1 may be used.

Specifications of holding brakes with emergency stop capability

The maximum allowable friction energy values stated here do not apply to brake motors for use in areas with potentially explosive atmospheres. Refer to separate data in appropriate documents for explosion-proof drives.

Type	M_{Br} [Nm]	W_{max} [10^3 J]	W_{th} [10^3 J]	W_L [10^6 J]	t_A [ms]	t_{AC} [ms]	t_{DC} [ms]	P_{el} [W]	J [10^{-3} kgm²]
E003B9	3	1.5	-	-	35	150	15	20	0.01
E003B7	2.2	1.8	-	-	28	210	20		
E003B4	1.5	2.1	-	-	21	275	30		
E004B9	5	2.5	-	-	37	125	15	30	0.017
E004B8	4	3	-	-	30	160	18		
E004B6	2.8	3.6	-	-	23	230	26		
E004B4	2	4.1	-	-	18	290	37		
E004B2	1.4	4.8	-	-	15	340	47		
ES/EH010AX	15*	3	-	-	110	-	30	35	0.045
ES/EH010A9	10	3	-	-	60	100	15		
ES/EH010A8	8	3	-	-	55	150	20		
ES/EH010A5	5	3	-	-	45	220	20		
ES/EH010A4	4	3	-	-	30	250	20		
ES/EH010A2	2.5	3	-	-	25	350	25		
ES027AX	32*	2.5	-	-	80	-	30	50	0.172
ES/EH027A9	27	2.5	-	-	120	100	15		
ES/EH027A7	20	2.5	-	-	100	130	20		
ES/EH027A6	16	2.5	-	-	80	170	25		
ES/EH040A9	40	3.5	-	-	100	100	20	65	0.45
ES/EH040A8	34	3.5	-	-	80	200	25		
ES/EH040A7	27	3.5	-	-	70	250	30		
ES/EH070AX	90*	3.5	-	-	120	-	40	85	0.86
ES/EH070A9	70	3.5	-	-	120	150	18		
ES/EH070A8	63	3.5	-	-	120	200	20		
ES/EH070A7	50	3.5	-	-	90	220	25		
ES/EH125A9	125	4.5	-	-	170	220	25	105	1.22
ES/EH125A8	105	4.5	-	-	150	320	28		
ES/EH125A7	85	4.5	-	-	135	350	30		
ES/EH125A6	70	4.5	-	-	120	440	35		
ES125A5	57	4.5	-	-	100	600	40		
ES125A3	42	4.5	-	-	90	700	45		
ES/EH200A9**	200	8	-	-	400	150	22	105	2.85
ES/EH200A8**	150	8	-	-	280	250	35		
ES/EH200A7**	140	8	-	-	200	320	35		
ES250A9**	250	9	-	-	300	500	45	135	6.65
ES250A8**	200	9	-	-	200	960	60		
ES250A6**	150	9	-	-	160	1100	60		
ES250A5**	125	9	-	-	150	1500	90		
ES250A4**	105	9	-	-	130	1800	110		
ZS300A9**	300	8	-	-	280	220	35	75	5.7
ZS300A8**	250	8	-	-	210	380	45		
EH400A9**	400	10	-	-	300	600	60	180	19.5
EH400A7**	300	10	-	-	200	850	75		
EH400A5**	200	10	-	-	150	1400	85		
ZS500A9**	500	9	-	-	320	320	50	100	13.3
ZS500A8**	400	9	-	-	260	600	60		

* Requires overexcitation; permissible only with MSG rectifier
** Cannot be combined with PMSM motors of the S series

Braking torque tolerance: -10 / +30 %

W_{th} and WL are not specified because little or no braking energy is dissipated by holding brakes when they are used as intended.

For versions with braking torque marked with *, which may only be used with an MSG rectifier, the values of t_A and t_{DC} apply to operation with an MSG rectifier; i.e. t_A for overexcitation or t_{DC} for electronic circuit interruption on the DC side.

Due to the effects of operating temperature and manufacturing tolerances, actual response times may differ from the guideline values listed here.

Specifications of working brakes

The maximum braking energy values stated here do not apply to brake motors for use in areas with potentially explosive atmospheres.
Refer to separate data in appropriate documents for explosion-proof drives.

Type	M_{Br} [Nm]	W_{max} [10^3 J]	W_{th} [10^3 J]	W_L [10^6 J]		t_A [ms]	t_{AC} [ms]	t_{DC} [ms]	P_{el} [W]	J [10^{-3} kgm^2]
				without HL***	with HL***					
E003B9	3	1.5	36	55	55	35	150	15	20	0.01
E003B7	2.2	1.8	36	90	90	28	210	20		
E003B4	1.5	2.1	36	140	140	21	275	30		
E004B9	5	2.5	60	50	50	37	125	15	30	0.017
E004B8	4	3	60	100	100	30	160	18		
E004B6	2.8	3.6	60	180	180	23	230	26		
E004B4	2	4.1	60	235	235	18	290	37		
E004B2	1.4	4.8	60	310	310	15	340	47		
ESX/EHX010AX	15*	3	250	120	120	110	-	30	35	0.045
ESX/EHX010A9	10	3	250	120	120	60	100	15		
ESX/EHX010A8	8	3	250	150	150	55	150	20		
ESX/EHX010A5	5	3	250	240	240	45	220	20		
ESX/EHX010A4	4	3	250	300	240	30	250	20		
ESX/EHX010A2	2.5	3	250	390	240	25	350	25		
ESX027AX	27*	10	350	150	150	80	-	30	50	0.172
ESX/EHX027A9	22	10	350	150	150	120	100	15		
ESX/EHX027A7	16	10	350	300	300	100	130	20		
ESX/EHX027A6	13	10	350	350	350	80	170	25		
ESX/EHX040A9	32	20	450	420	420	100	100	20	65	0.45
ESX/EHX040A8	27	20	450	560	490	80	200	25		
ESX/EHX040A7	22	20	450	700	490	70	250	30		
ESX/EHX070AX	72*	28	550	700	700	120	-	40	85	0.86
ESX/EHX070A9	58	28	550	500	500	120	150	18		
ESX/EHX070A8	50	28	550	800	700	120	200	20		
ESX/EHX070A7	40	28	550	1200	700	90	220	25		
ESX/EHX125AX	100*	40	700	1900	1900	100	-	70	105	1.22
ESX/EHX125A9	85	40	700	1700	1700	150	320	28		
ESX/EHX125A8	70	40	700	1900	1700	135	350	30		
ESX/EHX125A7	58	40	700	2700	1700	120	440	35		
ESX125A5	45	40	700	3300	1700	100	600	40		
ESX125A3	34	40	700	3300	1700	90	700	45		
ESX/EHX200AX**	160*	60	850	2000	2000	105	-	70	105	2.85
ESX/EHX200A9**	120	60	850	1700	1700	280	250	35		
ESX/EHX200A8**	110	60	850	2600	2600	200	320	35		
ESX250A9**	200	84	1000	2800	2800	300	500	45	135	6.65
ESX250A8**	160	84	1000	6800	5700	200	960	60		
ESX250A6**	120	84	1000	8500	5700	160	1100	60		
ESX250A5**	100	84	1000	11000	5700	150	1500	90		
ESX250A4**	85	84	1000	11000	5700	130	1800	110		
ZSX300A9**	250	60	850	1300	1300	280	220	35	75	5.7
ZSX300A8**	200	60	850	2000	2000	210	380	45		
EHX400A9**	320	120	1100	3000	3000	300	600	60	180	19.5
EHX400A7**	240	120	1100	4800	4800	200	850	75		
EHX400A5**	160	120	1100	6000	4800	150	1400	85		
ZSX500A9**	400	84	1000	2800	2800	320	320	50	100	13.3
ZSX500A8**	320	84	1000	4000	4000	260	600	60		

* Requires overexcitation; permissible only with MSG rectifier
** Cannot be combined with PMSM motors of the S series
*** HL = manual release

Braking torque tolerance:
E003 / E004: -10 / +30 %
ESXxx / ZSXxx: -20 / +30 % after run-in; up to -30 % in new condition.

For versions with braking torque marked with *, which may only be used with an MSG rectifier, the values of t_A and t_{DC} apply for operation with an MSG rectifier; i.e. t_A for overexcitation or t_{DC} for electronic circuit interruption on the DC side.

The values for W_L are guidelines; actual values may vary significantly depending on the application situation. Periodic inspection of the air gap or brake disc thickness is recommended.

Actual response times may differ from the times listed here due to the effects of operating temperature, brake disc wear and manufacturing tolerances.

Key to symbols

M_{Br}	Rated braking torque
W_{max}	Maximum allowable friction energy for an emergency stop with a holding brake
W_{max}	Maximum allowable friction energy for each brake cycle with working brakes
W_{th}	Maximum allowable braking energy per hour
W_L	Maximum allowable braking energy until maintenance; i.e. brake disc replacement or air gap adjustment. Air gap adjustment is possible only with type ZSXxx brakes.
H_L	Manual release
t_A	Response time for release with normal excitation. Overexcitation with a type MSG special rectifier reduces the response time by approximately 50 %.
t_{AC}	Response time for brakes with AC-side switch-off, i.e. by switching off the supply voltage to a separately powered standard rectifier. If the supply voltage for the rectifier is taken from the motor terminals, considerably longer response times should be expected (depending on the motor size and winding design).
t_{DC}	Response time for braking with DC-side circuit interruption by a mechanical switch. In the case of electronic circuit interruption on the DC side by a type ESG or MSG special rectifier, the response times will be approximately two to three times as long.
P_{el}	Electromagnet coil power consumption at 20 °C. Depending on the rated voltage of the coil, the actual power may differ from the guideline value stated here.
J	Moment of inertia of the drive bush and brake disc(s)

Connection

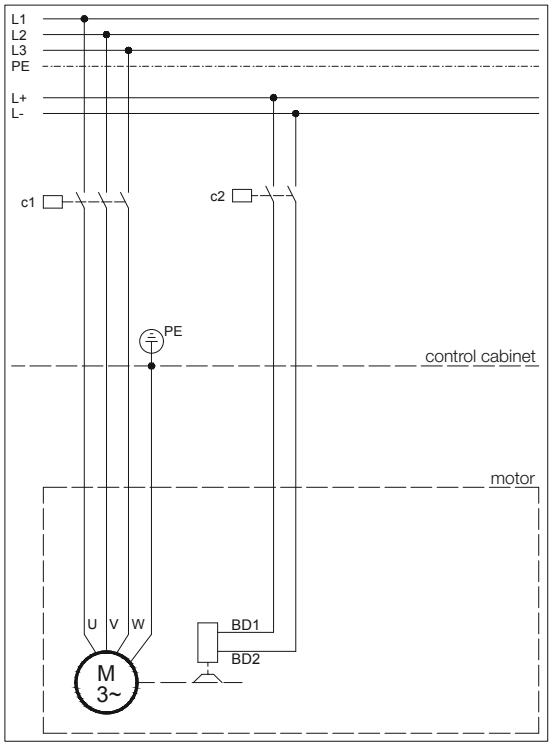
The electrical connections to the brake are made in the motor terminal box using terminals or the rectifier. Standard voltages:

380–420 V 50/60 Hz (brake coil voltage 180 V DC)
220–230 V 50/60 Hz (brake coil voltage 105 V DC)
24 V DC (brake coil voltage 24 V DC)

Other voltages are available at additional cost.

DC connection via terminals (K)

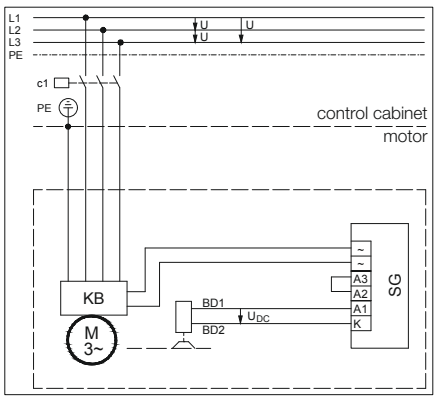
The brake must be connected via separate terminals in the motor or brake terminal box directly to the DC voltage. The standard voltages are 180 V DC, 105 V DC and 24 V DC. Brakes with other operating voltages are available at additional cost.

