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BS-series worm-geared motors - Selection

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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_s/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 ≤ 10 min	≤ 1 h	> 1 h	> 4 h	> 8 h	> 16 h
			≤ 4 h	≤ 8 h	≤ 16 h	≤ 24 h
I	0,7	0,8	0,9	1,0	1,25	1,4
II	0,9	1,0	1,12	1,25	1,6	1,8
III	1,25	1,4	1,6	1,8	2,2	2,5

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 $t_d \leq 8 \text{ h/d}$

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 $t_d > 8 \text{ h/d}$

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 > 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)

BS-series worm-geared motors

Description of worm-gear units

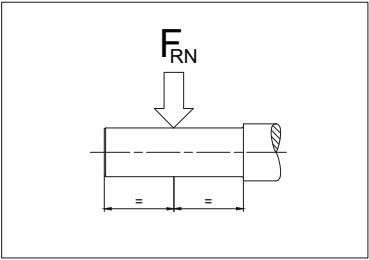
Key to abbreviations

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

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").

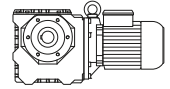
Motor power overload protection

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

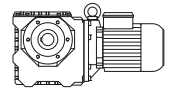
Selection - worm-geared motors - $n_1 = 1500 \frac{1}{\min}$

MN = 0.76 Nm (PN = 0.12 kW)



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

MN = 1 Nm (PN = 0.157 kW)

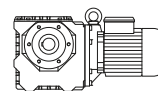


M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min]					Torque range M ₂ [Nm]					m	F _{RN}	F _{RV}
								at motor speed n ₁ [1/min]					at motor speed n ₁ [1/min]							
								150	500	1000	1500	1800	150	500	1000	1500	1800			
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]											[kg]	[N]	[N]		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

BS-series worm-geared motors

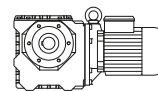
Selection - worm-geared motors - $n_1 = 1500 \frac{1}{\text{min}}$

MN = 1 Nm (PN = 0.157 kW)



