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## **BS-series worm-gear motors Selection**

**189-206**

### **Description of worm-gear units**

- Sizes
  - Efficiency
  - Bauer service factors ( $f_b$ ) for worm-gear motors
  - Continuous operation without switching frequency  $Z \leq 1/h$
  - Switching duty
  - Ambient temperature
  - Bauer service factor
  - Explanation of shock classification
  - Key to abbreviations
  - Selection tables, worm-gear motors
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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 ( $M_x/M_N$ ), above all the power transmission components (clutches, chains etc.) plus the mass ratios play a decisive role in this.

See Bauer special imprint SD32 for more information.

Continuous operation without switching frequency  $Z \leq 1/h$

**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-gear 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 .. +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  $> 1$ h)

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-play rigid 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)

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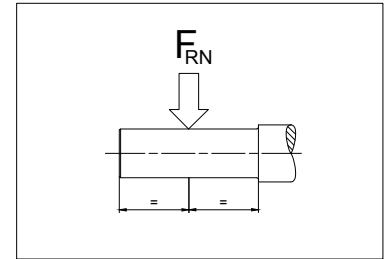
### Key to abbreviations

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

### 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").

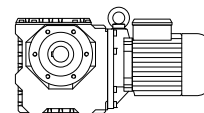
#### Motor power overload protection

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

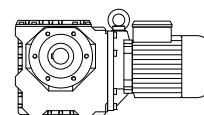
## Selection - worm-geared motors

**P = 0.12 kW**



50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
300	3.35	4.5	4.60	BS02-../DPE05LA4	5.3	1000	-	365	2.75	5.5
260	3.85	5.2	5.40	BS02-../DPE05LA4	5.3	1000	-	310	3.25	6.2
205	4.8	5.2	6.75	BS02-../DPE05LA4	5.3	1000	-	250	3.9	6.4
168	5.7	4.4	8.25	BS02-../DPE05LA4	5.3	1100	-	205	4.65	5.4
130	7.2	3.5	10.67	BS02-../DPE05LA4	5.3	1250	-	157	5.9	4.2
103	8.6	2.9	13.50	BS02-../DPE05LA4	5.3	1250	-	124	7.2	3.5
77	11	2.3	18.00	BS02-../DPE05LA4	5.3	1250	-	93	9.1	2.7
63	12.7	1.95	22.00	BS02-../DPE05LA4	5.3	1250	-	76	10.5	2.4
52	13.8	1.8	27.00	BS02-../DPE05LA4	5.3	1250	-	62	11.6	2.2
42	16.3	1.55	33.00	BS02-../DPE05LA4	5.3	1250	-	51	13.4	1.85
32.5	21.5	1.1	43.00	BS02-../DPE05LA4	5.3	1250	-	39	18.2	1.3
26	25	0.88	54.00	BS02-../DPE05LA4	5.3	1250	-	31	21	1.05
42	16.6	3.3	33.00	BS03-../DPE05LA4	5.4	1950	-	51	13.7	4.0
35.5	20.5	2.7	39.00	BS03-../DPE05LA4	5.4	1950	-	43	17	3.2
28	23.5	2.3	50.00	BS03-../DPE05LA4	5.4	1950	-	33.5	19.8	2.8
22.5	26.5	1.8	62.00	BS03-../DPE05LA4	5.4	1950	-	27	22	2.2
18.5	31.5	1.25	75.00	BS03-../DPE05LA4	5.4	1950	-	22.5	25.5	1.55
77	10.5	3.2	18.00	BS04-../DPE05LA4	5.8	1950	-	93	8.7	3.9
66	13.1	2.8	20.96	BS04-../DPE05LA4	5.8	2100	-	80	10.8	3.4
57	15.2	2.2	24.25	BS04-../DPE05LA4	5.8	2250	-	69	12.6	2.7
53	15.3	2.5	26.21	BS04-../DPE05LA4	5.8	2250	-	64	12.7	3.0
44	18.2	2.1	31.50	BS04-../DPE05LA4	5.8	2250	-	54	14.8	2.6
36	21.5	1.7	38.42	BS04-../DPE05LA4	5.8	2250	-	43.5	18.1	2.0
29	26.5	1.45	47.86	BS04-../DPE05LA4	5.8	2250	-	35	22	1.75
22	32.5	1.1	64.06	BS04-../DPE05LA4	5.8	2250	-	26.5	27	1.35
19.5	38.5	0.99	71.18	BS04-../DPE05LA4	5.8	2250	-	23.5	32	1.2
18	38.5	0.99	77.00	BS04-../DPE05LA4	5.8	2250	-	22	31.5	1.2
15	45	0.84	93.92	BS04-../DPE05LA4	5.8	2250	-	18	37.5	1.0
28.5	28.5	3.1	48.60	BS06-../DPE05LA4	10	3500	-	34.5	23.5	3.7
24	33.5	2.7	58.15	BS06-../DPE05LA4	10	3500	-	29	28	3.3
22	35	2.3	64.06	BS06-../DPE05LA4	10	3500	-	26.5	29	2.8
19.5	41.5	2.3	71.18	BS06-../DPE05LA4	10	3500	-	23.5	34.5	2.7
18	42.5	2.0	77.00	BS06-../DPE05LA4	10	3500	-	22	34.5	2.5
15.5	51	1.9	90.00	BS06-../DPE05LA4	10	3500	-	19	42	2.3
13.5	58	1.7	103.1	BS06-../DPE05LA4	10	3500	-	16.5	47.5	2.1
12	62	1.5	118.8	BS06-../DPE05LA4	10	3500	-	14.5	51	1.85
11	69	1.5	129.0	BS06-../DPE05LA4	10	3500	-	13	59	1.75
9.5	78	1.35	146.8	BS06-../DPE05LA4	10	3500	-	11.5	64	1.65
8.0	85	1.15	174.0	BS06-../DPE05LA4	10	3500	-	9.6	71	1.4
6.3	107	0.92	220.0	BS06-../DPE05LA4	10	3500	-	7.6	88	1.1
5.5	120	0.83	252.0	BS06-../DPE05LA4	10	3500	-	6.7	99	1.0
16.5	51	2.9	84.36	BS10-../DPE06LA4	23	5300	-	20	42	3.6
13.5	54	3.0	103.4	BS10-../DPE06LA4	23	5600	-	16.5	44	3.6
12	70	1.75	119.6	BS10-../DPE06LA4	23	6000	-	14	60	2.0
11	66	2.5	130.3	BS10-../DPE06LA4	23	6000	-	13	56	2.9
9.1	80	2.1	152.7	BS10-../DPE06LA4	23	6000	-	11	66	2.5
7.4	99	1.7	188.6	BS10-../DPE06LA4	23	6000	-	8.9	82	2.1
6.4	114	1.6	216.6	BS10-../DPE06LA4	23	6000	-	7.8	94	1.9
5.5	133	1.35	254.0	BS10Z-../DPE06LA4	24	6000	-	6.6	111	1.6
4.6	154	1.25	302.5	BS10Z-../DPE06LA4	24	6000	-	5.6	126	1.5
3.9	182	1.05	360.3	BS10Z-../DPE06LA4	24	6000	-	4.7	151	1.25
3.2	215	0.88	432.4	BS10Z-../DPE06LA4	24	6000	-	3.9	179	1.05
1.5	160*	1.0	969.9	BS10G06-../DPE06LA4	28	6000	-	1.8	160	1.0
1.2	160*	1.0	1166	BS10G06-../DPE06LA4	28	6000	-	1.5	160	1.0
1.1	160*	1.0	1342	BS10G06-../DPE06LA4	28	6000	-	1.3	160	1.0
0.95	160*	1.0	1528	BS10G06-../DPE06LA4	28	6000	-	1.1	160	1.0

The torques marked (\*) are maximum permissible torques for service factor f<sub>B</sub>=1,0.