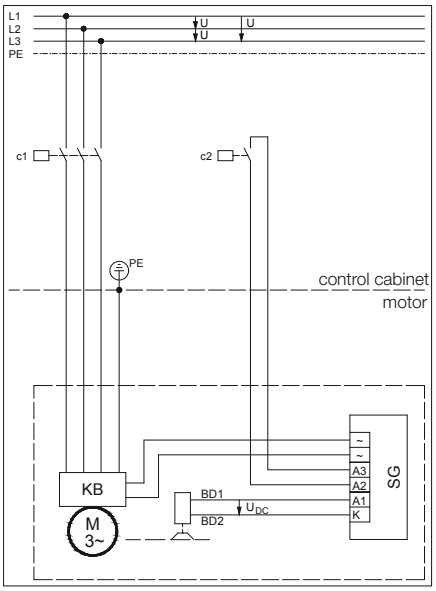


Standard rectifier (S)

Working principle	Half-wave rectifier with switch contacts for DC-side circuit interruption
Input voltage U_1	max. 575 VAC +5 %
Output voltage	0.45 x U_1 VDC
Max. output current	2.5 A DC
Ambient temperature	-40 to +40 °C
Connection	Caged Clamp terminals with clamp lever
Clampable conductor cross-section	max. 1.5 mm² without wire end sleeve max. 1.5 mm² with wire end sleeve
Approvals	c-CSA-us c-UL-us (only in combination with B2000 geared motors and brakes in the ES(X) or ZS(X) product series

The brake must be connected to the AC supply via the standard rectifier in the motor terminal box or brake terminal box. The standard voltages are 380 ... 420 V 50/60 Hz or 220 ... 230 V 50/60 Hz. Other voltages up to 575 V are available at extra cost. In a configuration with standard rectifier, the brake circuit can be interrupted by an extra contact on the d.c. side in order to reduce the response time. This significantly reduces the braking time and overtravel distance.



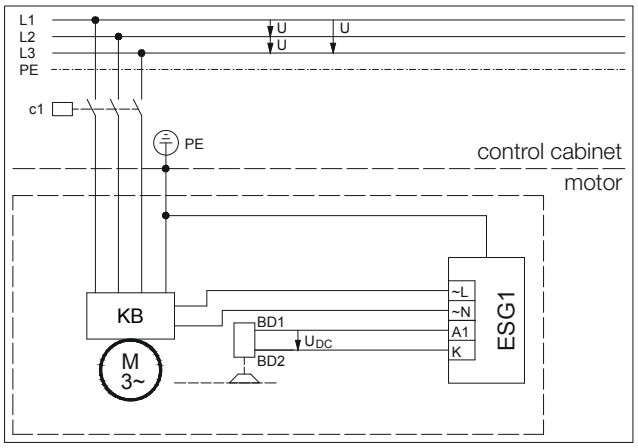


Voltage connection for the rectifier from the motor terminal block or cage clamp (see Rectifier Connection on Motor Terminal Block or Cage Clamp)

Rectifier for electronic rapid shutdown (E)

Working principle	Half-wave rectifier with electronic DC-side circuit interruption
Input voltage U_1	220–460 V AC ±5 %, 50/60 Hz
Output voltage	0.45 x U_1 V DC
Max. output current	1 A DC
Ambient temperature	-20 °C to +40 °C
Clampable conductor cross-section	max. 1.5 mm²

This rectifier permits electronic DC-side interruption of the brake circuit. No additional cable to the rectifier is necessary. The rectifier is supplied complete with a protective resistor which prevents a mains short- circuit via the shutdown arc of the high-speed motor contactor. Brake response times are significantly shorter than those achievable by AC-side interruption of the brake circuit. They are, however, longer than those achievable with DC-side interruption by a mechanical switch. The brake must be connected to the alternating current via the rapid shutdown rectifier in the motor terminal box or the brake terminal box. The standard voltages are 380 ... 420 V 50/60 Hz or 220 ... 230 V 50/60 Hz. Other voltages up to 460 V are available at extra cost.



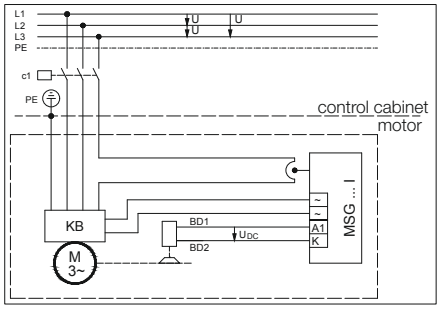
Voltage connection for the rectifier from the motor terminal block or cage clamp (see Rectifier Connection on Motor Terminal Block or Cage Clamp)

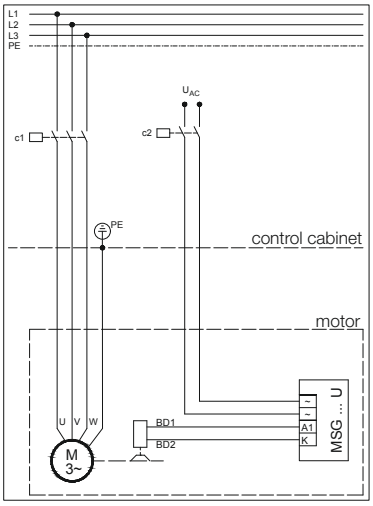
Rectifier for overexcitation and rapid shutdown (M)

Working principle	MSG 1.5.480I Half-wave rectifier with time-limited overexcitation and electronic DC-side circuit interruption Fast shutdown due to no motor current in one phase
Input voltage U_1	220–480 V AC +6 / -10 %, 50/60 Hz
Output voltage	0.9 x U_1 V DC during overexcitation 0.45 x U_1 V DC over overexcitation period
Overexcitation time	0.3 s
Max. output current	1.5 A DC
Ambient temperature	-20 °C to +40 °C
Clampable conductor cross-section	max. 1.5 mm^2

Working principle	MSG 1.5.500U Half-wave rectifier with time-limed overexcitation and electronic DC-side circuit interruption Fast shutdown due to the absence of input voltage
Input voltage U_1	220–500 V AC ±10 %, 50/60 Hz
Output voltage	0.9 x U_1 V DC during overexcitation 0.45 x U_1 V DC over overexcitation period
Overexcitation time	0.3 s
Max. output current	1.5 A DC
Ambient temperature	-20 °C to +40 °C
Clampable conductor cross-section	max. 1.5 mm^2

In cases where there are high motor switching frequencies, the brake can be de-energised more rapidly with this rectifier thereby significantly reducing the thermal stress on the motor. In addition, interrupting the brake‘s DC circuit by electronic means significantly reduces response times. Depending on the circumstances in which they are to be used, either the MSG 1.5.500 U (rapid shutdown brought about by removed supply voltage) or MSG 1.5.480 I (rapid shutdown brought about by removed motor current in a phase) is used. Power supply 220 to 480 V AC.





15

Brake connection, operation with frequency converter

The voltage present at the motor terminal block when operating with a frequency converter is frequency-dependent. Brakes require a constant voltage, so they need a seperate electrical connection. This is the reason why the brake is not connected to the motor terminals ex-works.

Manual release (HA, HN)

All brakes are available with mechanical manual release on request. Non-latching manual release is the standard version (HN). A latching manual release (HA) can be supplied if required for all brake sizes.

Second motor shaft extension (ZW, ZV)

The motors are also available on request with a second motor shaft extension in design ZW (shaft with key) or ZV (shaft with square end).

Half the central motor‘s rated power is available at each of the two shafts. Permissible radial loads available on request. Guards are not included in the scope of supply (for dimensional drawing see chapter 17).

Motors with brakes are available on request with a second shaft stub extended through the brake.

Protective fan cowl (D)

A protective hood over the fan cowl is recommended for outdoor installations where the motor is pointing upward and subject to severe or prolonged exposure to water (dimensional drawing, see chapter 17).

A special fan cowl for the textiles industry is available on request at extra cost. This design prevents airborne fibres and fluff clogging the fan cowl.

Motor-independent fan (FV)

For special applications, standard motors and brake motors of size S08 and larger are available with externally mounted motor-independent fans. The standard line voltage of the motor-independent fan matches the voltage of the geared motor (dimensional drawing for motor-independent fan, see chapter 17).

Technical Data:
Multivolt Conception Running capacitor for single phase duty enclosed as standard.

Technical Data Motor-independent fan

Mode	Frame size	Blower Diameter [mm]	Range of voltage [V]		max. permissible current [A]		max. power input [W]	
			50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
1 ~ ⊥ (Δ)	63	118	230-277	230-277	0.18	0.21	46	54
	71	132	230-277	230-277	0.18	0.21	48	56
	80	150	230-277	230-277	0.19	0.22	48	59
	90	169	220-277	220-277	0.29	0.23	59	61
	100	187	220-277	220-277	0.29	0.28	62	73
	112	210	220-277	220-277	0.27	0.36	64	88
	132	250	230-277	230-277	0.52	0.61	125	163
	160-200	300	230-277	230-277	1.05	1.52	246	390
3 ~ Y	63	118	346-525	380-575	0.09	0.08	28	29
	71	132	346-525	380-575	0.09	0.07	29	28
	80	150	346-525	380-575	0.09	0.07	33	36
	90	169	346-525	380-575	0.22	0.18	78	71
	100	187	346-525	380-575	0.21	0.18	80	80
	112	210	346-525	380-575	0.2	0.17	87	93
	132	250	346-525	380-575	0.37	0.32	160	180
	160-200	300	346-525	380-575	0.74	0.62	314	391
3 ~ Δ	63	118	200-303	220-332	0.15	0.14	28	29
	71	132	200-303	220-332	0.15	0.13	29	28
	80	150	200-303	220-332	0.16	0.13	33	36
	90	169	200-303	220-332	0.39	0.32	78	71
	100	187	200-303	220-332	0.37	0.3	80	80
	112	210	200-303	220-332	0.35	0.29	87	93
	132	250	200-303	220-332	0.64	0.55	160	180
	160-200	300	200-303	220-332	1.28	1.08	314	391

Shaft encoder (G)

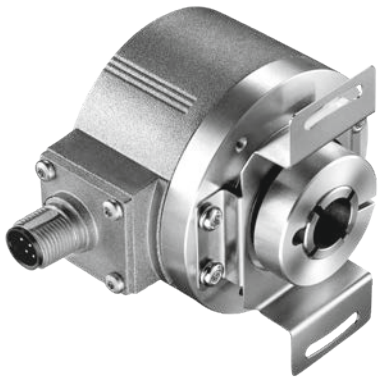
Bauer gear motors can be fitted with either an incremental encoder or an absolute encoder for special applications. Both the standard incremental encoder and the absolute encoder are optimised and suitable for use with all modern inverters.

Bauer standard encoders as from motor frame size S..05.. (0,18 kW) are protected against mechanical damage by means of a protective cover (Additional Dimension Sheet see chapter 16).

Special features: standard incremental encoder:
- Robust mount
- EMC-tested
- Protected against polarity reversal
- Supply voltage 8-30 V DC
- A-, B- and N-lines and inverted signals or output signals as preferred
- HTL output circuit (TTL on request)
- 1024 pulses per revolution

Special features: standard absolute encoder
- Steps per revolution: 8192 (13 Bit)
- Number of turns: 4096 (12 Bit) shaft turns
- Execution of electronic: SSI (Synchronous-Serial Interface)
- Output code: Gray-Code
- Supply voltage: 11-27 V DC
- Loss efficiency (no load): ≤ 3 Watt
- Output driver: RS-422 (2-wire)

Functional description



Incremental encoders are used to determine motor shaft positions. An incremental encoder detects rotary motion and coverts it into an electrical output signal. An encoder disc with a specific number of periods per rotation senses angular motion. The optoelectronic scanning unit generates signals and issues pulses after the signals have been processed in trigger stages. The resolution is defined by the number of opaque and clear segments on the encoder disc. For example, an encoder with 1024 lines will generate a sequence of 1024 pulses for one full rotation.