M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min]					Torque range M ₂ [Nm]					m	F _{RN}	F _{RV}
								at motor speed n ₁ [1/min]					at motor speed n ₁ [1/min]							
								150	500	1000	1500	1800	150	500	1000	1500	1800			
[Nm]	[kW]	[1/min]	[Nm]	[-]	[:1]											[kg]	[N]	[N]		
1	0.157	30.5	34.5	2.5	48.6	IE2	BS06-../SHE04SA4-1	3	10	20.5	30.5	37	26.5	29.5	34.5	34.5	34.5	8.4	3500	-
1	0.157	25.5	41	2.2	58.15	IE2	BS06-../SHE04SA4-1	2.5	8.5	17	25.5	30.5	31	35	41	41	41	8.4	3500	-
1	0.157	23	43.5	1.8	64.06	IE2	BS06-../SHE04SA4-1	2.3	7.8	15.5	23	28	33	37	43.5	43.5	43.5	8.4	3500	-
1	0.157	21	50	1.9	71.18	IE2	BS06-../SHE04SA4-1	2.1	7	14	21	25	38	42.5	50	50	50	8.4	3500	-
1	0.157	19	51	1.6	77	IE2	BS06-../SHE04SA4-1	1.9	6.4	12.5	19	23	39	43.5	51	51	51	8.4	3500	-
1	0.157	16.5	62	1.6	90	IE2	BS06-../SHE04SA4-1	1.6	5.5	11	16.5	20	47.5	53	62	62	62	8.4	3500	-
1	0.157	14.5	71	1.4	103.1	IE2	BS06-../SHE04SA4-1	1.4	4.8	9.6	14.5	17	54	60	71	71	71	8.4	3500	-
1	0.157	12.5	77	1.2	118.8	IE2	BS06-../SHE04SA4-1	1.2	4.2	8.4	12.5	15	58	65	77	77	77	8.4	3500	-
1	0.157	11.5	86	1.2	129	IE2	BS06-../SHE04SA4-1	1.1	3.8	7.7	11.5	13.5	65	73	86	86	86	8.4	3500	-
1	0.157	10.5	91	1.1	142.2	IE2	BS06-../SHE04SA4-1	1	3.5	7	10.5	12.5	69	77	91	91	91	8.4	3500	-
1	0.157	10	95	1.1	146.8	IE2	BS06-../SHE04SA4-1	1	3.4	6.8	10	12	72	81	95	95	95	8.4	3500	-
1	0.157	8.7	109	0.8	171	IE2	BS06-../SHE04SA4-1	0.85	2.9	5.8	8.7	10.5	83	93	109	109	109	8.4	3500	-
1	0.157	8.6	104	0.94	174	IE2	BS06-../SHE04SA4-1	0.85	2.8	5.7	8.6	10	79	88	104	104	104	8.4	3500	-
1	0.157	7.5	128	1.2	200	IE2	BS10Z-../SHE04SA4-1	0.75	2.5	5	7.5	9	97	108	128	128	128	21	6000	-
1	0.157	5.9	162	1.1	254	IE2	BS10Z-../SHE04SA4-1	0.55	1.9	3.9	5.9	7	123	138	162	162	162	21	6000	-
1	0.157	4.9	187	1	302.5	IE2	BS10Z-../SHE04SA4-1	0.49	1.6	3.3	4.9	5.9	142	159	187	187	187	21	6000	-
1	0.157	4.1	220	0.85	360.3	IE2	BS10Z-../SHE04SA4-1	0.41	1.3	2.7	4.1	4.9	169	189	220	220	220	21	6000	-
1	0.157	7.4	128	2.2	201.4	IE2	BS20Z-../SHE04SA4-1	0.7	2.4	4.9	7.4	8.9	97	109	128	128	128	32	8000	-
1	0.157	5.8	164	1.8	257.8	IE2	BS20Z-../SHE04SA4-1	0.55	1.9	3.8	5.8	6.9	125	140	164	164	164	32	8000	-
1	0.157	4.9	189	1.6	300.1	IE2	BS20Z-../SHE04SA4-1	0.49	1.6	3.3	4.9	5.9	143	160	189	189	189	32	8000	-
1	0.157	4.1	220	1.4	359.9	IE2	BS20Z-../SHE04SA4-1	0.41	1.3	2.7	4.1	5	169	189	220	220	220	32	8000	-
1	0.157	3.4	260	1.3	430.8	IE2	BS20Z-../SHE04SA4-1	0.34	1.1	2.3	3.4	4.1	199	220	260	260	260	32	8000	-
1	0.157	2.7	295	1.2	539.7	IE2	BS20Z-../SHE04SA4-1	0.27	0.9	1.8	2.7	3.3	225	250	295	295	295	32	8000	-
1	0.157	2.4	330	0.99	619.2	IE2	BS20Z-../SHE04SA4-1	0.24	0.8	1.6	2.4	2.9	250	280	330	330	330	32	8000	-

MN = 1.3 Nm (PN = 0.55 kW)

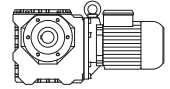


M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min]					Torque range M ₂ [Nm]					m	F _{RN}	F _{RV}
								at motor speed n ₁ [1/min]					at motor speed n ₁ [1/min]							
								150	500	1000	1500	1800	150	500	1000	1500	1800			
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]											[kg]	[N]	[N]		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

BS-series worm-geared motors

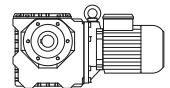
Selection - worm-geared motors - $n_1 = 1500 \frac{1}{\min}$

MN = 1.3 Nm (PN = 0.55 kW)



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

MN = 1.6 Nm (PN = 0.67 kW)

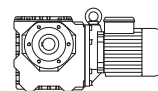


M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min] at motor speed n ₁ [1/min]					Torque range M ₂ [Nm] at motor speed n ₁ [1/min]					m	F _{RN}	F _{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
1.6	0.67	325	6.4	2.3	4.6	IE4	BS02-../S4E06MA4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

BS-series worm-geared motors

Selection - worm-geared motors - $n_1 = 1500 \frac{1}{\text{min}}$

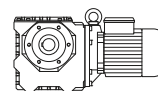
MN = 1.6 Nm (PN = 0.67 kW)



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

9

MN = 2.4 Nm (PN = 0.37 kW)