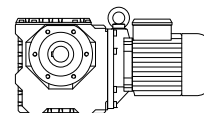
**P = 0.12 kW**

50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
0.85	160*	1.0	1668	BS10G06-../DPE06LA4	28	6000	-	1.1	160	1.0
0.75	160*	1.0	1963	BS10G06-../DPE06LA4	28	6000	-	0.9	160	1.0
0.6	160*	1.0	2348	BS10G06-../DPE06LA4	28	6000	-	0.75	160	1.0
0.55	160*	1.0	2635	BS10G06-../DPE06LA4	28	6000	-	0.65	160	1.0
0.48	160*	1.0	2875	BS10G06-../DPE06LA4	28	6000	-	0.6	160	1.0
0.42	160*	1.0	3332	BS10G06-../DPE06LA4	28	6000	-	0.55	160	1.0
0.38	160*	1.0	3635	BS10G06-../DPE06LA4	28	6000	-	0.46	160	1.0
0.34	160*	1.0	4163	BS10G06-../DPE06LA4	28	6000	-	0.41	160	1.0
0.29	160*	1.0	4776	BS10G06-../DPE06LA4	28	6000	-	0.35	160	1.0
0.27	160*	1.0	5209	BS10G06-../DPE06LA4	28	6000	-	0.33	160	1.0
0.23	164*	1.0	6019	BS10G06-../DPE06LA4	28	6000	-	0.28	164	1.0
0.22	164*	1.0	6565	BS10G06-../DPE06LA4	28	6000	-	0.26	164	1.0
0.19	164*	1.0	7471	BS10G06-../DPE06LA4	28	6000	-	0.23	164	1.0
0.16	164*	1.0	8703	BS10G06-../DPE06LA4	28	6000	-	0.2	164	1.0
8.7	86	3.2	159.4	BS20-../DPE06LA4	34	8000	-	10.5	72	3.8
7.6	99	2.8	183.0	BS20-../DPE06LA4	34	8000	-	9.2	82	3.4
6.2	118	2.5	225.6	BS20-../DPE06LA4	34	8000	-	7.5	97	3.0
5.4	135	2.2	257.8	BS20Z-../DPE06LA4	35	8000	-	6.5	112	2.6
4.6	156	1.9	300.1	BS20Z-../DPE06LA4	35	8000	-	5.6	128	2.3
3.9	182	1.75	359.9	BS20Z-../DPE06LA4	35	8000	-	4.7	151	2.1
3.3	210	1.55	430.8	BS20Z-../DPE06LA4	35	8000	-	3.9	179	1.85
2.6	240	1.5	539.7	BS20Z-../DPE06LA4	35	8000	-	3.1	200	1.85
2.3	265	1.25	619.2	BS20Z-../DPE06LA4	35	8000	-	2.7	225	1.45
1.9	325	0.95	763.4	BS20Z-../DPE06LA4	35	8000	-	2.2	280	1.1
1.7	270*	1.0	831.7	BS20G06-../DPE06LA4	38	8000	-	2.1	270	1.0
1.4	270*	1.0	1000	BS20G06-../DPE06LA4	38	8000	-	1.7	270	1.0
1.1	270*	1.0	1311	BS20G06-../DPE06LA4	38	8000	-	1.3	270	1.0
0.9	270*	1.0	1543	BS20G06-../DPE06LA4	38	8000	-	1.1	270	1.0
0.85	270*	1.0	1683	BS20G06-../DPE06LA4	38	8000	-	1.0	270	1.0
0.7	270*	1.0	2014	BS20G06-../DPE06LA4	38	8000	-	0.85	270	1.0
0.6	270*	1.0	2465	BS20G06-../DPE06LA4	38	8000	-	0.7	270	1.0
0.49	270*	1.0	2857	BS20G06-../DPE06LA4	38	8000	-	0.6	270	1.0
0.45	270*	1.0	3117	BS20G06-../DPE06LA4	38	8000	-	0.55	270	1.0
0.39	270*	1.0	3570	BS20G06-../DPE06LA4	38	8000	-	0.47	270	1.0
0.34	270*	1.0	4096	BS20G06-../DPE06LA4	38	8000	-	0.41	270	1.0
0.29	270*	1.0	4910	BS20G06-../DPE06LA4	38	8000	-	0.35	270	1.0
0.24	270*	1.0	5880	BS20G06-../DPE06LA4	38	8000	-	0.29	270	1.0
0.19	275*	1.0	7363	BS20G06-../DPE06LA4	38	8000	-	0.23	275	1.0
0.18	275*	1.0	8031	BS20G06-../DPE06LA4	38	8000	-	0.21	275	1.0
0.15	280*	1.0	9220	BS20G06-../DPE06LA4	38	8000	-	0.19	280	1.0
3.9	215	1.85	359.6	BS30Z-../DPE06LA4	54	10000	-	4.7	180	2.2
3.6	205	2.9	390.2	BS30Z-../DPE06LA4	54	10000	-	4.3	173	3.4
3.1	235	2.6	457.3	BS30Z-../DPE06LA4	54	10000	-	3.7	198	3.0
2.6	280	2.1	539.3	BS30Z-../DPE06LA4	54	10000	-	3.1	235	2.6
2.2	310	1.85	651.0	BS30Z-../DPE06LA4	54	10000	-	2.6	260	2.2
1.8	365	1.3	804.1	BS30Z-../DPE06LA4	54	10000	-	2.1	315	1.5
1.5	435	1.05	932.0	BS30Z-../DPE06LA4	54	10000	-	1.8	360	1.25
1.4	560	0.88	1022	BS30G06-../DPE06LA4	56	10000	-	1.7	465	1.05
1.2	490*	1.0	1176	BS30G06-../DPE06LA4	56	10000	-	1.5	490	1.0
0.95	490*	1.0	1461	BS30G06-../DPE06LA4	56	10000	-	1.2	490	1.0
0.9	490*	1.0	1576	BS30G06-../DPE06LA4	56	10000	-	1.1	490	1.0
0.75	490*	1.0	1886	BS30G06-../DPE06LA4	56	10000	-	0.9	490	1.0
0.6	490*	1.0	2308	BS30G06-../DPE06LA4	56	10000	-	0.75	490	1.0
0.55	490*	1.0	2518	BS30G06-../DPE06LA4	56	10000	-	0.7	490	1.0
0.48	490*	1.0	2919	BS30G06-../DPE06LA4	56	10000	-	0.6	490	1.0
0.42	490*	1.0	3344	BS30G06-../DPE06LA4	56	10000	-	0.5	490	1.0
0.38	490*	1.0	3647	BS30G06-../DPE06LA4	56	10000	-	0.46	490	1.0

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



### P = 0.12 kW

50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
0.33	490*	1.0	4184	BS30G06-../DPE06LA4	56	10000	-	0.4	490	1.0
0.29	510*	1.0	4905	BS30G06-../DPE06LA4	56	10000	-	0.35	510	1.0
0.24	520*	1.0	5783	BS30G06-../DPE06LA4	56	10000	-	0.29	520	1.0
0.22	520*	1.0	6308	BS30G06-../DPE06LA4	56	10000	-	0.27	520	1.0
0.2	520*	1.0	7179	BS30G06-../DPE06LA4	56	10000	-	0.24	520	1.0
0.17	520*	1.0	8362	BS30G06-../DPE06LA4	56	10000	-	0.2	520	1.0
2.3	300	3.0	612.1	BS40Z-../DPE06LA4	68	15000	-	2.8	245	3.7
1.9	360	2.1	736.5	BS40Z-../DPE06LA4	68	15000	-	2.3	295	2.6
1.6	420	1.75	908.2	BS40Z-../DPE06LA4	68	15000	-	1.9	355	2.1
1.5	530	1.65	965.5	BS40G10-../DPE06LA4	73	15000	-	1.8	445	2.0
1.2	660	1.35	1180	BS40G10-../DPE06LA4	73	15000	-	1.5	530	1.65
0.95	840	1.05	1499	BS40G10-../DPE06LA4	73	15000	-	1.2	660	1.35
0.8	880*	1.0	1785	BS40G10-../DPE06LA4	73	15000	-	0.95	880	1.0
0.65	880*	1.0	2126	BS40G10-../DPE06LA4	73	15000	-	0.8	880	1.0
0.6	880*	1.0	2304	BS40G10-../DPE06LA4	73	15000	-	0.75	880	1.0
0.55	880*	1.0	2552	BS40G10-../DPE06LA4	73	15000	-	0.7	880	1.0
0.48	880*	1.0	2902	BS40G10-../DPE06LA4	73	15000	-	0.6	880	1.0
0.43	880*	1.0	3215	BS40G10-../DPE06LA4	73	15000	-	0.55	880	1.0
0.37	880*	1.0	3769	BS40G10-../DPE06LA4	73	15000	-	0.45	880	1.0
0.33	880*	1.0	4201	BS40G10-../DPE06LA4	73	15000	-	0.4	880	1.0
0.3	880*	1.0	4655	BS40G10-../DPE06LA4	73	15000	-	0.36	880	1.0
0.26	900*	1.0	5498	BS40G10-../DPE06LA4	73	15000	-	0.31	900	1.0
0.23	950*	1.0	6214	BS40G10-../DPE06LA4	73	15000	-	0.27	950	1.0
0.21	950*	1.0	6885	BS40G10-../DPE06LA4	73	15000	-	0.25	950	1.0
0.18	950*	1.0	7905	BS40G10-../DPE06LA4	73	15000	-	0.22	950	1.0