The combination of an incremental encoder and a frequency converter allows optimised solutions to be developed, such as

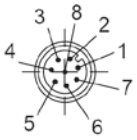
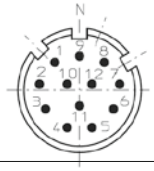
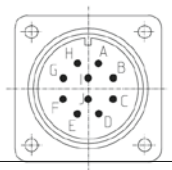
- speed controllers with a wide adjustment range
- accurate speed control
- constant-speed control
- position control

Supply voltage:	8–30 V DC with HTL 5 V DC with differential TTL
Output signals:	HTL A, B and N tracks; optional TTL
Pulses per revolution:	1024 Optional 1…65536
Enclosure rating:	IP65 (optional IP67)
Temperature range:	-40 °C to +100 °C

Electrical specifications

Output voltage	RS 422 (TTL compatible)	RS 422 (TTL compatible)	Differential	Differential (7272)
Supply voltage	5–30 V DC	5 V ±5%	8–30 V DC	5–30 V DC
No-load current consumption With inversion:	max. 70 mA	max. 70 mA	max. 70 mA	max. 70 mA
Allowable load per channel: Pulse rate:	max. ±20 mA max. 300 kHz	max. ±20 mA max. 300 kHz	max. ±20 mA max. 160 kHz	max. ±20 mA max. 160 kHz
High signal level:	min. 2.5 V	min. 2.5 V	min. UB – 3 V	min. UB – 3 V
Low signal level:	max. 0.5 V	max. 0.5 V	max. 1 V	max. 1 V

Plug end view with male pin insert

Connector type	8-pin M12 plug	12-pin M23 plug	MIL connector 10-pin
Layout			
Order code:	8.5000.XXX3.XXXX 8.5000.XXX4.XXXX	8.5000.XXX7.XXXX 8.5000.XXX8.XXXX	8.5000XXXY.XXXX
Mating connector:	05.CMB-8181-0	8.0000.5012.0000	8.0000.5062.0000

Signal assignments

Signal:	0 V GND	+U_B	0 V Sens	+Ub Sens	A	A	B	B	Z	Z	Shield
M23 Multifast, 12-pin connector; pin assignments:	10	12	11	2	5	6	8	1	3	4	1)
M12 Eurofast, 8-pin connector; pin assignments:	1	2			3	4	5	6	7	8	1)
Military version; 10-pin connector; pin assignments:	F	D		E	A	G	B	H	C	I	J[1])
Cable; lead colour:	WH	BN	GY PK	RD BU	GN	YE	GY	PK	BU	RD	Shield

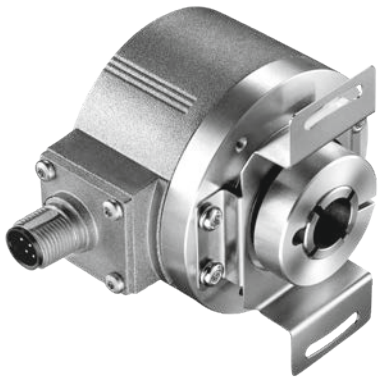
[1] Shield connected to plug housing.

Insulate unused outputs before putting into service.

Motor Mounted Components

SinCos feedback

Functional description



The SinCos feedback system is a combination of incremental sensor and absolute sensor. The absolute value is initially only defined when the device is switched on and transmitted to an external counter, which then continues counting incrementally from this absolute value with the analogue Sinus/Cosinus interface.

Hollow shaft	diameter 10.00 mm
Speed	Max. 6000 RPM
Enclosure rating	IP65
Interface	Sinus
Connection type	Cable M23-socket
Resolution	max. 5000 Imp.
Temperature	-20...+80 °C
Supply voltage 10...30 VDC	5 VDC

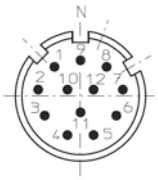
Shock resistance in accordance with EN 60068-2-27	1000 m/s2, 6 ms
Vibration resistance in accordance with EN 60068-2-6	100 m/s2, 10 ... 2000 Hz ^

Electrical specifications

Output circuit	SinCos, U=1 Vss	SinCos, U=1 Vss
Supply voltage	5 V (± 5 %)	10 ... 30 V DC
Current conversion with inversion (without load)	typ. 65 mA / max. 110 mA	typ. 65 mA / max. 110 mA
-3 dB frequency	≤ 180 kHz	≤ 180 kHz
Signal level channels A/B	1 Vss (±20 %)	1 Vss (±20 %)
Channel 0	0,1 ... 1,2 V	0,1 ... 1,2 V
Short-circuit proof outputs*	yes	yes
Reverse polarity protection of the supply voltage	no	yes
CE-compliant in accordance with EN 61000-6-1, EN 61000-6-4 and EN 61000-6-3		

* If supply voltage is correctly installed

Ansichten auf Steckseite, Stiftkontakteinsatz



M23 socket, 12-pin

Terminal assignment

Signal	0 V	0 V Sensor**	+UB	+UB Sensor**	A	Ā	B	B	0	0	Signal
	A	Ā	B	B	0	0					
M23-socket, Pin 12-pin	10	11	12	2	5	6					PH*
Core colour	WH 0,5 mm²	WH	BN 0,5 mm²	BN	GN	YE	GY	PK	BU	RD	

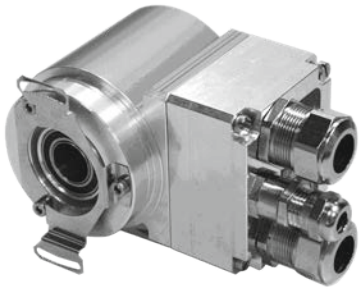
* PH = The shielding touches the plug housing.

** The sensor lines are connected with the power supply internally. Special power supply units correct for the loss of voltage on long lines.

Functional description

Absolute encoders detect both angular and rotational motions and convert them into electrical signals. In contrast to incremental encoders, with absolute encoders the current position is directly available. If an absolute encoder is moved mechanically while it is switched off, after the power is switched on again the current position can be read out immediately and directly. Absolute encoders are available in single-turn and multi-turn versions.

Profibus DP interface



Specifications

Supply voltage	11–27 VDC
No-load current consumption	< 350 mA
Total resolution [1]	≤ 33 bits
Number of steps per revolution, standard/extended [1]	≤ 8,192 / ≤ 32,768
Number of turns, standard/extended [1]	≤ 4,096 / ≤ 256,000
Profibus DP V0	IEC 61158, IEC 61784
PNO encoder profile	Class 1/Class 2
parameters [1]	Counting direction switchover, scaling function, etc.
Output code [1]	Binary, Gray, truncated Gray
Address	3–99, set using a rotary switch
Baud rate	9.6 kbit/s to 12 Mbit/s
TR-specific functions [1]	Gear and speed outputs
Data width on bus for actual position	≤ 25 bits
Permissible mechanical speed	≤ 12,000 rpm
Shaft load	Own mass
Bearing life	≥ 3.9×10^{10} revolutions at
- speed	≤ 6,000 rpm
- operating temperature	≤ 60 °C
Shaft diameter [mm]	10H7
Permissible angular acceleration	≤ 10^4 rad/s^2
Moment of inertia	2.5×10^{-6} kg m^2 (typical)
Start-up torque at 20 °C	2 Ncm (typical)
Weight	0.3–0.5 kg

[1] Configurable parameter

Ambient conditions

Vibration (EN 60068-2-6:1996)	≤ 100 m/s^2, sinusoidal 50–2,000 Hz
Shock (EN 60068-2-27:1995)	≤ 1000 m/s^2, half-cycle sinusoidal 11 ms
EMC	
- Interference emission compliant with EN 61000-6-3:2007	
- Interference immunity compliant with EN 61000-6-2:2006	
Operating temperature	0 °C to +60 °C; optionally -20 °C to +70 °C
Storage temperature	-30 °C to +80 °C, dry
Relative humidity (EN 60068-3-4:2002)	98%, non condensing
Enclosure rating (EN 60529:1991)[2]	IP 65

[2] With mating connector fitted and/or cable glands fitted and tightened

SSI interface

Specifications

Supply voltage	11–27 VDC
No-load current consumption	< 350 mA
Total resolution [1]	≤ 25 bits
Number of steps per revolution [1]	≤ 8,192
Number of rotations, standard [1]	≤ 4,096
Number of rotations, extended [1]	≤ 256,000
SSI	Synchronous Serial Interface
Clock input	Optocoupler
Data output	RS-422, 2-wire
Clock frequency	80 kHz – 1 MHz
Monostable time t_M	16 µs ≤ t_M ≤ 25 µs (20 µs typical)
Output code [1]	Binary, Gray, BCD
Output format [1]	Standard, Tannenbaum, SSI + CRC, 26-bit cycle, variable number of data bits
Negative values [1]	Sign and magnitude, twos complement
SSI or parallel special bits [1]	Limit switch, overspeed, direction indication, motion indication, error indication, parity
F/R [1]	Counting direction
Preset [1]	Electronic alignment
Logic levels	"0" < +2 VDC; "1" = supply voltage
Permissible mechanical speed	≤ 12,000 rpm
Shaft load	Own mass
Bearing life	≥ 3.9 x 10^{10} revolutions at
- speed	≤ 6,000 rpm
- operating temperature	≤ 60 °C
Shaft diameter [mm]	10H7
Permissible angular acceleration	≤ 10^4 rad/s^2
Moment of inertia	2.5 x 10^{-6} kg m^2 (typical)
Start-up torque at 20 °C	2 Ncm (typical)
Weight	0.3–0.5 kg
Optional	
- incremental signals, RS422 levels	K1+, K1-, K2+, K2- with 1024 or 2048 pulses

[1)] Configurable parameter

Ambient conditions

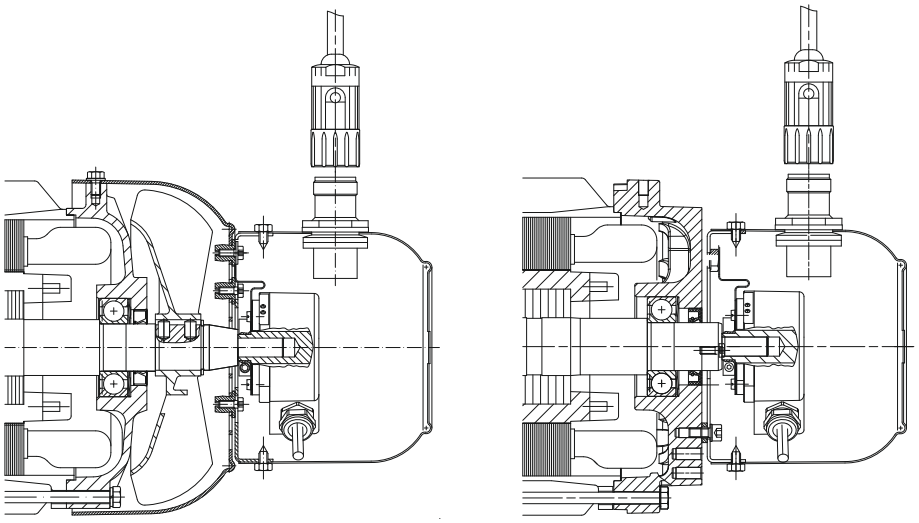
Vibration (EN 60068-2-6:1996)	≤ 100 m/s^2, sinusoidal 50–2,000 Hz
Shock (EN 60068-2-27:1995)	≤ 1000 m/s^2, half-cycle sinusoidal 11 ms
EMC	
- Interference emission compliant with EN 61000-6-3:2007	
- Interference immunity compliant with EN 61000-6-2:2006	
Operating temperature	0 °C to +60 °C; optionally -20 °C to +70 °C
Storage temperature	-30 °C to +80 °C, dry
Relative humidity (EN 60068-3-4:2002)	98 %, non condensing
Enclosure rating (EN 60529:1991)[2]	IP65

[2)] With mating connector fitted and/or cable glands fitted and tightened

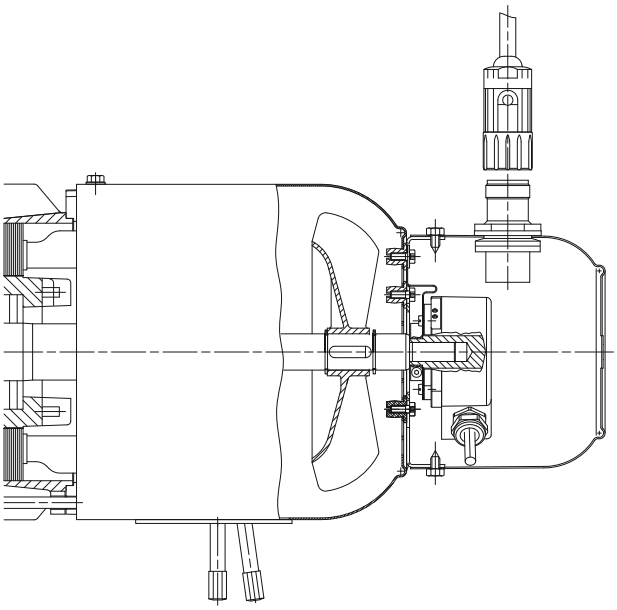
In addition to the angular position within a rotation, multiturn encoders detect multiple rotations. An internal reduction gear mechanism connected to the motor shaft is used to detect the number of turns. Consequently, the value measured by a multiturn encoder consists of the current angular position and the number of turns. As with incremental encoders, the reading is calculated and output via various interface modules, depending on the interface.

