

BS-series worm-gear motors - Selection

|   |            |
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# Energy Efficient Geared Motors

AC Line Operated / European Union

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**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 ( $M_v/M_N$ ), 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  $Z \leq 1/h$**

**Factor  $f_1$**  for shock classification and operating time

| Shock classification | Operating hours per day $t_d \leq 10 \text{ min}$ | $\leq 1 \text{ h}$ | $> 1 \text{ h}$    | $> 4 \text{ h}$    | $> 8 \text{ h}$     | $> 16 \text{ h}$    |
|----------------------|---|--------------------|--------------------|--------------------|---------------------|---------------------|
|                      |   |                    | $\leq 4 \text{ h}$ | $\leq 8 \text{ h}$ | $\leq 16 \text{ h}$ | $\leq 24 \text{ h}$ |
| 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                 |

# BS-series worm-geared motors

## Description of worm-gear units

### 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 | $1 < Z \leq 100$ | $100 < Z \leq 1000$ | $1000 < Z$ |
|----------------------|------------------|---------------------|------------|
| 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 | $1 < Z \leq 100$ | $100 < Z \leq 1000$ | $1000 < Z$ |
|----------------------|------------------|---------------------|------------|
| 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 ..<br>+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  $f_B = f_2 = 1.8$

### Explanation of shock classification

#### Shock classification I:

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

- $FI \leq 1.3$
- $M_x/M_N \leq 1.0$
- Shock-absorbing power transmission components (e.g. highly resilient, zero-play coupling,  $\varphi N \geq 5^\circ$ )

#### Shock classification II:

Moderate shock loads. At least one of the following conditions applies:

- $1.3 < FI \leq 2$
- $1 \leq M_x/M_N \leq 1.4$
- Shock-neutral power transmission components (e.g. gear wheels, zero- playrigid coupling or resilient coupling with  $\varphi N < 5^\circ$ )

#### 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)

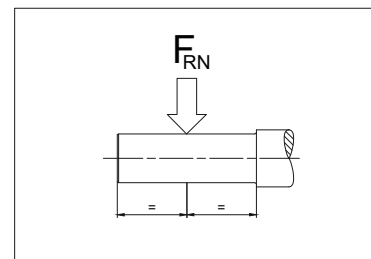
### Key to abbreviations

|             |  |
|-------------|--|
| 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 ( $\text{kgm}^2$ )    |
| $J_{rot}$   | Mass moment of inertia of the motor rotor ( $\text{kgm}^2$ )   |
| $M_x$       | 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   |
| $\varphi_N$ | Torsional offset of the resilient coupling under rated torque  |
| UT          | Ambient temperature ( $^{\circ}\text{C}$ )   |

### 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").

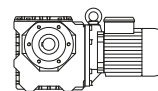
#### Motor power overload protection

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).

# BS-series worm-geared motors

## Selection - worm-geared motors

0.03 kW



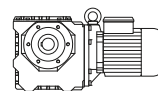
| P <sub>N</sub><br>[kW] | n <sub>2</sub><br>[1/min] | 50 Hz                  |                       | i<br>[:1] | Type              | m<br>[kg] | [N]  | [N] |
|------------------------|---------------------------|------------------------|-----------------------|-----------|-------------------|-----------|------|-----|
|                        |                           | M <sub>2</sub><br>[Nm] | f <sub>B</sub><br>[-] |           |                   |           |      |     |
| 0.03                   | 75                        | 2.8                    | 8.9                   | 18.00     | BS02-../D04LA4    | 3.5       | 1250 | -   |
| 0.03                   | 62                        | 3.2                    | 7.8                   | 22.00     | BS02-../D04LA4    | 3.5       | 1250 | -   |
| 0.03                   | 50                        | 3.6                    | 6.9                   | 27.00     | BS02-../D04LA4    | 3.5       | 1250 | -   |
| 0.03                   | 41                        | 4.15                   | 6.0                   | 33.00     | BS02-../D04LA4    | 3.5       | 1250 | -   |
| 0.03                   | 31.5                      | 5.6                    | 4.3                   | 43.00     | BS02-../D04LA4    | 3.5       | 1250 | -   |
| 0.03                   | 25                        | 6.5                    | 3.4                   | 54.00     | BS02-../D04LA4    | 3.5       | 1250 | -   |
| 0.03                   | 19.5                      | 7.4                    | 2.7                   | 70.00     | BS02-../D04LA4    | 3.5       | 1250 | -   |
| 0.03                   | 14.5                      | 11.6                   | 3.3                   | 93.92     | BS04-../D04LA4    | 3.9       | 2250 | -   |
| 0.03                   | 13.5                      | 13.5                   | 2.8                   | 102.9     | BS04-../D04LA4    | 3.9       | 2250 | -   |
| 0.03                   | 12                        | 13.6                   | 2.8                   | 117.0     | BS04-../D04LA4    | 3.9       | 2250 | -   |
| 0.03                   | 11                        | 16.4                   | 2.5                   | 123.0     | BS04-../D04LA4    | 3.9       | 2250 | -   |
| 0.03                   | 9.8                       | 18.1                   | 2.3                   | 138.4     | BS04-../D04LA4    | 3.9       | 2250 | -   |
| 0.03                   | 9.0                       | 17.5                   | 2.2                   | 150.3     | BS04-../D04LA4    | 3.9       | 2250 | -   |
| 0.03                   | 8.5                       | 20.5                   | 1.8                   | 160.1     | BS04-../D04LA4    | 3.9       | 2250 | -   |
| 0.03                   | 7.8                       | 19.8                   | 2.0                   | 174.0     | BS04-../D04LA4    | 3.9       | 2250 | -   |
| 0.03                   | 6.2                       | 24                     | 1.65                  | 220.0     | BS04-../D04LA4    | 3.9       | 2250 | -   |
| 0.03                   | 5.4                       | 27.5                   | 1.5                   | 251.6     | BS04-../D04LA4    | 3.9       | 2250 | -   |
| 0.03                   | 4.5                       | 32                     | 1.35                  | 300.7     | BS04-../D04LA4    | 3.9       | 2250 | -   |
| 0.03                   | 4.0                       | 35.5                   | 1.25                  | 338.3     | BS04-../D04LA4    | 3.9       | 2250 | -   |
| 0.03                   | 3.5                       | 40                     | 1.15                  | 391.3     | BS04-../D04LA4    | 3.9       | 2250 | -   |
| 0.03                   | 3.6                       | 56                     | 1.7                   | 381.5     | BS06G04-../D04LA4 | 11        | 3500 | -   |
| 0.03                   | 2.9                       | 70                     | 1.35                  | 474.8     | BS06G04-../D04LA4 | 11        | 3500 | -   |
| 0.03                   | 2.5                       | 79                     | 1.25                  | 552.6     | BS06G04-../D04LA4 | 11        | 3500 | -   |
| 0.03                   | 2.3                       | 88                     | 1.05                  | 610.7     | BS06G04-../D04LA4 | 11        | 3500 | -   |
| 0.03                   | 2.0                       | 101                    | 0.93                  | 704.7     | BS06G04-../D04LA4 | 11        | 3500 | -   |
| 0.03                   | 1.6                       | 94*                    | 1.0                   | 847.0     | BS06G04-../D04LA4 | 11        | 3500 | -   |
| 0.03                   | 1.5                       | 94*                    | 1.0                   | 939.6     | BS06G04-../D04LA4 | 11        | 3500 | -   |
| 0.03                   | 1.2                       | 94*                    | 1.0                   | 1170      | BS06G04-../D04LA4 | 11        | 3500 | -   |
| 0.03                   | 0.9                       | 94*                    | 1.0                   | 1503      | BS06G04-../D04LA4 | 11        | 3500 | -   |
| 0.03                   | 0.85                      | 94*                    | 1.0                   | 1654      | BS06G04-../D04LA4 | 11        | 3500 | -   |
| 0.03                   | 0.75                      | 94*                    | 1.0                   | 1914      | BS06G04-../D04LA4 | 11        | 3500 | -   |
| 0.03                   | 0.65                      | 94*                    | 1.0                   | 2200      | BS06G04-../D04LA4 | 11        | 3500 | -   |
| 0.03                   | 0.49                      | 94*                    | 1.0                   | 2768      | BS06G04-../D04LA4 | 11        | 3500 | -   |
| 0.03                   | 0.45                      | 94*                    | 1.0                   | 3007      | BS06G04-../D04LA4 | 11        | 3500 | -   |
| 0.03                   | 0.41                      | 94*                    | 1.0                   | 3308      | BS06G04-../D04LA4 | 11        | 3500 | -   |
| 0.03                   | 0.37                      | 94*                    | 1.0                   | 3721      | BS06G04-../D04LA4 | 11        | 3500 | -   |
| 0.03                   | 0.32                      | 94*                    | 1.0                   | 4304      | BS06G04-../D04LA4 | 11        | 3500 | -   |
| 0.03                   | 0.28                      | 98*                    | 1.0                   | 4947      | BS06G04-../D04LA4 | 11        | 3500 | -   |
| 0.03                   | 0.25                      | 98*                    | 1.0                   | 5442      | BS06G04-../D04LA4 | 11        | 3500 | -   |
| 0.03                   | 0.22                      | 100*                   | 1.0                   | 6234      | BS06G04-../D04LA4 | 11        | 3500 | -   |
| 0.03                   | 5.4                       | 30.5                   | 3.2                   | 252.0     | BS06-../D04LA4    | 8.4       | 3500 | -   |
| 0.03                   | 4.3                       | 37.5                   | 2.8                   | 315.3     | BS06-../D04LA4    | 8.4       | 3500 | -   |
| 0.03                   | 3.8                       | 42                     | 2.6                   | 358.9     | BS06-../D04LA4    | 8.4       | 3500 | -   |
| 0.03                   | 3.3                       | 47.5                   | 2.3                   | 418.0     | BS06-../D04LA4    | 8.4       | 3500 | -   |
| 0.03                   | 2.5                       | 67                     | 2.8                   | 544.8     | BS10Z-../D04LA4   | 21        | 6000 | -   |
| 0.03                   | 2.2                       | 72                     | 2.6                   | 638.7     | BS10Z-../D04LA4   | 21        | 6000 | -   |
| 0.03                   | 1.8                       | 85                     | 2.1                   | 788.7     | BS10Z-../D04LA4   | 21        | 6000 | -   |
| 0.03                   | 1.5                       | 101                    | 1.55                  | 905.6     | BS10Z-../D04LA4   | 21        | 6000 | -   |
| 0.03                   | 1.4                       | 130                    | 1.25                  | 969.9     | BS10G06-../D04LA4 | 25        | 6000 | -   |
| 0.03                   | 1.2                       | 152                    | 1.05                  | 1166      | BS10G06-../D04LA4 | 25        | 6000 | -   |
| 0.03                   | 1.1                       | 166                    | 0.96                  | 1342      | BS10G06-../D04LA4 | 25        | 6000 | -   |
| 0.03                   | 0.9                       | 160*                   | 1.0                   | 1528      | BS10G06-../D04LA4 | 25        | 6000 | -   |
| 0.03                   | 0.85                      | 160*                   | 1.0                   | 1668      | BS10G06-../D04LA4 | 25        | 6000 | -   |
| 0.03                   | 0.7                       | 160*                   | 1.0                   | 1963      | BS10G06-../D04LA4 | 25        | 6000 | -   |
| 0.03                   | 0.6                       | 160*                   | 1.0                   | 2348      | BS10G06-../D04LA4 | 25        | 6000 | -   |
| 0.03                   | 0.55                      | 160*                   | 1.0                   | 2635      | BS10G06-../D04LA4 | 25        | 6000 | -   |
| 0.03                   | 0.47                      | 160*                   | 1.0                   | 2875      | BS10G06-../D04LA4 | 25        | 6000 | -   |
| 0.03                   | 0.41                      | 160*                   | 1.0                   | 3332      | BS10G06-../D04LA4 | 25        | 6000 | -   |
| 0.03                   | 0.38                      | 160*                   | 1.0                   | 3635      | BS10G06-../D04LA4 | 25        | 6000 | -   |
| 0.03                   | 0.33                      | 160*                   | 1.0                   | 4163      | BS10G06-../D04LA4 | 25        | 6000 | -   |
| 0.03                   | 0.29                      | 160*                   | 1.0                   | 4776      | BS10G06-../D04LA4 | 25        | 6000 | -   |
| 0.03                   | 0.26                      | 160*                   | 1.0                   | 5209      | BS10G06-../D04LA4 | 25        | 6000 | -   |
| 0.03                   | 0.23                      | 164*                   | 1.0                   | 6019      | BS10G06-../D04LA4 | 25        | 6000 | -   |
| 0.03                   | 0.21                      | 164*                   | 1.0                   | 6565      | BS10G06-../D04LA4 | 25        | 6000 | -   |
| 0.03                   | 0.19                      | 164*                   | 1.0                   | 7471      | BS10G06-../D04LA4 | 25        | 6000 | -   |
| 0.03                   | 0.16                      | 164*                   | 1.0                   | 8703      | BS10G06-../D04LA4 | 25        | 6000 | -   |

The torques marked (\*) are maximum permissible torques for service factor f<sub>B</sub>=1.0.

# BS-series worm-geared motors

## Selection - worm-geared motors

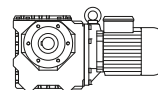
### 0.03 kW



| P <sub>N</sub><br>[kW] | 50 Hz                     |                        |                       | i<br>[:1] | Type              | m    |       |     |
|------------------------|---------------------------|------------------------|-----------------------|-----------|-------------------|------|-------|-----|
|                        | n <sub>2</sub><br>[1/min] | M <sub>2</sub><br>[Nm] | f <sub>B</sub><br>[—] |           |                   | [kg] | [N]   | [N] |
| 0.03                   | 1.7                       | 111                    | 2.4                   | 831.7     | BS20G06-../D04LA4 | 35   | 8000  | -   |
| 0.03                   | 1.4                       | 135                    | 2.0                   | 1000      | BS20G06-../D04LA4 | 35   | 8000  | -   |
| 0.03                   | 1.1                       | 171                    | 1.6                   | 1311      | BS20G06-../D04LA4 | 35   | 8000  | -   |
| 0.03                   | 0.9                       | 210                    | 1.3                   | 1543      | BS20G06-../D04LA4 | 35   | 8000  | -   |
| 0.03                   | 0.85                      | 220                    | 1.25                  | 1683      | BS20G06-../D04LA4 | 35   | 8000  | -   |
| 0.03                   | 0.7                       | 270*                   | 1.0                   | 2014      | BS20G06-../D04LA4 | 35   | 8000  | -   |
| 0.03                   | 0.55                      | 270*                   | 1.0                   | 2465      | BS20G06-../D04LA4 | 35   | 8000  | -   |
| 0.03                   | 0.48                      | 270*                   | 1.0                   | 2857      | BS20G06-../D04LA4 | 35   | 8000  | -   |
| 0.03                   | 0.44                      | 270*                   | 1.0                   | 3117      | BS20G06-../D04LA4 | 35   | 8000  | -   |
| 0.03                   | 0.38                      | 270*                   | 1.0                   | 3570      | BS20G06-../D04LA4 | 35   | 8000  | -   |
| 0.03                   | 0.33                      | 270*                   | 1.0                   | 4096      | BS20G06-../D04LA4 | 35   | 8000  | -   |
| 0.03                   | 0.28                      | 270*                   | 1.0                   | 4910      | BS20G06-../D04LA4 | 35   | 8000  | -   |
| 0.03                   | 0.23                      | 270*                   | 1.0                   | 5880      | BS20G06-../D04LA4 | 35   | 8000  | -   |
| 0.03                   | 0.19                      | 275*                   | 1.0                   | 7363      | BS20G06-../D04LA4 | 35   | 8000  | -   |
| 0.03                   | 0.17                      | 275*                   | 1.0                   | 8031      | BS20G06-../D04LA4 | 35   | 8000  | -   |
| 0.03                   | 0.15                      | 280*                   | 1.0                   | 9220      | BS20G06-../D04LA4 | 35   | 8000  | -   |
| 0.03                   | 1.2                       | 164                    | 3.0                   | 1176      | BS30G06-../D04LA4 | 53   | 10000 | -   |
| 0.03                   | 0.95                      | 205                    | 2.4                   | 1461      | BS30G06-../D04LA4 | 53   | 10000 | -   |
| 0.03                   | 0.9                       | 215                    | 2.3                   | 1576      | BS30G06-../D04LA4 | 53   | 10000 | -   |
| 0.03                   | 0.75                      | 260                    | 1.9                   | 1886      | BS30G06-../D04LA4 | 53   | 10000 | -   |
| 0.03                   | 0.6                       | 325                    | 1.5                   | 2308      | BS30G06-../D04LA4 | 53   | 10000 | -   |
| 0.03                   | 0.55                      | 355                    | 1.4                   | 2518      | BS30G06-../D04LA4 | 53   | 10000 | -   |
| 0.03                   | 0.47                      | 420                    | 1.15                  | 2919      | BS30G06-../D04LA4 | 53   | 10000 | -   |
| 0.03                   | 0.41                      | 480                    | 1.0                   | 3344      | BS30G06-../D04LA4 | 53   | 10000 | -   |
| 0.03                   | 0.38                      | 490*                   | 1.0                   | 3647      | BS30G06-../D04LA4 | 53   | 10000 | -   |
| 0.03                   | 0.33                      | 490*                   | 1.0                   | 4184      | BS30G06-../D04LA4 | 53   | 10000 | -   |
| 0.03                   | 0.28                      | 510*                   | 1.0                   | 4905      | BS30G06-../D04LA4 | 53   | 10000 | -   |
| 0.03                   | 0.24                      | 520*                   | 1.0                   | 5783      | BS30G06-../D04LA4 | 53   | 10000 | -   |
| 0.03                   | 0.22                      | 520*                   | 1.0                   | 6308      | BS30G06-../D04LA4 | 53   | 10000 | -   |
| 0.03                   | 0.19                      | 520*                   | 1.0                   | 7179      | BS30G06-../D04LA4 | 53   | 10000 | -   |
| 0.03                   | 0.17                      | 520*                   | 1.0                   | 8362      | BS30G06-../D04LA4 | 53   | 10000 | -   |

9

### 0.04 kW



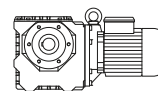
| P <sub>N</sub><br>[kW] | 50 Hz                     |                        |                       | i<br>[:1] | Type              | m    |      |     |
|------------------------|---------------------------|------------------------|-----------------------|-----------|-------------------|------|------|-----|
|                        | n <sub>2</sub><br>[1/min] | M <sub>2</sub><br>[Nm] | f <sub>B</sub><br>[—] |           |                   | [kg] | [N]  | [N] |
| 0.04                   | 127                       | 2.45                   | 10                    | 10.67     | BS02-../D04LA4    | 3.5  | 1250 | -   |
| 0.04                   | 100                       | 2.95                   | 8.5                   | 13.50     | BS02-../D04LA4    | 3.5  | 1250 | -   |
| 0.04                   | 75                        | 3.75                   | 6.7                   | 18.00     | BS02-../D04LA4    | 3.5  | 1250 | -   |
| 0.04                   | 62                        | 4.3                    | 5.8                   | 22.00     | BS02-../D04LA4    | 3.5  | 1250 | -   |
| 0.04                   | 50                        | 4.8                    | 5.2                   | 27.00     | BS02-../D04LA4    | 3.5  | 1250 | -   |
| 0.04                   | 41                        | 5.5                    | 4.5                   | 33.00     | BS02-../D04LA4    | 3.5  | 1250 | -   |
| 0.04                   | 31.5                      | 7.5                    | 3.2                   | 43.00     | BS02-../D04LA4    | 3.5  | 1250 | -   |
| 0.04                   | 25                        | 8.7                    | 2.5                   | 54.00     | BS02-../D04LA4    | 3.5  | 1250 | -   |
| 0.04                   | 19.5                      | 9.9                    | 2.0                   | 70.00     | BS02-../D04LA4    | 3.5  | 1250 | -   |
| 0.04                   | 21.5                      | 11.1                   | 3.2                   | 64.06     | BS04-../D04LA4    | 3.9  | 2250 | -   |
| 0.04                   | 19                        | 13.2                   | 2.9                   | 71.18     | BS04-../D04LA4    | 3.9  | 2250 | -   |
| 0.04                   | 18                        | 12.9                   | 2.9                   | 77.00     | BS04-../D04LA4    | 3.9  | 2250 | -   |
| 0.04                   | 14.5                      | 15.5                   | 2.5                   | 93.92     | BS04-../D04LA4    | 3.9  | 2250 | -   |
| 0.04                   | 13.5                      | 18.1                   | 2.1                   | 102.9     | BS04-../D04LA4    | 3.9  | 2250 | -   |
| 0.04                   | 12                        | 18.1                   | 2.1                   | 117.0     | BS04-../D04LA4    | 3.9  | 2250 | -   |
| 0.04                   | 11                        | 21.5                   | 1.9                   | 123.0     | BS04-../D04LA4    | 3.9  | 2250 | -   |
| 0.04                   | 9.8                       | 24                     | 1.75                  | 138.4     | BS04-../D04LA4    | 3.9  | 2250 | -   |
| 0.04                   | 9.0                       | 23                     | 1.7                   | 150.3     | BS04-../D04LA4    | 3.9  | 2250 | -   |
| 0.04                   | 8.5                       | 27                     | 1.35                  | 160.1     | BS04-../D04LA4    | 3.9  | 2250 | -   |
| 0.04                   | 7.8                       | 26                     | 1.55                  | 174.0     | BS04-../D04LA4    | 3.9  | 2250 | -   |
| 0.04                   | 6.2                       | 32.5                   | 1.25                  | 220.0     | BS04-../D04LA4    | 3.9  | 2250 | -   |
| 0.04                   | 5.4                       | 36.5                   | 1.1                   | 251.6     | BS04-../D04LA4    | 3.9  | 2250 | -   |
| 0.04                   | 4.5                       | 43                     | 1.0                   | 300.7     | BS04-../D04LA4    | 3.9  | 2250 | -   |
| 0.04                   | 4.0                       | 47.5                   | 0.93                  | 338.3     | BS04-../D04LA4    | 3.9  | 2250 | -   |
| 0.04                   | 3.5                       | 53                     | 0.85                  | 391.3     | BS04-../D04LA4    | 3.9  | 2250 | -   |
| 0.04                   | 3.6                       | 75                     | 1.25                  | 381.5     | BS06G04-../D04LA4 | 11   | 3500 | -   |

The torques marked (\*) are maximum permissible torques for service factor f<sub>B</sub>=1.0.