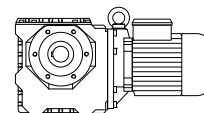
### P = 0.18 kW

50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
300	5.0	3.0	4.60	BS02-../DPE07LA4	9.3	1000	-	365	4.1	3.7
260	5.8	3.4	5.40	BS02-../DPE07LA4	9.3	1000	-	310	4.85	4.1
205	7.2	3.5	6.75	BS02-../DPE07LA4	9.3	1000	-	250	5.9	4.2
168	8.5	2.9	8.25	BS02-../DPE07LA4	9.3	1100	-	205	7.0	3.6
130	10.8	2.3	10.67	BS02-../DPE07LA4	9.3	1250	-	157	8.9	2.8
103	13	1.9	13.50	BS02-../DPE07LA4	9.3	1250	-	124	10.8	2.3
77	16.5	1.5	18.00	BS02-../DPE07LA4	9.3	1250	-	93	13.6	1.85
63	19.1	1.3	22.00	BS02-../DPE07LA4	9.3	1250	-	76	15.8	1.6
52	20.5	1.2	27.00	BS02-../DPE07LA4	9.3	1250	-	62	17.4	1.45
42	24.5	1.0	33.00	BS02-../DPE07LA4	9.3	1250	-	51	20	1.25
73	17.8	3.1	19.00	BS03-../DPE07LA4	9.4	1950	-	88	14.8	3.7
56	21	2.6	25.00	BS03-../DPE07LA4	9.4	1950	-	67	17.7	3.1
42	24.5	2.2	33.00	BS03-../DPE07LA4	9.4	1950	-	51	20.5	2.7
35.5	30.5	1.8	39.00	BS03-../DPE07LA4	9.4	1950	-	43	25.5	2.2
28	35.5	1.55	50.00	BS03-../DPE07LA4	9.4	1950	-	33.5	29.5	1.85
22.5	40	1.2	62.00	BS03-../DPE07LA4	9.4	1950	-	27	33.5	1.45
18.5	47	0.85	75.00	BS03-../DPE07LA4	9.4	1950	-	22.5	38.5	1.05
129	10.3	3.1	10.73	BS04-../DPE07LA4	9.8	1600	-	156	8.5	3.8
106	12.4	2.7	13.09	BS04-../DPE07LA4	9.8	1760	-	128	10.3	3.2
85	15.5	2.3	16.31	BS04-../DPE07LA4	9.8	1970	-	103	12.8	2.7
77	15.8	2.2	18.00	BS04-../DPE07LA4	9.8	1950	-	93	13.1	2.6
66	19.7	1.9	20.96	BS04-../DPE07LA4	9.8	2100	-	80	16.3	2.3

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



**P = 0.18 kW**



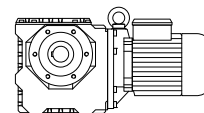
50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
57	22.5	1.5	24.25	BS04-../DPE07LA4	9.8	2250	-	69	18.9	1.8
53	23	1.65	26.21	BS04-../DPE07LA4	9.8	2250	-	64	19	2.0
44	27	1.4	31.50	BS04-../DPE07LA4	9.8	2250	-	54	22	1.75
36	32.5	1.15	38.42	BS04-../DPE07LA4	9.8	2250	-	43.5	27	1.35
29	40	0.95	47.86	BS04-../DPE07LA4	9.8	2250	-	35	33	1.15
57	24	3.2	24.25	BS06-../DPE07LA4	14	2600	-	69	19.9	3.9
53	23.5	3.3	26.21	BS06-../DPE07LA4	14	3000	-	64	19.6	3.9
44	28.5	2.8	31.50	BS06-../DPE07LA4	14	3200	-	54	23	3.5
33.5	36.5	2.4	41.29	BS06-../DPE07LA4	14	3500	-	40.5	30.5	2.8
28.5	43	2.0	48.60	BS06-../DPE07LA4	14	3500	-	34.5	35.5	2.5
24	50	1.8	58.15	BS06-../DPE07LA4	14	3500	-	29	42	2.2
22	53	1.5	64.06	BS06-../DPE07LA4	14	3500	-	26.5	44	1.8
19.5	62	1.5	71.18	BS06-../DPE07LA4	14	3500	-	23.5	51	1.85
18	63	1.35	77.00	BS06-../DPE07LA4	14	3500	-	22	52	1.65
15.5	77	1.25	90.00	BS06-../DPE07LA4	14	3500	-	19	63	1.55
13.5	87	1.15	103.1	BS06-../DPE07LA4	14	3500	-	16.5	71	1.4
12	93	1.0	118.8	BS06-../DPE07LA4	14	3500	-	14.5	77	1.2
11	104	1.0	129.0	BS06-../DPE07LA4	14	3500	-	13	88	1.2
9.5	117	0.91	146.8	BS06-../DPE07LA4	14	3500	-	11.5	97	1.1
29	44	3.3	47.59	BS10-../DPE07LA4	26	4050	-	35.5	36	4.0
24.5	51	2.9	57.12	BS10-../DPE07LA4	26	4350	-	29.5	43	3.5
23	50	3.0	60.74	BS10-../DPE07LA4	26	4550	-	27.5	41.5	3.6
19.5	65	2.5	71.96	BS10-../DPE07LA4	26	5000	-	23.5	54	3.0
16.5	77	1.95	84.36	BS10-../DPE07LA4	26	5300	-	20	63	2.4
13.5	81	2.0	103.4	BS10-../DPE07LA4	26	5600	-	16.5	66	2.4
12	106	1.15	119.6	BS10-../DPE07LA4	26	6000	-	14	90	1.35
11	100	1.65	130.3	BS10-../DPE07LA4	26	6000	-	13	84	1.95
9.1	120	1.4	152.7	BS10-../DPE07LA4	26	6000	-	11	100	1.65
7.4	148	1.15	188.6	BS10-../DPE07LA4	26	6000	-	8.9	123	1.4
6.4	171	1.05	216.6	BS10-../DPE07LA4	26	6000	-	7.8	141	1.3
5.5	200	0.9	254.0	BS10Z-../DPE07LA4	27	6000	-	6.6	166	1.1
4.6	230	0.83	302.5	BS10Z-../DPE07LA4	27	6000	-	5.6	190	1.0
14	90	2.8	101.1	BS20-../DPE07LA4	36	7100	-	17	74	3.4
13	87	3.1	106.3	BS20-../DPE07LA4	36	7600	-	16	70	3.9
11	103	2.6	127.3	BS20-../DPE07LA4	36	8000	-	13.5	84	3.2
8.7	130	2.1	159.4	BS20-../DPE07LA4	36	8000	-	10.5	108	2.5
7.6	149	1.9	183.0	BS20-../DPE07LA4	36	8000	-	9.2	123	2.3
6.2	177	1.65	225.6	BS20-../DPE07LA4	36	8000	-	7.5	146	2.0
5.4	200	1.5	257.8	BS20Z-../DPE07LA4	38	8000	-	6.5	169	1.75
4.6	235	1.3	300.1	BS20Z-../DPE07LA4	38	8000	-	5.6	193	1.55
3.9	270	1.2	359.9	BS20Z-../DPE07LA4	38	8000	-	4.7	225	1.4
3.3	315	1.05	430.8	BS20Z-../DPE07LA4	38	8000	-	3.9	265	1.25
2.6	360	1.0	539.7	BS20Z-../DPE07LA4	38	8000	-	3.1	300	1.2
2.3	400	0.83	619.2	BS20Z-../DPE07LA4	38	8000	-	2.7	340	0.97
6.4	177	2.9	216.4	BS30-../DPE07LA4	54	10000	-	7.8	145	3.6
5.3	210	2.7	261.6	BS30Z-../DPE07LA4	56	10000	-	6.4	177	3.2
4.6	240	2.4	306.6	BS30Z-../DPE07LA4	56	10000	-	5.5	200	2.9
3.9	325	1.2	359.6	BS30Z-../DPE07LA4	56	10000	-	4.7	270	1.45
3.6	310	1.9	390.2	BS30Z-../DPE07LA4	56	10000	-	4.3	255	2.3
3.1	350	1.7	457.3	BS30Z-../DPE07LA4	56	10000	-	3.7	295	2.0
2.6	420	1.45	539.3	BS30Z-../DPE07LA4	56	10000	-	3.1	350	1.7
2.2	465	1.25	651.0	BS30Z-../DPE07LA4	56	10000	-	2.6	395	1.45
1.8	550	0.87	804.1	BS30Z-../DPE07LA4	56	10000	-	2.1	470	1.0
4.8	265	2.7	287.7	BS40Z-../DPE07LA4	70	15000	-	5.9	215	3.3