On request, a large range of motor frames can be fitted with sensor bearings. The output signal from the sensor allows the direction of rotation to be determined, among other things. The number of possible pulse counts depends on the frame size. Please enquire for more information.

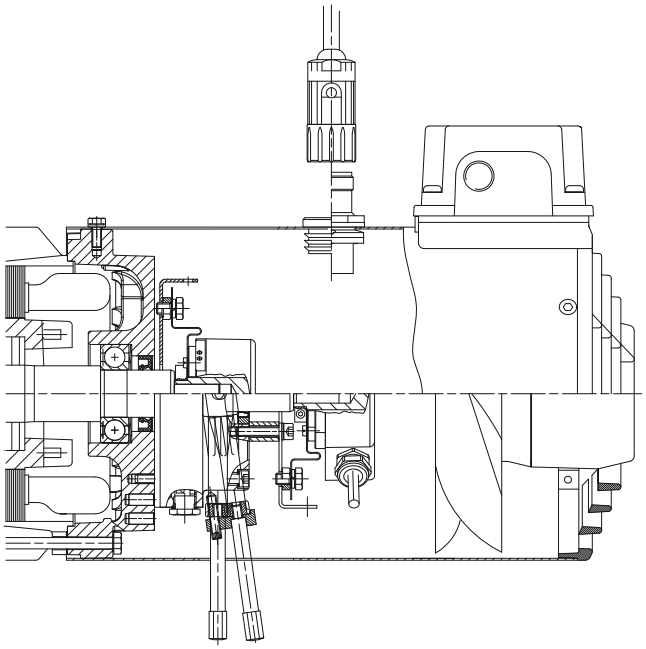
Motor and encoder

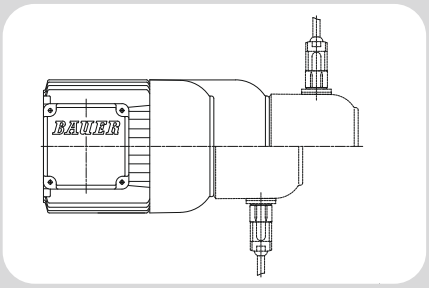


Motor, brake and encoder



Motor and forced ventilation



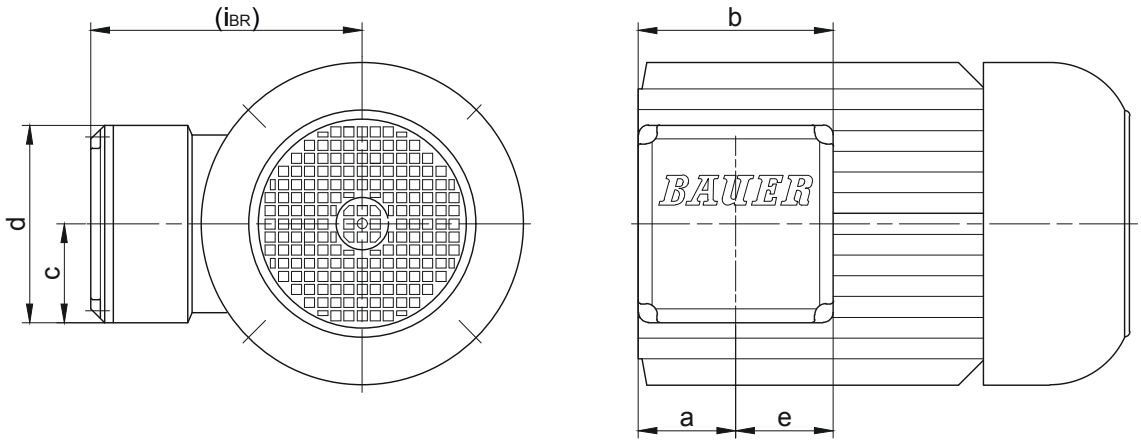


16

Motor Mounted Components - Dimensions

Dimensions 605
Standard terminal box 605
Terminal box for plug-connector 606
Motor with standard brake 607
“Heavy-Duty“ - brake 608
Motor with second shaft end 609
Motor with brake and second shaft end 610
Motor with “heavy duty“ brake and second shaft end 611
Motor with protective hood 612
Motor with independent fan 613
Motor with brake and independent fan 614
Motor with encoder and built-on independent fan 615
Motor with brake and encoder with built-on independent fan 616
Motor with encoder 617
Motor with “heavy duty“ encoder 618
Motor with brake and encoder 619
Motor with “heavy duty“ brake and encoder 620
Motor in IEC design 621

Standard terminal box



Motor/	Dimensions (mm)						Code	Cable entry		max. spanner width
Motor with brake	a	b	c	d	e	i/i_{BR}		Major (M)	Next to (N)	for cable entry gland
S..04..	42.5	88	44	88	44	90	KAG1	M=2xM20x1.5	-	24 mm
S..06..	50	100	50	100	50	100	KAG2	M=2xM25x1.5	-	29 mm
S..08..	50	100	50	100	50	115	KAG2	M=2xM25x1.5	-	29 mm
S..09..	50	100	50	100	50	124	KAG2	M=2xM25x1.5	-	29 mm
S..11..	66.5	133	66.5	133	66.5	165	KAG3	M=2xM32x1.5	-	-

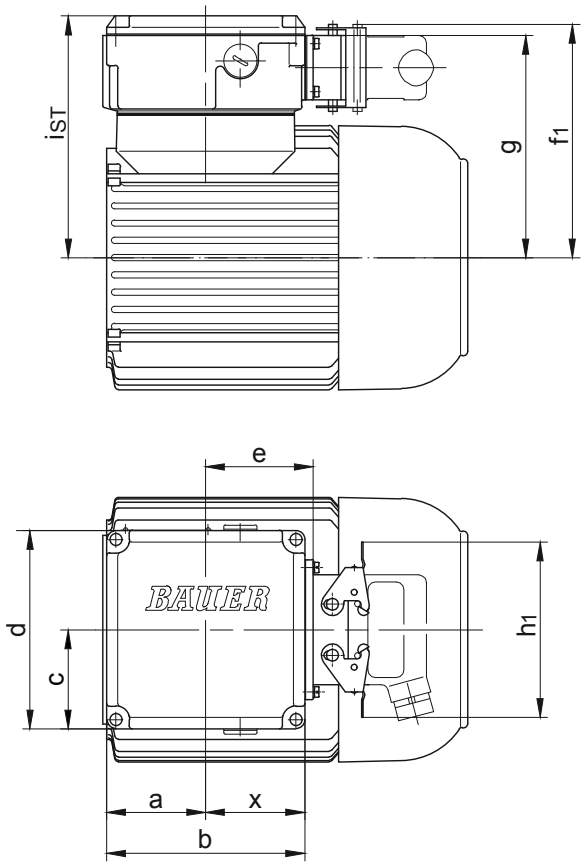
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Motor-mounted components

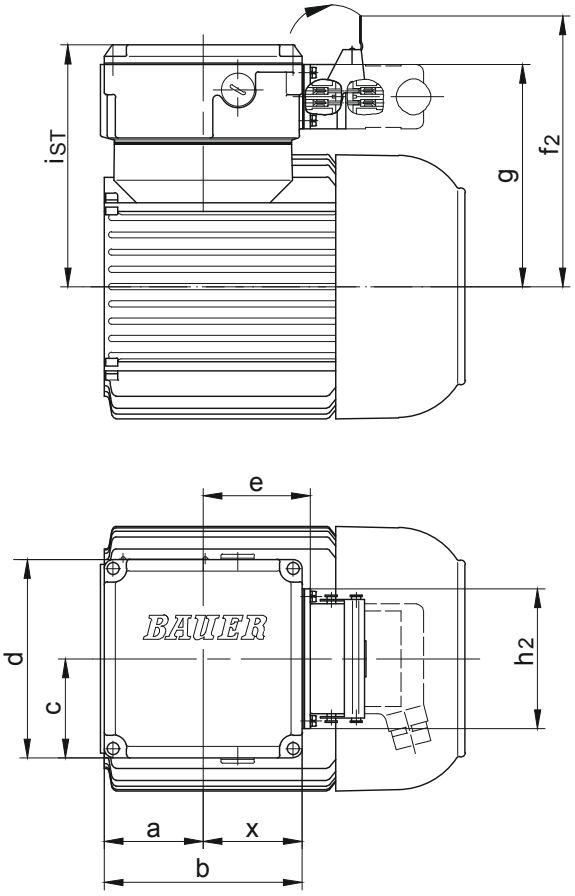
Dimensions

Terminal box for plug-connector

Standard design (two brackets)



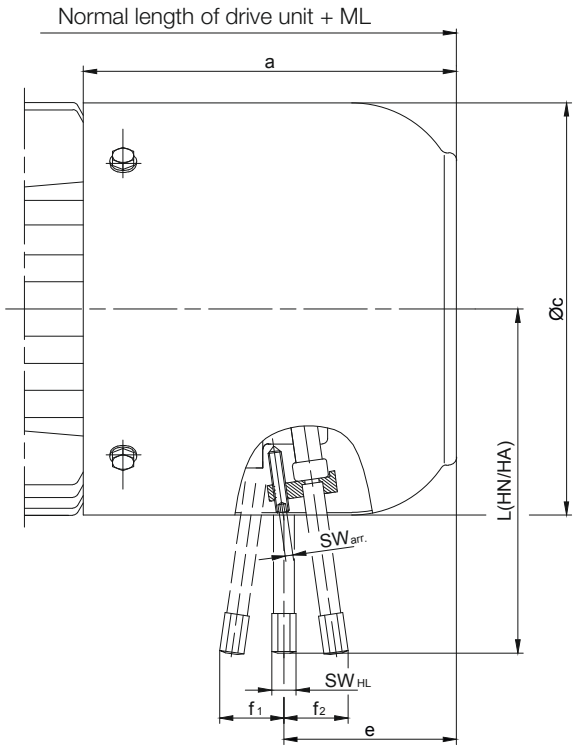
Optional for DESINA (one bracket)



Motor	Size Terminal box	a	b	c	d	e	f_1	f_2	g	h_1	h_2	i_{ST}	x
S..04..	TBS1	30	90	52.5	106	49	118.5	147	111	117	93	124.5	46
S..06..	TBS1	45	90	52.5	106	49	125.5	154	118	117	93	131.5	46
S..08..	TBS1	45	90	52.5	106	49	143.5	172	136	117	93	149.5	46
S..09..	TBS2	62	132	66	135	71.5	158.5	187	158	117	93	164	68.5
S..11..	TBS2	62	132	66	135	71.5	175.5	191	166	117	93	181	68.5
Dimensions in millimetres (mm)													