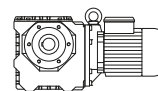


M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min] at motor speed n ₁ [1/min]					Torque range M ₂ [Nm] at motor speed n ₁ [1/min]					m	F _{RN}	F _{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
2.4	0.37	325	9.7	1.5	4.6	IE1	BS02-../SSE06MA4	32.5	108	215	325	390	7.2	8	8.9	9.7	9.7	6.8	1000	-
2.4	0.37	325	9.7	1.5	4.6	IE4	BS02-../S4E06LA4	32.5	108	215	325	390	9.7	9.7	9.7	9.7	9.7	6.8	1000	-
2.4	0.37	275	11.4	1.8	5.4	IE4	BS02-../S4E06LA4	27.5	92	185	275	330	11.4	11.4	11.4	11.4	11.4	6.8	1000	-
2.4	0.37	275	11.4	1.8	5.4	IE1	BS02-../SSE06MA4	27.5	92	185	275	330	8.5	9.5	10.4	11.4	11.4	6.8	1000	-
2.4	0.37	220	13.9	1.8	6.75	IE4	BS02-../S4E06LA4	22	74	148	220	265	13.9	13.9	13.9	13.9	13.9	6.8	1000	-
2.4	0.37	220	13.9	1.8	6.75	IE1	BS02-../SSE06MA4	22	74	148	220	265	10.4	11.6	12.7	13.9	13.9	6.8	1000	-
2.4	0.37	181	16.6	1.5	8.25	IE4	BS02-../S4E06LA4	18	60	121	181	215	16.6	16.6	16.6	16.6	16.6	6.8	1100	-
2.4	0.37	181	16.6	1.5	8.25	IE1	BS02-../SSE06MA4	18	60	121	181	215	12.4	13.8	15.2	16.6	16.6	6.8	1100	-
2.4	0.37	140	20.5	1.2	10.67	IE1	BS02-../SSE06MA4	14	46.5	93	140	168	15.7	17.4	19.2	20.5	20.5	6.8	1250	-
2.4	0.37	140	20.5	1.2	10.67	IE4	BS02-../S4E06LA4	14	46.5	93	140	168	20.5	20.5	20.5	20.5	20.5	6.8	1250	-
2.4	0.37	111	25	0.99	13.5	IE1	BS02-../SSE06MA4	11	37	74	111	133	18.9	21	23	25	25	6.8	1250	-
2.4	0.37	111	25	0.99	13.5	IE4	BS02-../S4E06LA4	11	37	74	111	133	25	25	25	25	25	6.8	1250	-
2.4	0.37	111	25	2.2	13.5	IE1	BS03-../SSE06MA4	11	37	74	111	133	18.9	21	23	25	25	6.9	1600	-
2.4	0.37	111	25	2.2	13.5	IE4	BS03-../S4E06LA4	11	37	74	111	133	25	25	25	25	25	6.9	1600	-
2.4	0.37	78	34.5	1.6	19	IE1	BS03-../SSE06MA4	7.8	26	52	78	94	25.5	28.5	31.5	34.5	34.5	6.9	1950	-
2.4	0.37	78	34.5	1.6	19	IE4	BS03-../S4E06LA4	7.8	26	52	78	94	34.5	34.5	34.5	34.5	34.5	6.9	1950	-
2.4	0.37	60	41	1.3	25	IE1	BS03-../SSE06MA4	6	20	40	60	72	31	34.5	37.5	41	41	6.9	1950	-

BS-series worm-geared motors

Selection - worm-geared motors - $n_1 = 1500 \frac{1}{\text{min}}$

MN = 2.4 Nm (PN = 0.37 kW)