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

**P = 0.18 kW**



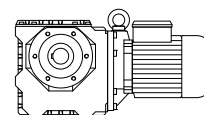
50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
3.1	345	2.9	446.8	BS40Z-../DPE07LA4	70	15000	-	3.8	280	3.5
2.7	400	2.8	520.8	BS40Z-../DPE07LA4	70	15000	-	3.3	325	3.4
2.3	455	2.0	612.1	BS40Z-../DPE07LA4	70	15000	-	2.8	370	2.5
1.9	540	1.4	736.5	BS40Z-../DPE07LA4	70	15000	-	2.3	445	1.7
1.6	630	1.2	908.2	BS40Z-../DPE07LA4	70	15000	-	1.9	530	1.4
1.5	800	1.1	965.5	BS40G10-../DPE07LA4	76	15000	-	1.8	660	1.35
1.2	1000	0.88	1180	BS40G10-../DPE07LA4	76	15000	-	1.5	800	1.1

**P = 0.25 kW**

50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
310	6.7	6.0	4.60	BS03-../DPE08MA4	10	1070	-	375	5.6	7.1
240	8.7	5.1	6.00	BS03-../DPE08MA4	10	1170	-	285	7.3	6.0
178	11.5	4.2	8.00	BS03-../DPE08MA4	10	1320	-	215	9.5	5.1
142	14.1	3.7	10.00	BS03-../DPE08MA4	10	1450	-	171	11.7	4.4
106	17.5	3.1	13.50	BS03-../DPE08MA4	10	1600	-	127	14.6	3.8
75	24	2.3	19.00	BS03-../DPE08MA4	10	1950	-	90	20	2.8
57	28.5	1.95	25.00	BS03-../DPE08MA4	10	1950	-	69	23.5	2.3
43.5	33	1.65	33.00	BS03-../DPE08MA4	10	1950	-	52	28	1.95
36.5	41.5	1.35	39.00	BS03-../DPE08MA4	10	1950	-	44	34.5	1.6
28.5	48.5	1.15	50.00	BS03-../DPE08MA4	10	1950	-	34.5	40	1.4
86	22	3.3	16.56	BS06-../DPE08MA4	16	2400	-	104	18.3	3.9
72	26.5	2.8	19.82	BS06-../DPE08MA4	16	2500	-	87	21.5	3.5
59	32	2.4	24.25	BS06-../DPE08MA4	16	2600	-	71	26.5	2.9
55	31.5	2.4	26.21	BS06-../DPE08MA4	16	3000	-	66	26	3.0
45.5	38	2.1	31.50	BS06-../DPE08MA4	16	3200	-	55	31.5	2.5
34.5	49.5	1.75	41.29	BS06-../DPE08MA4	16	3500	-	41.5	41	2.1
29.5	58	1.5	48.60	BS06-../DPE08MA4	16	3500	-	35.5	48	1.85
24.5	69	1.3	58.15	BS06-../DPE08MA4	16	3500	-	29.5	57	1.6
22.5	72	1.1	64.06	BS06-../DPE08MA4	16	3500	-	27	60	1.35
20	84	1.1	71.18	BS06-../DPE08MA4	16	3500	-	24.5	69	1.35
18.5	86	0.99	77.00	BS06-../DPE08MA4	16	3500	-	22.5	71	1.2
16	104	0.94	90.00	BS06-../DPE08MA4	16	3500	-	19	87	1.15
14	117	0.85	103.1	BS06-../DPE08MA4	16	3500	-	17	96	1.05
42.5	42.5	3.2	33.55	BS10-../DPE08MA4	27	3550	-	51	35.5	3.8
36	49.5	2.8	39.96	BS10-../DPE08MA4	27	3800	-	43	41.5	3.4
30	59	2.5	47.59	BS10-../DPE08MA4	27	4050	-	36	49.5	2.9
25	70	2.1	57.12	BS10-../DPE08MA4	27	4350	-	30	58	2.6
23.5	68	2.2	60.74	BS10-../DPE08MA4	27	4550	-	28.5	56	2.7
20	88	1.8	71.96	BS10-../DPE08MA4	27	5000	-	24	73	2.2
17	103	1.45	84.36	BS10-../DPE08MA4	27	5300	-	20.5	86	1.75
14	109	1.45	103.4	BS10-../DPE08MA4	27	5600	-	17	89	1.8
11	138	1.2	130.3	BS10-../DPE08MA4	27	6000	-	13.5	113	1.45
9.3	164	1.0	152.7	BS10-../DPE08MA4	27	6000	-	11.5	132	1.25
7.6	200	0.85	188.6	BS10-../DPE08MA4	27	6000	-	9.1	167	1.0
19	82	3.3	76.18	BS20-../DPE08MA4	37	6600	-	22.5	70	3.9
16.5	95	2.8	88.67	BS20-../DPE08MA4	37	7000	-	19.5	80	3.4
14.5	121	2.1	101.1	BS20-../DPE08MA4	37	7100	-	17	103	2.4
13.5	116	2.3	106.3	BS20-../DPE08MA4	37	7600	-	16.5	95	2.8
11.5	137	1.95	127.3	BS20-../DPE08MA4	37	8000	-	13.5	116	2.3
9.0	175	1.55	159.4	BS20-../DPE08MA4	37	8000	-	11	143	1.9

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

### P = 0.25 kW



50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
7.8	200	1.4	183.0	BS20-../DPE08MA4	37	8000	-	9.4	167	1.7
6.3	240	1.2	225.6	BS20-../DPE08MA4	37	8000	-	7.6	200	1.45
5.6	270	1.1	257.8	BS20Z-../DPE08MA4	39	8000	-	6.7	225	1.3
4.8	310	0.97	300.1	BS20Z-../DPE08MA4	39	8000	-	5.7	260	1.15
4.0	370	0.86	359.9	BS20Z-../DPE08MA4	39	8000	-	4.8	305	1.05
9.4	170	3.2	151.1	BS30-../DPE08MA4	55	9500	-	11.5	139	3.9
7.7	200	2.7	186.7	BS30-../DPE08MA4	55	10000	-	9.2	171	3.2
6.6	235	2.2	216.4	BS30-../DPE08MA4	55	10000	-	8.0	196	2.7
5.5	285	1.95	261.6	BS30Z-../DPE08MA4	58	10000	-	6.6	235	2.4
4.7	330	1.75	306.6	BS30Z-../DPE08MA4	58	10000	-	5.6	275	2.1
4.0	440	0.9	359.6	BS30Z-../DPE08MA4	58	10000	-	4.8	365	1.1
3.7	415	1.4	390.2	BS30Z-../DPE08MA4	58	10000	-	4.4	350	1.7
3.2	475	1.25	457.3	BS30Z-../DPE08MA4	58	10000	-	3.8	400	1.5
2.7	560	1.05	539.3	BS30Z-../DPE08MA4	58	10000	-	3.2	475	1.25
2.2	650	0.89	651.0	BS30Z-../DPE08MA4	58	10000	-	2.7	530	1.1
7.3	240	2.9	197.1	BS40Z-../DPE08MA4	71	15000	-	8.7	200	3.5
5.0	350	2.0	287.7	BS40Z-../DPE08MA4	71	15000	-	6.0	290	2.5
4.0	375	2.9	356.8	BS40Z-../DPE08MA4	71	15000	-	4.8	310	3.5
3.2	470	2.1	446.8	BS40Z-../DPE08MA4	71	15000	-	3.9	385	2.6
2.8	530	2.1	520.8	BS40Z-../DPE08MA4	71	15000	-	3.3	455	2.4
2.4	600	1.5	612.1	BS40Z-../DPE08MA4	71	15000	-	2.8	520	1.75
2.0	710	1.05	736.5	BS40Z-../DPE08MA4	71	15000	-	2.4	590	1.3
1.6	880	0.84	908.2	BS40Z-../DPE08MA4	71	15000	-	1.9	740	1.0