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Motor with standard brake



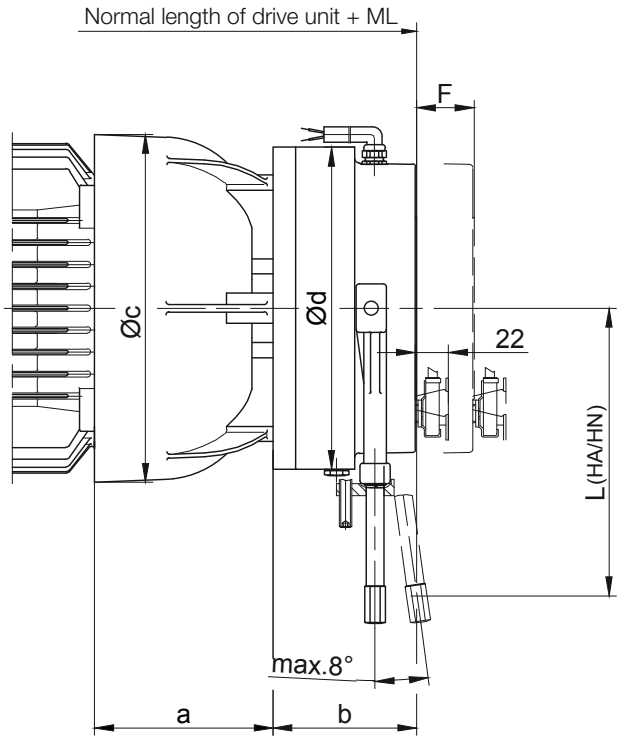
Motor	Brake	ML (mm) Additional length with brake	Dimensions (mm) a	Øc	e	f_1	f_2	L(HA/HN)	SW_{HL}	$SW_{arr.}$	Additional weight kg
S..04..	E003	43.5	97	110.5	58.5	20.5	24	96/102	11	11	1.0
S..06..		42	102	123	58.5						
S..08..	ES(X)010	66	141	156	68	-	29	132	8	2.5	2.6
S..09..	ES(X)010	93	173	176	99	-	29	132	8	2.5	2.7
	ES(X)027				91	-	35.5	162			4.2
S..11..	ES(X)027	98	195	218	103	-	35.5	162	8	2.5	4.5
	ES(X)040				100	-	37	172			6.3
	ES(X)070				96	-	34.5	190	12	4	8.5

HA = manual release lockable
HN = manual release not lockable

16

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

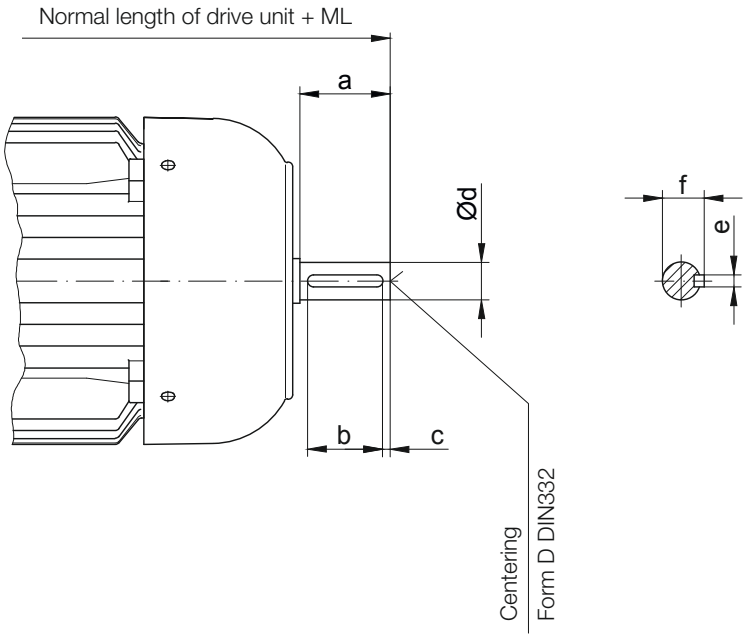
“Heavy-Duty“ - brake



Motor	Brake	Additional length with brake (mm)		Dimensions (mm)					Additional weight
		ML Standard	ML Microswitch	a	b	c	Ød	L (HA/HN)	kg
S..08..	EH(X)027	79	101	83.5	66.5	166	145	162	5.5
S..09..	EH(X)040	90	112	102	73	191	168	172	8.3
S..11..	EH(X)125	114	136	120	95	231	213	208.5	19.5
HA = manual release lockable HN = manual release not lockable									

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

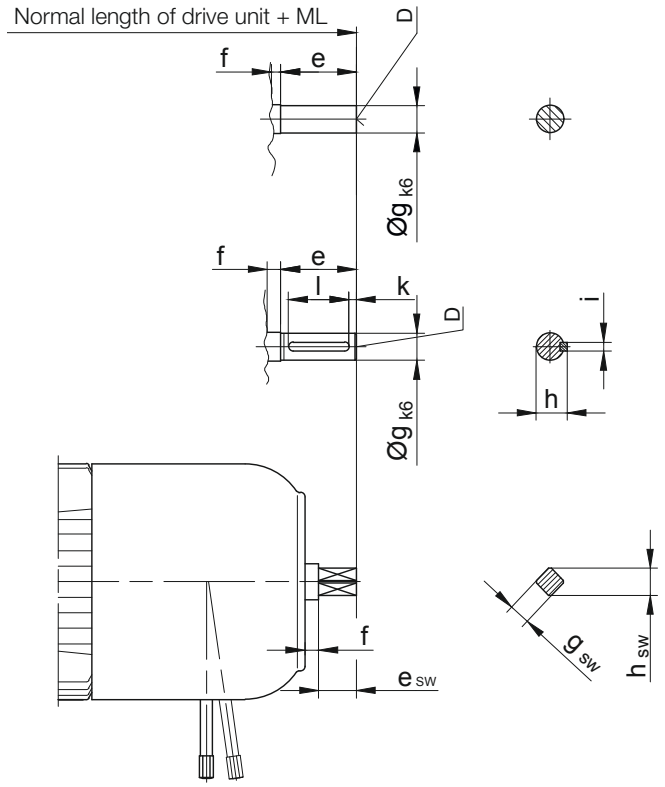
Motor with second shaft end



Motor	ML (mm)	Dimensions (mm)						Centering
	Additional length with second shaft end	a	b	c	d	e	f	DIN 332
S..04..	20	15	-	-	8_{g6}	-	-	-
S..06..	25	20	-	-	10_{k6}	-	-	-
S..08..	45	40	30	5	16_{k6}	5	18	D5
S..09..	55	50	40	5	20_{k6}	6	22.5	D5
S..11..	65	60	50	5	25_{k6}	8	28	D8

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Motor with brake and second shaft end

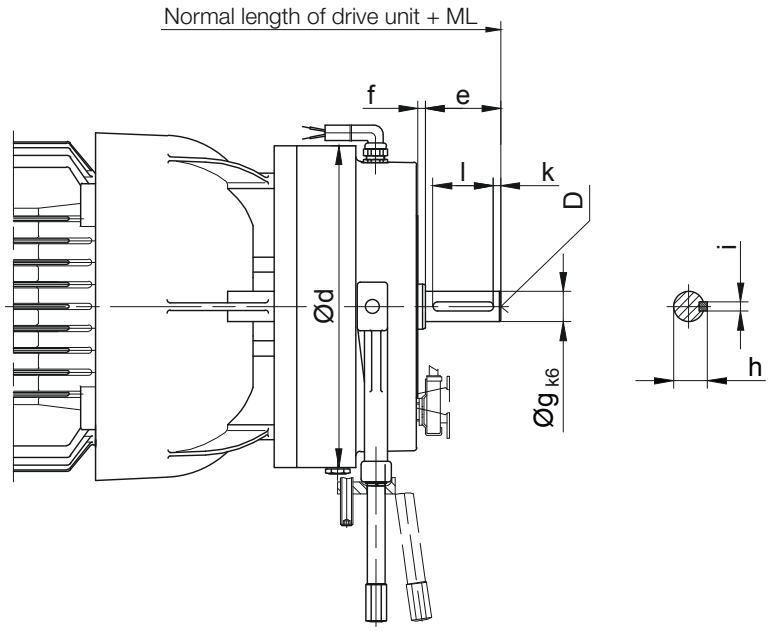


Motor	Brake	Additional length (mm)		Dimensions (mm)										Centering	
		ML	ML_{SW}	e	e_{SW}	f	g	g_{SW}	h	h_{SW}	i	k	l	DIN 332	SW
S..04..	E003	63	-	15	-	5	8	-	-	-	-	-	-	-	-
S..06..				20			10								
S..08..	ES(X)..	121	96*	50	25*	5	18	SW14*	20.5	18*	6	5	40	D6	D4*
S..09..		98	123*												
S..11..		153.5*	128	50*	25		20*	SW14	22.5*	18	6*	5*	40*	D6*	D4
* special design with manual release															

16

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Motor with “heavy duty“ brake and second shaft end

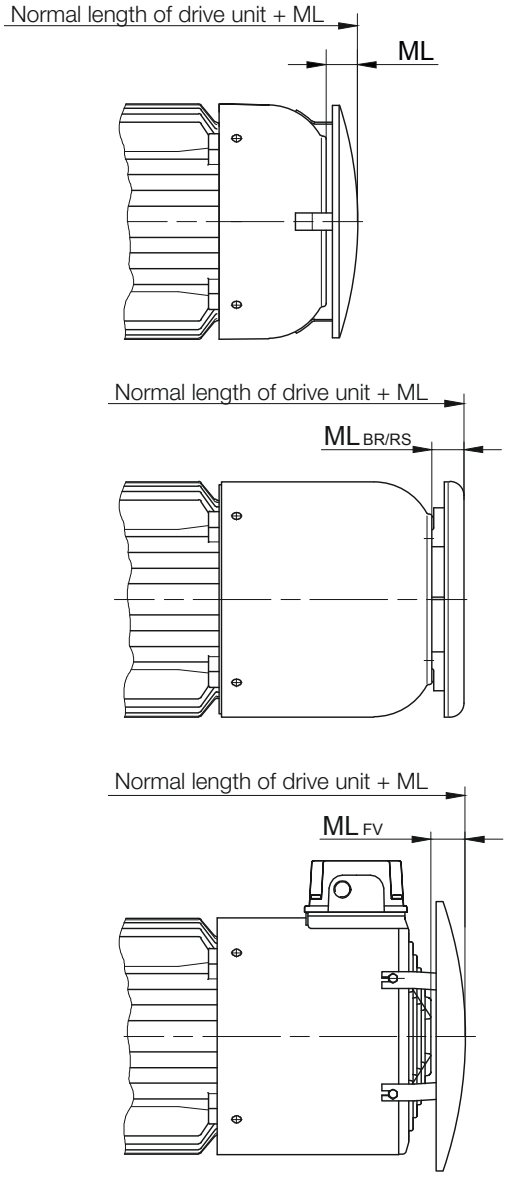


Motor	Brake	ML (mm)	Dimensions (mm)								Centering	Additional weight
		Additional length with encoder and brake	Ød	e	f	Øg	h	i	k	k	D 332	kg
S..08..	EH(X)027	132	145	50	4	18	20.5	6	5	6	D6	6
S..09..	EH(X)040	144	168		5							9
S..11..	EH(X)125	169	213			20	22.5					20