# BS-series worm-geared motors

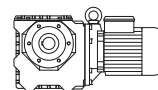
## Selection - worm-geared motors

### 0.04 kW



| P <sub>N</sub><br>[kW] | n <sub>2</sub><br>[1/min] | 50 Hz                  |                       | i<br>[:1] | Type                     | m    |       |     |
|------------------------|---------------------------|------------------------|-----------------------|-----------|--------------------------|------|-------|-----|
|                        |                           | M <sub>2</sub><br>[Nm] | f <sub>B</sub><br>[—] |           |                          | [kg] | [N]   | [N] |
| 0.04                   | 2.9                       | 93                     | 1.0                   | 474.8     | <b>BS06G04-../D04LA4</b> | 11   | 3500  | -   |
| 0.04                   | 2.5                       | 105                    | 0.95                  | 552.6     | <b>BS06G04-../D04LA4</b> | 11   | 3500  | -   |
| 0.04                   | 2.3                       | 117                    | 0.8                   | 610.7     | <b>BS06G04-../D04LA4</b> | 11   | 3500  | -   |
| 0.04                   | 7.9                       | 30.5                   | 2.9                   | 171.0     | <b>BS06-../D04LA4</b>    | 8.4  | 3500  | -   |
| 0.04                   | 6.2                       | 36                     | 2.7                   | 220.0     | <b>BS06-../D04LA4</b>    | 8.4  | 3500  | -   |
| 0.04                   | 5.4                       | 41                     | 2.4                   | 252.0     | <b>BS06-../D04LA4</b>    | 8.4  | 3500  | -   |
| 0.04                   | 4.3                       | 50                     | 2.1                   | 315.3     | <b>BS06-../D04LA4</b>    | 8.4  | 3500  | -   |
| 0.04                   | 3.8                       | 56                     | 1.95                  | 358.9     | <b>BS06-../D04LA4</b>    | 8.4  | 3500  | -   |
| 0.04                   | 3.3                       | 63                     | 1.75                  | 418.0     | <b>BS06-../D04LA4</b>    | 8.4  | 3500  | -   |
| 0.04                   | 3.8                       | 62                     | 3.1                   | 360.3     | <b>BS10Z-../D04LA4</b>   | 21   | 6000  | -   |
| 0.04                   | 3.2                       | 72                     | 2.6                   | 432.4     | <b>BS10Z-../D04LA4</b>   | 21   | 6000  | -   |
| 0.04                   | 2.5                       | 90                     | 2.1                   | 544.8     | <b>BS10Z-../D04LA4</b>   | 21   | 6000  | -   |
| 0.04                   | 2.2                       | 97                     | 1.95                  | 638.7     | <b>BS10Z-../D04LA4</b>   | 21   | 6000  | -   |
| 0.04                   | 1.8                       | 114                    | 1.6                   | 788.7     | <b>BS10Z-../D04LA4</b>   | 21   | 6000  | -   |
| 0.04                   | 1.5                       | 134                    | 1.2                   | 905.6     | <b>BS10Z-../D04LA4</b>   | 21   | 6000  | -   |
| 0.04                   | 1.4                       | 174                    | 0.92                  | 969.9     | <b>BS10G06-../D04LA4</b> | 25   | 6000  | -   |
| 0.04                   | 1.2                       | 200                    | 0.8                   | 1166      | <b>BS10G06-../D04LA4</b> | 25   | 6000  | -   |
| 0.04                   | 1.8                       | 114                    | 2.7                   | 763.4     | <b>BS20Z-../D04LA4</b>   | 32   | 8000  | -   |
| 0.04                   | 1.7                       | 148                    | 1.8                   | 831.7     | <b>BS20G06-../D04LA4</b> | 35   | 8000  | -   |
| 0.04                   | 1.4                       | 180                    | 1.5                   | 1000      | <b>BS20G06-../D04LA4</b> | 35   | 8000  | -   |
| 0.04                   | 1.1                       | 225                    | 1.2                   | 1311      | <b>BS20G06-../D04LA4</b> | 35   | 8000  | -   |
| 0.04                   | 1.4                       | 188                    | 2.6                   | 1022      | <b>BS30G06-../D04LA4</b> | 53   | 10000 | -   |
| 0.04                   | 1.2                       | 215                    | 2.3                   | 1176      | <b>BS30G06-../D04LA4</b> | 53   | 10000 | -   |
| 0.04                   | 0.95                      | 275                    | 1.8                   | 1461      | <b>BS30G06-../D04LA4</b> | 53   | 10000 | -   |
| 0.04                   | 0.9                       | 290                    | 1.7                   | 1576      | <b>BS30G06-../D04LA4</b> | 53   | 10000 | -   |
| 0.04                   | 0.75                      | 350                    | 1.4                   | 1886      | <b>BS30G06-../D04LA4</b> | 53   | 10000 | -   |
| 0.04                   | 0.6                       | 435                    | 1.15                  | 2308      | <b>BS30G06-../D04LA4</b> | 53   | 10000 | -   |
| 0.04                   | 0.55                      | 475                    | 1.05                  | 2518      | <b>BS30G06-../D04LA4</b> | 53   | 10000 | -   |

### 0.06 kW



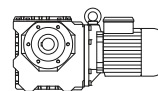
| P <sub>N</sub><br>[kW] | n <sub>2</sub><br>[1/min] | 50 Hz                  |                       | i<br>[:1] | Type                  | m    |      |     |
|------------------------|---------------------------|------------------------|-----------------------|-----------|-----------------------|------|------|-----|
|                        |                           | M <sub>2</sub><br>[Nm] | f <sub>B</sub><br>[—] |           |                       | [kg] | [N]  | [N] |
| 0.06                   | 295                       | 1.7                    | 8.8                   | 4.60      | <b>BS02-../D04LA4</b> | 3.5  | 1000 | -   |
| 0.06                   | 250                       | 2.0                    | 10                    | 5.40      | <b>BS02-../D04LA4</b> | 3.5  | 1000 | -   |
| 0.06                   | 200                       | 2.45                   | 10                    | 6.75      | <b>BS02-../D04LA4</b> | 3.5  | 1000 | -   |
| 0.06                   | 164                       | 2.9                    | 8.6                   | 8.25      | <b>BS02-../D04LA4</b> | 3.5  | 1100 | -   |
| 0.06                   | 127                       | 3.65                   | 6.8                   | 10.67     | <b>BS02-../D04LA4</b> | 3.5  | 1250 | -   |
| 0.06                   | 100                       | 4.45                   | 5.6                   | 13.50     | <b>BS02-../D04LA4</b> | 3.5  | 1250 | -   |
| 0.06                   | 75                        | 5.6                    | 4.5                   | 18.00     | <b>BS02-../D04LA4</b> | 3.5  | 1250 | -   |
| 0.06                   | 62                        | 6.4                    | 3.9                   | 22.00     | <b>BS02-../D04LA4</b> | 3.5  | 1250 | -   |
| 0.06                   | 50                        | 7.2                    | 3.5                   | 27.00     | <b>BS02-../D04LA4</b> | 3.5  | 1250 | -   |
| 0.06                   | 41                        | 8.3                    | 3.0                   | 33.00     | <b>BS02-../D04LA4</b> | 3.5  | 1250 | -   |
| 0.06                   | 31.5                      | 11.2                   | 2.1                   | 43.00     | <b>BS02-../D04LA4</b> | 3.5  | 1250 | -   |
| 0.06                   | 25                        | 13                     | 1.7                   | 54.00     | <b>BS02-../D04LA4</b> | 3.5  | 1250 | -   |
| 0.06                   | 19.5                      | 14.9                   | 1.35                  | 70.00     | <b>BS02-../D04LA4</b> | 3.5  | 1250 | -   |
| 0.06                   | 18                        | 16.2                   | 2.5                   | 75.00     | <b>BS03-../D05LA4</b> | 5.4  | 1950 | -   |
| 0.06                   | 35.5                      | 11.1                   | 3.3                   | 38.42     | <b>BS04-../D04LA4</b> | 3.9  | 2250 | -   |
| 0.06                   | 28.5                      | 13.6                   | 2.8                   | 47.86     | <b>BS04-../D04LA4</b> | 3.9  | 2250 | -   |
| 0.06                   | 21.5                      | 16.7                   | 2.2                   | 64.06     | <b>BS04-../D04LA4</b> | 3.9  | 2250 | -   |
| 0.06                   | 19                        | 19.9                   | 1.9                   | 71.18     | <b>BS04-../D04LA4</b> | 3.9  | 2250 | -   |
| 0.06                   | 18                        | 19.4                   | 1.95                  | 77.00     | <b>BS04-../D04LA4</b> | 3.9  | 2250 | -   |
| 0.06                   | 14.5                      | 23                     | 1.65                  | 93.92     | <b>BS04-../D04LA4</b> | 3.9  | 2250 | -   |
| 0.06                   | 13.5                      | 27                     | 1.4                   | 102.9     | <b>BS04-../D04LA4</b> | 3.9  | 2250 | -   |
| 0.06                   | 12                        | 27                     | 1.4                   | 117.0     | <b>BS04-../D04LA4</b> | 3.9  | 2250 | -   |
| 0.06                   | 11                        | 32.5                   | 1.25                  | 123.0     | <b>BS04-../D04LA4</b> | 3.9  | 2250 | -   |
| 0.06                   | 9.8                       | 36                     | 1.15                  | 138.4     | <b>BS04-../D04LA4</b> | 3.9  | 2250 | -   |
| 0.06                   | 9.0                       | 35                     | 1.1                   | 150.3     | <b>BS04-../D04LA4</b> | 3.9  | 2250 | -   |
| 0.06                   | 8.5                       | 41                     | 0.9                   | 160.1     | <b>BS04-../D04LA4</b> | 3.9  | 2250 | -   |

The torques marked (\*) are maximum permissible torques for service factor f<sub>B</sub>=1.0.

# BS-series worm-geared motors

## Selection - worm-geared motors

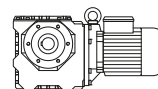
### 0.06 kW



| P <sub>N</sub><br>[kW] | 50 Hz                     |                        |                       | i<br>[:1] | Type                     | m    |       |     |
|------------------------|---------------------------|------------------------|-----------------------|-----------|--------------------------|------|-------|-----|
|                        | n <sub>2</sub><br>[1/min] | M <sub>2</sub><br>[Nm] | f <sub>B</sub><br>[—] |           |                          | [kg] | [N]   | [N] |
| 0.06                   | 7.8                       | 39.5                   | 1.0                   | 174.0     | <b>BS04-../D04LA4</b>    | 3.9  | 2250  | -   |
| 0.06                   | 6.2                       | 48.5                   | 0.82                  | 220.0     | <b>BS04-../D04LA4</b>    | 3.9  | 2250  | -   |
| 0.06                   | 3.6                       | 113                    | 0.83                  | 381.5     | <b>BS06G04-../D04LA4</b> | 11   | 3500  | -   |
| 0.06                   | 11.5                      | 32                     | 2.9                   | 118.8     | <b>BS06-../D04LA4</b>    | 8.4  | 3500  | -   |
| 0.06                   | 10.5                      | 36.5                   | 2.8                   | 129.0     | <b>BS06-../D04LA4</b>    | 8.4  | 3500  | -   |
| 0.06                   | 9.2                       | 40                     | 2.7                   | 146.8     | <b>BS06-../D04LA4</b>    | 8.4  | 3500  | -   |
| 0.06                   | 7.8                       | 44                     | 2.2                   | 174.0     | <b>BS06-../D04LA4</b>    | 8.4  | 3500  | -   |
| 0.06                   | 6.2                       | 54                     | 1.8                   | 220.0     | <b>BS06-../D04LA4</b>    | 8.4  | 3500  | -   |
| 0.06                   | 5.4                       | 61                     | 1.6                   | 252.0     | <b>BS06-../D04LA4</b>    | 8.4  | 3500  | -   |
| 0.06                   | 4.3                       | 75                     | 1.4                   | 315.3     | <b>BS06-../D04LA4</b>    | 8.4  | 3500  | -   |
| 0.06                   | 3.8                       | 84                     | 1.3                   | 358.9     | <b>BS06-../D04LA4</b>    | 8.4  | 3500  | -   |
| 0.06                   | 3.3                       | 95                     | 1.15                  | 418.0     | <b>BS06-../D04LA4</b>    | 8.4  | 3500  | -   |
| 0.06                   | 11.5                      | 36.5                   | 3.3                   | 119.6     | <b>BS10-../D06LA4</b>    | 23   | 6000  | -   |
| 0.06                   | 6.3                       | 58                     | 3.1                   | 216.6     | <b>BS10-../D06LA4</b>    | 23   | 6000  | -   |
| 0.06                   | 5.4                       | 67                     | 2.7                   | 254.0     | <b>BS10Z-../D06LA4</b>   | 24   | 6000  | -   |
| 0.06                   | 4.5                       | 78                     | 2.4                   | 302.5     | <b>BS10Z-../D06LA4</b>   | 24   | 6000  | -   |
| 0.06                   | 3.8                       | 93                     | 2.0                   | 360.3     | <b>BS10Z-../D06LA4</b>   | 24   | 6000  | -   |
| 0.06                   | 3.2                       | 109                    | 1.75                  | 432.4     | <b>BS10Z-../D06LA4</b>   | 24   | 6000  | -   |
| 0.06                   | 2.5                       | 135                    | 1.4                   | 544.8     | <b>BS10Z-../D06LA4</b>   | 24   | 6000  | -   |
| 0.06                   | 2.2                       | 145                    | 1.3                   | 638.7     | <b>BS10Z-../D06LA4</b>   | 24   | 6000  | -   |
| 0.06                   | 1.8                       | 171                    | 1.05                  | 788.7     | <b>BS10Z-../D06LA4</b>   | 24   | 6000  | -   |
| 0.06                   | 3.2                       | 109                    | 3.0                   | 430.8     | <b>BS20Z-../D06LA4</b>   | 35   | 8000  | -   |
| 0.06                   | 2.6                       | 121                    | 3.0                   | 539.7     | <b>BS20Z-../D06LA4</b>   | 35   | 8000  | -   |
| 0.06                   | 2.2                       | 140                    | 2.4                   | 619.2     | <b>BS20Z-../D06LA4</b>   | 35   | 8000  | -   |
| 0.06                   | 1.8                       | 171                    | 1.8                   | 763.4     | <b>BS20Z-../D06LA4</b>   | 35   | 8000  | -   |
| 0.06                   | 1.7                       | 220                    | 1.25                  | 831.7     | <b>BS20G06-../D06LA4</b> | 38   | 8000  | -   |
| 0.06                   | 1.4                       | 270                    | 1.0                   | 1000      | <b>BS20G06-../D06LA4</b> | 38   | 8000  | -   |
| 0.06                   | 1.7                       | 195                    | 2.4                   | 804.1     | <b>BS30Z-../D06LA4</b>   | 54   | 10000 | -   |
| 0.06                   | 1.5                       | 215                    | 2.1                   | 932.0     | <b>BS30Z-../D06LA4</b>   | 54   | 10000 | -   |
| 0.06                   | 1.4                       | 280                    | 1.75                  | 1022      | <b>BS30G06-../D06LA4</b> | 56   | 10000 | -   |
| 0.06                   | 1.2                       | 325                    | 1.5                   | 1176      | <b>BS30G06-../D06LA4</b> | 56   | 10000 | -   |
| 0.06                   | 0.95                      | 415                    | 1.2                   | 1461      | <b>BS30G06-../D06LA4</b> | 56   | 10000 | -   |
| 0.06                   | 0.9                       | 435                    | 1.15                  | 1576      | <b>BS30G06-../D06LA4</b> | 56   | 10000 | -   |
| 0.06                   | 1.5                       | 225                    | 3.3                   | 908.2     | <b>BS40Z-../D06LA4</b>   | 68   | 15000 | -   |
| 0.06                   | 1.4                       | 285                    | 3.1                   | 965.5     | <b>BS40G10-../D06LA4</b> | 73   | 15000 | -   |
| 0.06                   | 1.2                       | 330                    | 2.7                   | 1180      | <b>BS40G10-../D06LA4</b> | 73   | 15000 | -   |
| 0.06                   | 0.95                      | 420                    | 2.1                   | 1499      | <b>BS40G10-../D06LA4</b> | 73   | 15000 | -   |
| 0.06                   | 0.8                       | 500                    | 1.75                  | 1785      | <b>BS40G10-../D06LA4</b> | 73   | 15000 | -   |
| 0.06                   | 0.65                      | 610                    | 1.45                  | 2126      | <b>BS40G10-../D06LA4</b> | 73   | 15000 | -   |
| 0.06                   | 0.6                       | 660                    | 1.35                  | 2304      | <b>BS40G10-../D06LA4</b> | 73   | 15000 | -   |
| 0.06                   | 0.55                      | 720                    | 1.2                   | 2552      | <b>BS40G10-../D06LA4</b> | 73   | 15000 | -   |
| 0.06                   | 0.47                      | 850                    | 1.05                  | 2902      | <b>BS40G10-../D06LA4</b> | 73   | 15000 | -   |

9

### 0.09 kW



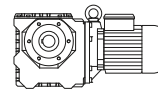
| P <sub>N</sub><br>[kW] | 50 Hz                     |                        |                       | i<br>[:1] | Type                  | m    |      |     |
|------------------------|---------------------------|------------------------|-----------------------|-----------|-----------------------|------|------|-----|
|                        | n <sub>2</sub><br>[1/min] | M <sub>2</sub><br>[Nm] | f <sub>B</sub><br>[—] |           |                       | [kg] | [N]  | [N] |
| 0.09                   | 295                       | 2.55                   | 5.9                   | 4.60      | <b>BS02-../D04LA4</b> | 3.5  | 1000 | -   |
| 0.09                   | 250                       | 3.0                    | 6.7                   | 5.40      | <b>BS02-../D04LA4</b> | 3.5  | 1000 | -   |
| 0.09                   | 200                       | 3.65                   | 6.8                   | 6.75      | <b>BS02-../D04LA4</b> | 3.5  | 1000 | -   |
| 0.09                   | 164                       | 4.4                    | 5.7                   | 8.25      | <b>BS02-../D04LA4</b> | 3.5  | 1100 | -   |
| 0.09                   | 127                       | 5.5                    | 4.5                   | 10.67     | <b>BS02-../D04LA4</b> | 3.5  | 1250 | -   |
| 0.09                   | 100                       | 6.7                    | 3.7                   | 13.50     | <b>BS02-../D04LA4</b> | 3.5  | 1250 | -   |
| 0.09                   | 75                        | 8.4                    | 3.0                   | 18.00     | <b>BS02-../D04LA4</b> | 3.5  | 1250 | -   |
| 0.09                   | 62                        | 9.7                    | 2.6                   | 22.00     | <b>BS02-../D04LA4</b> | 3.5  | 1250 | -   |
| 0.09                   | 50                        | 10.8                   | 2.3                   | 27.00     | <b>BS02-../D04LA4</b> | 3.5  | 1250 | -   |
| 0.09                   | 41                        | 12.5                   | 2.0                   | 33.00     | <b>BS02-../D04LA4</b> | 3.5  | 1250 | -   |
| 0.09                   | 31.5                      | 16.9                   | 1.4                   | 43.00     | <b>BS02-../D04LA4</b> | 3.5  | 1250 | -   |
| 0.09                   | 25                        | 19.5                   | 1.15                  | 54.00     | <b>BS02-../D04LA4</b> | 3.5  | 1250 | -   |

The torques marked (\*) are maximum permissible torques for service factor f<sub>B</sub>=1.0.

# BS-series worm-geared motors

## Selection - worm-geared motors

0.09 kW



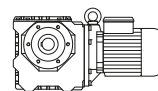
| P <sub>N</sub><br>[kW] | 50 Hz                     |                        |                       | i<br>[:1] | Type                     | m<br>[kg] | [N]   | [N] |
|------------------------|---------------------------|------------------------|-----------------------|-----------|--------------------------|-----------|-------|-----|
|                        | n <sub>2</sub><br>[1/min] | M <sub>2</sub><br>[Nm] | f <sub>B</sub><br>[-] |           |                          |           |       |     |
| 0.09                   | 19.5                      | 22                     | 0.91                  | 70.00     | <b>BS02-../D04LA4</b>    | 3.5       | 1250  | -   |
| 0.09                   | 27                        | 18.4                   | 3.0                   | 50.00     | <b>BS03-../D05LA4</b>    | 5.4       | 1950  | -   |
| 0.09                   | 22                        | 20.5                   | 2.3                   | 62.00     | <b>BS03-../D05LA4</b>    | 5.4       | 1950  | -   |
| 0.09                   | 18                        | 24                     | 1.65                  | 75.00     | <b>BS03-../D05LA4</b>    | 5.4       | 1950  | -   |
| 0.09                   | 56                        | 11.6                   | 2.9                   | 24.25     | <b>BS04-../D04LA4</b>    | 3.9       | 2250  | -   |
| 0.09                   | 52                        | 11.7                   | 3.2                   | 26.21     | <b>BS04-../D04LA4</b>    | 3.9       | 2250  | -   |
| 0.09                   | 43                        | 13.9                   | 2.7                   | 31.50     | <b>BS04-../D04LA4</b>    | 3.9       | 2250  | -   |
| 0.09                   | 35.5                      | 16.7                   | 2.2                   | 38.42     | <b>BS04-../D04LA4</b>    | 3.9       | 2250  | -   |
| 0.09                   | 28.5                      | 20.5                   | 1.85                  | 47.86     | <b>BS04-../D04LA4</b>    | 3.9       | 2250  | -   |
| 0.09                   | 21.5                      | 25                     | 1.45                  | 64.06     | <b>BS04-../D04LA4</b>    | 3.9       | 2250  | -   |
| 0.09                   | 19                        | 29.5                   | 1.3                   | 71.18     | <b>BS04-../D04LA4</b>    | 3.9       | 2250  | -   |
| 0.09                   | 18                        | 29                     | 1.3                   | 77.00     | <b>BS04-../D04LA4</b>    | 3.9       | 2250  | -   |
| 0.09                   | 14.5                      | 34.5                   | 1.1                   | 93.92     | <b>BS04-../D04LA4</b>    | 3.9       | 2250  | -   |
| 0.09                   | 13.5                      | 40.5                   | 0.94                  | 102.9     | <b>BS04-../D04LA4</b>    | 3.9       | 2250  | -   |
| 0.09                   | 12                        | 40.5                   | 0.94                  | 117.0     | <b>BS04-../D04LA4</b>    | 3.9       | 2250  | -   |
| 0.09                   | 11                        | 49                     | 0.84                  | 123.0     | <b>BS04-../D04LA4</b>    | 3.9       | 2250  | -   |
| 0.09                   | 21.5                      | 27                     | 3.0                   | 64.06     | <b>BS06-../D04LA4</b>    | 8.4       | 3500  | -   |
| 0.09                   | 19                        | 32                     | 2.9                   | 71.18     | <b>BS06-../D04LA4</b>    | 8.4       | 3500  | -   |
| 0.09                   | 18                        | 31.5                   | 2.7                   | 77.00     | <b>BS06-../D04LA4</b>    | 8.4       | 3500  | -   |
| 0.09                   | 15                        | 40                     | 2.5                   | 90.00     | <b>BS06-../D04LA4</b>    | 8.4       | 3500  | -   |
| 0.09                   | 13.5                      | 43.5                   | 2.3                   | 103.1     | <b>BS06-../D04LA4</b>    | 8.4       | 3500  | -   |
| 0.09                   | 11.5                      | 48.5                   | 1.95                  | 118.8     | <b>BS06-../D04LA4</b>    | 8.4       | 3500  | -   |
| 0.09                   | 10.5                      | 54                     | 1.95                  | 129.0     | <b>BS06-../D04LA4</b>    | 8.4       | 3500  | -   |
| 0.09                   | 9.2                       | 60                     | 1.75                  | 146.8     | <b>BS06-../D04LA4</b>    | 8.4       | 3500  | -   |
| 0.09                   | 7.8                       | 66                     | 1.5                   | 174.0     | <b>BS06-../D04LA4</b>    | 8.4       | 3500  | -   |
| 0.09                   | 6.2                       | 81                     | 1.2                   | 220.0     | <b>BS06-../D04LA4</b>    | 8.4       | 3500  | -   |
| 0.09                   | 5.4                       | 92                     | 1.1                   | 252.0     | <b>BS06-../D04LA4</b>    | 8.4       | 3500  | -   |
| 0.09                   | 4.3                       | 113                    | 0.94                  | 315.3     | <b>BS06-../D04LA4</b>    | 8.4       | 3500  | -   |
| 0.09                   | 3.8                       | 126                    | 0.87                  | 358.9     | <b>BS06-../D04LA4</b>    | 8.4       | 3500  | -   |
| 0.09                   | 11.5                      | 55                     | 2.2                   | 119.6     | <b>BS10-../D06LA4</b>    | 23        | 6000  | -   |
| 0.09                   | 10.5                      | 52                     | 3.2                   | 130.3     | <b>BS10-../D06LA4</b>    | 23        | 6000  | -   |
| 0.09                   | 8.9                       | 61                     | 2.7                   | 152.7     | <b>BS10-../D06LA4</b>    | 23        | 6000  | -   |
| 0.09                   | 7.2                       | 76                     | 2.2                   | 188.6     | <b>BS10-../D06LA4</b>    | 23        | 6000  | -   |
| 0.09                   | 6.3                       | 87                     | 2.1                   | 216.6     | <b>BS10-../D06LA4</b>    | 23        | 6000  | -   |
| 0.09                   | 5.4                       | 101                    | 1.8                   | 254.0     | <b>BS10Z-../D06LA4</b>   | 24        | 6000  | -   |
| 0.09                   | 4.5                       | 118                    | 1.6                   | 302.5     | <b>BS10Z-../D06LA4</b>   | 24        | 6000  | -   |
| 0.09                   | 3.8                       | 140                    | 1.35                  | 360.3     | <b>BS10Z-../D06LA4</b>   | 24        | 6000  | -   |
| 0.09                   | 3.2                       | 163                    | 1.15                  | 432.4     | <b>BS10Z-../D06LA4</b>   | 24        | 6000  | -   |
| 0.09                   | 2.5                       | 200                    | 0.95                  | 544.8     | <b>BS10Z-../D06LA4</b>   | 24        | 6000  | -   |
| 0.09                   | 2.2                       | 215                    | 0.88                  | 638.7     | <b>BS10Z-../D06LA4</b>   | 24        | 6000  | -   |
| 0.09                   | 6.0                       | 91                     | 3.2                   | 225.6     | <b>BS20-../D06LA4</b>    | 34        | 8000  | -   |
| 0.09                   | 5.3                       | 103                    | 2.9                   | 257.8     | <b>BS20Z-../D06LA4</b>   | 35        | 8000  | -   |
| 0.09                   | 4.5                       | 120                    | 2.5                   | 300.1     | <b>BS20Z-../D06LA4</b>   | 35        | 8000  | -   |
| 0.09                   | 3.8                       | 140                    | 2.3                   | 359.9     | <b>BS20Z-../D06LA4</b>   | 35        | 8000  | -   |
| 0.09                   | 3.2                       | 163                    | 2.0                   | 430.8     | <b>BS20Z-../D06LA4</b>   | 35        | 8000  | -   |
| 0.09                   | 2.6                       | 181                    | 2.0                   | 539.7     | <b>BS20Z-../D06LA4</b>   | 35        | 8000  | -   |
| 0.09                   | 2.2                       | 210                    | 1.55                  | 619.2     | <b>BS20Z-../D06LA4</b>   | 35        | 8000  | -   |
| 0.09                   | 1.8                       | 255                    | 1.2                   | 763.4     | <b>BS20Z-../D06LA4</b>   | 35        | 8000  | -   |
| 0.09                   | 1.7                       | 330                    | 0.82                  | 831.7     | <b>BS20G06-../D06LA4</b> | 38        | 8000  | -   |
| 0.09                   | 3.8                       | 167                    | 2.4                   | 359.6     | <b>BS30Z-../D06LA4</b>   | 54        | 10000 | -   |
| 0.09                   | 3.0                       | 183                    | 3.3                   | 457.3     | <b>BS30Z-../D06LA4</b>   | 54        | 10000 | -   |
| 0.09                   | 2.6                       | 210                    | 2.9                   | 539.3     | <b>BS30Z-../D06LA4</b>   | 54        | 10000 | -   |
| 0.09                   | 2.1                       | 245                    | 2.4                   | 651.0     | <b>BS30Z-../D06LA4</b>   | 54        | 10000 | -   |
| 0.09                   | 1.7                       | 290                    | 1.65                  | 804.1     | <b>BS30Z-../D06LA4</b>   | 54        | 10000 | -   |
| 0.09                   | 1.5                       | 325                    | 1.4                   | 932.0     | <b>BS30Z-../D06LA4</b>   | 54        | 10000 | -   |
| 0.09                   | 1.4                       | 420                    | 1.15                  | 1022      | <b>BS30G06-../D06LA4</b> | 56        | 10000 | -   |
| 0.09                   | 1.2                       | 490                    | 1.0                   | 1176      | <b>BS30G06-../D06LA4</b> | 56        | 10000 | -   |
| 0.09                   | 1.9                       | 270                    | 2.8                   | 736.5     | <b>BS40Z-../D06LA4</b>   | 68        | 15000 | -   |
| 0.09                   | 1.5                       | 335                    | 2.2                   | 908.2     | <b>BS40Z-../D06LA4</b>   | 68        | 15000 | -   |
| 0.09                   | 1.4                       | 425                    | 2.1                   | 965.5     | <b>BS40G10-../D06LA4</b> | 73        | 15000 | -   |
| 0.09                   | 1.2                       | 500                    | 1.75                  | 1180      | <b>BS40G10-../D06LA4</b> | 73        | 15000 | -   |
| 0.09                   | 0.95                      | 630                    | 1.4                   | 1499      | <b>BS40G10-../D06LA4</b> | 73        | 15000 | -   |