### P = 0.37 kW

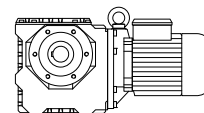
50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
310	10	4.0	4.60	BS03-../DPE08LA4	12	1070	-	375	8.2	4.9
240	12.9	3.4	6.00	BS03-../DPE08LA4	12	1170	-	285	10.9	4.0
178	17	2.8	8.00	BS03-../DPE08LA4	12	1320	-	215	14.1	3.4
142	20.5	2.5	10.00	BS03-../DPE08LA4	12	1450	-	171	17.3	3.0
106	26	2.1	13.50	BS03-../DPE08LA4	12	1600	-	127	21.5	2.6
75	35.5	1.55	19.00	BS03-../DPE08LA4	12	1950	-	90	29.5	1.85
57	42.5	1.3	25.00	BS03-../DPE08LA4	12	1950	-	69	35	1.55
43.5	49.5	1.1	33.00	BS03-../DPE08LA4	12	1950	-	52	41	1.35
36.5	61	0.9	39.00	BS03-../DPE08LA4	12	1950	-	44	51	1.1
133	21.5	3.0	10.73	BS06-../DPE08LA4	17	1850	-	160	17.8	3.7
101	28	2.4	14.07	BS06-../DPE08LA4	17	2200	-	122	23	3.0
86	32.5	2.2	16.56	BS06-../DPE08LA4	17	2400	-	104	27	2.7
72	39	1.9	19.82	BS06-../DPE08LA4	17	2500	-	87	32	2.3
59	47.5	1.6	24.25	BS06-../DPE08LA4	17	2600	-	71	39.5	1.95
55	46.5	1.65	26.21	BS06-../DPE08LA4	17	3000	-	66	39	1.95
45.5	56	1.45	31.50	BS06-../DPE08LA4	17	3200	-	55	46.5	1.7
34.5	73	1.2	41.29	BS06-../DPE08LA4	17	3500	-	41.5	61	1.4
29.5	86	1.0	48.60	BS06-../DPE08LA4	17	3500	-	35.5	71	1.25
24.5	102	0.89	58.15	BS06-../DPE08LA4	17	3500	-	29.5	85	1.05
66	42.5	2.9	21.61	BS10-../DPE08LA4	28	3000	-	80	35	3.6
63	38.5	3.0	22.60	BS10-../DPE08LA4	28	3200	-	76	32	3.7
54	51	2.5	26.42	BS10-../DPE08LA4	28	3250	-	65	42	3.1

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

**P = 0.37 kW**



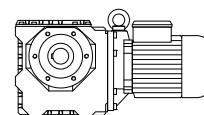
50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
46.5	52	2.5	30.63	BS10-../DPE08LA4	28	3550	-	56	43.5	3.0
42.5	63	2.1	33.55	BS10-../DPE08LA4	28	3550	-	51	52	2.6
36	73	1.9	39.96	BS10-../DPE08LA4	28	3800	-	43	61	2.3
30	88	1.65	47.59	BS10-../DPE08LA4	28	4050	-	36	73	2.0
25	104	1.45	57.12	BS10-../DPE08LA4	28	4350	-	30	87	1.7
23.5	100	1.5	60.74	BS10-../DPE08LA4	28	4550	-	28.5	83	1.8
20	130	1.25	71.96	BS10-../DPE08LA4	28	5000	-	24	108	1.5
17	153	0.98	84.36	BS10-../DPE08LA4	28	5300	-	20.5	127	1.2
14	161	0.99	103.4	BS10-../DPE08LA4	28	5600	-	17	133	1.2
11	205	0.8	130.3	BS10-../DPE08LA4	28	6000	-	13.5	167	0.98
28.5	83	3.3	50.44	BS20-../DPE08LA4	39	5700	-	34	69	3.9
24.5	108	2.6	58.74	BS20-../DPE08LA4	39	5900	-	29.5	89	3.1
20.5	129	2.3	70.30	BS20-../DPE08LA4	39	6300	-	24.5	108	2.8
19	122	2.2	76.18	BS20-../DPE08LA4	39	6600	-	22.5	103	2.6
16.5	141	1.9	88.67	BS20-../DPE08LA4	39	7000	-	19.5	119	2.3
14.5	180	1.4	101.1	BS20-../DPE08LA4	39	7100	-	17	153	1.65
13.5	172	1.55	106.3	BS20-../DPE08LA4	39	7600	-	16.5	141	1.9
11.5	200	1.35	127.3	BS20-../DPE08LA4	39	8000	-	13.5	172	1.55
9.0	255	1.1	159.4	BS20-../DPE08LA4	39	8000	-	11	210	1.3
7.8	295	0.95	183.0	BS20-../DPE08LA4	39	8000	-	9.4	245	1.15
6.3	355	0.82	225.6	BS20-../DPE08LA4	39	8000	-	7.6	295	0.98
17.5	155	2.6	83.48	BS30-../DPE08LA4	56	6800	-	20.5	132	3.1
16	152	3.2	90.59	BS30-../DPE08LA4	56	7700	-	19	128	3.8
13.5	177	2.9	106.2	BS30-../DPE08LA4	56	8200	-	16.5	145	3.5
11.5	205	2.5	125.2	BS30-../DPE08LA4	56	8700	-	14	171	3.0
9.4	250	2.2	151.1	BS30-../DPE08LA4	56	9500	-	11.5	205	2.6
7.7	300	1.8	186.7	BS30-../DPE08LA4	56	10000	-	9.2	250	2.2
6.6	350	1.5	216.4	BS30-../DPE08LA4	56	10000	-	8.0	290	1.8
5.5	420	1.35	261.6	BS30Z-../DPE08LA4	59	10000	-	6.6	350	1.6
4.7	485	1.2	306.6	BS30Z-../DPE08LA4	59	10000	-	5.6	410	1.4
3.7	620	0.95	390.2	BS30Z-../DPE08LA4	59	10000	-	4.4	520	1.15
3.2	700	0.86	457.3	BS30Z-../DPE08LA4	59	10000	-	3.8	590	1.0
8.0	285	2.9	178.2	BS40-../DPE08LA4	69	15000	-	9.6	235	3.5
6.5	340	2.3	219.7	BS40-../DPE08LA4	69	15000	-	7.8	285	2.8
5.7	390	2.3	249.6	BS40Z-../DPE08LA4	73	15000	-	6.9	320	2.8
5.0	520	1.4	287.7	BS40Z-../DPE08LA4	73	15000	-	6.0	435	1.65
4.8	460	2.3	302.1	BS40Z-../DPE08LA4	73	15000	-	5.7	390	2.7
4.0	550	1.95	356.8	BS40Z-../DPE08LA4	73	15000	-	4.8	460	2.3
3.2	690	1.45	446.8	BS40Z-../DPE08LA4	73	15000	-	3.9	570	1.75
2.8	790	1.4	520.8	BS40Z-../DPE08LA4	73	15000	-	3.3	670	1.65
2.4	890	1.0	612.1	BS40Z-../DPE08LA4	73	15000	-	2.8	760	1.2

**P = 0.55 kW**

50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
310	14.9	2.7	4.60	BS03-../DPE08XA4	13	1070	-	375	12.3	3.3
240	19.2	2.3	6.00	BS03-../DPE08XA4	13	1170	-	285	16.2	2.7
178	25	1.9	8.00	BS03-../DPE08XA4	13	1320	-	215	21	2.3
142	31	1.7	10.00	BS03-../DPE08XA4	13	1450	-	171	25.5	2.0
106	38.5	1.45	13.50	BS03-../DPE08XA4	13	1600	-	127	32	1.7

The torques marked (\*) are maximum permissible torques for service factor f<sub>B</sub>=1,0.