16

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

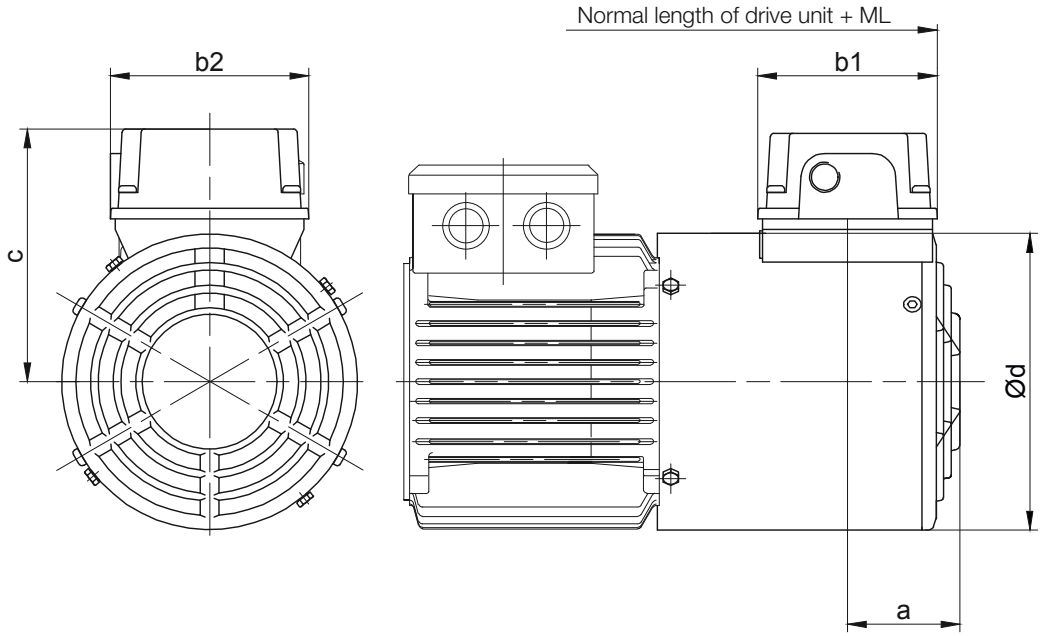
Motor with protective hood



Motor	ML (mm) Additional length with attached protective cover				Additional weight
	ML	ML_{BR}	ML_{RS}	ML_{FV}	kg
S..04..	16	-	-	-	0.15
S..06..	18	-	-	-	0.15
S..08..	14.5	24.5	24.5	40	0.20
S..09..	22	24.5	24.5	30	0.30
S..11..	29	29.5	29.5	33	0.40

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Motor with independent fan

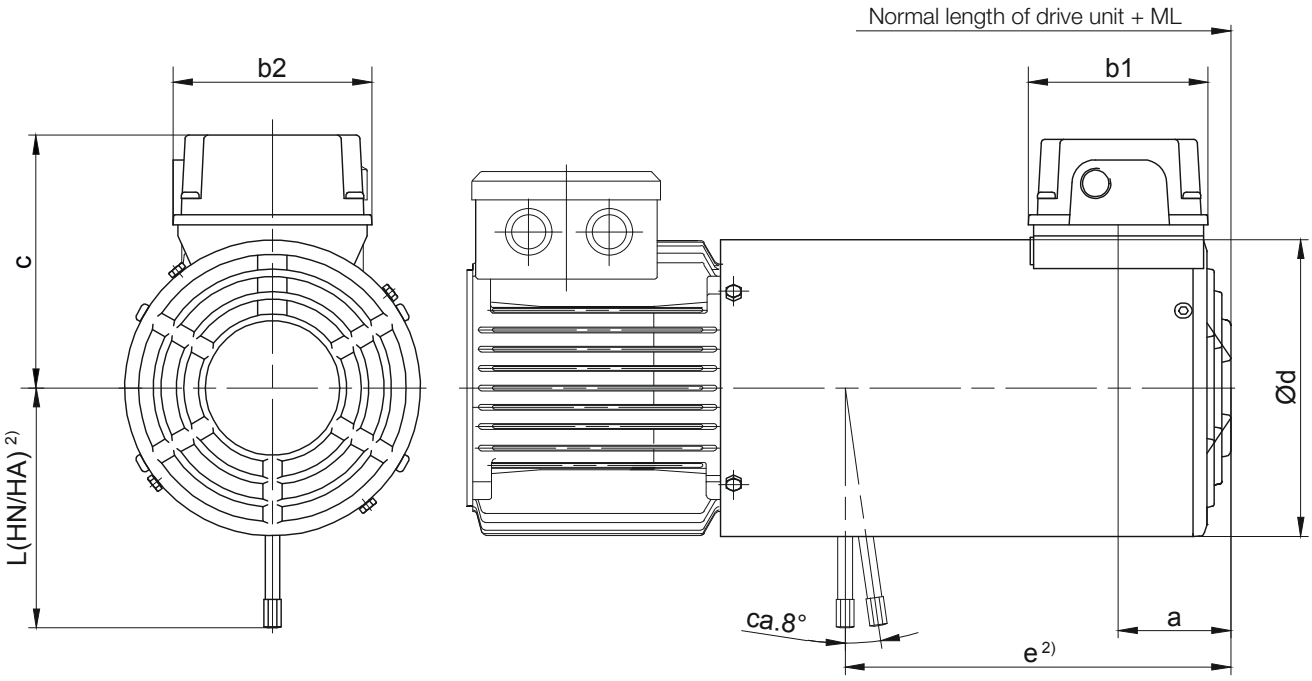


Drive Motor	Fan Motor			400 V	ML (mm)	Dimensions (mm)					Additional weight
		kW	r/min	A	Additional length with forced cooling fan	a	b1	b2	c	d	~kg
S..08..	FV D08	0.019	2670	0.029	92	69.5	107	105	134	157	2.2
S..09..	FV D09	0.046	2820	0.106	97	69.5	107	105	143	177	2.7
S..11..	FV D11	0.051	2660	0.110	97	79.5	107	105	162.5	219	3.2

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Dimensions

Motor with brake and independent fan



Motor	Brake	ML (mm)[1] Additional length with brake and forced ventilation	Dimensions (mm) a	b1	b2	c	Ød	e[2]	L(HA/HN)[2]	Additional weight ~kg
S..08..	ES(X)010	202	59	107	105	134	157	204	132	5.0
S..09..	ES(X)010	214	69.5	107	105	143	177	220	132	5.5
	ES(X)027							212	162	7.5
S..11*	ES(X)027	221	69.5	107	105	162.5	219	226	162	8.0
	ES(X)040							223	172	10
	ES(X)070							218	184	12

* with bayonet joint

[1] The additional length is for normal motor unit without brake.
Other dimensions see the appropriate normal dimensioned sketch.

[2] Brake release on request

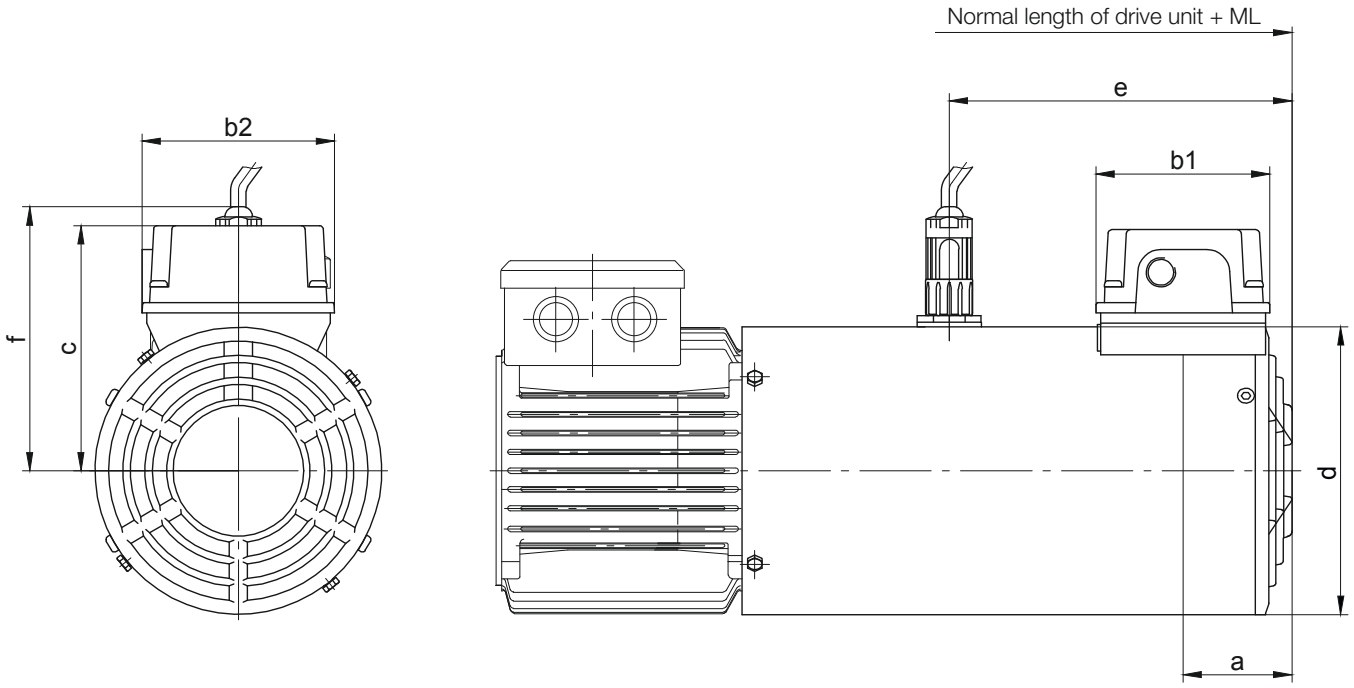
HA = manual release lockable

HN = manual release not lockable

16

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Motor with encoder and built-on independent fan



Motor	ML (mm)[1)] Additional length with encoder and forced ventilation	Dimensions (mm) a	b1	b2	c	d	e	f	Additional weight ~kg
S..08..	202	59	107	105	134	157	187	144	2.6
S..09..	214	69.5	107	105	143	177	192	153.5	3.3
S..11*	221	69.5	107	105	162.5	218	192	-	4.0

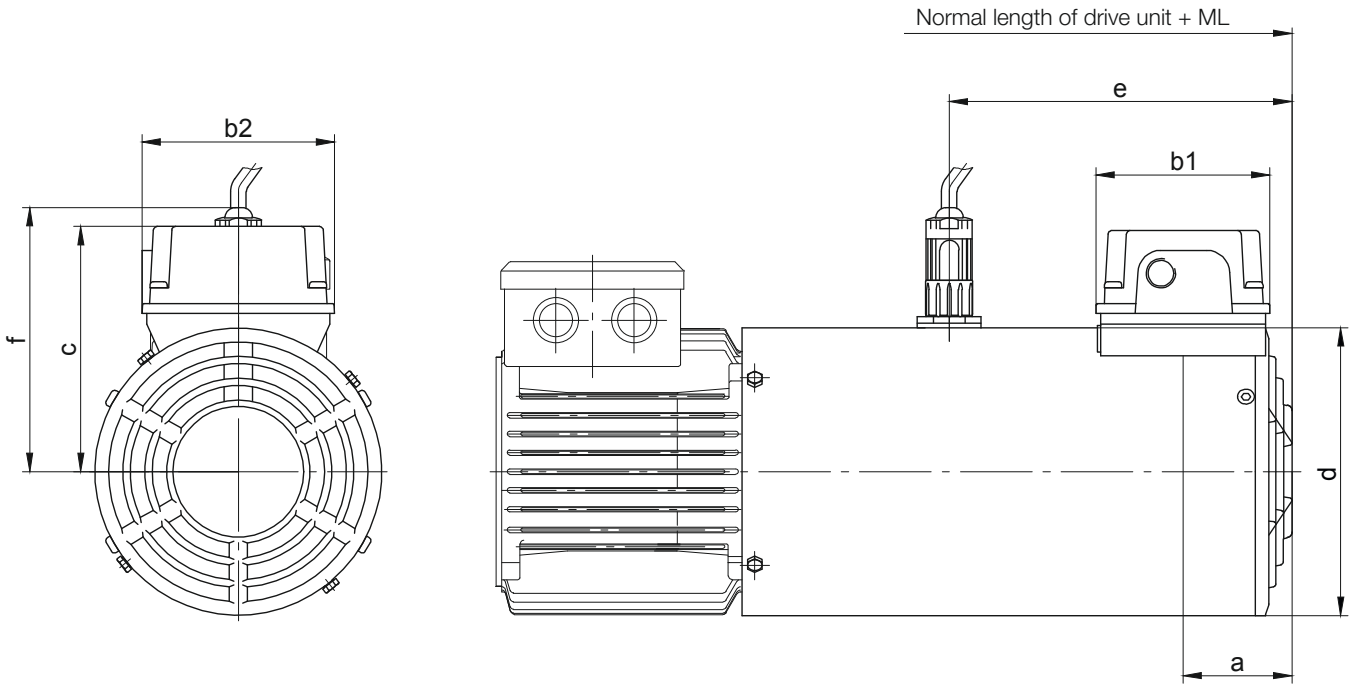
* with bayonet joint

[1)] The additional length is for normal motor unit without brake.
Other dimensions see the appropriate normal dimensioned sketch.