The torques marked (\*) are maximum permissible torques for service factor f<sub>B</sub>=1.0.

# BS-series worm-geared motors

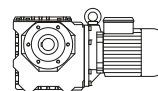
## Selection - worm-geared motors

### 0.09 kW



| P <sub>N</sub><br>[kW] | n <sub>2</sub><br>[1/min] | 50 Hz                  |                       | i<br>[:1] | Type                     | m<br>[kg] | [N]   | [N] |
|------------------------|---------------------------|------------------------|-----------------------|-----------|--------------------------|-----------|-------|-----|
|                        |                           | M <sub>2</sub><br>[Nm] | f <sub>B</sub><br>[—] |           |                          |           |       |     |
| 0.09                   | 0.8                       | 750                    | 1.15                  | 1785      | <b>BS40G10-../D06LA4</b> | 73        | 15000 | -   |

### 0.11 kW



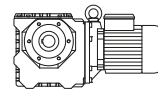
| P <sub>N</sub><br>[kW] | n <sub>2</sub><br>[1/min] | 50 Hz                  |                       | i<br>[:1] | Type                     | m<br>[kg] | [N]  | [N] |
|------------------------|---------------------------|------------------------|-----------------------|-----------|--------------------------|-----------|------|-----|
|                        |                           | M <sub>2</sub><br>[Nm] | f <sub>B</sub><br>[—] |           |                          |           |      |     |
| 0.11                   | 295                       | 3.1                    | 4.8                   | 4.60      | <b>BS02-../D04LA4</b>    | 3.5       | 1000 | -   |
| 0.11                   | 250                       | 3.65                   | 5.5                   | 5.40      | <b>BS02-../D04LA4</b>    | 3.5       | 1000 | -   |
| 0.11                   | 200                       | 4.5                    | 5.6                   | 6.75      | <b>BS02-../D04LA4</b>    | 3.5       | 1000 | -   |
| 0.11                   | 164                       | 5.3                    | 4.7                   | 8.25      | <b>BS02-../D04LA4</b>    | 3.5       | 1100 | -   |
| 0.11                   | 127                       | 6.7                    | 3.7                   | 10.67     | <b>BS02-../D04LA4</b>    | 3.5       | 1250 | -   |
| 0.11                   | 100                       | 8.1                    | 3.1                   | 13.50     | <b>BS02-../D04LA4</b>    | 3.5       | 1250 | -   |
| 0.11                   | 75                        | 10.3                   | 2.4                   | 18.00     | <b>BS02-../D04LA4</b>    | 3.5       | 1250 | -   |
| 0.11                   | 62                        | 11.8                   | 2.1                   | 22.00     | <b>BS02-../D04LA4</b>    | 3.5       | 1250 | -   |
| 0.11                   | 50                        | 13.2                   | 1.9                   | 27.00     | <b>BS02-../D04LA4</b>    | 3.5       | 1250 | -   |
| 0.11                   | 41                        | 15.3                   | 1.65                  | 33.00     | <b>BS02-../D04LA4</b>    | 3.5       | 1250 | -   |
| 0.11                   | 31.5                      | 20.5                   | 1.15                  | 43.00     | <b>BS02-../D04LA4</b>    | 3.5       | 1250 | -   |
| 0.11                   | 25                        | 23.5                   | 0.94                  | 54.00     | <b>BS02-../D04LA4</b>    | 3.5       | 1250 | -   |
| 0.11                   | 65                        | 12.2                   | 3.0                   | 20.96     | <b>BS04-../D04LA4</b>    | 3.9       | 2100 | -   |
| 0.11                   | 56                        | 14.2                   | 2.4                   | 24.25     | <b>BS04-../D04LA4</b>    | 3.9       | 2250 | -   |
| 0.11                   | 52                        | 14.3                   | 2.7                   | 26.21     | <b>BS04-../D04LA4</b>    | 3.9       | 2250 | -   |
| 0.11                   | 43                        | 17.1                   | 2.2                   | 31.50     | <b>BS04-../D04LA4</b>    | 3.9       | 2250 | -   |
| 0.11                   | 35.5                      | 20                     | 1.85                  | 38.42     | <b>BS04-../D04LA4</b>    | 3.9       | 2250 | -   |
| 0.11                   | 28.5                      | 25                     | 1.5                   | 47.86     | <b>BS04-../D04LA4</b>    | 3.9       | 2250 | -   |
| 0.11                   | 21.5                      | 30.5                   | 1.2                   | 64.06     | <b>BS04-../D04LA4</b>    | 3.9       | 2250 | -   |
| 0.11                   | 19                        | 36                     | 1.05                  | 71.18     | <b>BS04-../D04LA4</b>    | 3.9       | 2250 | -   |
| 0.11                   | 18                        | 35.5                   | 1.05                  | 77.00     | <b>BS04-../D04LA4</b>    | 3.9       | 2250 | -   |
| 0.11                   | 14.5                      | 42.5                   | 0.89                  | 93.92     | <b>BS04-../D04LA4</b>    | 3.9       | 2250 | -   |
| 0.11                   | 3.6                       | 94*                    | 1.0                   | 381.5     | <b>BS06G04-../D04LA4</b> | 11        | 3500 | -   |
| 0.11                   | 2.9                       | 94*                    | 1.0                   | 474.8     | <b>BS06G04-../D04LA4</b> | 11        | 3500 | -   |
| 0.11                   | 2.5                       | 100*                   | 1.0                   | 552.6     | <b>BS06G04-../D04LA4</b> | 11        | 3500 | -   |
| 0.11                   | 2.3                       | 94*                    | 1.0                   | 610.7     | <b>BS06G04-../D04LA4</b> | 11        | 3500 | -   |
| 0.11                   | 2.0                       | 94*                    | 1.0                   | 704.7     | <b>BS06G04-../D04LA4</b> | 11        | 3500 | -   |
| 0.11                   | 1.6                       | 94*                    | 1.0                   | 847.0     | <b>BS06G04-../D04LA4</b> | 11        | 3500 | -   |
| 0.11                   | 1.5                       | 94*                    | 1.0                   | 939.6     | <b>BS06G04-../D04LA4</b> | 11        | 3500 | -   |
| 0.11                   | 1.2                       | 94*                    | 1.0                   | 1170      | <b>BS06G04-../D04LA4</b> | 11        | 3500 | -   |
| 0.11                   | 0.9                       | 94*                    | 1.0                   | 1503      | <b>BS06G04-../D04LA4</b> | 11        | 3500 | -   |
| 0.11                   | 0.85                      | 94*                    | 1.0                   | 1654      | <b>BS06G04-../D04LA4</b> | 11        | 3500 | -   |
| 0.11                   | 0.75                      | 94*                    | 1.0                   | 1914      | <b>BS06G04-../D04LA4</b> | 11        | 3500 | -   |
| 0.11                   | 0.65                      | 94*                    | 1.0                   | 2200      | <b>BS06G04-../D04LA4</b> | 11        | 3500 | -   |
| 0.11                   | 0.49                      | 94*                    | 1.0                   | 2768      | <b>BS06G04-../D04LA4</b> | 11        | 3500 | -   |
| 0.11                   | 0.45                      | 94*                    | 1.0                   | 3007      | <b>BS06G04-../D04LA4</b> | 11        | 3500 | -   |
| 0.11                   | 0.41                      | 94*                    | 1.0                   | 3308      | <b>BS06G04-../D04LA4</b> | 11        | 3500 | -   |
| 0.11                   | 0.37                      | 94*                    | 1.0                   | 3721      | <b>BS06G04-../D04LA4</b> | 11        | 3500 | -   |
| 0.11                   | 0.32                      | 94*                    | 1.0                   | 4304      | <b>BS06G04-../D04LA4</b> | 11        | 3500 | -   |
| 0.11                   | 0.28                      | 98*                    | 1.0                   | 4947      | <b>BS06G04-../D04LA4</b> | 11        | 3500 | -   |
| 0.11                   | 0.25                      | 98*                    | 1.0                   | 5442      | <b>BS06G04-../D04LA4</b> | 11        | 3500 | -   |
| 0.11                   | 0.22                      | 100*                   | 1.0                   | 6234      | <b>BS06G04-../D04LA4</b> | 11        | 3500 | -   |
| 0.11                   | 28                        | 27                     | 3.3                   | 48.60     | <b>BS06-../D04LA4</b>    | 8.4       | 3500 | -   |
| 0.11                   | 23.5                      | 31.5                   | 2.9                   | 58.15     | <b>BS06-../D04LA4</b>    | 8.4       | 3500 | -   |
| 0.11                   | 21.5                      | 33                     | 2.4                   | 64.06     | <b>BS06-../D04LA4</b>    | 8.4       | 3500 | -   |
| 0.11                   | 19                        | 39                     | 2.4                   | 71.18     | <b>BS06-../D04LA4</b>    | 8.4       | 3500 | -   |
| 0.11                   | 18                        | 39                     | 2.2                   | 77.00     | <b>BS06-../D04LA4</b>    | 8.4       | 3500 | -   |
| 0.11                   | 15                        | 49                     | 2.0                   | 90.00     | <b>BS06-../D04LA4</b>    | 8.4       | 3500 | -   |
| 0.11                   | 13.5                      | 53                     | 1.9                   | 103.1     | <b>BS06-../D04LA4</b>    | 8.4       | 3500 | -   |
| 0.11                   | 11.5                      | 59                     | 1.6                   | 118.8     | <b>BS06-../D04LA4</b>    | 8.4       | 3500 | -   |
| 0.11                   | 10.5                      | 67                     | 1.55                  | 129.0     | <b>BS06-../D04LA4</b>    | 8.4       | 3500 | -   |
| 0.11                   | 9.2                       | 74                     | 1.45                  | 146.8     | <b>BS06-../D04LA4</b>    | 8.4       | 3500 | -   |
| 0.11                   | 7.8                       | 80                     | 1.25                  | 174.0     | <b>BS06-../D04LA4</b>    | 8.4       | 3500 | -   |
| 0.11                   | 6.2                       | 99                     | 0.99                  | 220.0     | <b>BS06-../D04LA4</b>    | 8.4       | 3500 | -   |
| 0.11                   | 5.4                       | 112                    | 0.88                  | 252.0     | <b>BS06-../D04LA4</b>    | 8.4       | 3500 | -   |

The torques marked (\*) are maximum permissible torques for service factor f<sub>B</sub>=1.0.

# BS-series worm-geared motors

## Selection - worm-geared motors

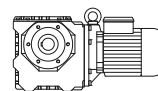
0.11 kW



| P <sub>N</sub><br>[kW] | n <sub>2</sub><br>[1/min] | 50 Hz                  |                       | i<br>[:1] | Type              | m<br>[kg] | [N]   | [N] |
|------------------------|---------------------------|------------------------|-----------------------|-----------|-------------------|-----------|-------|-----|
|                        |                           | M <sub>2</sub><br>[Nm] | f <sub>B</sub><br>[-] |           |                   |           |       |     |
| 0.11                   | 6.8                       | 98                     | 1.5                   | 200.0     | BS10Z-../D04LA4   | 21        | 6000  | -   |
| 0.11                   | 5.4                       | 124                    | 1.45                  | 254.0     | BS10Z-../D04LA4   | 21        | 6000  | -   |
| 0.11                   | 4.5                       | 144                    | 1.3                   | 302.5     | BS10Z-../D04LA4   | 21        | 6000  | -   |
| 0.11                   | 3.8                       | 171                    | 1.1                   | 360.3     | BS10Z-../D04LA4   | 21        | 6000  | -   |
| 0.11                   | 3.2                       | 200                    | 0.95                  | 432.4     | BS10Z-../D04LA4   | 21        | 6000  | -   |
| 0.11                   | 1.4                       | 160*                   | 1.0                   | 969.9     | BS10G06-../D04LA4 | 25        | 6000  | -   |
| 0.11                   | 1.2                       | 160*                   | 1.0                   | 1166      | BS10G06-../D04LA4 | 25        | 6000  | -   |
| 0.11                   | 1.1                       | 160*                   | 1.0                   | 1342      | BS10G06-../D04LA4 | 25        | 6000  | -   |
| 0.11                   | 0.9                       | 160*                   | 1.0                   | 1528      | BS10G06-../D04LA4 | 25        | 6000  | -   |
| 0.11                   | 0.85                      | 160*                   | 1.0                   | 1668      | BS10G06-../D04LA4 | 25        | 6000  | -   |
| 0.11                   | 0.7                       | 160*                   | 1.0                   | 1963      | BS10G06-../D04LA4 | 25        | 6000  | -   |
| 0.11                   | 0.6                       | 160*                   | 1.0                   | 2348      | BS10G06-../D04LA4 | 25        | 6000  | -   |
| 0.11                   | 0.55                      | 160*                   | 1.0                   | 2635      | BS10G06-../D04LA4 | 25        | 6000  | -   |
| 0.11                   | 0.47                      | 160*                   | 1.0                   | 2875      | BS10G06-../D04LA4 | 25        | 6000  | -   |
| 0.11                   | 0.41                      | 160*                   | 1.0                   | 3332      | BS10G06-../D04LA4 | 25        | 6000  | -   |
| 0.11                   | 0.38                      | 160*                   | 1.0                   | 3635      | BS10G06-../D04LA4 | 25        | 6000  | -   |
| 0.11                   | 0.33                      | 160*                   | 1.0                   | 4163      | BS10G06-../D04LA4 | 25        | 6000  | -   |
| 0.11                   | 0.29                      | 160*                   | 1.0                   | 4776      | BS10G06-../D04LA4 | 25        | 6000  | -   |
| 0.11                   | 0.26                      | 160*                   | 1.0                   | 5209      | BS10G06-../D04LA4 | 25        | 6000  | -   |
| 0.11                   | 0.23                      | 164*                   | 1.0                   | 6019      | BS10G06-../D04LA4 | 25        | 6000  | -   |
| 0.11                   | 0.21                      | 164*                   | 1.0                   | 6565      | BS10G06-../D04LA4 | 25        | 6000  | -   |
| 0.11                   | 0.19                      | 164*                   | 1.0                   | 7471      | BS10G06-../D04LA4 | 25        | 6000  | -   |
| 0.11                   | 0.16                      | 164*                   | 1.0                   | 8703      | BS10G06-../D04LA4 | 25        | 6000  | -   |
| 0.11                   | 6.8                       | 98                     | 2.9                   | 201.4     | BS20Z-../D04LA4   | 32        | 8000  | -   |
| 0.11                   | 5.3                       | 126                    | 2.3                   | 257.8     | BS20Z-../D04LA4   | 32        | 8000  | -   |
| 0.11                   | 4.5                       | 147                    | 2.0                   | 300.1     | BS20Z-../D04LA4   | 32        | 8000  | -   |
| 0.11                   | 3.8                       | 171                    | 1.85                  | 359.9     | BS20Z-../D04LA4   | 32        | 8000  | -   |
| 0.11                   | 3.2                       | 200                    | 1.65                  | 430.8     | BS20Z-../D04LA4   | 32        | 8000  | -   |
| 0.11                   | 2.6                       | 220                    | 1.65                  | 539.7     | BS20Z-../D04LA4   | 32        | 8000  | -   |
| 0.11                   | 2.2                       | 255                    | 1.3                   | 619.2     | BS20Z-../D04LA4   | 32        | 8000  | -   |
| 0.11                   | 1.8                       | 315                    | 0.98                  | 763.4     | BS20Z-../D04LA4   | 32        | 8000  | -   |
| 0.11                   | 1.7                       | 270*                   | 1.0                   | 831.7     | BS20G06-../D04LA4 | 35        | 8000  | -   |
| 0.11                   | 1.4                       | 270*                   | 1.0                   | 1000      | BS20G06-../D04LA4 | 35        | 8000  | -   |
| 0.11                   | 1.1                       | 270*                   | 1.0                   | 1311      | BS20G06-../D04LA4 | 35        | 8000  | -   |
| 0.11                   | 0.9                       | 270*                   | 1.0                   | 1543      | BS20G06-../D04LA4 | 35        | 8000  | -   |
| 0.11                   | 0.85                      | 270*                   | 1.0                   | 1683      | BS20G06-../D04LA4 | 35        | 8000  | -   |
| 0.11                   | 0.7                       | 270*                   | 1.0                   | 2014      | BS20G06-../D04LA4 | 35        | 8000  | -   |
| 0.11                   | 0.55                      | 270*                   | 1.0                   | 2465      | BS20G06-../D04LA4 | 35        | 8000  | -   |
| 0.11                   | 0.48                      | 270*                   | 1.0                   | 2857      | BS20G06-../D04LA4 | 35        | 8000  | -   |
| 0.11                   | 0.44                      | 270*                   | 1.0                   | 3117      | BS20G06-../D04LA4 | 35        | 8000  | -   |
| 0.11                   | 0.38                      | 270*                   | 1.0                   | 3570      | BS20G06-../D04LA4 | 35        | 8000  | -   |
| 0.11                   | 0.33                      | 270*                   | 1.0                   | 4096      | BS20G06-../D04LA4 | 35        | 8000  | -   |
| 0.11                   | 0.28                      | 270*                   | 1.0                   | 4910      | BS20G06-../D04LA4 | 35        | 8000  | -   |
| 0.11                   | 0.23                      | 270*                   | 1.0                   | 5880      | BS20G06-../D04LA4 | 35        | 8000  | -   |
| 0.11                   | 0.19                      | 275*                   | 1.0                   | 7363      | BS20G06-../D04LA4 | 35        | 8000  | -   |
| 0.11                   | 0.17                      | 275*                   | 1.0                   | 8031      | BS20G06-../D04LA4 | 35        | 8000  | -   |
| 0.11                   | 0.15                      | 280*                   | 1.0                   | 9220      | BS20G06-../D04LA4 | 35        | 8000  | -   |
| 0.11                   | 1.4                       | 510                    | 0.96                  | 1022      | BS30G06-../D04LA4 | 53        | 10000 | -   |
| 0.11                   | 1.2                       | 600                    | 0.82                  | 1176      | BS30G06-../D04LA4 | 53        | 10000 | -   |
| 0.11                   | 0.95                      | 490*                   | 1.0                   | 1461      | BS30G06-../D04LA4 | 53        | 10000 | -   |
| 0.11                   | 0.9                       | 490*                   | 1.0                   | 1576      | BS30G06-../D04LA4 | 53        | 10000 | -   |
| 0.11                   | 0.75                      | 490*                   | 1.0                   | 1886      | BS30G06-../D04LA4 | 53        | 10000 | -   |
| 0.11                   | 0.6                       | 490*                   | 1.0                   | 2308      | BS30G06-../D04LA4 | 53        | 10000 | -   |
| 0.11                   | 0.55                      | 490*                   | 1.0                   | 2518      | BS30G06-../D04LA4 | 53        | 10000 | -   |
| 0.11                   | 0.47                      | 490*                   | 1.0                   | 2919      | BS30G06-../D04LA4 | 53        | 10000 | -   |
| 0.11                   | 0.41                      | 490*                   | 1.0                   | 3344      | BS30G06-../D04LA4 | 53        | 10000 | -   |
| 0.11                   | 0.38                      | 490*                   | 1.0                   | 3647      | BS30G06-../D04LA4 | 53        | 10000 | -   |
| 0.11                   | 0.33                      | 490*                   | 1.0                   | 4184      | BS30G06-../D04LA4 | 53        | 10000 | -   |
| 0.11                   | 0.28                      | 510*                   | 1.0                   | 4905      | BS30G06-../D04LA4 | 53        | 10000 | -   |
| 0.11                   | 0.24                      | 520*                   | 1.0                   | 5783      | BS30G06-../D04LA4 | 53        | 10000 | -   |
| 0.11                   | 0.22                      | 520*                   | 1.0                   | 6308      | BS30G06-../D04LA4 | 53        | 10000 | -   |
| 0.11                   | 0.19                      | 520*                   | 1.0                   | 7179      | BS30G06-../D04LA4 | 53        | 10000 | -   |
| 0.11                   | 0.17                      | 520*                   | 1.0                   | 8362      | BS30G06-../D04LA4 | 53        | 10000 | -   |

The torques marked (\*) are maximum permissible torques for service factor f<sub>B</sub>=1.0.