**P = 0.55 kW**



50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
75	53	1.05	19.00	BS03-../DPE08XA4	13	1950	-	90	44	1.25
57	63	0.87	25.00	BS03-../DPE08XA4	13	1950	-	69	52	1.05
215	19.7	2.8	6.67	BS06-../DPE08XA4	18	1550	-	260	16.3	3.4
160	26.5	2.3	8.93	BS06-../DPE08XA4	18	1710	-	192	22	2.8
133	31.5	2.1	10.73	BS06-../DPE08XA4	18	1850	-	160	26.5	2.5
101	42	1.6	14.07	BS06-../DPE08XA4	18	2200	-	122	34.5	1.95
86	48.5	1.5	16.56	BS06-../DPE08XA4	18	2400	-	104	40	1.8
72	58	1.3	19.82	BS06-../DPE08XA4	18	2500	-	87	48	1.55
59	71	1.1	24.25	BS06-../DPE08XA4	18	2600	-	71	59	1.3
55	69	1.1	26.21	BS06-../DPE08XA4	18	3000	-	66	58	1.35
45.5	84	0.95	31.50	BS06-../DPE08XA4	18	3200	-	55	69	1.15
114	36.5	3.0	12.49	BS10-../DPE08XA4	30	2400	-	137	30.5	3.5
84	50	2.4	16.92	BS10-../DPE08XA4	30	2700	-	102	41	2.9
66	63	2.0	21.61	BS10-../DPE08XA4	30	3000	-	80	52	2.4
63	57	2.1	22.60	BS10-../DPE08XA4	30	3200	-	76	47.5	2.5
54	75	1.75	26.42	BS10-../DPE08XA4	30	3250	-	65	63	2.1
46.5	77	1.7	30.63	BS10-../DPE08XA4	30	3550	-	56	64	2.0
42.5	93	1.45	33.55	BS10-../DPE08XA4	30	3550	-	51	78	1.75
36	109	1.3	39.96	BS10-../DPE08XA4	30	3800	-	43	91	1.55
30	131	1.1	47.59	BS10-../DPE08XA4	30	4050	-	36	109	1.35
25	155	0.97	57.12	BS10-../DPE08XA4	30	4350	-	30	129	1.15
23.5	149	1.0	60.74	BS10-../DPE08XA4	30	4550	-	28.5	123	1.2
20	194	0.82	71.96	BS10-../DPE08XA4	30	5000	-	24	161	0.99
51	80	3.1	27.86	BS20-../DPE08XA4	40	4450	-	62	66	3.8
46.5	81	3.1	30.63	BS20-../DPE08XA4	40	4750	-	56	67	3.7
43.5	92	2.9	32.87	BS20-../DPE08XA4	40	4750	-	53	76	3.6
35.5	106	2.5	40.25	BS20-../DPE08XA4	40	5300	-	42.5	88	3.0
34	117	2.3	42.08	BS20-../DPE08XA4	40	5200	-	41	97	2.8
28.5	123	2.2	50.44	BS20-../DPE08XA4	40	5700	-	34	103	2.6
24.5	160	1.75	58.74	BS20-../DPE08XA4	40	5900	-	29.5	133	2.1
20.5	192	1.55	70.30	BS20-../DPE08XA4	40	6300	-	24.5	160	1.9
19	182	1.5	76.18	BS20-../DPE08XA4	40	6600	-	22.5	154	1.75
16.5	210	1.3	88.67	BS20-../DPE08XA4	40	7000	-	19.5	177	1.55
14.5	265	0.94	101.1	BS20-../DPE08XA4	40	7100	-	17	225	1.1
13.5	255	1.05	106.3	BS20-../DPE08XA4	40	7600	-	16.5	210	1.3
11.5	300	0.9	127.3	BS20-../DPE08XA4	40	8000	-	13.5	255	1.05
28.5	141	3.2	50.04	BS30-../DPE08XA4	57	5900	-	34.5	117	3.8
24.5	165	2.8	58.64	BS30-../DPE08XA4	57	6900	-	29.5	137	3.4
20	183	2.6	71.17	BS30-../DPE08XA4	57	7000	-	24.5	150	3.2
17.5	230	1.8	83.48	BS30-../DPE08XA4	57	6800	-	20.5	197	2.1
16	225	2.2	90.59	BS30-../DPE08XA4	57	7700	-	19	190	2.6
13.5	260	1.95	106.2	BS30-../DPE08XA4	57	8200	-	16.5	215	2.4
11.5	310	1.7	125.2	BS30-../DPE08XA4	57	8700	-	14	255	2.0
9.4	370	1.45	151.1	BS30-../DPE08XA4	57	9500	-	11.5	305	1.75
7.7	450	1.2	186.7	BS30-../DPE08XA4	57	10000	-	9.2	375	1.45
6.6	520	1.0	216.4	BS30-../DPE08XA4	57	10000	-	8.0	430	1.2
5.5	630	0.89	261.6	BS30Z-../DPE08XA4	60	10000	-	6.6	520	1.1
4.7	720	0.81	306.6	BS30Z-../DPE08XA4	60	10000	-	5.6	600	0.97
11.5	305	3.2	126.0	BS40-../DPE08XA4	70	14900	-	14	250	3.9
9.6	355	2.7	148.1	BS40-../DPE08XA4	70	15000	-	12	280	3.5
8.0	425	1.95	178.2	BS40-../DPE08XA4	70	15000	-	9.6	355	2.3
6.5	500	1.6	219.7	BS40-../DPE08XA4	70	15000	-	7.8	420	1.9
5.7	580	1.55	249.6	BS40Z-../DPE08XA4	74	15000	-	6.9	475	1.9
5.0	770	0.93	287.7	BS40Z-../DPE08XA4	74	15000	-	6.0	640	1.1
4.8	680	1.55	302.1	BS40Z-../DPE08XA4	74	15000	-	5.7	580	1.85

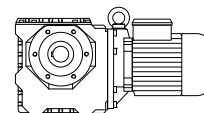
The torques marked (\*) are maximum permissible torques for service factor f<sub>B</sub>=1,0.



# BS-series worm-geared motors

## Selection - worm-geared motors

**P = 0.55 kW**



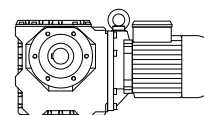
50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
4.0	820	1.3	356.8	BS40Z-../DPE08XA4	74	15000	-	4.8	680	1.6
3.2	1030	0.96	446.8	BS40Z-../DPE08XA4	74	15000	-	3.9	840	1.2
2.8	1180	0.93	520.8	BS40Z-../DPE08XA4	74	15000	-	3.3	1000	1.1

**P = 0.75 kW**

50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
310	20	2.0	4.60	BS03-../DPE08XB4	13	1070	-	375	16.8	2.4
240	26	1.7	6.00	BS03-../DPE08XB4	13	1170	-	285	22	2.0
178	34.5	1.4	8.00	BS03-../DPE08XB4	13	1320	-	215	28.5	1.7
142	42	1.25	10.00	BS03-../DPE08XB4	13	1450	-	171	35	1.5
106	52	1.05	13.50	BS03-../DPE08XB4	13	1600	-	127	43.5	1.25
215	26.5	2.1	6.67	BS06-../DPE08XB4	19	1550	-	260	22	2.5
160	36	1.7	8.93	BS06-../DPE08XB4	19	1710	-	192	30	2.1
133	43.5	1.5	10.73	BS06-../DPE08XB4	19	1850	-	160	36	1.8
101	57	1.2	14.07	BS06-../DPE08XB4	19	2200	-	122	47.5	1.45
86	66	1.1	16.56	BS06-../DPE08XB4	19	2400	-	104	55	1.3
72	79	0.95	19.82	BS06-../DPE08XB4	19	2500	-	87	65	1.15
55	95	0.81	26.21	BS06-../DPE08XB4	19	3000	-	66	79	0.97
114	50	2.2	12.49	BS10-../DPE08XB4	30	2400	-	137	41.5	2.6
84	68	1.75	16.92	BS10-../DPE08XB4	30	2700	-	102	56	2.1
66	86	1.45	21.61	BS10-../DPE08XB4	30	3000	-	80	71	1.75
63	78	1.5	22.60	BS10-../DPE08XB4	30	3200	-	76	65	1.8
54	103	1.25	26.42	BS10-../DPE08XB4	30	3250	-	65	85	1.55
46.5	106	1.25	30.63	BS10-../DPE08XB4	30	3550	-	56	88	1.5
42.5	128	1.05	33.55	BS10-../DPE08XB4	30	3550	-	51	106	1.25
36	149	0.94	39.96	BS10-../DPE08XB4	30	3800	-	43	124	1.15
30	179	0.81	47.59	BS10-../DPE08XB4	30	4050	-	36	149	0.97
84	69	3.2	16.92	BS20-../DPE08XB4	40	3700	-	102	56	3.9
64	90	2.6	22.23	BS20-../DPE08XB4	40	4100	-	77	75	3.1
62	83	2.7	23.13	BS20-../DPE08XB4	40	4300	-	74	69	3.3
51	109	2.3	27.86	BS20-../DPE08XB4	40	4450	-	62	90	2.8
46.5	110	2.3	30.63	BS20-../DPE08XB4	40	4750	-	56	92	2.7
43.5	126	2.1	32.87	BS20-../DPE08XB4	40	4750	-	53	104	2.6
35.5	145	1.8	40.25	BS20-../DPE08XB4	40	5300	-	42.5	121	2.1
34	160	1.7	42.08	BS20-../DPE08XB4	40	5200	-	41	132	2.0
28.5	168	1.6	50.44	BS20-../DPE08XB4	40	5700	-	34	141	1.9
24.5	215	1.3	58.74	BS20-../DPE08XB4	40	5900	-	29.5	182	1.55
20.5	260	1.15	70.30	BS20-../DPE08XB4	40	6300	-	24.5	215	1.4
19	245	1.1	76.18	BS20-../DPE08XB4	40	6600	-	22.5	210	1.3
16.5	285	0.95	88.67	BS20-../DPE08XB4	40	7000	-	19.5	240	1.15
42.5	138	3.0	33.55	BS30-../DPE08XB4	58	5200	-	51	115	3.7
37.5	143	2.9	37.92	BS30-../DPE08XB4	58	5500	-	45.5	118	3.6
36.5	158	2.7	39.31	BS30-../DPE08XB4	58	5500	-	44	131	3.3
28.5	193	2.3	50.04	BS30-../DPE08XB4	58	5900	-	34.5	159	2.8
24.5	225	2.0	58.64	BS30-../DPE08XB4	58	6900	-	29.5	186	2.5
20	250	1.9	71.17	BS30-../DPE08XB4	58	7000	-	24.5	200	2.4
17.5	315	1.3	83.48	BS30-../DPE08XB4	58	6800	-	20.5	265	1.55
16	305	1.6	90.59	BS30-../DPE08XB4	58	7700	-	19	260	1.9
13.5	360	1.4	106.2	BS30-../DPE08XB4	58	8200	-	16.5	295	1.75
11.5	420	1.25	125.2	BS30-../DPE08XB4	58	8700	-	14	345	1.5