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Dimensions

Motor with brake and encoder with built-on independent fan



Motor	Brake	ML (mm)[1)] Additional length with brake, encoder and forced ventilation	Dimensions (mm) a	b1	b2	c	Ød	e[2)]	g	h	L(HA/HN)[2)]	Additional weight ~kg
S..08..	ES(X)010	202	59	107	105	134	157	204	150	150	132	6.0
S..09..	ES(X)010	214	69.5	107	105	143	177	220	160	160	132	6.5
	ES(X)027							212	160		162	8.5
S..11*	ES(X)027	221	69.5	107	105	162.5	219	226	155	175	162	9.0
	ES(X)040							223	155		172	11.5
	ES(X)070							218	155		184	13.5

* with bayonet joint

[1)] The additional length is for normal motor unit without brake.
Other dimensions see the appropriate normal dimensioned sketch.

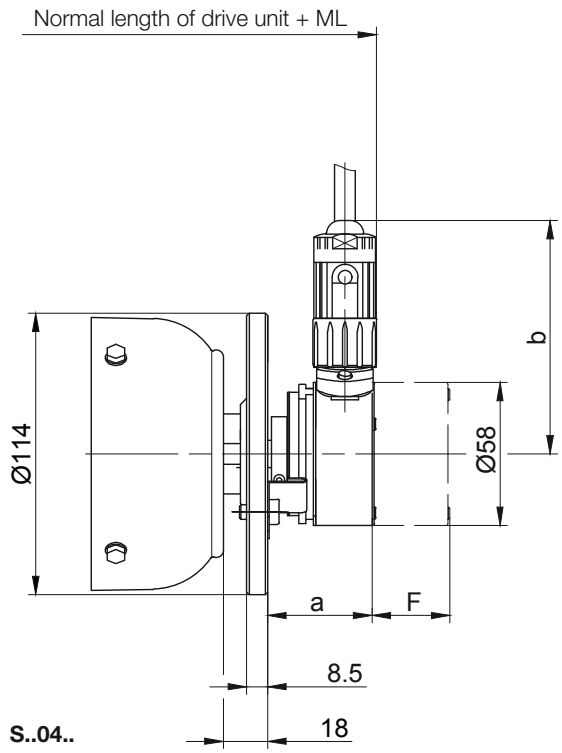
[2)] Brake release on request

HA = manual release lockable

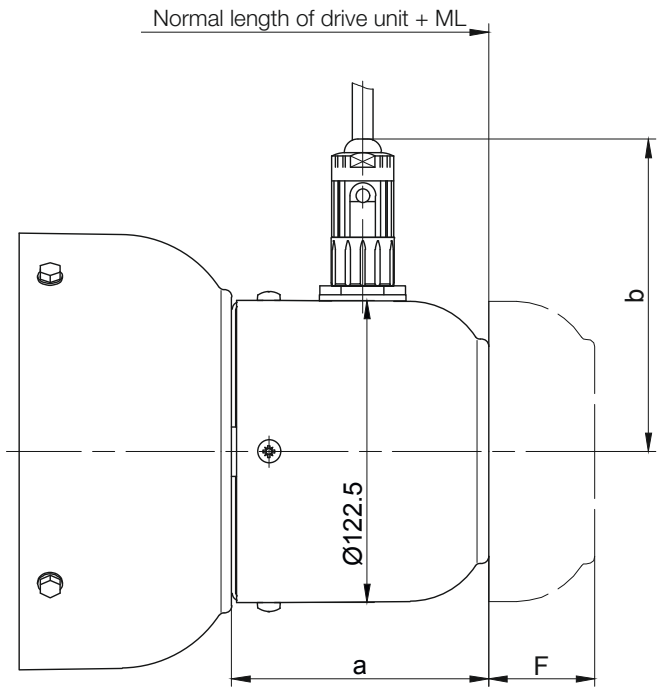
HN = manual release not lockable

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Motor with encoder



S..04..

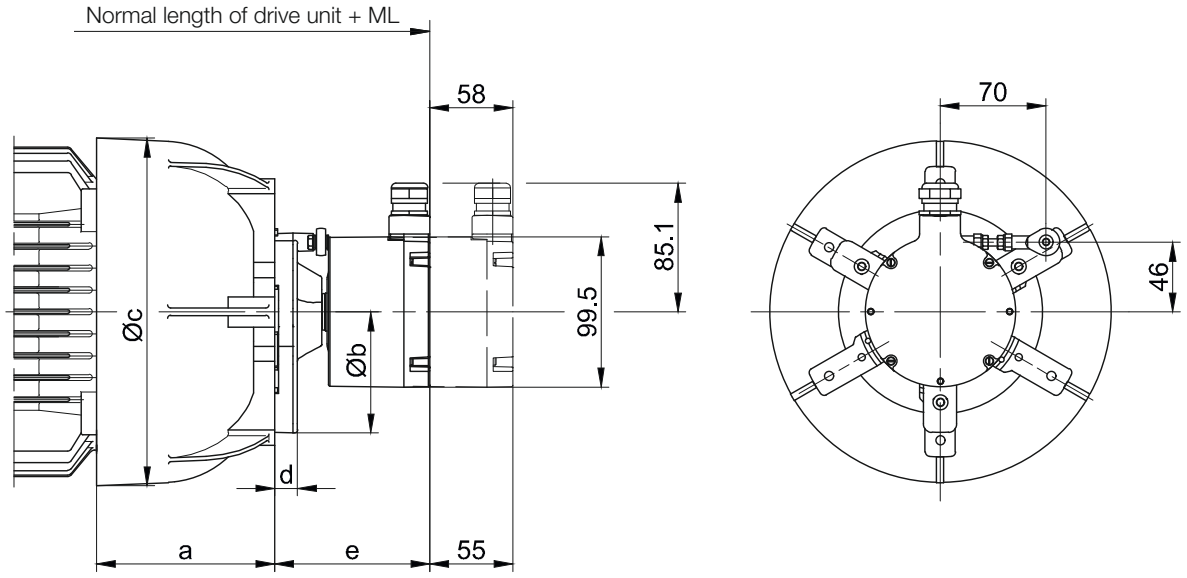


S..06.. - S..11..

Motor	ML (mm) Additional length with encoder	Dimensions (mm)				Additional weight	Free space for removing encoder „F“	
		Incremental encoder		Absolute encoder			Incremental encoder	Absolute encoder
		a	c	a	b	kg		
S..04..	62.5	43.5	95	69.5	109.5	0.7	30	55
S..06..	103	98.5	127	98.5	127	0.9	63	88
S..08..	107	107.5		107.5			41	66
S..09..		104		104		0.8	43	68
S..11..								

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Motor with “heavy duty“ encoder

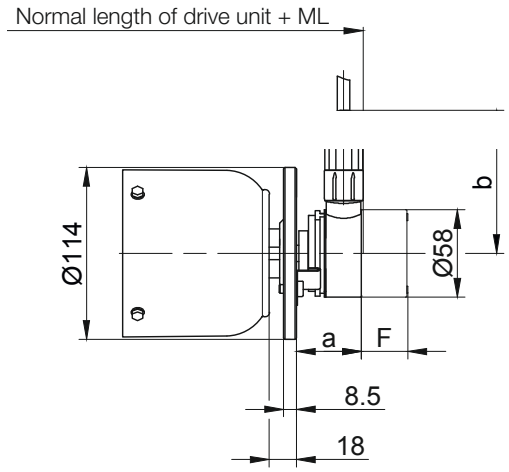


Motor	ML (mm) Additional length with encoder	Dimensions (mm)					Additional weight
		a	b	c	d	e	kg
S..08..	114	83.5	160	166	15	102.5	2
S..09..	118.5	102		191			
S..11..	121.5	120		231			5.4

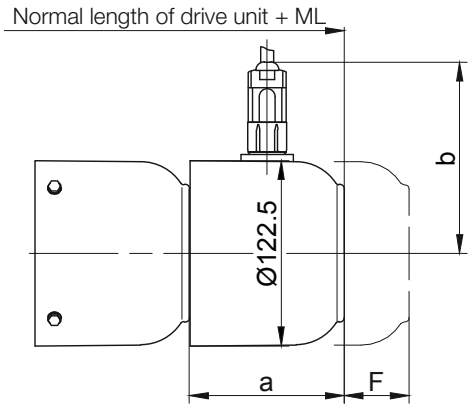
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Motor with brake and encoder

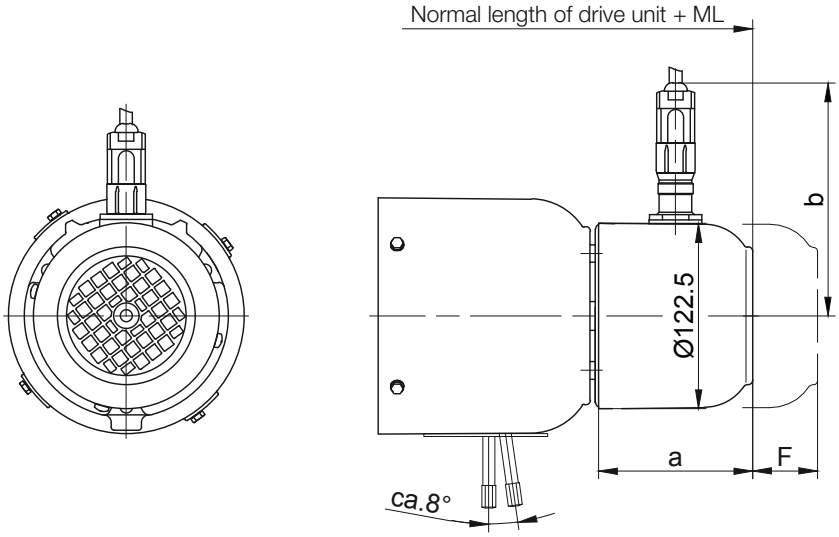
S..04..



S..06..



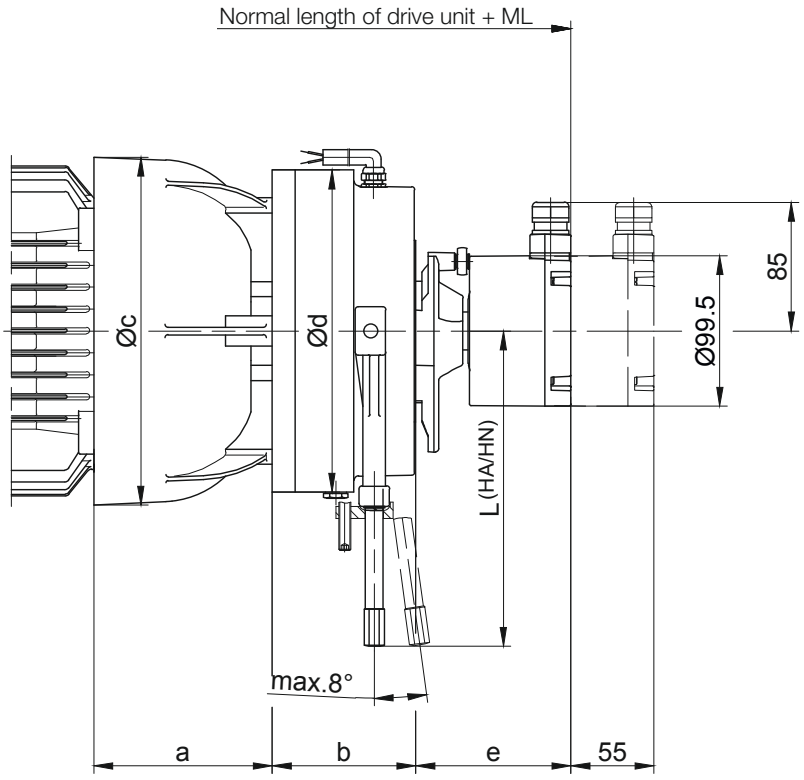
S..08.. - S..11..