### 0.12 kW



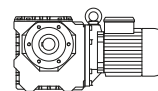
| P <sub>N</sub><br>[kW] | 50 Hz                     |                        |                       | i<br>[:1] | Type                | m<br>[kg] | [N]  | [N] |
|------------------------|---------------------------|------------------------|-----------------------|-----------|---------------------|-----------|------|-----|
|                        | n <sub>2</sub><br>[1/min] | M <sub>2</sub><br>[Nm] | f <sub>B</sub><br>[-] |           |                     |           |      |     |
| 0.12                   | 305                       | 3.3                    | 4.5                   | 4.60      | BS02-../DHE05LA4    | 5.3       | 1000 | -   |
| 0.12                   | 260                       | 3.85                   | 5.2                   | 5.40      | BS02-../DHE05LA4    | 5.3       | 1000 | -   |
| 0.12                   | 210                       | 4.65                   | 5.4                   | 6.75      | BS02-../DHE05LA4    | 5.3       | 1000 | -   |
| 0.12                   | 169                       | 5.6                    | 4.5                   | 8.25      | BS02-../DHE05LA4    | 5.3       | 1100 | -   |
| 0.12                   | 131                       | 7.1                    | 3.5                   | 10.67     | BS02-../DHE05LA4    | 5.3       | 1250 | -   |
| 0.12                   | 103                       | 8.6                    | 2.9                   | 13.50     | BS02-../DHE05LA4    | 5.3       | 1250 | -   |
| 0.12                   | 78                        | 10.8                   | 2.3                   | 18.00     | BS02-../DHE05LA4    | 5.3       | 1250 | -   |
| 0.12                   | 64                        | 12.5                   | 2.0                   | 22.00     | BS02-../DHE05LA4    | 5.3       | 1250 | -   |
| 0.12                   | 52                        | 13.8                   | 1.8                   | 27.00     | BS02-../DHE05LA4    | 5.3       | 1250 | -   |
| 0.12                   | 42.5                      | 16.1                   | 1.55                  | 33.00     | BS02-../DHE05LA4    | 5.3       | 1250 | -   |
| 0.12                   | 32.5                      | 21.5                   | 1.1                   | 43.00     | BS02-../DHE05LA4    | 5.3       | 1250 | -   |
| 0.12                   | 26                        | 25                     | 0.88                  | 54.00     | BS02-../DHE05LA4    | 5.3       | 1250 | -   |
| 0.12                   | 36                        | 20                     | 2.8                   | 39.00     | BS03-../DHE05LA4    | 5.4       | 1950 | -   |
| 0.12                   | 28                        | 23.5                   | 2.3                   | 50.00     | BS03-../DHE05LA4    | 5.4       | 1950 | -   |
| 0.12                   | 22.5                      | 26.5                   | 1.8                   | 62.00     | BS03-../DHE05LA4    | 5.4       | 1950 | -   |
| 0.12                   | 19                        | 30.5                   | 1.3                   | 75.00     | BS03-../DHE05LA4    | 5.4       | 1950 | -   |
| 0.12                   | 78                        | 10.4                   | 3.3                   | 18.00     | BS04-../DHE05LA4    | 5.8       | 1950 | -   |
| 0.12                   | 67                        | 12.9                   | 2.9                   | 20.96     | BS04-../DHE05LA4    | 5.8       | 2100 | -   |
| 0.12                   | 58                        | 15                     | 2.3                   | 24.25     | BS04-../DHE05LA4    | 5.8       | 2250 | -   |
| 0.12                   | 54                        | 15                     | 2.5                   | 26.21     | BS04-../DHE05LA4    | 5.8       | 2250 | -   |
| 0.12                   | 44.5                      | 18                     | 2.1                   | 31.50     | BS04-../DHE05LA4    | 5.8       | 2250 | -   |
| 0.12                   | 36.5                      | 21.5                   | 1.7                   | 38.42     | BS04-../DHE05LA4    | 5.8       | 2250 | -   |
| 0.12                   | 29.5                      | 26                     | 1.45                  | 47.86     | BS04-../DHE05LA4    | 5.8       | 2250 | -   |
| 0.12                   | 23                        | 33                     | 1.15                  | 61.50     | BS04-../DHE05LA4    | 5.8       | 2250 | -   |
| 0.12                   | 22                        | 32.5                   | 1.1                   | 64.06     | BS04-../DHE05LA4    | 5.8       | 2250 | -   |
| 0.12                   | 20                        | 37.5                   | 1.0                   | 71.18     | BS04-../DHE05LA4    | 5.8       | 2250 | -   |
| 0.12                   | 18.5                      | 37.5                   | 1.0                   | 77.00     | BS04-../DHE05LA4    | 5.8       | 2250 | -   |
| 0.12                   | 15                        | 45                     | 0.84                  | 93.92     | BS04-../DHE05LA4    | 5.8       | 2250 | -   |
| 0.12                   | 29                        | 28                     | 3.1                   | 48.60     | BS06-../DHE05LA4    | 10        | 3500 | -   |
| 0.12                   | 24                        | 33.5                   | 2.7                   | 58.15     | BS06-../DHE05LA4    | 10        | 3500 | -   |
| 0.12                   | 22                        | 35                     | 2.3                   | 64.06     | BS06-../DHE05LA4    | 10        | 3500 | -   |
| 0.12                   | 20                        | 40.5                   | 2.3                   | 71.18     | BS06-../DHE05LA4    | 10        | 3500 | -   |
| 0.12                   | 18.5                      | 41.5                   | 2.0                   | 77.00     | BS06-../DHE05LA4    | 10        | 3500 | -   |
| 0.12                   | 15.5                      | 51                     | 1.9                   | 90.00     | BS06-../DHE05LA4    | 10        | 3500 | -   |
| 0.12                   | 13.5                      | 58                     | 1.7                   | 103.1     | BS06-../DHE05LA4    | 10        | 3500 | -   |
| 0.12                   | 12                        | 62                     | 1.5                   | 118.8     | BS06-../DHE05LA4    | 10        | 3500 | -   |
| 0.12                   | 11                        | 69                     | 1.5                   | 129.0     | BS06-../DHE05LA4    | 10        | 3500 | -   |
| 0.12                   | 9.5                       | 78                     | 1.35                  | 146.8     | BS06-../DHE05LA4    | 10        | 3500 | -   |
| 0.12                   | 8.0                       | 85                     | 1.15                  | 174.0     | BS06-../DHE05LA4    | 10        | 3500 | -   |
| 0.12                   | 6.4                       | 105                    | 0.93                  | 220.0     | BS06-../DHE05LA4    | 10        | 3500 | -   |
| 0.12                   | 5.6                       | 118                    | 0.84                  | 252.0     | BS06-../DHE05LA4    | 10        | 3500 | -   |
| 0.12                   | 16.5                      | 51                     | 2.9                   | 84.36     | BS10-../DHE06LA4    | 23        | 5300 | -   |
| 0.12                   | 13.5                      | 54                     | 3.0                   | 103.4     | BS10-../DHE06LA4    | 23        | 5600 | -   |
| 0.12                   | 12                        | 70                     | 1.75                  | 119.6     | BS10-../DHE06LA4    | 23        | 6000 | -   |
| 0.12                   | 11                        | 66                     | 2.5                   | 130.3     | BS10-../DHE06LA4    | 23        | 6000 | -   |
| 0.12                   | 9.1                       | 80                     | 2.1                   | 152.7     | BS10-../DHE06LA4    | 23        | 6000 | -   |
| 0.12                   | 7.4                       | 99                     | 1.7                   | 188.6     | BS10-../DHE06LA4    | 23        | 6000 | -   |
| 0.12                   | 6.4                       | 114                    | 1.6                   | 216.6     | BS10-../DHE06LA4    | 23        | 6000 | -   |
| 0.12                   | 5.5                       | 133                    | 1.35                  | 254.0     | BS10Z-../DHE06LA4   | 24        | 6000 | -   |
| 0.12                   | 4.6                       | 154                    | 1.25                  | 302.5     | BS10Z-../DHE06LA4   | 24        | 6000 | -   |
| 0.12                   | 3.9                       | 182                    | 1.05                  | 360.3     | BS10Z-../DHE06LA4   | 24        | 6000 | -   |
| 0.12                   | 3.3                       | 210                    | 0.9                   | 432.4     | BS10Z-../DHE06LA4   | 24        | 6000 | -   |
| 0.12                   | 1.5                       | 160*                   | 1.0                   | 969.9     | BS10G06-../DHE06LA4 | 28        | 6000 | -   |
| 0.12                   | 1.2                       | 160*                   | 1.0                   | 1166      | BS10G06-../DHE06LA4 | 28        | 6000 | -   |
| 0.12                   | 1.1                       | 160*                   | 1.0                   | 1342      | BS10G06-../DHE06LA4 | 28        | 6000 | -   |
| 0.12                   | 0.95                      | 160*                   | 1.0                   | 1528      | BS10G06-../DHE06LA4 | 28        | 6000 | -   |
| 0.12                   | 0.85                      | 160*                   | 1.0                   | 1668      | BS10G06-../DHE06LA4 | 28        | 6000 | -   |
| 0.12                   | 0.75                      | 160*                   | 1.0                   | 1963      | BS10G06-../DHE06LA4 | 28        | 6000 | -   |
| 0.12                   | 0.6                       | 160*                   | 1.0                   | 2348      | BS10G06-../DHE06LA4 | 28        | 6000 | -   |
| 0.12                   | 0.55                      | 160*                   | 1.0                   | 2635      | BS10G06-../DHE06LA4 | 28        | 6000 | -   |
| 0.12                   | 0.49                      | 160*                   | 1.0                   | 2875      | BS10G06-../DHE06LA4 | 28        | 6000 | -   |
| 0.12                   | 0.42                      | 160*                   | 1.0                   | 3332      | BS10G06-../DHE06LA4 | 28        | 6000 | -   |
| 0.12                   | 0.39                      | 160*                   | 1.0                   | 3635      | BS10G06-../DHE06LA4 | 28        | 6000 | -   |
| 0.12                   | 0.34                      | 160*                   | 1.0                   | 4163      | BS10G06-../DHE06LA4 | 28        | 6000 | -   |
| 0.12                   | 0.29                      | 160*                   | 1.0                   | 4776      | BS10G06-../DHE06LA4 | 28        | 6000 | -   |
| 0.12                   | 0.27                      | 160*                   | 1.0                   | 5209      | BS10G06-../DHE06LA4 | 28        | 6000 | -   |

The torques marked (\*) are maximum permissible torques for service factor f<sub>B</sub>=1.0.

# BS-series worm-geared motors

## Selection - worm-geared motors

0.12 kW



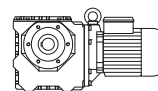
| P <sub>N</sub><br>[kW] | n <sub>2</sub><br>[1/min] | 50 Hz                  |                       | i<br>[:1] | Type                | m<br>[kg] | [N]   | [N] |
|------------------------|---------------------------|------------------------|-----------------------|-----------|---------------------|-----------|-------|-----|
|                        |                           | M <sub>2</sub><br>[Nm] | f <sub>B</sub><br>[-] |           |                     |           |       |     |
| 0.12                   | 0.24                      | 164*                   | 1.0                   | 6019      | BS10G06-../DHE06LA4 | 28        | 6000  | -   |
| 0.12                   | 0.22                      | 164*                   | 1.0                   | 6565      | BS10G06-../DHE06LA4 | 28        | 6000  | -   |
| 0.12                   | 0.19                      | 164*                   | 1.0                   | 7471      | BS10G06-../DHE06LA4 | 28        | 6000  | -   |
| 0.12                   | 0.16                      | 164*                   | 1.0                   | 8703      | BS10G06-../DHE06LA4 | 28        | 6000  | -   |
| 0.12                   | 8.7                       | 86                     | 3.2                   | 159.4     | BS20-../DHE06LA4    | 34        | 8000  | -   |
| 0.12                   | 7.6                       | 99                     | 2.8                   | 183.0     | BS20-../DHE06LA4    | 34        | 8000  | -   |
| 0.12                   | 6.2                       | 118                    | 2.5                   | 225.6     | BS20-../DHE06LA4    | 34        | 8000  | -   |
| 0.12                   | 5.4                       | 135                    | 2.2                   | 257.8     | BS20Z-../DHE06LA4   | 35        | 8000  | -   |
| 0.12                   | 4.7                       | 153                    | 1.95                  | 300.1     | BS20Z-../DHE06LA4   | 35        | 8000  | -   |
| 0.12                   | 3.9                       | 182                    | 1.75                  | 359.9     | BS20Z-../DHE06LA4   | 35        | 8000  | -   |
| 0.12                   | 3.3                       | 210                    | 1.55                  | 430.8     | BS20Z-../DHE06LA4   | 35        | 8000  | -   |
| 0.12                   | 2.6                       | 240                    | 1.5                   | 539.7     | BS20Z-../DHE06LA4   | 35        | 8000  | -   |
| 0.12                   | 2.3                       | 265                    | 1.25                  | 619.2     | BS20Z-../DHE06LA4   | 35        | 8000  | -   |
| 0.12                   | 1.9                       | 325                    | 0.95                  | 763.4     | BS20Z-../DHE06LA4   | 35        | 8000  | -   |
| 0.12                   | 1.7                       | 270*                   | 1.0                   | 831.7     | BS20G06-../DHE06LA4 | 38        | 8000  | -   |
| 0.12                   | 1.4                       | 270*                   | 1.0                   | 1000      | BS20G06-../DHE06LA4 | 38        | 8000  | -   |
| 0.12                   | 1.1                       | 270*                   | 1.0                   | 1311      | BS20G06-../DHE06LA4 | 38        | 8000  | -   |
| 0.12                   | 0.9                       | 270*                   | 1.0                   | 1543      | BS20G06-../DHE06LA4 | 38        | 8000  | -   |
| 0.12                   | 0.85                      | 270*                   | 1.0                   | 1683      | BS20G06-../DHE06LA4 | 38        | 8000  | -   |
| 0.12                   | 0.7                       | 270*                   | 1.0                   | 2014      | BS20G06-../DHE06LA4 | 38        | 8000  | -   |
| 0.12                   | 0.6                       | 270*                   | 1.0                   | 2465      | BS20G06-../DHE06LA4 | 38        | 8000  | -   |
| 0.12                   | 0.49                      | 270*                   | 1.0                   | 2857      | BS20G06-../DHE06LA4 | 38        | 8000  | -   |
| 0.12                   | 0.45                      | 270*                   | 1.0                   | 3117      | BS20G06-../DHE06LA4 | 38        | 8000  | -   |
| 0.12                   | 0.39                      | 270*                   | 1.0                   | 3570      | BS20G06-../DHE06LA4 | 38        | 8000  | -   |
| 0.12                   | 0.34                      | 270*                   | 1.0                   | 4096      | BS20G06-../DHE06LA4 | 38        | 8000  | -   |
| 0.12                   | 0.29                      | 270*                   | 1.0                   | 4910      | BS20G06-../DHE06LA4 | 38        | 8000  | -   |
| 0.12                   | 0.24                      | 270*                   | 1.0                   | 5880      | BS20G06-../DHE06LA4 | 38        | 8000  | -   |
| 0.12                   | 0.19                      | 275*                   | 1.0                   | 7363      | BS20G06-../DHE06LA4 | 38        | 8000  | -   |
| 0.12                   | 0.18                      | 275*                   | 1.0                   | 8031      | BS20G06-../DHE06LA4 | 38        | 8000  | -   |
| 0.12                   | 0.16                      | 280*                   | 1.0                   | 9220      | BS20G06-../DHE06LA4 | 38        | 8000  | -   |
| 0.12                   | 3.9                       | 215                    | 1.85                  | 359.6     | BS30Z-../DHE06LA4   | 54        | 10000 | -   |
| 0.12                   | 3.6                       | 205                    | 2.9                   | 390.2     | BS30Z-../DHE06LA4   | 54        | 10000 | -   |
| 0.12                   | 3.1                       | 235                    | 2.6                   | 457.3     | BS30Z-../DHE06LA4   | 54        | 10000 | -   |
| 0.12                   | 2.6                       | 280                    | 2.1                   | 539.3     | BS30Z-../DHE06LA4   | 54        | 10000 | -   |
| 0.12                   | 2.2                       | 310                    | 1.85                  | 651.0     | BS30Z-../DHE06LA4   | 54        | 10000 | -   |
| 0.12                   | 1.8                       | 365                    | 1.3                   | 804.1     | BS30Z-../DHE06LA4   | 54        | 10000 | -   |
| 0.12                   | 1.5                       | 435                    | 1.05                  | 932.0     | BS30Z-../DHE06LA4   | 54        | 10000 | -   |
| 0.12                   | 1.4                       | 560                    | 0.88                  | 1022      | BS30G06-../DHE06LA4 | 56        | 10000 | -   |
| 0.12                   | 1.2                       | 490*                   | 1.0                   | 1176      | BS30G06-../DHE06LA4 | 56        | 10000 | -   |
| 0.12                   | 0.95                      | 490*                   | 1.0                   | 1461      | BS30G06-../DHE06LA4 | 56        | 10000 | -   |
| 0.12                   | 0.9                       | 490*                   | 1.0                   | 1576      | BS30G06-../DHE06LA4 | 56        | 10000 | -   |
| 0.12                   | 0.75                      | 490*                   | 1.0                   | 1886      | BS30G06-../DHE06LA4 | 56        | 10000 | -   |
| 0.12                   | 0.65                      | 490*                   | 1.0                   | 2308      | BS30G06-../DHE06LA4 | 56        | 10000 | -   |
| 0.12                   | 0.6                       | 490*                   | 1.0                   | 2518      | BS30G06-../DHE06LA4 | 56        | 10000 | -   |
| 0.12                   | 0.48                      | 490*                   | 1.0                   | 2919      | BS30G06-../DHE06LA4 | 56        | 10000 | -   |
| 0.12                   | 0.42                      | 490*                   | 1.0                   | 3344      | BS30G06-../DHE06LA4 | 56        | 10000 | -   |
| 0.12                   | 0.38                      | 490*                   | 1.0                   | 3647      | BS30G06-../DHE06LA4 | 56        | 10000 | -   |
| 0.12                   | 0.34                      | 490*                   | 1.0                   | 4184      | BS30G06-../DHE06LA4 | 56        | 10000 | -   |
| 0.12                   | 0.29                      | 510*                   | 1.0                   | 4905      | BS30G06-../DHE06LA4 | 56        | 10000 | -   |
| 0.12                   | 0.24                      | 520*                   | 1.0                   | 5783      | BS30G06-../DHE06LA4 | 56        | 10000 | -   |
| 0.12                   | 0.22                      | 520*                   | 1.0                   | 6308      | BS30G06-../DHE06LA4 | 56        | 10000 | -   |
| 0.12                   | 0.2                       | 520*                   | 1.0                   | 7179      | BS30G06-../DHE06LA4 | 56        | 10000 | -   |
| 0.12                   | 0.17                      | 520*                   | 1.0                   | 8362      | BS30G06-../DHE06LA4 | 56        | 10000 | -   |
| 0.12                   | 2.3                       | 300                    | 3.0                   | 612.1     | BS40Z-../DHE06LA4   | 68        | 15000 | -   |
| 0.12                   | 1.9                       | 360                    | 2.1                   | 736.5     | BS40Z-../DHE06LA4   | 68        | 15000 | -   |
| 0.12                   | 1.6                       | 420                    | 1.75                  | 908.2     | BS40Z-../DHE06LA4   | 68        | 15000 | -   |
| 0.12                   | 1.5                       | 530                    | 1.65                  | 965.5     | BS40G10-../DHE06LA4 | 73        | 15000 | -   |
| 0.12                   | 1.2                       | 660                    | 1.35                  | 1180      | BS40G10-../DHE06LA4 | 73        | 15000 | -   |
| 0.12                   | 0.95                      | 840                    | 1.05                  | 1499      | BS40G10-../DHE06LA4 | 73        | 15000 | -   |
| 0.12                   | 0.8                       | 880*                   | 1.0                   | 1785      | BS40G10-../DHE06LA4 | 73        | 15000 | -   |
| 0.12                   | 0.7                       | 880*                   | 1.0                   | 2126      | BS40G10-../DHE06LA4 | 73        | 15000 | -   |
| 0.12                   | 0.65                      | 880*                   | 1.0                   | 2304      | BS40G10-../DHE06LA4 | 73        | 15000 | -   |
| 0.12                   | 0.55                      | 880*                   | 1.0                   | 2552      | BS40G10-../DHE06LA4 | 73        | 15000 | -   |
| 0.12                   | 0.48                      | 880*                   | 1.0                   | 2902      | BS40G10-../DHE06LA4 | 73        | 15000 | -   |
| 0.12                   | 0.44                      | 880*                   | 1.0                   | 3215      | BS40G10-../DHE06LA4 | 73        | 15000 | -   |
| 0.12                   | 0.37                      | 880*                   | 1.0                   | 3769      | BS40G10-../DHE06LA4 | 73        | 15000 | -   |
| 0.12                   | 0.33                      | 880*                   | 1.0                   | 4201      | BS40G10-../DHE06LA4 | 73        | 15000 | -   |

The torques marked (\*) are maximum permissible torques for service factor f<sub>B</sub>=1.0.