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

### P = 0.75 kW



50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
9.4	510	1.05	151.1	BS30-../DPE08XB4	58	9500	-	11.5	415	1.3
7.7	610	0.89	186.7	BS30-../DPE08XB4	58	10000	-	9.2	510	1.05
20.5	265	2.8	69.60	BS40-../DPE08XB4	71	11800	-	25	220	3.4
16.5	295	3.1	86.33	BS40-../DPE08XB4	71	12900	-	20	245	3.7
13.5	355	2.7	108.1	BS40-../DPE08XB4	71	14000	-	16	295	3.2
11.5	415	2.4	126.0	BS40-../DPE08XB4	71	14900	-	14	340	2.9
9.6	480	2.0	148.1	BS40-../DPE08XB4	71	15000	-	12	385	2.5
8.0	580	1.4	178.2	BS40-../DPE08XB4	71	15000	-	9.6	480	1.7
6.5	690	1.15	219.7	BS40-../DPE08XB4	71	15000	-	7.8	570	1.4
5.7	790	1.15	249.6	BS40Z-../DPE08XB4	74	15000	-	6.9	650	1.4
4.8	940	1.15	302.1	BS40Z-../DPE08XB4	74	15000	-	5.7	790	1.35
4.0	1120	0.96	356.8	BS40Z-../DPE08XB4	74	15000	-	4.8	940	1.15

### P = 1.1 kW

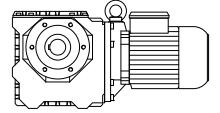
50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
116	72	1.5	12.49	BS10-../DPE09XA4	40	2400	-	140	60	1.8
86	97	1.25	16.92	BS10-../DPE09XA4	40	2700	-	103	81	1.5
67	125	1.0	21.61	BS10-../DPE09XA4	40	3000	-	81	103	1.2
64	113	1.05	22.60	BS10-../DPE09XA4	40	3200	-	77	94	1.25
55	148	0.88	26.42	BS10-../DPE09XA4	40	3250	-	66	124	1.05
47.5	152	0.86	30.63	BS10-../DPE09XA4	40	3550	-	57	127	1.0
113	75	2.7	12.77	BS20-../DPE09XA4	50	3350	-	137	62	3.2
86	98	2.2	16.92	BS20-../DPE09XA4	50	3700	-	103	82	2.7
65	130	1.75	22.23	BS20-../DPE09XA4	50	4100	-	79	107	2.1
63	120	1.9	23.13	BS20-../DPE09XA4	50	4300	-	76	99	2.3
52	157	1.6	27.86	BS20-../DPE09XA4	50	4450	-	63	130	1.9
47.5	159	1.55	30.63	BS20-../DPE09XA4	50	4750	-	57	132	1.9
44	183	1.5	32.87	BS20-../DPE09XA4	50	4750	-	53	152	1.8
36	210	1.25	40.25	BS20-../DPE09XA4	50	5300	-	43.5	173	1.5
34.5	230	1.15	42.08	BS20-../DPE09XA4	50	5200	-	41.5	192	1.4
29	240	1.15	50.44	BS20-../DPE09XA4	50	5700	-	34.5	200	1.35
25	315	0.89	58.74	BS20-../DPE09XA4	50	5900	-	30	260	1.1
69	126	3.0	20.94	BS30-../DPE09XA4	68	4300	-	84	103	3.7
60	131	2.8	24.06	BS30-../DPE09XA4	68	4600	-	73	107	3.4
54	161	2.5	27.07	BS30-../DPE09XA4	68	4750	-	65	134	3.0
47.5	165	2.4	30.63	BS30-../DPE09XA4	68	5000	-	57	138	2.9
43	200	2.1	33.55	BS30-../DPE09XA4	68	5200	-	52	165	2.5
38	205	2.0	37.92	BS30-../DPE09XA4	68	5500	-	46	171	2.5
37	225	1.9	39.31	BS30-../DPE09XA4	68	5500	-	44.5	191	2.3
29	275	1.65	50.04	BS30-../DPE09XA4	68	5900	-	35	230	1.95
25	320	1.45	58.64	BS30-../DPE09XA4	68	6900	-	30	265	1.75
20.5	355	1.35	71.17	BS30-../DPE09XA4	68	7000	-	24.5	300	1.6
17.5	460	0.89	83.48	BS30-../DPE09XA4	68	6800	-	21	385	1.05
16	450	1.1	90.59	BS30-../DPE09XA4	68	7700	-	19.5	370	1.3
14	510	1.0	106.2	BS30-../DPE09XA4	68	8200	-	16.5	430	1.2
12	590	0.88	125.2	BS30-../DPE09XA4	68	8700	-	14	510	1.0
30.5	265	3.1	47.69	BS40-../DPE09XA4	81	9600	-	36.5	220	3.8
24	310	2.8	60.38	BS40-../DPE09XA4	81	11200	-	29	255	3.4
21	385	1.95	69.60	BS40-../DPE09XA4	81	11800	-	25	320	2.3

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

**P = 1.1 kW**



50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
20	365	2.4	73.09	BS40-../DPE09XA4	81	12100	-	24	305	2.9
17	425	2.1	86.33	BS40-../DPE09XA4	81	12900	-	20.5	350	2.6
13.5	520	1.85	108.1	BS40-../DPE09XA4	81	14000	-	16.5	425	2.2
11.5	610	1.6	126.0	BS40-../DPE09XA4	81	14900	-	14	500	1.95
9.8	690	1.4	148.1	BS40-../DPE09XA4	81	15000	-	12	560	1.75
8.1	840	0.98	178.2	BS40-../DPE09XA4	81	15000	-	9.8	690	1.2

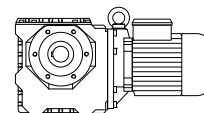
**P = 1.5 kW**

50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
116	98	1.1	12.49	BS10-../DPE09XB4	40	2400	-	140	81	1.35
86	133	0.9	16.92	BS10-../DPE09XB4	40	2700	-	103	111	1.1
113	102	1.95	12.77	BS20-../DPE09XB4	50	3350	-	137	84	2.4
86	134	1.65	16.92	BS20-../DPE09XB4	50	3700	-	103	112	1.95
65	178	1.3	22.23	BS20-../DPE09XB4	50	4100	-	79	146	1.6
63	163	1.4	23.13	BS20-../DPE09XB4	50	4300	-	76	135	1.7
52	210	1.2	27.86	BS20-../DPE09XB4	50	4450	-	63	177	1.4
47.5	215	1.15	30.63	BS20-../DPE09XB4	50	4750	-	57	180	1.4
44	250	1.1	32.87	BS20-../DPE09XB4	50	4750	-	53	205	1.3
36	285	0.91	40.25	BS20-../DPE09XB4	50	5300	-	43.5	235	1.1
34.5	315	0.86	42.08	BS20-../DPE09XB4	50	5200	-	41.5	260	1.05
29	330	0.82	50.44	BS20-../DPE09XB4	50	5700	-	34.5	275	0.98
109	109	3.0	13.29	BS30-../DPE09XB4	68	3600	-	131	90	3.7
86	138	2.6	16.92	BS30-../DPE09XB4	68	3950	-	103	115	3.1
69	172	2.2	20.94	BS30-../DPE09XB4	68	4300	-	84	141	2.7
60	179	2.1	24.06	BS30-../DPE09XB4	68	4600	-	73	147	2.5
54	220	1.8	27.07	BS30-../DPE09XB4	68	4750	-	65	182	2.2
47.5	225	1.8	30.63	BS30-../DPE09XB4	68	5000	-	57	188	2.1
43	270	1.55	33.55	BS30-../DPE09XB4	68	5200	-	52	225	1.85
38	280	1.5	37.92	BS30-../DPE09XB4	68	5500	-	46	230	1.85
37	310	1.4	39.31	BS30-../DPE09XB4	68	5500	-	44.5	260	1.65
29	380	1.2	50.04	BS30-../DPE09XB4	68	5900	-	35	315	1.45
25	440	1.05	58.64	BS30-../DPE09XB4	68	6900	-	30	365	1.25
20.5	485	0.99	71.17	BS30-../DPE09XB4	68	7000	-	24.5	405	1.2
16	610	0.8	90.59	BS30-../DPE09XB4	68	7700	-	19.5	500	0.98
43.5	260	3.0	33.35	BS40-../DPE09XB4	81	8300	-	53	215	3.6
38	275	2.8	38.13	BS40-../DPE09XB4	81	9400	-	46	225	3.5
36	310	2.6	40.37	BS40-../DPE09XB4	81	9000	-	43.5	260	3.1
30.5	365	2.3	47.69	BS40-../DPE09XB4	81	9600	-	36.5	305	2.7
24	420	2.0	60.38	BS40-../DPE09XB4	81	11200	-	29	350	2.5
21	520	1.45	69.60	BS40-../DPE09XB4	81	11800	-	25	440	1.7
20	500	1.75	73.09	BS40-../DPE09XB4	81	12100	-	24	415	2.1
17	580	1.55	86.33	BS40-../DPE09XB4	81	12900	-	20.5	480	1.9
13.5	710	1.35	108.1	BS40-../DPE09XB4	81	14000	-	16.5	580	1.65
11.5	830	1.2	126.0	BS40-../DPE09XB4	81	14900	-	14	680	1.45
9.8	950	1.0	148.1	BS40-../DPE09XB4	81	15000	-	12	770	1.25

The torques marked (\*) are maximum permissible torques for service factor f<sub>B</sub>=1,0.