Motor	Brake	ML (mm)	Dimensions (mm)				Additional weight	Free space for removing encoder „F“	
		Additional length with brake and encoder	Incremental encoder		Absolute encoder			Incremental encoder	Absolute encoder
			a	c	a	b	kg		
S..04..	E003	105.5	43.5	95	69.5	109.5	0.7	30	55
S..06..		145	102	127	102	127	0.9	63	88
S..08..	ES(X)..	173.5					0.8	49	74
S..09..	ES(X)..	197							
S..11..	ES(X)..	200							

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

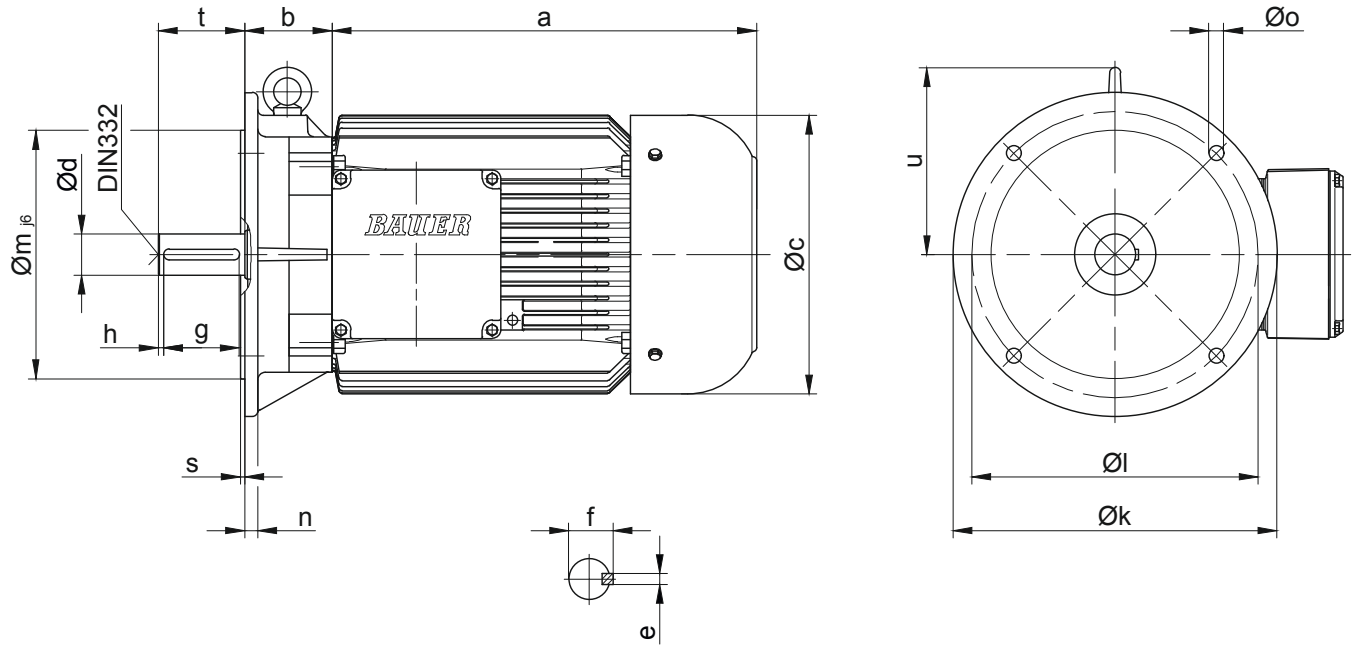
Motor with “heavy duty“ brake and encoder



Motor	Brake	ML (mm) Additional length with brake and encoder	Dimensions (mm) a	b	c	Ød	e	L (HA/HN)	Additional weight kg
S..08..	EH(X)027	180.5	83.5	66.5	166	145	102.5	162	7.1
S..09..	EH(X)040	191.5	102	73	191	168		172	10
S..11..	EH(X)125	216.5	120	95	231	213		208.5	21.4
HA = manual release lockable HN = manual release not lockable									

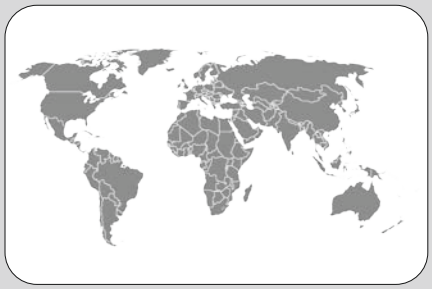
The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.

Motor in IEC design



Motor	Dimensions (mm)																Centering
	a	b	c	d	e	f	g	h	k	l	m	n	o	s	t	u	DIN 332
S..06..	170	45	123	11_{j6}	4	12.5	18	2.5	140	115	95	9	10	2.75	23	-	D4
S..08..	200	49	156	19_{j6}	6	21.5	35	2.5	200	165	130	10	12	3.5	40	-	D4
S..09..	251	66	176	24_{j6}	8	27	40	5	200	165	130	10	12	3.5	50	128.5	D6
S..11..	319	75	218	28_{j6}	8	31	50	5	250	215	180	11	14.5	4	60	145.5	D10

The actual gearbox design can vary from the geometry shown. Generate drive specific 3D and 2D geometries under www.BauerCat.com.



17

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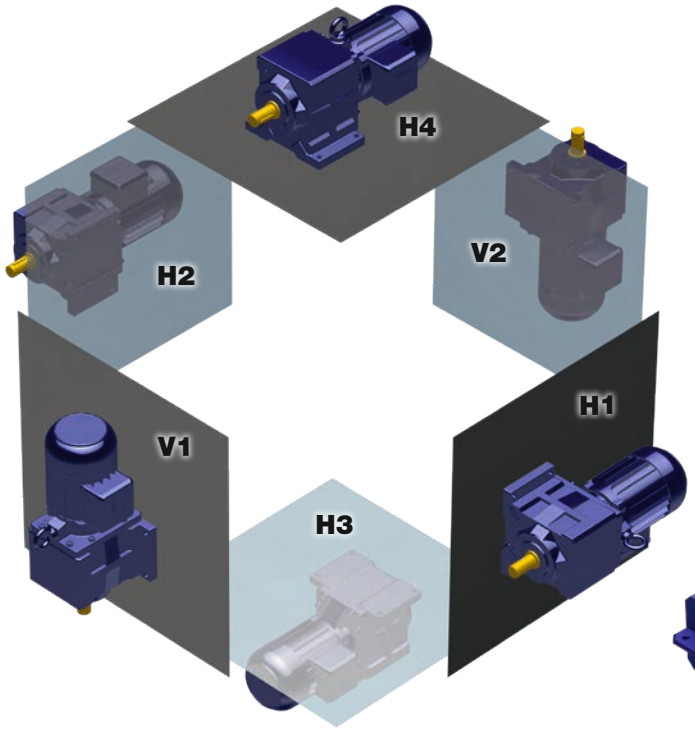
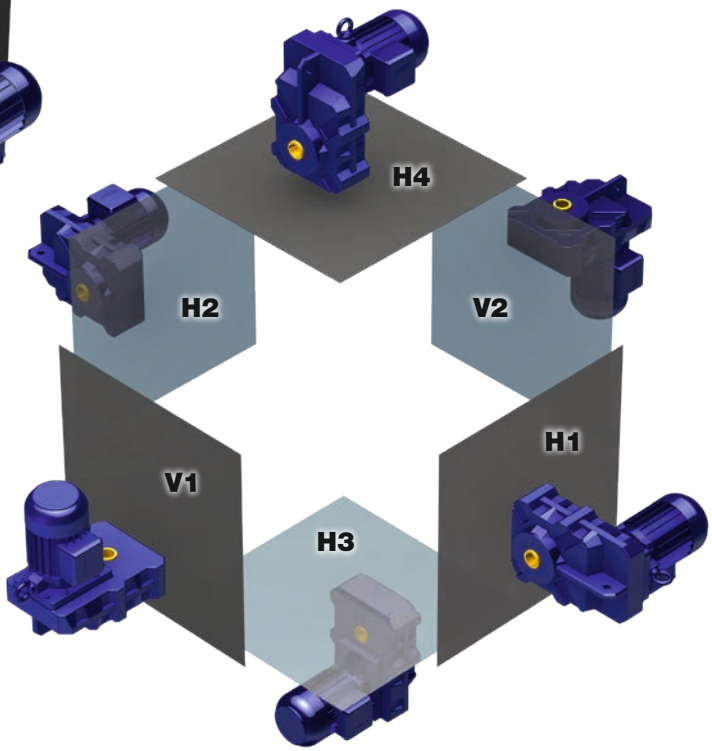
Notes

Notes

Mounting Positions



Helical Geared Motors



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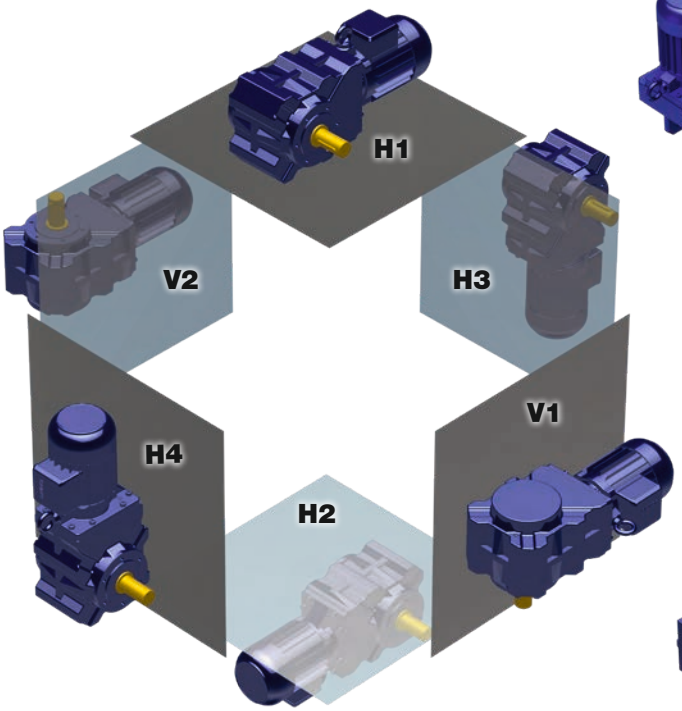
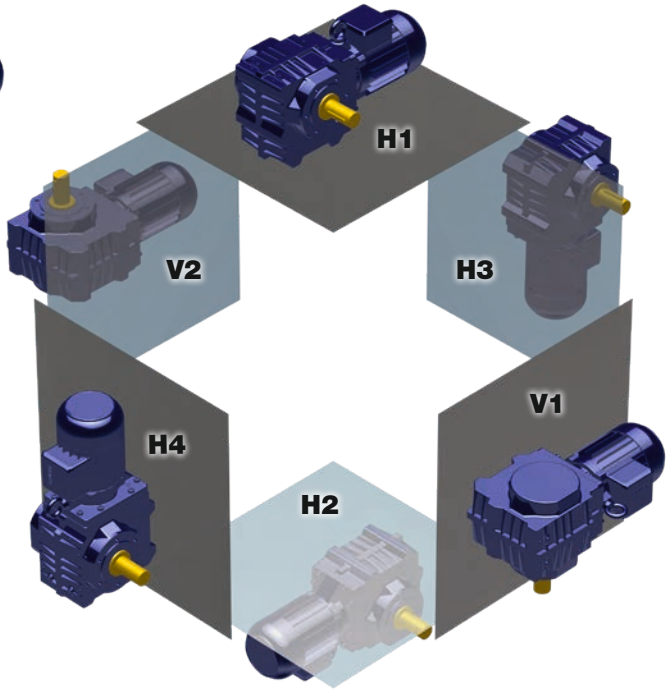


Bevel Geared Motors



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