# BS-series worm-geared motors

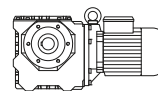
## Selection - worm-geared motors

### 0.12 kW



| P <sub>N</sub><br>[kW] | n <sub>2</sub><br>[1/min] | 50 Hz                  |                       | i<br>[:1] | Type                       | m<br>[kg] | [N]   | [N] |
|------------------------|---------------------------|------------------------|-----------------------|-----------|----------------------------|-----------|-------|-----|
|                        |                           | M <sub>2</sub><br>[Nm] | f <sub>B</sub><br>[—] |           |                            |           |       |     |
| 0.12                   | 0.3                       | 880*                   | 1.0                   | 4655      | <b>BS40G10-../DHE06LA4</b> | 73        | 15000 | -   |
| 0.12                   | 0.26                      | 900*                   | 1.0                   | 5498      | <b>BS40G10-../DHE06LA4</b> | 73        | 15000 | -   |
| 0.12                   | 0.23                      | 950*                   | 1.0                   | 6214      | <b>BS40G10-../DHE06LA4</b> | 73        | 15000 | -   |
| 0.12                   | 0.21                      | 950*                   | 1.0                   | 6885      | <b>BS40G10-../DHE06LA4</b> | 73        | 15000 | -   |
| 0.12                   | 0.18                      | 950*                   | 1.0                   | 7905      | <b>BS40G10-../DHE06LA4</b> | 73        | 15000 | -   |

### 0.18 kW



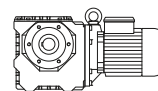
| P <sub>N</sub><br>[kW] | n <sub>2</sub><br>[1/min] | 50 Hz                  |                       | i<br>[:1] | Type                    | m<br>[kg] | [N]  | [N] |
|------------------------|---------------------------|------------------------|-----------------------|-----------|-------------------------|-----------|------|-----|
|                        |                           | M <sub>2</sub><br>[Nm] | f <sub>B</sub><br>[—] |           |                         |           |      |     |
| 0.18                   | 300                       | 5.0                    | 3.0                   | 4.60      | <b>BS02-../DHE05LA4</b> | 5.3       | 1000 | -   |
| 0.18                   | 255                       | 5.9                    | 3.4                   | 5.40      | <b>BS02-../DHE05LA4</b> | 5.3       | 1000 | -   |
| 0.18                   | 205                       | 7.2                    | 3.5                   | 6.75      | <b>BS02-../DHE05LA4</b> | 5.3       | 1000 | -   |
| 0.18                   | 167                       | 8.6                    | 2.9                   | 8.25      | <b>BS02-../DHE05LA4</b> | 5.3       | 1100 | -   |
| 0.18                   | 129                       | 10.9                   | 2.3                   | 10.67     | <b>BS02-../DHE05LA4</b> | 5.3       | 1250 | -   |
| 0.18                   | 102                       | 13.1                   | 1.9                   | 13.50     | <b>BS02-../DHE05LA4</b> | 5.3       | 1250 | -   |
| 0.18                   | 77                        | 16.5                   | 1.5                   | 18.00     | <b>BS02-../DHE05LA4</b> | 5.3       | 1250 | -   |
| 0.18                   | 63                        | 19.1                   | 1.3                   | 22.00     | <b>BS02-../DHE05LA4</b> | 5.3       | 1250 | -   |
| 0.18                   | 51                        | 21                     | 1.2                   | 27.00     | <b>BS02-../DHE05LA4</b> | 5.3       | 1250 | -   |
| 0.18                   | 42                        | 24.5                   | 1.0                   | 33.00     | <b>BS02-../DHE05LA4</b> | 5.3       | 1250 | -   |
| 0.18                   | 73                        | 17.8                   | 3.1                   | 19.00     | <b>BS03-../DHE05LA4</b> | 5.4       | 1950 | -   |
| 0.18                   | 55                        | 21.5                   | 2.6                   | 25.00     | <b>BS03-../DHE05LA4</b> | 5.4       | 1950 | -   |
| 0.18                   | 42                        | 24.5                   | 2.2                   | 33.00     | <b>BS03-../DHE05LA4</b> | 5.4       | 1950 | -   |
| 0.18                   | 35.5                      | 30.5                   | 1.8                   | 39.00     | <b>BS03-../DHE05LA4</b> | 5.4       | 1950 | -   |
| 0.18                   | 27.5                      | 36                     | 1.55                  | 50.00     | <b>BS03-../DHE05LA4</b> | 5.4       | 1950 | -   |
| 0.18                   | 22.5                      | 40                     | 1.2                   | 62.00     | <b>BS03-../DHE05LA4</b> | 5.4       | 1950 | -   |
| 0.18                   | 18.5                      | 47                     | 0.85                  | 75.00     | <b>BS03-../DHE05LA4</b> | 5.4       | 1950 | -   |
| 0.18                   | 129                       | 10.3                   | 3.1                   | 10.73     | <b>BS04-../DHE05LA4</b> | 5.8       | 1600 | -   |
| 0.18                   | 106                       | 12.4                   | 2.7                   | 13.09     | <b>BS04-../DHE05LA4</b> | 5.8       | 1760 | -   |
| 0.18                   | 85                        | 15.5                   | 2.3                   | 16.31     | <b>BS04-../DHE05LA4</b> | 5.8       | 1970 | -   |
| 0.18                   | 77                        | 15.8                   | 2.2                   | 18.00     | <b>BS04-../DHE05LA4</b> | 5.8       | 1950 | -   |
| 0.18                   | 66                        | 19.7                   | 1.9                   | 20.96     | <b>BS04-../DHE05LA4</b> | 5.8       | 2100 | -   |
| 0.18                   | 57                        | 22.5                   | 1.5                   | 24.25     | <b>BS04-../DHE05LA4</b> | 5.8       | 2250 | -   |
| 0.18                   | 53                        | 23                     | 1.65                  | 26.21     | <b>BS04-../DHE05LA4</b> | 5.8       | 2250 | -   |
| 0.18                   | 44                        | 27                     | 1.4                   | 31.50     | <b>BS04-../DHE05LA4</b> | 5.8       | 2250 | -   |
| 0.18                   | 36                        | 32.5                   | 1.15                  | 38.42     | <b>BS04-../DHE05LA4</b> | 5.8       | 2250 | -   |
| 0.18                   | 29                        | 40                     | 0.95                  | 47.86     | <b>BS04-../DHE05LA4</b> | 5.8       | 2250 | -   |
| 0.18                   | 57                        | 24                     | 3.2                   | 24.25     | <b>BS06-../DHE05LA4</b> | 10        | 2600 | -   |
| 0.18                   | 53                        | 23.5                   | 3.3                   | 26.21     | <b>BS06-../DHE05LA4</b> | 10        | 3000 | -   |
| 0.18                   | 44                        | 28.5                   | 2.8                   | 31.50     | <b>BS06-../DHE05LA4</b> | 10        | 3200 | -   |
| 0.18                   | 33.5                      | 36.5                   | 2.4                   | 41.29     | <b>BS06-../DHE05LA4</b> | 10        | 3500 | -   |
| 0.18                   | 28.5                      | 43                     | 2.0                   | 48.60     | <b>BS06-../DHE05LA4</b> | 10        | 3500 | -   |
| 0.18                   | 24                        | 50                     | 1.8                   | 58.15     | <b>BS06-../DHE05LA4</b> | 10        | 3500 | -   |
| 0.18                   | 21.5                      | 54                     | 1.5                   | 64.06     | <b>BS06-../DHE05LA4</b> | 10        | 3500 | -   |
| 0.18                   | 19.5                      | 62                     | 1.5                   | 71.18     | <b>BS06-../DHE05LA4</b> | 10        | 3500 | -   |
| 0.18                   | 18                        | 63                     | 1.35                  | 77.00     | <b>BS06-../DHE05LA4</b> | 10        | 3500 | -   |
| 0.18                   | 15.5                      | 77                     | 1.25                  | 90.00     | <b>BS06-../DHE05LA4</b> | 10        | 3500 | -   |
| 0.18                   | 13.5                      | 87                     | 1.15                  | 103.1     | <b>BS06-../DHE05LA4</b> | 10        | 3500 | -   |
| 0.18                   | 12                        | 93                     | 1.0                   | 118.8     | <b>BS06-../DHE05LA4</b> | 10        | 3500 | -   |
| 0.18                   | 11                        | 104                    | 1.0                   | 129.0     | <b>BS06-../DHE05LA4</b> | 10        | 3500 | -   |
| 0.18                   | 9.4                       | 118                    | 0.9                   | 146.8     | <b>BS06-../DHE05LA4</b> | 10        | 3500 | -   |
| 0.18                   | 29                        | 44                     | 3.3                   | 47.59     | <b>BS10-../DHE06LA4</b> | 23        | 4050 | -   |
| 0.18                   | 24                        | 53                     | 2.8                   | 57.12     | <b>BS10-../DHE06LA4</b> | 23        | 4350 | -   |
| 0.18                   | 23                        | 50                     | 3.0                   | 60.74     | <b>BS10-../DHE06LA4</b> | 23        | 4550 | -   |
| 0.18                   | 19.5                      | 65                     | 2.5                   | 71.96     | <b>BS10-../DHE06LA4</b> | 23        | 5000 | -   |
| 0.18                   | 16.5                      | 77                     | 1.95                  | 84.36     | <b>BS10-../DHE06LA4</b> | 23        | 5300 | -   |
| 0.18                   | 13.5                      | 81                     | 2.0                   | 103.4     | <b>BS10-../DHE06LA4</b> | 23        | 5600 | -   |
| 0.18                   | 11.5                      | 110                    | 1.1                   | 119.6     | <b>BS10-../DHE06LA4</b> | 23        | 6000 | -   |
| 0.18                   | 11                        | 100                    | 1.65                  | 130.3     | <b>BS10-../DHE06LA4</b> | 23        | 6000 | -   |
| 0.18                   | 9.0                       | 122                    | 1.35                  | 152.7     | <b>BS10-../DHE06LA4</b> | 23        | 6000 | -   |
| 0.18                   | 7.3                       | 150                    | 1.15                  | 188.6     | <b>BS10-../DHE06LA4</b> | 23        | 6000 | -   |

The torques marked (\*) are maximum permissible torques for service factor f<sub>B</sub>=1.0.

# BS-series worm-geared motors

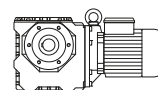
## Selection - worm-geared motors

### 0.18 kW



| P <sub>N</sub><br>[kW] | n <sub>2</sub><br>[1/min] | 50 Hz                  |                       | i<br>[:1] | Type                       | m    |       |     |
|------------------------|---------------------------|------------------------|-----------------------|-----------|----------------------------|------|-------|-----|
|                        |                           | M <sub>2</sub><br>[Nm] | f <sub>B</sub><br>[-] |           |                            | [kg] | [N]   | [N] |
| 0.18                   | 6.4                       | 171                    | 1.05                  | 216.6     | <b>BS10-../DHE06LA4</b>    | 23   | 6000  | -   |
| 0.18                   | 5.4                       | 200                    | 0.9                   | 254.0     | <b>BS10Z-../DHE06LA4</b>   | 24   | 6000  | -   |
| 0.18                   | 4.6                       | 230                    | 0.83                  | 302.5     | <b>BS10Z-../DHE06LA4</b>   | 24   | 6000  | -   |
| 0.18                   | 14                        | 90                     | 2.8                   | 101.1     | <b>BS20-../DHE06LA4</b>    | 34   | 7100  | -   |
| 0.18                   | 13                        | 87                     | 3.1                   | 106.3     | <b>BS20-../DHE06LA4</b>    | 34   | 7600  | -   |
| 0.18                   | 11                        | 103                    | 2.6                   | 127.3     | <b>BS20-../DHE06LA4</b>    | 34   | 8000  | -   |
| 0.18                   | 8.6                       | 131                    | 2.1                   | 159.4     | <b>BS20-../DHE06LA4</b>    | 34   | 8000  | -   |
| 0.18                   | 7.5                       | 151                    | 1.85                  | 183.0     | <b>BS20-../DHE06LA4</b>    | 34   | 8000  | -   |
| 0.18                   | 6.1                       | 180                    | 1.6                   | 225.6     | <b>BS20-../DHE06LA4</b>    | 34   | 8000  | -   |
| 0.18                   | 5.4                       | 200                    | 1.5                   | 257.8     | <b>BS20Z-../DHE06LA4</b>   | 35   | 8000  | -   |
| 0.18                   | 4.6                       | 235                    | 1.3                   | 300.1     | <b>BS20Z-../DHE06LA4</b>   | 35   | 8000  | -   |
| 0.18                   | 3.9                       | 270                    | 1.2                   | 359.9     | <b>BS20Z-../DHE06LA4</b>   | 35   | 8000  | -   |
| 0.18                   | 3.2                       | 325                    | 1.0                   | 430.8     | <b>BS20Z-../DHE06LA4</b>   | 35   | 8000  | -   |
| 0.18                   | 2.6                       | 360                    | 1.0                   | 539.7     | <b>BS20Z-../DHE06LA4</b>   | 35   | 8000  | -   |
| 0.18                   | 2.3                       | 400                    | 0.83                  | 619.2     | <b>BS20Z-../DHE06LA4</b>   | 35   | 8000  | -   |
| 0.18                   | 6.4                       | 177                    | 2.9                   | 216.4     | <b>BS30-../DHE06LA4</b>    | 51   | 10000 | -   |
| 0.18                   | 5.3                       | 210                    | 2.7                   | 261.6     | <b>BS30Z-../DHE06LA4</b>   | 54   | 10000 | -   |
| 0.18                   | 4.5                       | 245                    | 2.4                   | 306.6     | <b>BS30Z-../DHE06LA4</b>   | 54   | 10000 | -   |
| 0.18                   | 3.9                       | 325                    | 1.2                   | 359.6     | <b>BS30Z-../DHE06LA4</b>   | 54   | 10000 | -   |
| 0.18                   | 3.6                       | 310                    | 1.9                   | 390.2     | <b>BS30Z-../DHE06LA4</b>   | 54   | 10000 | -   |
| 0.18                   | 3.0                       | 365                    | 1.65                  | 457.3     | <b>BS30Z-../DHE06LA4</b>   | 54   | 10000 | -   |
| 0.18                   | 2.6                       | 420                    | 1.45                  | 539.3     | <b>BS30Z-../DHE06LA4</b>   | 54   | 10000 | -   |
| 0.18                   | 2.2                       | 465                    | 1.25                  | 651.0     | <b>BS30Z-../DHE06LA4</b>   | 54   | 10000 | -   |
| 0.18                   | 1.8                       | 550                    | 0.87                  | 804.1     | <b>BS30Z-../DHE06LA4</b>   | 54   | 10000 | -   |
| 0.18                   | 4.8                       | 265                    | 2.7                   | 287.7     | <b>BS40Z-../DHE06LA4</b>   | 68   | 15000 | -   |
| 0.18                   | 3.1                       | 345                    | 2.9                   | 446.8     | <b>BS40Z-../DHE06LA4</b>   | 68   | 15000 | -   |
| 0.18                   | 2.7                       | 400                    | 2.8                   | 520.8     | <b>BS40Z-../DHE06LA4</b>   | 68   | 15000 | -   |
| 0.18                   | 2.3                       | 455                    | 2.0                   | 612.1     | <b>BS40Z-../DHE06LA4</b>   | 68   | 15000 | -   |
| 0.18                   | 1.9                       | 540                    | 1.4                   | 736.5     | <b>BS40Z-../DHE06LA4</b>   | 68   | 15000 | -   |
| 0.18                   | 1.6                       | 630                    | 1.2                   | 908.2     | <b>BS40Z-../DHE06LA4</b>   | 68   | 15000 | -   |
| 0.18                   | 1.5                       | 800                    | 1.1                   | 965.5     | <b>BS40G10-../DHE06LA4</b> | 73   | 15000 | -   |
| 0.18                   | 1.2                       | 1000                   | 0.88                  | 1180      | <b>BS40G10-../DHE06LA4</b> | 73   | 15000 | -   |

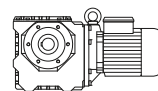
### 0.25 kW



| P <sub>N</sub><br>[kW] | n <sub>2</sub><br>[1/min] | 50 Hz                  |                       | i<br>[:1] | Type                    | m    |      |     |
|------------------------|---------------------------|------------------------|-----------------------|-----------|-------------------------|------|------|-----|
|                        |                           | M <sub>2</sub><br>[Nm] | f <sub>B</sub><br>[-] |           |                         | [kg] | [N]  | [N] |
| 0.25                   | 300                       | 7.0                    | 2.1                   | 4.60      | <b>BS02-../DHE07LA4</b> | 9.3  | 1000 | -   |
| 0.25                   | 255                       | 8.2                    | 2.4                   | 5.40      | <b>BS02-../DHE07LA4</b> | 9.3  | 1000 | -   |
| 0.25                   | 205                       | 10                     | 2.5                   | 6.75      | <b>BS02-../DHE07LA4</b> | 9.3  | 1000 | -   |
| 0.25                   | 167                       | 12                     | 2.1                   | 8.25      | <b>BS02-../DHE07LA4</b> | 9.3  | 1100 | -   |
| 0.25                   | 129                       | 15.1                   | 1.65                  | 10.67     | <b>BS02-../DHE07LA4</b> | 9.3  | 1250 | -   |
| 0.25                   | 102                       | 18.2                   | 1.35                  | 13.50     | <b>BS02-../DHE07LA4</b> | 9.3  | 1250 | -   |
| 0.25                   | 77                        | 22.5                   | 1.1                   | 18.00     | <b>BS02-../DHE07LA4</b> | 9.3  | 1250 | -   |
| 0.25                   | 63                        | 26.5                   | 0.94                  | 22.00     | <b>BS02-../DHE07LA4</b> | 9.3  | 1250 | -   |
| 0.25                   | 51                        | 29                     | 0.86                  | 27.00     | <b>BS02-../DHE07LA4</b> | 9.3  | 1250 | -   |
| 0.25                   | 102                       | 18.2                   | 3.0                   | 13.50     | <b>BS03-../DHE07LA4</b> | 9.4  | 1600 | -   |
| 0.25                   | 73                        | 24.5                   | 2.2                   | 19.00     | <b>BS03-../DHE07LA4</b> | 9.4  | 1950 | -   |
| 0.25                   | 55                        | 29.5                   | 1.85                  | 25.00     | <b>BS03-../DHE07LA4</b> | 9.4  | 1950 | -   |
| 0.25                   | 42                        | 34.5                   | 1.6                   | 33.00     | <b>BS03-../DHE07LA4</b> | 9.4  | 1950 | -   |
| 0.25                   | 35.5                      | 43                     | 1.3                   | 39.00     | <b>BS03-../DHE07LA4</b> | 9.4  | 1950 | -   |
| 0.25                   | 27.5                      | 50                     | 1.1                   | 50.00     | <b>BS03-../DHE07LA4</b> | 9.4  | 1950 | -   |
| 0.25                   | 22.5                      | 56                     | 0.86                  | 62.00     | <b>BS03-../DHE07LA4</b> | 9.4  | 1950 | -   |
| 0.25                   | 225                       | 8.2                    | 3.2                   | 6.13      | <b>BS04-../DHE07LA4</b> | 9.8  | 1300 | -   |
| 0.25                   | 154                       | 12                     | 2.5                   | 8.93      | <b>BS04-../DHE07LA4</b> | 9.8  | 1500 | -   |
| 0.25                   | 129                       | 14.4                   | 2.2                   | 10.73     | <b>BS04-../DHE07LA4</b> | 9.8  | 1600 | -   |
| 0.25                   | 106                       | 17.3                   | 1.9                   | 13.09     | <b>BS04-../DHE07LA4</b> | 9.8  | 1760 | -   |
| 0.25                   | 85                        | 21.5                   | 1.65                  | 16.31     | <b>BS04-../DHE07LA4</b> | 9.8  | 1970 | -   |
| 0.25                   | 77                        | 22                     | 1.55                  | 18.00     | <b>BS04-../DHE07LA4</b> | 9.8  | 1950 | -   |
| 0.25                   | 66                        | 27                     | 1.35                  | 20.96     | <b>BS04-../DHE07LA4</b> | 9.8  | 2100 | -   |

The torques marked (\*) are maximum permissible torques for service factor f<sub>B</sub>=1.0.

### 0.25 kW



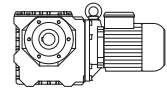
| P <sub>N</sub><br>[kW] | n <sub>2</sub><br>[1/min] | 50 Hz                  |                       | i<br>[:1] | Type              | m<br>[kg] | [N]   | [N] |
|------------------------|---------------------------|------------------------|-----------------------|-----------|-------------------|-----------|-------|-----|
|                        |                           | M <sub>2</sub><br>[Nm] | f <sub>B</sub><br>[-] |           |                   |           |       |     |
| 0.25                   | 57                        | 31.5                   | 1.1                   | 24.25     | BS04-../DHE07LA4  | 9.8       | 2250  | -   |
| 0.25                   | 53                        | 31.5                   | 1.2                   | 26.21     | BS04-../DHE07LA4  | 9.8       | 2250  | -   |
| 0.25                   | 44                        | 37.5                   | 1.0                   | 31.50     | BS04-../DHE07LA4  | 9.8       | 2250  | -   |
| 0.25                   | 36                        | 45.5                   | 0.81                  | 38.42     | BS04-../DHE07LA4  | 9.8       | 2250  | -   |
| 0.25                   | 84                        | 22.5                   | 3.2                   | 16.56     | BS06-../DHE07LA4  | 14        | 2400  | -   |
| 0.25                   | 70                        | 27                     | 2.8                   | 19.82     | BS06-../DHE07LA4  | 14        | 2500  | -   |
| 0.25                   | 57                        | 33.5                   | 2.3                   | 24.25     | BS06-../DHE07LA4  | 14        | 2600  | -   |
| 0.25                   | 53                        | 32.5                   | 2.4                   | 26.21     | BS06-../DHE07LA4  | 14        | 3000  | -   |
| 0.25                   | 44                        | 39.5                   | 2.0                   | 31.50     | BS06-../DHE07LA4  | 14        | 3200  | -   |
| 0.25                   | 33.5                      | 51                     | 1.7                   | 41.29     | BS06-../DHE07LA4  | 14        | 3500  | -   |
| 0.25                   | 28.5                      | 60                     | 1.45                  | 48.60     | BS06-../DHE07LA4  | 14        | 3500  | -   |
| 0.25                   | 24                        | 70                     | 1.3                   | 58.15     | BS06-../DHE07LA4  | 14        | 3500  | -   |
| 0.25                   | 21.5                      | 75                     | 1.05                  | 64.06     | BS06-../DHE07LA4  | 14        | 3500  | -   |
| 0.25                   | 19.5                      | 86                     | 1.1                   | 71.18     | BS06-../DHE07LA4  | 14        | 3500  | -   |
| 0.25                   | 18                        | 88                     | 0.97                  | 77.00     | BS06-../DHE07LA4  | 14        | 3500  | -   |
| 0.25                   | 15.5                      | 107                    | 0.92                  | 90.00     | BS06-../DHE07LA4  | 14        | 3500  | -   |
| 0.25                   | 13.5                      | 122                    | 0.82                  | 103.1     | BS06-../DHE07LA4  | 14        | 3500  | -   |
| 0.25                   | 41                        | 44                     | 3.1                   | 33.55     | BS10-../DHE07LA4  | 26        | 3550  | -   |
| 0.25                   | 34.5                      | 51                     | 2.7                   | 39.96     | BS10-../DHE07LA4  | 26        | 3800  | -   |
| 0.25                   | 29                        | 61                     | 2.4                   | 47.59     | BS10-../DHE07LA4  | 26        | 4050  | -   |
| 0.25                   | 24.5                      | 72                     | 2.1                   | 57.12     | BS10-../DHE07LA4  | 26        | 4350  | -   |
| 0.25                   | 23                        | 69                     | 2.2                   | 60.74     | BS10-../DHE07LA4  | 26        | 4550  | -   |
| 0.25                   | 19.5                      | 90                     | 1.8                   | 71.96     | BS10-../DHE07LA4  | 26        | 5000  | -   |
| 0.25                   | 16.5                      | 107                    | 1.4                   | 84.36     | BS10-../DHE07LA4  | 26        | 5300  | -   |
| 0.25                   | 13.5                      | 113                    | 1.4                   | 103.4     | BS10-../DHE07LA4  | 26        | 5600  | -   |
| 0.25                   | 11                        | 138                    | 1.2                   | 130.3     | BS10-../DHE07LA4  | 26        | 6000  | -   |
| 0.25                   | 9.1                       | 167                    | 0.99                  | 152.7     | BS10-../DHE07LA4  | 26        | 6000  | -   |
| 0.25                   | 7.3                       | 205                    | 0.83                  | 188.6     | BS10-../DHE07LA4  | 26        | 6000  | -   |
| 0.25                   | 18.5                      | 85                     | 3.2                   | 76.18     | BS20-../DHE07LA4  | 36        | 6600  | -   |
| 0.25                   | 16                        | 98                     | 2.8                   | 88.67     | BS20-../DHE07LA4  | 36        | 7000  | -   |
| 0.25                   | 14                        | 126                    | 2.0                   | 101.1     | BS20-../DHE07LA4  | 36        | 7100  | -   |
| 0.25                   | 13                        | 121                    | 2.2                   | 106.3     | BS20-../DHE07LA4  | 36        | 7600  | -   |
| 0.25                   | 11                        | 143                    | 1.9                   | 127.3     | BS20-../DHE07LA4  | 36        | 8000  | -   |
| 0.25                   | 8.7                       | 181                    | 1.5                   | 159.4     | BS20-../DHE07LA4  | 36        | 8000  | -   |
| 0.25                   | 7.6                       | 205                    | 1.35                  | 183.0     | BS20-../DHE07LA4  | 36        | 8000  | -   |
| 0.25                   | 6.1                       | 250                    | 1.15                  | 225.6     | BS20-../DHE07LA4  | 36        | 8000  | -   |
| 0.25                   | 5.4                       | 280                    | 1.05                  | 257.8     | BS20Z-../DHE07LA4 | 38        | 8000  | -   |
| 0.25                   | 4.6                       | 325                    | 0.92                  | 300.1     | BS20Z-../DHE07LA4 | 38        | 8000  | -   |
| 0.25                   | 3.9                       | 375                    | 0.85                  | 359.9     | BS20Z-../DHE07LA4 | 38        | 8000  | -   |
| 0.25                   | 9.1                       | 175                    | 3.1                   | 151.1     | BS30-../DHE07LA4  | 54        | 9500  | -   |
| 0.25                   | 7.4                       | 210                    | 2.6                   | 186.7     | BS30-../DHE07LA4  | 54        | 10000 | -   |
| 0.25                   | 6.4                       | 245                    | 2.1                   | 216.4     | BS30-../DHE07LA4  | 54        | 10000 | -   |
| 0.25                   | 5.3                       | 295                    | 1.9                   | 261.6     | BS30Z-../DHE07LA4 | 56        | 10000 | -   |
| 0.25                   | 4.5                       | 340                    | 1.7                   | 306.6     | BS30Z-../DHE07LA4 | 56        | 10000 | -   |
| 0.25                   | 3.9                       | 450                    | 0.88                  | 359.6     | BS30Z-../DHE07LA4 | 56        | 10000 | -   |
| 0.25                   | 3.6                       | 430                    | 1.35                  | 390.2     | BS30Z-../DHE07LA4 | 56        | 10000 | -   |
| 0.25                   | 3.1                       | 490                    | 1.2                   | 457.3     | BS30Z-../DHE07LA4 | 56        | 10000 | -   |
| 0.25                   | 2.6                       | 580                    | 1.05                  | 539.3     | BS30Z-../DHE07LA4 | 56        | 10000 | -   |
| 0.25                   | 2.2                       | 650                    | 0.89                  | 651.0     | BS30Z-../DHE07LA4 | 56        | 10000 | -   |
| 0.25                   | 7.0                       | 250                    | 2.8                   | 197.1     | BS40Z-../DHE07LA4 | 70        | 15000 | -   |
| 0.25                   | 4.8                       | 365                    | 1.95                  | 287.7     | BS40Z-../DHE07LA4 | 70        | 15000 | -   |
| 0.25                   | 4.6                       | 325                    | 3.3                   | 302.1     | BS40Z-../DHE07LA4 | 70        | 15000 | -   |
| 0.25                   | 3.9                       | 385                    | 2.8                   | 356.8     | BS40Z-../DHE07LA4 | 70        | 15000 | -   |
| 0.25                   | 3.1                       | 485                    | 2.0                   | 446.8     | BS40Z-../DHE07LA4 | 70        | 15000 | -   |
| 0.25                   | 2.7                       | 550                    | 2.0                   | 520.8     | BS40Z-../DHE07LA4 | 70        | 15000 | -   |
| 0.25                   | 2.3                       | 630                    | 1.45                  | 612.1     | BS40Z-../DHE07LA4 | 70        | 15000 | -   |
| 0.25                   | 1.9                       | 750                    | 1.0                   | 736.5     | BS40Z-../DHE07LA4 | 70        | 15000 | -   |
| 0.25                   | 1.6                       | 880                    | 0.84                  | 908.2     | BS40Z-../DHE07LA4 | 70        | 15000 | -   |