### P = 2.2 kW



50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
114	149	1.35	12.77	BS20-../DPE09XB4C	53	3350	-	137	124	1.6
86	197	1.1	16.92	BS20-../DPE09XB4C	53	3700	-	103	165	1.35
66	255	0.9	22.23	BS20-../DPE09XB4C	53	4100	-	79	215	1.05
63	240	0.95	23.13	BS20-../DPE09XB4C	53	4300	-	76	199	1.15
53	305	0.82	27.86	BS20-../DPE09XB4C	53	4450	-	63	260	0.96
110	158	2.1	13.29	BS30-../DPE09XB4C	71	3600	-	131	133	2.5
86	200	1.8	16.92	BS30-../DPE09XB4C	71	3950	-	103	169	2.1
70	245	1.55	20.94	BS30-../DPE09XB4C	71	4300	-	84	205	1.85
61	255	1.45	24.06	BS30-../DPE09XB4C	71	4600	-	73	215	1.7
54	320	1.25	27.07	BS30-../DPE09XB4C	71	4750	-	65	265	1.5
47.5	330	1.2	30.63	BS30-../DPE09XB4C	71	5000	-	57	275	1.45
43.5	395	1.05	33.55	BS30-../DPE09XB4C	71	5200	-	52	330	1.25
38.5	405	1.05	37.92	BS30-../DPE09XB4C	71	5500	-	46	340	1.25
37	455	0.95	39.31	BS30-../DPE09XB4C	71	5500	-	44.5	380	1.15
29	550	0.82	50.04	BS30-../DPE09XB4C	71	5900	-	35	460	0.98
86	205	3.3	16.92	BS40-../DPE09XB4C	84	6400	-	103	173	3.9
69	245	2.9	21.06	BS40-../DPE09XB4C	84	6900	-	83	205	3.5
62	250	2.7	23.59	BS40-../DPE09XB4C	84	7900	-	74	210	3.3
56	305	2.4	26.18	BS40-../DPE09XB4C	84	7500	-	67	255	2.9
47.5	325	2.3	30.63	BS40-../DPE09XB4C	84	8700	-	57	270	2.8
43.5	385	2.0	33.35	BS40-../DPE09XB4C	84	8300	-	53	315	2.5
38.5	395	1.95	38.13	BS40-../DPE09XB4C	84	9400	-	46	330	2.4
36	460	1.75	40.37	BS40-../DPE09XB4C	84	9000	-	43.5	380	2.1
30.5	530	1.55	47.69	BS40-../DPE09XB4C	84	9600	-	36.5	445	1.85
24.5	600	1.45	60.38	BS40-../DPE09XB4C	84	11200	-	29	510	1.7
21	770	0.97	69.60	BS40-../DPE09XB4C	84	11800	-	25	640	1.15
20	730	1.2	73.09	BS40-../DPE09XB4C	84	12100	-	24	610	1.45
17	850	1.05	86.33	BS40-../DPE09XB4C	84	12900	-	20.5	700	1.3
13.5	1040	0.91	108.1	BS40-../DPE09XB4C	84	14000	-	16.5	850	1.1
12	1170	0.84	126.0	BS40-../DPE09XB4C	84	14900	-	14	1000	0.98

### P = 3 kW

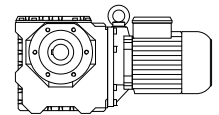
50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
110	215	1.55	13.29	BS30-../DPE11LA4	89	3600	-	131	181	1.85
86	275	1.3	16.92	BS30-../DPE11LA4	89	3950	-	103	230	1.55
70	335	1.15	20.94	BS30-../DPE11LA4	89	4300	-	84	280	1.35
61	350	1.05	24.06	BS30-../DPE11LA4	89	4600	-	73	290	1.25
54	440	0.91	27.07	BS30-../DPE11LA4	89	4750	-	65	365	1.1
47.5	450	0.89	30.63	BS30-../DPE11LA4	89	5000	-	57	375	1.05
112	215	2.9	13.03	BS40-../DPE11LA4	107	5800	-	134	181	3.4
86	280	2.4	16.92	BS40-../DPE11LA4	107	6400	-	103	235	2.9
69	340	2.1	21.06	BS40-../DPE11LA4	107	6900	-	83	280	2.5
62	340	2.0	23.59	BS40-../DPE11LA4	107	7900	-	74	285	2.4
56	415	1.8	26.18	BS40-../DPE11LA4	107	7500	-	67	350	2.1
47.5	445	1.7	30.63	BS40-../DPE11LA4	107	8700	-	57	370	2.0
43.5	520	1.5	33.35	BS40-../DPE11LA4	107	8300	-	53	430	1.8
38.5	540	1.45	38.13	BS40-../DPE11LA4	107	9400	-	46	450	1.75
36	620	1.3	40.37	BS40-../DPE11LA4	107	9000	-	43.5	520	1.55
30.5	730	1.15	47.69	BS40-../DPE11LA4	107	9600	-	36.5	610	1.35
24.5	830	1.05	60.38	BS40-../DPE11LA4	107	11200	-	29	700	1.25
20	1000	0.88	73.09	BS40-../DPE11LA4	107	12100	-	24	830	1.05

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

**P = 4 kW**



50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
110	285	1.15	13.29	BS30-../DPE11LB4	89	3600	-	131	240	1.4
86	365	0.99	16.92	BS30-../DPE11LB4	89	3950	-	103	305	1.2
70	450	0.84	20.94	BS30-../DPE11LB4	89	4300	-	84	375	1.0
112	285	2.2	13.03	BS40-../DPE11LB4	107	5800	-	134	240	2.6
86	375	1.8	16.92	BS40-../DPE11LB4	107	6400	-	103	315	2.1
69	450	1.6	21.06	BS40-../DPE11LB4	107	6900	-	83	375	1.9
62	455	1.5	23.59	BS40-../DPE11LB4	107	7900	-	74	380	1.8
56	550	1.35	26.18	BS40-../DPE11LB4	107	7500	-	67	465	1.6
47.5	590	1.25	30.63	BS40-../DPE11LB4	107	8700	-	57	495	1.5
43.5	700	1.1	33.35	BS40-../DPE11LB4	107	8300	-	53	570	1.35
38.5	720	1.1	38.13	BS40-../DPE11LB4	107	9400	-	46	600	1.3
36	830	0.96	40.37	BS40-../DPE11LB4	107	9000	-	43.5	690	1.15
30.5	970	0.86	47.69	BS40-../DPE11LB4	107	9600	-	36.5	810	1.0

**P = 5.5 kW**

50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
110	395	0.84	13.29	BS30-../DPE11LB4C	93	3600	-	133	325	1.0
113	395	1.55	13.03	BS40-../DPE11LB4C	111	5800	-	136	325	1.9
87	510	1.3	16.92	BS40-../DPE11LB4C	111	6400	-	105	425	1.6
70	610	1.15	21.06	BS40-../DPE11LB4C	111	6900	-	84	510	1.4
62	620	1.1	23.59	BS40-../DPE11LB4C	111	7900	-	75	510	1.35
56	760	0.97	26.18	BS40-../DPE11LB4C	111	7500	-	68	630	1.15
48	800	0.94	30.63	BS40-../DPE11LB4C	111	8700	-	58	670	1.1
44	950	0.82	33.35	BS40-../DPE11LB4C	111	8300	-	53	790	0.99

The torques marked (\*) are maximum permissible torques for service factor f<sub>B</sub>=1,0.