The torques marked (\*) are maximum permissible torques for service factor f<sub>B</sub>=1.0.

# BS-series worm-geared motors

## Selection - worm-geared motors

0.3 kW



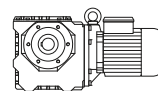
| P <sub>N</sub><br>[kW] | n <sub>2</sub><br>[1/min] | 50 Hz                  |                       | i<br>[:1] | Type              | m<br>[kg] | [N]   | [N] |
|------------------------|---------------------------|------------------------|-----------------------|-----------|-------------------|-----------|-------|-----|
|                        |                           | M <sub>2</sub><br>[Nm] | f <sub>B</sub><br>[-] |           |                   |           |       |     |
| 0.3                    | 300                       | 8.4                    | 1.8                   | 4.60      | BS02-../DHE07LA4  | 9.3       | 1000  | -   |
| 0.3                    | 255                       | 9.8                    | 2.0                   | 5.40      | BS02-../DHE07LA4  | 9.3       | 1000  | -   |
| 0.3                    | 205                       | 12                     | 2.1                   | 6.75      | BS02-../DHE07LA4  | 9.3       | 1000  | -   |
| 0.3                    | 165                       | 14.5                   | 1.7                   | 8.25      | BS02-../DHE07LA4  | 9.3       | 1100  | -   |
| 0.3                    | 128                       | 18.3                   | 1.35                  | 10.67     | BS02-../DHE07LA4  | 9.3       | 1250  | -   |
| 0.3                    | 101                       | 22                     | 1.15                  | 13.50     | BS02-../DHE07LA4  | 9.3       | 1250  | -   |
| 0.3                    | 76                        | 27.5                   | 0.91                  | 18.00     | BS02-../DHE07LA4  | 9.3       | 1250  | -   |
| 0.3                    | 101                       | 22                     | 2.5                   | 13.50     | BS03-../DHE07LA4  | 9.4       | 1600  | -   |
| 0.3                    | 72                        | 30                     | 1.85                  | 19.00     | BS03-../DHE07LA4  | 9.4       | 1950  | -   |
| 0.3                    | 55                        | 35.5                   | 1.55                  | 25.00     | BS03-../DHE07LA4  | 9.4       | 1950  | -   |
| 0.3                    | 41.5                      | 42                     | 1.3                   | 33.00     | BS03-../DHE07LA4  | 9.4       | 1950  | -   |
| 0.3                    | 35                        | 52                     | 1.05                  | 39.00     | BS03-../DHE07LA4  | 9.4       | 1950  | -   |
| 0.3                    | 27.5                      | 60                     | 0.92                  | 50.00     | BS03-../DHE07LA4  | 9.4       | 1950  | -   |
| 0.3                    | 225                       | 9.9                    | 2.6                   | 6.13      | BS04-../DHE07LA4  | 9.8       | 1300  | -   |
| 0.3                    | 153                       | 14.6                   | 2.1                   | 8.93      | BS04-../DHE07LA4  | 9.8       | 1500  | -   |
| 0.3                    | 127                       | 17.5                   | 1.85                  | 10.73     | BS04-../DHE07LA4  | 9.8       | 1600  | -   |
| 0.3                    | 104                       | 21                     | 1.55                  | 13.09     | BS04-../DHE07LA4  | 9.8       | 1760  | -   |
| 0.3                    | 84                        | 26                     | 1.35                  | 16.31     | BS04-../DHE07LA4  | 9.8       | 1970  | -   |
| 0.3                    | 76                        | 26.5                   | 1.3                   | 18.00     | BS04-../DHE07LA4  | 9.8       | 1950  | -   |
| 0.3                    | 65                        | 33                     | 1.1                   | 20.96     | BS04-../DHE07LA4  | 9.8       | 2100  | -   |
| 0.3                    | 57                        | 38                     | 0.89                  | 24.25     | BS04-../DHE07LA4  | 9.8       | 2250  | -   |
| 0.3                    | 52                        | 39                     | 0.97                  | 26.21     | BS04-../DHE07LA4  | 9.8       | 2250  | -   |
| 0.3                    | 43.5                      | 46                     | 0.83                  | 31.50     | BS04-../DHE07LA4  | 9.8       | 2250  | -   |
| 0.3                    | 97                        | 23.5                   | 2.9                   | 14.07     | BS06-../DHE07LA4  | 14        | 2200  | -   |
| 0.3                    | 83                        | 27.5                   | 2.6                   | 16.56     | BS06-../DHE07LA4  | 14        | 2400  | -   |
| 0.3                    | 69                        | 33                     | 2.3                   | 19.82     | BS06-../DHE07LA4  | 14        | 2500  | -   |
| 0.3                    | 57                        | 40                     | 1.95                  | 24.25     | BS06-../DHE07LA4  | 14        | 2600  | -   |
| 0.3                    | 52                        | 40                     | 1.95                  | 26.21     | BS06-../DHE07LA4  | 14        | 3000  | -   |
| 0.3                    | 43.5                      | 48                     | 1.65                  | 31.50     | BS06-../DHE07LA4  | 14        | 3200  | -   |
| 0.3                    | 33                        | 62                     | 1.4                   | 41.29     | BS06-../DHE07LA4  | 14        | 3500  | -   |
| 0.3                    | 28                        | 73                     | 1.2                   | 48.60     | BS06-../DHE07LA4  | 14        | 3500  | -   |
| 0.3                    | 23.5                      | 86                     | 1.05                  | 58.15     | BS06-../DHE07LA4  | 14        | 3500  | -   |
| 0.3                    | 21.5                      | 90                     | 0.89                  | 64.06     | BS06-../DHE07LA4  | 14        | 3500  | -   |
| 0.3                    | 19.5                      | 104                    | 0.9                   | 71.18     | BS06-../DHE07LA4  | 14        | 3500  | -   |
| 0.3                    | 18                        | 106                    | 0.8                   | 77.00     | BS06-../DHE07LA4  | 14        | 3500  | -   |
| 0.3                    | 52                        | 42.5                   | 3.1                   | 26.42     | BS10-../DHE07LA4  | 26        | 3250  | -   |
| 0.3                    | 41                        | 53                     | 2.5                   | 33.55     | BS10-../DHE07LA4  | 26        | 3550  | -   |
| 0.3                    | 34.5                      | 62                     | 2.3                   | 39.96     | BS10-../DHE07LA4  | 26        | 3800  | -   |
| 0.3                    | 29                        | 74                     | 1.95                  | 47.59     | BS10-../DHE07LA4  | 26        | 4050  | -   |
| 0.3                    | 24                        | 88                     | 1.7                   | 57.12     | BS10-../DHE07LA4  | 26        | 4350  | -   |
| 0.3                    | 22.5                      | 85                     | 1.75                  | 60.74     | BS10-../DHE07LA4  | 26        | 4550  | -   |
| 0.3                    | 19                        | 111                    | 1.45                  | 71.96     | BS10-../DHE07LA4  | 26        | 5000  | -   |
| 0.3                    | 16.5                      | 128                    | 1.15                  | 84.36     | BS10-../DHE07LA4  | 26        | 5300  | -   |
| 0.3                    | 13.5                      | 135                    | 1.2                   | 103.4     | BS10-../DHE07LA4  | 26        | 5600  | -   |
| 0.3                    | 10.5                      | 174                    | 0.94                  | 130.3     | BS10-../DHE07LA4  | 26        | 6000  | -   |
| 0.3                    | 9.0                       | 200                    | 0.83                  | 152.7     | BS10-../DHE07LA4  | 26        | 6000  | -   |
| 0.3                    | 23.5                      | 91                     | 3.1                   | 58.74     | BS20-../DHE07LA4  | 36        | 5900  | -   |
| 0.3                    | 19.5                      | 110                    | 2.7                   | 70.30     | BS20-../DHE07LA4  | 36        | 6300  | -   |
| 0.3                    | 18                        | 105                    | 2.6                   | 76.18     | BS20-../DHE07LA4  | 36        | 6600  | -   |
| 0.3                    | 15.5                      | 121                    | 2.2                   | 88.67     | BS20-../DHE07LA4  | 36        | 7000  | -   |
| 0.3                    | 13                        | 145                    | 1.85                  | 106.3     | BS20-../DHE07LA4  | 36        | 7600  | -   |
| 0.3                    | 11                        | 171                    | 1.6                   | 127.3     | BS20-../DHE07LA4  | 36        | 8000  | -   |
| 0.3                    | 8.6                       | 215                    | 1.3                   | 159.4     | BS20-../DHE07LA4  | 36        | 8000  | -   |
| 0.3                    | 7.5                       | 250                    | 1.1                   | 183.0     | BS20-../DHE07LA4  | 36        | 8000  | -   |
| 0.3                    | 6.1                       | 300                    | 0.97                  | 225.6     | BS20-../DHE07LA4  | 36        | 8000  | -   |
| 0.3                    | 5.3                       | 345                    | 0.86                  | 257.8     | BS20Z-../DHE07LA4 | 38        | 8000  | -   |
| 0.3                    | 16.5                      | 133                    | 3.1                   | 83.48     | BS30-../DHE07LA4  | 54        | 6800  | -   |
| 0.3                    | 11                        | 177                    | 2.9                   | 125.2     | BS30-../DHE07LA4  | 54        | 8700  | -   |
| 0.3                    | 9.1                       | 210                    | 2.6                   | 151.1     | BS30-../DHE07LA4  | 54        | 9500  | -   |
| 0.3                    | 7.3                       | 255                    | 2.1                   | 186.7     | BS30-../DHE07LA4  | 54        | 10000 | -   |
| 0.3                    | 6.3                       | 300                    | 1.75                  | 216.4     | BS30-../DHE07LA4  | 54        | 10000 | -   |
| 0.3                    | 5.2                       | 360                    | 1.55                  | 261.6     | BS30Z-../DHE07LA4 | 56        | 10000 | -   |
| 0.3                    | 4.5                       | 410                    | 1.4                   | 306.6     | BS30Z-../DHE07LA4 | 56        | 10000 | -   |
| 0.3                    | 3.5                       | 530                    | 1.1                   | 390.2     | BS30Z-../DHE07LA4 | 56        | 10000 | -   |

The torques marked (\*) are maximum permissible torques for service factor f<sub>B</sub>=1.0.

# BS-series worm-geared motors

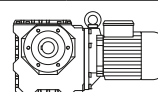
## Selection - worm-geared motors

### 0.3 kW



| P <sub>N</sub><br>[kW] | n <sub>2</sub><br>[1/min] | 50 Hz                  |                       | i<br>[:1] | Type              | m<br>[kg] | [N]   | [N] |
|------------------------|---------------------------|------------------------|-----------------------|-----------|-------------------|-----------|-------|-----|
|                        |                           | M <sub>2</sub><br>[Nm] | f <sub>B</sub><br>[—] |           |                   |           |       |     |
| 0.3                    | 3.0                       | 610                    | 0.98                  | 457.3     | BS30Z-../DHE07LA4 | 56        | 10000 | -   |
| 0.3                    | 2.6                       | 700                    | 0.86                  | 539.3     | BS30Z-../DHE07LA4 | 56        | 10000 | -   |
| 0.3                    | 7.0                       | 300                    | 2.3                   | 197.1     | BS40Z-../DHE07LA4 | 70        | 15000 | -   |
| 0.3                    | 5.5                       | 325                    | 2.8                   | 249.6     | BS40Z-../DHE07LA4 | 70        | 15000 | -   |
| 0.3                    | 4.8                       | 440                    | 1.65                  | 287.7     | BS40Z-../DHE07LA4 | 70        | 15000 | -   |
| 0.3                    | 4.6                       | 390                    | 2.7                   | 302.1     | BS40Z-../DHE07LA4 | 70        | 15000 | -   |
| 0.3                    | 3.9                       | 460                    | 2.3                   | 356.8     | BS40Z-../DHE07LA4 | 70        | 15000 | -   |
| 0.3                    | 3.1                       | 580                    | 1.7                   | 446.8     | BS40Z-../DHE07LA4 | 70        | 15000 | -   |
| 0.3                    | 2.7                       | 660                    | 1.65                  | 520.8     | BS40Z-../DHE07LA4 | 70        | 15000 | -   |
| 0.3                    | 2.3                       | 750                    | 1.2                   | 612.1     | BS40Z-../DHE07LA4 | 70        | 15000 | -   |
| 0.3                    | 1.9                       | 900                    | 0.84                  | 736.5     | BS40Z-../DHE07LA4 | 70        | 15000 | -   |

### 0.37 kW



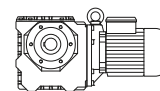
| P <sub>N</sub><br>[kW] | n <sub>2</sub><br>[1/min] | 50 Hz                  |                       | i<br>[:1] | Type             | m<br>[kg] | [N]  | [N] |
|------------------------|---------------------------|------------------------|-----------------------|-----------|------------------|-----------|------|-----|
|                        |                           | M <sub>2</sub><br>[Nm] | f <sub>B</sub><br>[—] |           |                  |           |      |     |
| 0.37                   | 315                       | 9.8                    | 4.1                   | 4.60      | BS03-../DHE08MA4 | 10        | 1070 | -   |
| 0.37                   | 240                       | 12.9                   | 3.4                   | 6.00      | BS03-../DHE08MA4 | 10        | 1170 | -   |
| 0.37                   | 179                       | 16.9                   | 2.8                   | 8.00      | BS03-../DHE08MA4 | 10        | 1320 | -   |
| 0.37                   | 143                       | 20.5                   | 2.5                   | 10.00     | BS03-../DHE08MA4 | 10        | 1450 | -   |
| 0.37                   | 106                       | 26                     | 2.1                   | 13.50     | BS03-../DHE08MA4 | 10        | 1600 | -   |
| 0.37                   | 76                        | 35                     | 1.55                  | 19.00     | BS03-../DHE08MA4 | 10        | 1950 | -   |
| 0.37                   | 58                        | 42                     | 1.3                   | 25.00     | BS03-../DHE08MA4 | 10        | 1950 | -   |
| 0.37                   | 43.5                      | 49.5                   | 1.1                   | 33.00     | BS03-../DHE08MA4 | 10        | 1950 | -   |
| 0.37                   | 37                        | 61                     | 0.9                   | 39.00     | BS03-../DHE08MA4 | 10        | 1950 | -   |
| 0.37                   | 134                       | 21                     | 3.1                   | 10.73     | BS06-../DHE08MA4 | 16        | 1850 | -   |
| 0.37                   | 102                       | 28                     | 2.4                   | 14.07     | BS06-../DHE08MA4 | 16        | 2200 | -   |
| 0.37                   | 87                        | 32                     | 2.3                   | 16.56     | BS06-../DHE08MA4 | 16        | 2400 | -   |
| 0.37                   | 73                        | 38.5                   | 1.95                  | 19.82     | BS06-../DHE08MA4 | 16        | 2500 | -   |
| 0.37                   | 59                        | 47.5                   | 1.6                   | 24.25     | BS06-../DHE08MA4 | 16        | 2600 | -   |
| 0.37                   | 55                        | 46.5                   | 1.65                  | 26.21     | BS06-../DHE08MA4 | 16        | 3000 | -   |
| 0.37                   | 45.5                      | 56                     | 1.45                  | 31.50     | BS06-../DHE08MA4 | 16        | 3200 | -   |
| 0.37                   | 35                        | 72                     | 1.2                   | 41.29     | BS06-../DHE08MA4 | 16        | 3500 | -   |
| 0.37                   | 29.5                      | 86                     | 1.0                   | 48.60     | BS06-../DHE08MA4 | 16        | 3500 | -   |
| 0.37                   | 25                        | 100                    | 0.91                  | 58.15     | BS06-../DHE08MA4 | 16        | 3500 | -   |
| 0.37                   | 67                        | 42                     | 3.0                   | 21.61     | BS10-../DHE08MA4 | 27        | 3000 | -   |
| 0.37                   | 64                        | 38                     | 3.1                   | 22.60     | BS10-../DHE08MA4 | 27        | 3200 | -   |
| 0.37                   | 55                        | 50                     | 2.6                   | 26.42     | BS10-../DHE08MA4 | 27        | 3250 | -   |
| 0.37                   | 47                        | 51                     | 2.5                   | 30.63     | BS10-../DHE08MA4 | 27        | 3550 | -   |
| 0.37                   | 43                        | 62                     | 2.2                   | 33.55     | BS10-../DHE08MA4 | 27        | 3550 | -   |
| 0.37                   | 36                        | 73                     | 1.9                   | 39.96     | BS10-../DHE08MA4 | 27        | 3800 | -   |
| 0.37                   | 30.5                      | 86                     | 1.7                   | 47.59     | BS10-../DHE08MA4 | 27        | 4050 | -   |
| 0.37                   | 25.5                      | 102                    | 1.45                  | 57.12     | BS10-../DHE08MA4 | 27        | 4350 | -   |
| 0.37                   | 24                        | 98                     | 1.55                  | 60.74     | BS10-../DHE08MA4 | 27        | 4550 | -   |
| 0.37                   | 20                        | 130                    | 1.25                  | 71.96     | BS10-../DHE08MA4 | 27        | 5000 | -   |
| 0.37                   | 17                        | 153                    | 0.98                  | 84.36     | BS10-../DHE08MA4 | 27        | 5300 | -   |
| 0.37                   | 14                        | 161                    | 0.99                  | 103.4     | BS10-../DHE08MA4 | 27        | 5600 | -   |
| 0.37                   | 11                        | 205                    | 0.8                   | 130.3     | BS10-../DHE08MA4 | 27        | 6000 | -   |
| 0.37                   | 29.5                      | 89                     | 3.0                   | 48.98     | BS20-../DHE08MA4 | 37        | 5500 | -   |
| 0.37                   | 28.5                      | 83                     | 3.3                   | 50.44     | BS20-../DHE08MA4 | 37        | 5700 | -   |
| 0.37                   | 24.5                      | 108                    | 2.6                   | 58.74     | BS20-../DHE08MA4 | 37        | 5900 | -   |
| 0.37                   | 20.5                      | 129                    | 2.3                   | 70.30     | BS20-../DHE08MA4 | 37        | 6300 | -   |
| 0.37                   | 19                        | 122                    | 2.2                   | 76.18     | BS20-../DHE08MA4 | 37        | 6600 | -   |
| 0.37                   | 16.5                      | 141                    | 1.9                   | 88.67     | BS20-../DHE08MA4 | 37        | 7000 | -   |
| 0.37                   | 14.5                      | 180                    | 1.4                   | 101.1     | BS20-../DHE08MA4 | 37        | 7100 | -   |
| 0.37                   | 13.5                      | 172                    | 1.55                  | 106.3     | BS20-../DHE08MA4 | 37        | 7600 | -   |
| 0.37                   | 11.5                      | 200                    | 1.35                  | 127.3     | BS20-../DHE08MA4 | 37        | 8000 | -   |
| 0.37                   | 9.0                       | 255                    | 1.1                   | 159.4     | BS20-../DHE08MA4 | 37        | 8000 | -   |
| 0.37                   | 7.9                       | 295                    | 0.95                  | 183.0     | BS20-../DHE08MA4 | 37        | 8000 | -   |
| 0.37                   | 6.4                       | 350                    | 0.83                  | 225.6     | BS20-../DHE08MA4 | 37        | 8000 | -   |

The torques marked (\*) are maximum permissible torques for service factor f<sub>B</sub>=1.0.

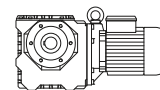
# BS-series worm-geared motors

## Selection - worm-geared motors

| 0.37 kW        |                |                |                |       |                   |      |       |     |
|----------------|----------------|----------------|----------------|-------|-------------------|------|-------|-----|
| P <sub>N</sub> | 50 Hz          |                |                | i     | Type              | m    |       |     |
|                | n <sub>2</sub> | M <sub>2</sub> | f <sub>B</sub> |       |                   |      |       |     |
| [kW]           | [1/min]        | [Nm]           | [-]            | [:1]  |                   | [kg] | [N]   | [N] |
| 0.37           | 17.5           | 155            | 2.6            | 83.48 | BS30-../DHE08MA4  | 55   | 6800  | -   |
| 0.37           | 16             | 152            | 3.2            | 90.59 | BS30-../DHE08MA4  | 55   | 7700  | -   |
| 0.37           | 13.5           | 177            | 2.9            | 106.2 | BS30-../DHE08MA4  | 55   | 8200  | -   |
| 0.37           | 11.5           | 205            | 2.5            | 125.2 | BS30-../DHE08MA4  | 55   | 8700  | -   |
| 0.37           | 9.5            | 245            | 2.2            | 151.1 | BS30-../DHE08MA4  | 55   | 9500  | -   |
| 0.37           | 7.7            | 300            | 1.8            | 186.7 | BS30-../DHE08MA4  | 55   | 10000 | -   |
| 0.37           | 6.7            | 345            | 1.5            | 216.4 | BS30-../DHE08MA4  | 55   | 10000 | -   |
| 0.37           | 5.5            | 420            | 1.35           | 261.6 | BS30Z-../DHE08MA4 | 58   | 10000 | -   |
| 0.37           | 4.7            | 485            | 1.2            | 306.6 | BS30Z-../DHE08MA4 | 58   | 10000 | -   |
| 0.37           | 3.7            | 620            | 0.95           | 390.2 | BS30Z-../DHE08MA4 | 58   | 10000 | -   |
| 0.37           | 3.2            | 700            | 0.86           | 457.3 | BS30Z-../DHE08MA4 | 58   | 10000 | -   |
| 0.37           | 8.1            | 280            | 2.9            | 178.2 | BS40-../DHE08MA4  | 68   | 15000 | -   |
| 0.37           | 6.6            | 335            | 2.4            | 219.7 | BS40-../DHE08MA4  | 68   | 15000 | -   |
| 0.37           | 5.8            | 380            | 2.4            | 249.6 | BS40Z-../DHE08MA4 | 71   | 15000 | -   |
| 0.37           | 5.0            | 520            | 1.4            | 287.7 | BS40Z-../DHE08MA4 | 71   | 15000 | -   |
| 0.37           | 4.8            | 460            | 2.3            | 302.1 | BS40Z-../DHE08MA4 | 71   | 15000 | -   |
| 0.37           | 4.1            | 540            | 2.0            | 356.8 | BS40Z-../DHE08MA4 | 71   | 15000 | -   |
| 0.37           | 3.3            | 670            | 1.5            | 446.8 | BS40Z-../DHE08MA4 | 71   | 15000 | -   |
| 0.37           | 2.8            | 790            | 1.4            | 520.8 | BS40Z-../DHE08MA4 | 71   | 15000 | -   |
| 0.37           | 2.4            | 890            | 1.0            | 612.1 | BS40Z-../DHE08MA4 | 71   | 15000 | -   |



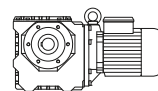
| 0.55 kW        |                |                |                |       |                  |      |      |     |
|----------------|----------------|----------------|----------------|-------|------------------|------|------|-----|
| P <sub>N</sub> | 50 Hz          |                |                | i     | Type             | m    |      |     |
|                | n <sub>2</sub> | M <sub>2</sub> | f <sub>B</sub> |       |                  |      |      |     |
| [kW]           | [1/min]        | [Nm]           | [-]            | [:1]  |                  | [kg] | [N]  | [N] |
| 0.55           | 310            | 14.9           | 2.7            | 4.60  | BS03-../DHE08LA4 | 12   | 1070 | -   |
| 0.55           | 240            | 19.2           | 2.3            | 6.00  | BS03-../DHE08LA4 | 12   | 1170 | -   |
| 0.55           | 177            | 25.5           | 1.9            | 8.00  | BS03-../DHE08LA4 | 12   | 1320 | -   |
| 0.55           | 142            | 31             | 1.7            | 10.00 | BS03-../DHE08LA4 | 12   | 1450 | -   |
| 0.55           | 105            | 39             | 1.4            | 13.50 | BS03-../DHE08LA4 | 12   | 1600 | -   |
| 0.55           | 75             | 53             | 1.05           | 19.00 | BS03-../DHE08LA4 | 12   | 1950 | -   |
| 0.55           | 57             | 63             | 0.87           | 25.00 | BS03-../DHE08LA4 | 12   | 1950 | -   |
| 0.55           | 215            | 19.7           | 2.8            | 6.67  | BS06-../DHE08LA4 | 17   | 1550 | -   |
| 0.55           | 159            | 26.5           | 2.3            | 8.93  | BS06-../DHE08LA4 | 17   | 1710 | -   |
| 0.55           | 132            | 32             | 2.0            | 10.73 | BS06-../DHE08LA4 | 17   | 1850 | -   |
| 0.55           | 101            | 42             | 1.6            | 14.07 | BS06-../DHE08LA4 | 17   | 2200 | -   |
| 0.55           | 86             | 48.5           | 1.5            | 16.56 | BS06-../DHE08LA4 | 17   | 2400 | -   |
| 0.55           | 72             | 58             | 1.3            | 19.82 | BS06-../DHE08LA4 | 17   | 2500 | -   |
| 0.55           | 59             | 71             | 1.1            | 24.25 | BS06-../DHE08LA4 | 17   | 2600 | -   |
| 0.55           | 54             | 71             | 1.1            | 26.21 | BS06-../DHE08LA4 | 17   | 3000 | -   |
| 0.55           | 45             | 85             | 0.94           | 31.50 | BS06-../DHE08LA4 | 17   | 3200 | -   |
| 0.55           | 114            | 36.5           | 3.0            | 12.49 | BS10-../DHE08LA4 | 28   | 2400 | -   |
| 0.55           | 84             | 50             | 2.4            | 16.92 | BS10-../DHE08LA4 | 28   | 2700 | -   |
| 0.55           | 66             | 63             | 2.0            | 21.61 | BS10-../DHE08LA4 | 28   | 3000 | -   |
| 0.55           | 63             | 57             | 2.1            | 22.60 | BS10-../DHE08LA4 | 28   | 3200 | -   |
| 0.55           | 54             | 75             | 1.75           | 26.42 | BS10-../DHE08LA4 | 28   | 3250 | -   |
| 0.55           | 46.5           | 77             | 1.7            | 30.63 | BS10-../DHE08LA4 | 28   | 3550 | -   |
| 0.55           | 42.5           | 93             | 1.45           | 33.55 | BS10-../DHE08LA4 | 28   | 3550 | -   |
| 0.55           | 35.5           | 110            | 1.25           | 39.96 | BS10-../DHE08LA4 | 28   | 3800 | -   |
| 0.55           | 30             | 131            | 1.1            | 47.59 | BS10-../DHE08LA4 | 28   | 4050 | -   |
| 0.55           | 25             | 155            | 0.97           | 57.12 | BS10-../DHE08LA4 | 28   | 4350 | -   |
| 0.55           | 23.5           | 149            | 1.0            | 60.74 | BS10-../DHE08LA4 | 28   | 4550 | -   |
| 0.55           | 20             | 194            | 0.82           | 71.96 | BS10-../DHE08LA4 | 28   | 5000 | -   |
| 0.55           | 51             | 80             | 3.1            | 27.86 | BS20-../DHE08LA4 | 39   | 4450 | -   |
| 0.55           | 46.5           | 81             | 3.1            | 30.63 | BS20-../DHE08LA4 | 39   | 4750 | -   |
| 0.55           | 43.5           | 92             | 2.9            | 32.87 | BS20-../DHE08LA4 | 39   | 4750 | -   |
| 0.55           | 35.5           | 106            | 2.5            | 40.25 | BS20-../DHE08LA4 | 39   | 5300 | -   |
| 0.55           | 34             | 117            | 2.3            | 42.08 | BS20-../DHE08LA4 | 39   | 5200 | -   |
| 0.55           | 28.5           | 123            | 2.2            | 50.44 | BS20-../DHE08LA4 | 39   | 5700 | -   |
| 0.55           | 24.5           | 160            | 1.75           | 58.74 | BS20-../DHE08LA4 | 39   | 5900 | -   |
| 0.55           | 20.5           | 192            | 1.55           | 70.30 | BS20-../DHE08LA4 | 39   | 6300 | -   |



The torques marked (\*) are maximum permissible torques for service factor f<sub>B</sub>=1.0.

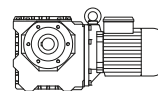
9

### 0.55 kW



| P <sub>N</sub><br>[kW] | 50 Hz                     |                        |                       | i<br>[:1] | Type              | m<br>[kg] | [N]   | [N] |
|------------------------|---------------------------|------------------------|-----------------------|-----------|-------------------|-----------|-------|-----|
|                        | n <sub>2</sub><br>[1/min] | M <sub>2</sub><br>[Nm] | f <sub>B</sub><br>[-] |           |                   |           |       |     |
| 0.55                   | 19                        | 182                    | 1.5                   | 76.18     | BS20-../DHE08LA4  | 39        | 6600  | -   |
| 0.55                   | 16                        | 215                    | 1.25                  | 88.67     | BS20-../DHE08LA4  | 39        | 7000  | -   |
| 0.55                   | 13.5                      | 255                    | 1.05                  | 106.3     | BS20-../DHE08LA4  | 39        | 7600  | -   |
| 0.55                   | 11.5                      | 300                    | 0.9                   | 127.3     | BS20-../DHE08LA4  | 39        | 8000  | -   |
| 0.55                   | 28.5                      | 141                    | 3.2                   | 50.04     | BS30-../DHE08LA4  | 56        | 5900  | -   |
| 0.55                   | 24.5                      | 165                    | 2.8                   | 58.64     | BS30-../DHE08LA4  | 56        | 6900  | -   |
| 0.55                   | 20                        | 183                    | 2.6                   | 71.17     | BS30-../DHE08LA4  | 56        | 7000  | -   |
| 0.55                   | 17                        | 235                    | 1.75                  | 83.48     | BS30-../DHE08LA4  | 56        | 6800  | -   |
| 0.55                   | 16                        | 225                    | 2.2                   | 90.59     | BS30-../DHE08LA4  | 56        | 7700  | -   |
| 0.55                   | 13.5                      | 260                    | 1.95                  | 106.2     | BS30-../DHE08LA4  | 56        | 8200  | -   |
| 0.55                   | 11.5                      | 310                    | 1.7                   | 125.2     | BS30-../DHE08LA4  | 56        | 8700  | -   |
| 0.55                   | 9.4                       | 370                    | 1.45                  | 151.1     | BS30-../DHE08LA4  | 56        | 9500  | -   |
| 0.55                   | 7.6                       | 455                    | 1.2                   | 186.7     | BS30-../DHE08LA4  | 56        | 10000 | -   |
| 0.55                   | 6.6                       | 520                    | 1.0                   | 216.4     | BS30-../DHE08LA4  | 56        | 10000 | -   |
| 0.55                   | 5.5                       | 630                    | 0.89                  | 261.6     | BS30Z-../DHE08LA4 | 59        | 10000 | -   |
| 0.55                   | 4.7                       | 720                    | 0.81                  | 306.6     | BS30Z-../DHE08LA4 | 59        | 10000 | -   |
| 0.55                   | 11.5                      | 305                    | 3.2                   | 126.0     | BS40-../DHE08LA4  | 69        | 14900 | -   |
| 0.55                   | 9.6                       | 355                    | 2.7                   | 148.1     | BS40-../DHE08LA4  | 69        | 15000 | -   |
| 0.55                   | 8.0                       | 425                    | 1.95                  | 178.2     | BS40-../DHE08LA4  | 69        | 15000 | -   |
| 0.55                   | 6.5                       | 500                    | 1.6                   | 219.7     | BS40-../DHE08LA4  | 69        | 15000 | -   |
| 0.55                   | 5.7                       | 580                    | 1.55                  | 249.6     | BS40Z-../DHE08LA4 | 73        | 15000 | -   |
| 0.55                   | 5.0                       | 770                    | 0.93                  | 287.7     | BS40Z-../DHE08LA4 | 73        | 15000 | -   |
| 0.55                   | 4.7                       | 700                    | 1.55                  | 302.1     | BS40Z-../DHE08LA4 | 73        | 15000 | -   |
| 0.55                   | 4.0                       | 820                    | 1.3                   | 356.8     | BS40Z-../DHE08LA4 | 73        | 15000 | -   |
| 0.55                   | 3.2                       | 1030                   | 0.96                  | 446.8     | BS40Z-../DHE08LA4 | 73        | 15000 | -   |
| 0.55                   | 2.8                       | 1180                   | 0.93                  | 520.8     | BS40Z-../DHE08LA4 | 73        | 15000 | -   |

### 0.75 kW



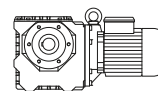
| P <sub>N</sub><br>[kW] | 50 Hz                     |                        |                       | i<br>[:1] | Type             | m<br>[kg] | [N]  | [N] |
|------------------------|---------------------------|------------------------|-----------------------|-----------|------------------|-----------|------|-----|
|                        | n <sub>2</sub><br>[1/min] | M <sub>2</sub><br>[Nm] | f <sub>B</sub><br>[-] |           |                  |           |      |     |
| 0.75                   | 310                       | 20                     | 2.0                   | 4.60      | BS03-../DPE08XB4 | 13        | 1070 | -   |
| 0.75                   | 240                       | 26                     | 1.7                   | 6.00      | BS03-../DPE08XB4 | 13        | 1170 | -   |
| 0.75                   | 179                       | 34                     | 1.4                   | 8.00      | BS03-../DPE08XB4 | 13        | 1320 | -   |
| 0.75                   | 143                       | 42                     | 1.25                  | 10.00     | BS03-../DPE08XB4 | 13        | 1450 | -   |
| 0.75                   | 106                       | 52                     | 1.05                  | 13.50     | BS03-../DPE08XB4 | 13        | 1600 | -   |
| 0.75                   | 215                       | 26.5                   | 2.1                   | 6.67      | BS06-../DPE08XB4 | 19        | 1550 | -   |
| 0.75                   | 160                       | 36                     | 1.7                   | 8.93      | BS06-../DPE08XB4 | 19        | 1710 | -   |
| 0.75                   | 133                       | 43.5                   | 1.5                   | 10.73     | BS06-../DPE08XB4 | 19        | 1850 | -   |
| 0.75                   | 102                       | 56                     | 1.2                   | 14.07     | BS06-../DPE08XB4 | 19        | 2200 | -   |
| 0.75                   | 87                        | 65                     | 1.1                   | 16.56     | BS06-../DPE08XB4 | 19        | 2400 | -   |
| 0.75                   | 72                        | 79                     | 0.95                  | 19.82     | BS06-../DPE08XB4 | 19        | 2500 | -   |
| 0.75                   | 55                        | 95                     | 0.81                  | 26.21     | BS06-../DPE08XB4 | 19        | 3000 | -   |
| 0.75                   | 115                       | 49.5                   | 2.2                   | 12.49     | BS10-../DPE08XB4 | 30        | 2400 | -   |
| 0.75                   | 85                        | 67                     | 1.8                   | 16.92     | BS10-../DPE08XB4 | 30        | 2700 | -   |
| 0.75                   | 66                        | 86                     | 1.45                  | 21.61     | BS10-../DPE08XB4 | 30        | 3000 | -   |
| 0.75                   | 64                        | 77                     | 1.5                   | 22.60     | BS10-../DPE08XB4 | 30        | 3200 | -   |
| 0.75                   | 54                        | 103                    | 1.25                  | 26.42     | BS10-../DPE08XB4 | 30        | 3250 | -   |
| 0.75                   | 47                        | 105                    | 1.25                  | 30.63     | BS10-../DPE08XB4 | 30        | 3550 | -   |
| 0.75                   | 42.5                      | 128                    | 1.05                  | 33.55     | BS10-../DPE08XB4 | 30        | 3550 | -   |
| 0.75                   | 36                        | 149                    | 0.94                  | 39.96     | BS10-../DPE08XB4 | 30        | 3800 | -   |
| 0.75                   | 30                        | 179                    | 0.81                  | 47.59     | BS10-../DPE08XB4 | 30        | 4050 | -   |
| 0.75                   | 85                        | 68                     | 3.2                   | 16.92     | BS20-../DPE08XB4 | 40        | 3700 | -   |
| 0.75                   | 65                        | 89                     | 2.6                   | 22.23     | BS20-../DPE08XB4 | 40        | 4100 | -   |
| 0.75                   | 62                        | 83                     | 2.7                   | 23.13     | BS20-../DPE08XB4 | 40        | 4300 | -   |
| 0.75                   | 52                        | 107                    | 2.3                   | 27.86     | BS20-../DPE08XB4 | 40        | 4450 | -   |
| 0.75                   | 47                        | 109                    | 2.3                   | 30.63     | BS20-../DPE08XB4 | 40        | 4750 | -   |
| 0.75                   | 43.5                      | 126                    | 2.1                   | 32.87     | BS20-../DPE08XB4 | 40        | 4750 | -   |
| 0.75                   | 35.5                      | 145                    | 1.8                   | 40.25     | BS20-../DPE08XB4 | 40        | 5300 | -   |
| 0.75                   | 34                        | 160                    | 1.7                   | 42.08     | BS20-../DPE08XB4 | 40        | 5200 | -   |

The torques marked (\*) are maximum permissible torques for service factor f<sub>B</sub>=1.0.

# BS-series worm-geared motors

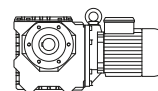
## Selection - worm-geared motors

### 0.75 kW



| P <sub>N</sub><br>[kW] | n <sub>2</sub><br>[1/min] | 50 Hz                  |                       | i<br>[:1] | Type              | m<br>[kg] | [N]   | [N] |
|------------------------|---------------------------|------------------------|-----------------------|-----------|-------------------|-----------|-------|-----|
|                        |                           | M <sub>2</sub><br>[Nm] | f <sub>B</sub><br>[-] |           |                   |           |       |     |
| 0.75                   | 29.5                      | 182                    | 1.5                   | 48.98     | BS20-../DPE08XB4  | 40        | 5500  | -   |
| 0.75                   | 28.5                      | 168                    | 1.6                   | 50.44     | BS20-../DPE08XB4  | 40        | 5700  | -   |
| 0.75                   | 24.5                      | 215                    | 1.3                   | 58.74     | BS20-../DPE08XB4  | 40        | 5900  | -   |
| 0.75                   | 20.5                      | 260                    | 1.15                  | 70.30     | BS20-../DPE08XB4  | 40        | 6300  | -   |
| 0.75                   | 19                        | 245                    | 1.1                   | 76.18     | BS20-../DPE08XB4  | 40        | 6600  | -   |
| 0.75                   | 16.5                      | 285                    | 0.95                  | 88.67     | BS20-../DPE08XB4  | 40        | 7000  | -   |
| 0.75                   | 42.5                      | 138                    | 3.0                   | 33.55     | BS30-../DPE08XB4  | 58        | 5200  | -   |
| 0.75                   | 38                        | 141                    | 3.0                   | 37.92     | BS30-../DPE08XB4  | 58        | 5500  | -   |
| 0.75                   | 36.5                      | 158                    | 2.7                   | 39.31     | BS30-../DPE08XB4  | 58        | 5500  | -   |
| 0.75                   | 28.5                      | 193                    | 2.3                   | 50.04     | BS30-../DPE08XB4  | 58        | 5900  | -   |
| 0.75                   | 24.5                      | 225                    | 2.0                   | 58.64     | BS30-../DPE08XB4  | 58        | 6900  | -   |
| 0.75                   | 20.5                      | 240                    | 2.0                   | 71.17     | BS30-../DPE08XB4  | 58        | 7000  | -   |
| 0.75                   | 17.5                      | 315                    | 1.3                   | 83.48     | BS30-../DPE08XB4  | 58        | 6800  | -   |
| 0.75                   | 16                        | 305                    | 1.6                   | 90.59     | BS30-../DPE08XB4  | 58        | 7700  | -   |
| 0.75                   | 13.5                      | 360                    | 1.4                   | 106.2     | BS30-../DPE08XB4  | 58        | 8200  | -   |
| 0.75                   | 11.5                      | 420                    | 1.25                  | 125.2     | BS30-../DPE08XB4  | 58        | 8700  | -   |
| 0.75                   | 9.5                       | 500                    | 1.1                   | 151.1     | BS30-../DPE08XB4  | 58        | 9500  | -   |
| 0.75                   | 7.7                       | 610                    | 0.89                  | 186.7     | BS30-../DPE08XB4  | 58        | 10000 | -   |
| 0.75                   | 20.5                      | 265                    | 2.8                   | 69.60     | BS40-../DPE08XB4  | 71        | 11800 | -   |
| 0.75                   | 17                        | 290                    | 3.1                   | 86.33     | BS40-../DPE08XB4  | 71        | 12900 | -   |
| 0.75                   | 13.5                      | 355                    | 2.7                   | 108.1     | BS40-../DPE08XB4  | 71        | 14000 | -   |
| 0.75                   | 11.5                      | 415                    | 2.4                   | 126.0     | BS40-../DPE08XB4  | 71        | 14900 | -   |
| 0.75                   | 9.7                       | 475                    | 2.0                   | 148.1     | BS40-../DPE08XB4  | 71        | 15000 | -   |
| 0.75                   | 8.0                       | 580                    | 1.4                   | 178.2     | BS40-../DPE08XB4  | 71        | 15000 | -   |
| 0.75                   | 6.5                       | 690                    | 1.15                  | 219.7     | BS40-../DPE08XB4  | 71        | 15000 | -   |
| 0.75                   | 5.8                       | 770                    | 1.15                  | 249.6     | BS40Z-../DPE08XB4 | 74        | 15000 | -   |
| 0.75                   | 4.8                       | 940                    | 1.15                  | 302.1     | BS40Z-../DPE08XB4 | 74        | 15000 | -   |
| 0.75                   | 4.0                       | 1120                   | 0.96                  | 356.8     | BS40Z-../DPE08XB4 | 74        | 15000 | -   |

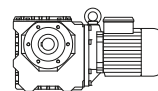
### 1.1 kW



| P <sub>N</sub><br>[kW] | n <sub>2</sub><br>[1/min] | 50 Hz                  |                       | i<br>[:1] | Type             | m<br>[kg] | [N]  | [N] |
|------------------------|---------------------------|------------------------|-----------------------|-----------|------------------|-----------|------|-----|
|                        |                           | M <sub>2</sub><br>[Nm] | f <sub>B</sub><br>[-] |           |                  |           |      |     |
| 1.1                    | 116                       | 72                     | 1.5                   | 12.49     | BS10-../DPE09XA4 | 40        | 2400 | -   |
| 1.1                    | 86                        | 97                     | 1.25                  | 16.92     | BS10-../DPE09XA4 | 40        | 2700 | -   |
| 1.1                    | 67                        | 125                    | 1.0                   | 21.61     | BS10-../DPE09XA4 | 40        | 3000 | -   |
| 1.1                    | 64                        | 113                    | 1.05                  | 22.60     | BS10-../DPE09XA4 | 40        | 3200 | -   |
| 1.1                    | 55                        | 148                    | 0.88                  | 26.42     | BS10-../DPE09XA4 | 40        | 3250 | -   |
| 1.1                    | 47.5                      | 152                    | 0.86                  | 30.63     | BS10-../DPE09XA4 | 40        | 3550 | -   |
| 1.1                    | 113                       | 75                     | 2.7                   | 12.77     | BS20-../DPE09XA4 | 50        | 3350 | -   |
| 1.1                    | 86                        | 98                     | 2.2                   | 16.92     | BS20-../DPE09XA4 | 50        | 3700 | -   |
| 1.1                    | 65                        | 130                    | 1.75                  | 22.23     | BS20-../DPE09XA4 | 50        | 4100 | -   |
| 1.1                    | 63                        | 120                    | 1.9                   | 23.13     | BS20-../DPE09XA4 | 50        | 4300 | -   |
| 1.1                    | 52                        | 157                    | 1.6                   | 27.86     | BS20-../DPE09XA4 | 50        | 4450 | -   |
| 1.1                    | 47.5                      | 159                    | 1.55                  | 30.63     | BS20-../DPE09XA4 | 50        | 4750 | -   |
| 1.1                    | 44                        | 183                    | 1.5                   | 32.87     | BS20-../DPE09XA4 | 50        | 4750 | -   |
| 1.1                    | 36                        | 210                    | 1.25                  | 40.25     | BS20-../DPE09XA4 | 50        | 5300 | -   |
| 1.1                    | 34.5                      | 230                    | 1.15                  | 42.08     | BS20-../DPE09XA4 | 50        | 5200 | -   |
| 1.1                    | 29                        | 240                    | 1.15                  | 50.44     | BS20-../DPE09XA4 | 50        | 5700 | -   |
| 1.1                    | 25                        | 315                    | 0.89                  | 58.74     | BS20-../DPE09XA4 | 50        | 5900 | -   |
| 1.1                    | 69                        | 126                    | 3.0                   | 20.94     | BS30-../DPE09XA4 | 68        | 4300 | -   |
| 1.1                    | 60                        | 131                    | 2.8                   | 24.06     | BS30-../DPE09XA4 | 68        | 4600 | -   |
| 1.1                    | 54                        | 161                    | 2.5                   | 27.07     | BS30-../DPE09XA4 | 68        | 4750 | -   |
| 1.1                    | 47.5                      | 165                    | 2.4                   | 30.63     | BS30-../DPE09XA4 | 68        | 5000 | -   |
| 1.1                    | 43                        | 200                    | 2.1                   | 33.55     | BS30-../DPE09XA4 | 68        | 5200 | -   |
| 1.1                    | 38                        | 205                    | 2.0                   | 37.92     | BS30-../DPE09XA4 | 68        | 5500 | -   |
| 1.1                    | 37                        | 225                    | 1.9                   | 39.31     | BS30-../DPE09XA4 | 68        | 5500 | -   |
| 1.1                    | 29                        | 275                    | 1.65                  | 50.04     | BS30-../DPE09XA4 | 68        | 5900 | -   |
| 1.1                    | 25                        | 320                    | 1.45                  | 58.64     | BS30-../DPE09XA4 | 68        | 6900 | -   |
| 1.1                    | 20.5                      | 355                    | 1.35                  | 71.17     | BS30-../DPE09XA4 | 68        | 7000 | -   |
| 1.1                    | 17.5                      | 460                    | 0.89                  | 83.48     | BS30-../DPE09XA4 | 68        | 6800 | -   |

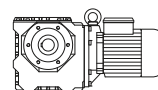
The torques marked (\*) are maximum permissible torques for service factor f<sub>B</sub>=1.0.

### 1.1 kW



| P <sub>N</sub><br>[kW] | 50 Hz                     |                        |                       | i<br>[:1] | Type                    | m    |       |     |
|------------------------|---------------------------|------------------------|-----------------------|-----------|-------------------------|------|-------|-----|
|                        | n <sub>2</sub><br>[1/min] | M <sub>2</sub><br>[Nm] | f <sub>B</sub><br>[—] |           |                         | [kg] | [N]   | [N] |
| 1.1                    | 16                        | 450                    | 1.1                   | 90.59     | <b>BS30-../DPE09XA4</b> | 68   | 7700  | -   |
| 1.1                    | 14                        | 510                    | 1.0                   | 106.2     | <b>BS30-../DPE09XA4</b> | 68   | 8200  | -   |
| 1.1                    | 12                        | 590                    | 0.88                  | 125.2     | <b>BS30-../DPE09XA4</b> | 68   | 8700  | -   |
| 1.1                    | 30.5                      | 265                    | 3.1                   | 47.69     | <b>BS40-../DPE09XA4</b> | 81   | 9600  | -   |
| 1.1                    | 24                        | 310                    | 2.8                   | 60.38     | <b>BS40-../DPE09XA4</b> | 81   | 11200 | -   |
| 1.1                    | 21                        | 385                    | 1.95                  | 69.60     | <b>BS40-../DPE09XA4</b> | 81   | 11800 | -   |
| 1.1                    | 20                        | 365                    | 2.4                   | 73.09     | <b>BS40-../DPE09XA4</b> | 81   | 12100 | -   |
| 1.1                    | 17                        | 425                    | 2.1                   | 86.33     | <b>BS40-../DPE09XA4</b> | 81   | 12900 | -   |
| 1.1                    | 13.5                      | 520                    | 1.85                  | 108.1     | <b>BS40-../DPE09XA4</b> | 81   | 14000 | -   |
| 1.1                    | 11.5                      | 610                    | 1.6                   | 126.0     | <b>BS40-../DPE09XA4</b> | 81   | 14900 | -   |
| 1.1                    | 9.8                       | 690                    | 1.4                   | 148.1     | <b>BS40-../DPE09XA4</b> | 81   | 15000 | -   |
| 1.1                    | 8.1                       | 840                    | 0.98                  | 178.2     | <b>BS40-../DPE09XA4</b> | 81   | 15000 | -   |

### 1.5 kW



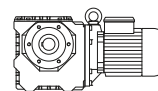
| P <sub>N</sub><br>[kW] | 50 Hz                     |                        |                       | i<br>[:1] | Type                    | m    |       |     |
|------------------------|---------------------------|------------------------|-----------------------|-----------|-------------------------|------|-------|-----|
|                        | n <sub>2</sub><br>[1/min] | M <sub>2</sub><br>[Nm] | f <sub>B</sub><br>[—] |           |                         | [kg] | [N]   | [N] |
| 1.5                    | 115                       | 99                     | 1.1                   | 12.49     | <b>BS10-../DPE09XB4</b> | 40   | 2400  | -   |
| 1.5                    | 85                        | 134                    | 0.9                   | 16.92     | <b>BS10-../DPE09XB4</b> | 40   | 2700  | -   |
| 1.5                    | 113                       | 102                    | 1.95                  | 12.77     | <b>BS20-../DPE09XB4</b> | 50   | 3350  | -   |
| 1.5                    | 85                        | 136                    | 1.6                   | 16.92     | <b>BS20-../DPE09XB4</b> | 50   | 3700  | -   |
| 1.5                    | 65                        | 178                    | 1.3                   | 22.23     | <b>BS20-../DPE09XB4</b> | 50   | 4100  | -   |
| 1.5                    | 63                        | 163                    | 1.4                   | 23.13     | <b>BS20-../DPE09XB4</b> | 50   | 4300  | -   |
| 1.5                    | 52                        | 210                    | 1.2                   | 27.86     | <b>BS20-../DPE09XB4</b> | 50   | 4450  | -   |
| 1.5                    | 47                        | 215                    | 1.15                  | 30.63     | <b>BS20-../DPE09XB4</b> | 50   | 4750  | -   |
| 1.5                    | 44                        | 250                    | 1.1                   | 32.87     | <b>BS20-../DPE09XB4</b> | 50   | 4750  | -   |
| 1.5                    | 36                        | 285                    | 0.91                  | 40.25     | <b>BS20-../DPE09XB4</b> | 50   | 5300  | -   |
| 1.5                    | 34.5                      | 315                    | 0.86                  | 42.08     | <b>BS20-../DPE09XB4</b> | 50   | 5200  | -   |
| 1.5                    | 28.5                      | 335                    | 0.81                  | 50.44     | <b>BS20-../DPE09XB4</b> | 50   | 5700  | -   |
| 1.5                    | 108                       | 110                    | 3.0                   | 13.29     | <b>BS30-../DPE09XB4</b> | 68   | 3600  | -   |
| 1.5                    | 85                        | 139                    | 2.6                   | 16.92     | <b>BS30-../DPE09XB4</b> | 68   | 3950  | -   |
| 1.5                    | 69                        | 172                    | 2.2                   | 20.94     | <b>BS30-../DPE09XB4</b> | 68   | 4300  | -   |
| 1.5                    | 60                        | 179                    | 2.1                   | 24.06     | <b>BS30-../DPE09XB4</b> | 68   | 4600  | -   |
| 1.5                    | 54                        | 220                    | 1.8                   | 27.07     | <b>BS30-../DPE09XB4</b> | 68   | 4750  | -   |
| 1.5                    | 47                        | 225                    | 1.8                   | 30.63     | <b>BS30-../DPE09XB4</b> | 68   | 5000  | -   |
| 1.5                    | 43                        | 270                    | 1.55                  | 33.55     | <b>BS30-../DPE09XB4</b> | 68   | 5200  | -   |
| 1.5                    | 38                        | 280                    | 1.5                   | 37.92     | <b>BS30-../DPE09XB4</b> | 68   | 5500  | -   |
| 1.5                    | 37                        | 310                    | 1.4                   | 39.31     | <b>BS30-../DPE09XB4</b> | 68   | 5500  | -   |
| 1.5                    | 29                        | 380                    | 1.2                   | 50.04     | <b>BS30-../DPE09XB4</b> | 68   | 5900  | -   |
| 1.5                    | 24.5                      | 450                    | 1.0                   | 58.64     | <b>BS30-../DPE09XB4</b> | 68   | 6900  | -   |
| 1.5                    | 20.5                      | 485                    | 0.99                  | 71.17     | <b>BS30-../DPE09XB4</b> | 68   | 7000  | -   |
| 1.5                    | 16                        | 610                    | 0.8                   | 90.59     | <b>BS30-../DPE09XB4</b> | 68   | 7700  | -   |
| 1.5                    | 47                        | 225                    | 3.3                   | 30.63     | <b>BS40-../DPE09XB4</b> | 81   | 8700  | -   |
| 1.5                    | 43.5                      | 260                    | 3.0                   | 33.35     | <b>BS40-../DPE09XB4</b> | 81   | 8300  | -   |
| 1.5                    | 38                        | 275                    | 2.8                   | 38.13     | <b>BS40-../DPE09XB4</b> | 81   | 9400  | -   |
| 1.5                    | 36                        | 310                    | 2.6                   | 40.37     | <b>BS40-../DPE09XB4</b> | 81   | 9000  | -   |
| 1.5                    | 30.5                      | 365                    | 2.3                   | 47.69     | <b>BS40-../DPE09XB4</b> | 81   | 9600  | -   |
| 1.5                    | 24                        | 420                    | 2.0                   | 60.38     | <b>BS40-../DPE09XB4</b> | 81   | 11200 | -   |
| 1.5                    | 21                        | 520                    | 1.45                  | 69.60     | <b>BS40-../DPE09XB4</b> | 81   | 11800 | -   |
| 1.5                    | 20                        | 500                    | 1.75                  | 73.09     | <b>BS40-../DPE09XB4</b> | 81   | 12100 | -   |
| 1.5                    | 17                        | 580                    | 1.55                  | 86.33     | <b>BS40-../DPE09XB4</b> | 81   | 12900 | -   |
| 1.5                    | 13.5                      | 710                    | 1.35                  | 108.1     | <b>BS40-../DPE09XB4</b> | 81   | 14000 | -   |
| 1.5                    | 11.5                      | 830                    | 1.2                   | 126.0     | <b>BS40-../DPE09XB4</b> | 81   | 14900 | -   |
| 1.5                    | 9.7                       | 950                    | 1.0                   | 148.1     | <b>BS40-../DPE09XB4</b> | 81   | 15000 | -   |

The torques marked (\*) are maximum permissible torques for service factor f<sub>B</sub>=1.0.

# BS-series worm-geared motors

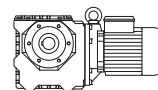
## Selection - worm-geared motors

### 2.2 kW



| P <sub>N</sub><br>[kW] | 50 Hz                     |                        |                       | i<br>[:1] | Type                     | m<br>[kg] |       |     |
|------------------------|---------------------------|------------------------|-----------------------|-----------|--------------------------|-----------|-------|-----|
|                        | n <sub>2</sub><br>[1/min] | M <sub>2</sub><br>[Nm] | f <sub>B</sub><br>[-] |           |                          |           | [N]   | [N] |
| 2.2                    | 114                       | 149                    | 1.35                  | 12.77     | <b>BS20-../DPE09XB4C</b> | 50        | 3350  | -   |
| 2.2                    | 86                        | 197                    | 1.1                   | 16.92     | <b>BS20-../DPE09XB4C</b> | 50        | 3700  | -   |
| 2.2                    | 66                        | 255                    | 0.9                   | 22.23     | <b>BS20-../DPE09XB4C</b> | 50        | 4100  | -   |
| 2.2                    | 63                        | 240                    | 0.95                  | 23.13     | <b>BS20-../DPE09XB4C</b> | 50        | 4300  | -   |
| 2.2                    | 53                        | 305                    | 0.82                  | 27.86     | <b>BS20-../DPE09XB4C</b> | 50        | 4450  | -   |
| 2.2                    | 110                       | 158                    | 2.1                   | 13.29     | <b>BS30-../DPE09XB4C</b> | 68        | 3600  | -   |
| 2.2                    | 86                        | 200                    | 1.8                   | 16.92     | <b>BS30-../DPE09XB4C</b> | 68        | 3950  | -   |
| 2.2                    | 70                        | 245                    | 1.55                  | 20.94     | <b>BS30-../DPE09XB4C</b> | 68        | 4300  | -   |
| 2.2                    | 61                        | 255                    | 1.45                  | 24.06     | <b>BS30-../DPE09XB4C</b> | 68        | 4600  | -   |
| 2.2                    | 54                        | 320                    | 1.25                  | 27.07     | <b>BS30-../DPE09XB4C</b> | 68        | 4750  | -   |
| 2.2                    | 47.5                      | 330                    | 1.2                   | 30.63     | <b>BS30-../DPE09XB4C</b> | 68        | 5000  | -   |
| 2.2                    | 43.5                      | 395                    | 1.05                  | 33.55     | <b>BS30-../DPE09XB4C</b> | 68        | 5200  | -   |
| 2.2                    | 38.5                      | 405                    | 1.05                  | 37.92     | <b>BS30-../DPE09XB4C</b> | 68        | 5500  | -   |
| 2.2                    | 37                        | 455                    | 0.95                  | 39.31     | <b>BS30-../DPE09XB4C</b> | 68        | 5500  | -   |
| 2.2                    | 29                        | 550                    | 0.82                  | 50.04     | <b>BS30-../DPE09XB4C</b> | 68        | 5900  | -   |
| 2.2                    | 86                        | 205                    | 3.3                   | 16.92     | <b>BS40-../DPE09XB4C</b> | 81        | 6400  | -   |
| 2.2                    | 69                        | 245                    | 2.9                   | 21.06     | <b>BS40-../DPE09XB4C</b> | 81        | 6900  | -   |
| 2.2                    | 62                        | 250                    | 2.7                   | 23.59     | <b>BS40-../DPE09XB4C</b> | 81        | 7900  | -   |
| 2.2                    | 56                        | 305                    | 2.4                   | 26.18     | <b>BS40-../DPE09XB4C</b> | 81        | 7500  | -   |
| 2.2                    | 47.5                      | 325                    | 2.3                   | 30.63     | <b>BS40-../DPE09XB4C</b> | 81        | 8700  | -   |
| 2.2                    | 43.5                      | 385                    | 2.0                   | 33.35     | <b>BS40-../DPE09XB4C</b> | 81        | 8300  | -   |
| 2.2                    | 38.5                      | 395                    | 1.95                  | 38.13     | <b>BS40-../DPE09XB4C</b> | 81        | 9400  | -   |
| 2.2                    | 36                        | 460                    | 1.75                  | 40.37     | <b>BS40-../DPE09XB4C</b> | 81        | 9000  | -   |
| 2.2                    | 30.5                      | 530                    | 1.55                  | 47.69     | <b>BS40-../DPE09XB4C</b> | 81        | 9600  | -   |
| 2.2                    | 24.5                      | 600                    | 1.45                  | 60.38     | <b>BS40-../DPE09XB4C</b> | 81        | 11200 | -   |
| 2.2                    | 21                        | 770                    | 0.97                  | 69.60     | <b>BS40-../DPE09XB4C</b> | 81        | 11800 | -   |
| 2.2                    | 20                        | 730                    | 1.2                   | 73.09     | <b>BS40-../DPE09XB4C</b> | 81        | 12100 | -   |
| 2.2                    | 17                        | 850                    | 1.05                  | 86.33     | <b>BS40-../DPE09XB4C</b> | 81        | 12900 | -   |
| 2.2                    | 13.5                      | 1040                   | 0.91                  | 108.1     | <b>BS40-../DPE09XB4C</b> | 81        | 14000 | -   |
| 2.2                    | 12                        | 1170                   | 0.84                  | 126.0     | <b>BS40-../DPE09XB4C</b> | 81        | 14900 | -   |

### 3 kW



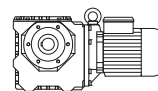
| P <sub>N</sub><br>[kW] | 50 Hz                     |                        |                       | i<br>[:1] | Type                    | m<br>[kg] |       |     |
|------------------------|---------------------------|------------------------|-----------------------|-----------|-------------------------|-----------|-------|-----|
|                        | n <sub>2</sub><br>[1/min] | M <sub>2</sub><br>[Nm] | f <sub>B</sub><br>[-] |           |                         |           | [N]   | [N] |
| 3                      | 110                       | 215                    | 1.55                  | 13.29     | <b>BS30-../DPE11LA4</b> | 89        | 3600  | -   |
| 3                      | 86                        | 275                    | 1.3                   | 16.92     | <b>BS30-../DPE11LA4</b> | 89        | 3950  | -   |
| 3                      | 70                        | 335                    | 1.15                  | 20.94     | <b>BS30-../DPE11LA4</b> | 89        | 4300  | -   |
| 3                      | 61                        | 350                    | 1.05                  | 24.06     | <b>BS30-../DPE11LA4</b> | 89        | 4600  | -   |
| 3                      | 54                        | 440                    | 0.91                  | 27.07     | <b>BS30-../DPE11LA4</b> | 89        | 4750  | -   |
| 3                      | 48                        | 445                    | 0.9                   | 30.63     | <b>BS30-../DPE11LA4</b> | 89        | 5000  | -   |
| 3                      | 112                       | 215                    | 2.9                   | 13.03     | <b>BS40-../DPE11LA4</b> | 107       | 5800  | -   |
| 3                      | 86                        | 280                    | 2.4                   | 16.92     | <b>BS40-../DPE11LA4</b> | 107       | 6400  | -   |
| 3                      | 70                        | 335                    | 2.1                   | 21.06     | <b>BS40-../DPE11LA4</b> | 107       | 6900  | -   |
| 3                      | 62                        | 340                    | 2.0                   | 23.59     | <b>BS40-../DPE11LA4</b> | 107       | 7900  | -   |
| 3                      | 56                        | 415                    | 1.8                   | 26.18     | <b>BS40-../DPE11LA4</b> | 107       | 7500  | -   |
| 3                      | 48                        | 440                    | 1.7                   | 30.63     | <b>BS40-../DPE11LA4</b> | 107       | 8700  | -   |
| 3                      | 44                        | 520                    | 1.5                   | 33.35     | <b>BS40-../DPE11LA4</b> | 107       | 8300  | -   |
| 3                      | 38.5                      | 540                    | 1.45                  | 38.13     | <b>BS40-../DPE11LA4</b> | 107       | 9400  | -   |
| 3                      | 36.5                      | 620                    | 1.3                   | 40.37     | <b>BS40-../DPE11LA4</b> | 107       | 9000  | -   |
| 3                      | 31                        | 720                    | 1.15                  | 47.69     | <b>BS40-../DPE11LA4</b> | 107       | 9600  | -   |
| 3                      | 24.5                      | 830                    | 1.05                  | 60.38     | <b>BS40-../DPE11LA4</b> | 107       | 11200 | -   |
| 3                      | 20                        | 1000                   | 0.88                  | 73.09     | <b>BS40-../DPE11LA4</b> | 107       | 12100 | -   |

The torques marked (\*) are maximum permissible torques for service factor f<sub>B</sub>=1.0.

# BS-series worm-geared motors

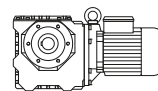
## Selection - worm-geared motors

### 4 kW



| P <sub>N</sub><br>[kW] | n <sub>2</sub><br>[1/min] | 50 Hz                  |                       | i<br>[:1] | Type                    | m    |      |     |
|------------------------|---------------------------|------------------------|-----------------------|-----------|-------------------------|------|------|-----|
|                        |                           | M <sub>2</sub><br>[Nm] | f <sub>B</sub><br>[—] |           |                         | [kg] | [N]  | [N] |
| 4                      | 110                       | 285                    | 1.15                  | 13.29     | <b>BS30-../DPE11LB4</b> | 89   | 3600 | -   |
| 4                      | 86                        | 365                    | 0.99                  | 16.92     | <b>BS30-../DPE11LB4</b> | 89   | 3950 | -   |
| 4                      | 70                        | 450                    | 0.84                  | 20.94     | <b>BS30-../DPE11LB4</b> | 89   | 4300 | -   |
| 4                      | 112                       | 285                    | 2.2                   | 13.03     | <b>BS40-../DPE11LB4</b> | 107  | 5800 | -   |
| 4                      | 86                        | 375                    | 1.8                   | 16.92     | <b>BS40-../DPE11LB4</b> | 107  | 6400 | -   |
| 4                      | 69                        | 450                    | 1.6                   | 21.06     | <b>BS40-../DPE11LB4</b> | 107  | 6900 | -   |
| 4                      | 62                        | 455                    | 1.5                   | 23.59     | <b>BS40-../DPE11LB4</b> | 107  | 7900 | -   |
| 4                      | 56                        | 550                    | 1.35                  | 26.18     | <b>BS40-../DPE11LB4</b> | 107  | 7500 | -   |
| 4                      | 47.5                      | 590                    | 1.25                  | 30.63     | <b>BS40-../DPE11LB4</b> | 107  | 8700 | -   |
| 4                      | 43.5                      | 700                    | 1.1                   | 33.35     | <b>BS40-../DPE11LB4</b> | 107  | 8300 | -   |
| 4                      | 38.5                      | 720                    | 1.1                   | 38.13     | <b>BS40-../DPE11LB4</b> | 107  | 9400 | -   |
| 4                      | 36                        | 830                    | 0.96                  | 40.37     | <b>BS40-../DPE11LB4</b> | 107  | 9000 | -   |
| 4                      | 30.5                      | 970                    | 0.86                  | 47.69     | <b>BS40-../DPE11LB4</b> | 107  | 9600 | -   |

### 5.5 kW



| P <sub>N</sub><br>[kW] | n <sub>2</sub><br>[1/min] | 50 Hz                  |                       | i<br>[:1] | Type                     | m    |      |     |
|------------------------|---------------------------|------------------------|-----------------------|-----------|--------------------------|------|------|-----|
|                        |                           | M <sub>2</sub><br>[Nm] | f <sub>B</sub><br>[—] |           |                          | [kg] | [N]  | [N] |
| 5.5                    | 111                       | 390                    | 0.85                  | 13.29     | <b>BS30-../DPE11LB4C</b> | 93   | 3600 | -   |
| 5.5                    | 113                       | 395                    | 1.55                  | 13.03     | <b>BS40-../DPE11LB4C</b> | 111  | 5800 | -   |
| 5.5                    | 87                        | 510                    | 1.3                   | 16.92     | <b>BS40-../DPE11LB4C</b> | 111  | 6400 | -   |
| 5.5                    | 70                        | 610                    | 1.15                  | 21.06     | <b>BS40-../DPE11LB4C</b> | 111  | 6900 | -   |
| 5.5                    | 63                        | 610                    | 1.15                  | 23.59     | <b>BS40-../DPE11LB4C</b> | 111  | 7900 | -   |
| 5.5                    | 56                        | 760                    | 0.97                  | 26.18     | <b>BS40-../DPE11LB4C</b> | 111  | 7500 | -   |
| 5.5                    | 48                        | 800                    | 0.94                  | 30.63     | <b>BS40-../DPE11LB4C</b> | 111  | 8700 | -   |
| 5.5                    | 44                        | 950                    | 0.82                  | 33.35     | <b>BS40-../DPE11LB4C</b> | 111  | 8300 | -   |

The torques marked (\*) are maximum permissible torques for service factor f<sub>B</sub>=1.0.

# Energy Efficient Geared Motors

AC Line Operated / European Union

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