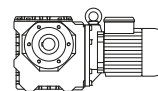


M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min]					Torque range M ₂ [Nm]					m	F _{RN}	F _{RV}
								at motor speed n ₁ [1/min]					at motor speed n ₁ [1/min]							
								150	500	1000	1500	1800	150	500	1000	1500	1800			
[Nm]	[kW]	[1/min]	[Nm]	[-]	[:1]											[kg]	[N]	[N]		
2.4	0.37	60	41	1.3	25	IE4	BS03-../S4E06LA4	6	20	40	60	72	41	41	41	41	41	6.9	1950	-
2.4	0.37	45	48	1.1	33	IE4	BS03-../S4E06LA4	4.5	15	30	45	54	48	48	48	48	48	6.9	1950	-
2.4	0.37	45	48	1.1	33	IE1	BS03-../SSE06MA4	4.5	15	30	45	54	36	40	44	48	48	6.9	1950	-
2.4	0.37	38	59	0.92	39	IE4	BS03-../S4E06LA4	3.8	12.5	25.5	38	46	59	59	59	59	59	6.9	1950	-
2.4	0.37	38	59	0.92	39	IE1	BS03-../SSE06MA4	3.8	12.5	25.5	38	46	44.5	49.5	54	59	59	6.9	1950	-
2.4	0.37	240	11.4	2.3	6.13	IE4	BS04-../S4E06LA4	24	81	163	240	290	11.4	11.4	11.4	11.4	11.4	7.3	1300	-
2.4	0.37	240	11.4	2.3	6.13	IE1	BS04-../SSE06MA4	24	81	163	240	290	8.6	9.5	10.5	11.4	11.4	7.3	1300	-
2.4	0.37	167	16.7	1.8	8.93	IE1	BS04-../SSE06MA4	16.5	55	111	167	200	12.5	13.9	15.3	16.7	16.7	7.3	1500	-
2.4	0.37	167	16.7	1.8	8.93	IE4	BS04-../S4E06LA4	16.5	55	111	167	200	16.7	16.7	16.7	16.7	16.7	7.3	1500	-
2.4	0.37	139	20	1.6	10.73	IE1	BS04-../SSE06MA4	13.5	46.5	93	139	167	15	16.7	18.4	20	20	7.3	1600	-
2.4	0.37	139	20	1.6	10.73	IE4	BS04-../S4E06LA4	13.5	46.5	93	139	167	20	20	20	20	20	7.3	1600	-
2.4	0.37	114	24	1.4	13.09	IE1	BS04-../SSE06MA4	11	38	76	114	137	18.1	20	22	24	24	7.3	1760	-
2.4	0.37	114	24	1.4	13.09	IE4	BS04-../S4E06LA4	11	38	76	114	137	24	24	24	24	24	7.3	1760	-
2.4	0.37	91	30	1.2	16.31	IE4	BS04-../S4E06LA4	9.1	30.5	61	91	110	30	30	30	30	30	7.3	1970	-
2.4	0.37	91	30	1.2	16.31	IE1	BS04-../SSE06MA4	9.1	30.5	61	91	110	22.5	25	27.5	30	30	7.3	1970	-
2.4	0.37	83	30.5	1.1	18	IE4	BS04-../S4E06LA4	8.3	27.5	55	83	100	30.5	30.5	30.5	30.5	30.5	7.3	1950	-
2.4	0.37	83	30.5	1.1	18	IE1	BS04-../SSE06MA4	8.3	27.5	55	83	100	23	25.5	28	30.5	30.5	7.3	1950	-
2.4	0.37	71	38	0.97	20.96	IE4	BS04-../S4E06LA4	7.1	23.5	47.5	71	85	38	38	38	38	38	7.3	2100	-
2.4	0.37	71	38	0.97	20.96	IE1	BS04-../SSE06MA4	7.1	23.5	47.5	71	85	28.5	31.5	35	38	38	7.3	2100	-
2.4	0.37	57	44.5	0.85	26.21	IE4	BS04-../S4E06LA4	5.7	19	38	57	68	44.5	44.5	44.5	44.5	44.5	7.3	2250	-
2.4	0.37	57	44.5	0.85	26.21	IE1	BS04-../SSE06MA4	5.7	19	38	57	68	33	37	40.5	44.5	44.5	7.3	2250	-
2.4	0.37	106	27	2.5	14.07	IE4	BS06-../S4E06LA4	10.5	35.5	71	106	127	27	27	27	27	27	12	2200	-
2.4	0.37	106	27	2.5	14.07	IE1	BS06-../SSE06MA4	10.5	35.5	71	106	127	20.5	22.5	25	27	27	12	2200	-
2.4	0.37	90	31.5	2.3	16.56	IE4	BS06-../S4E06LA4	9	30	60	90	108	31.5	31.5	31.5	31.5	31.5	12	2400	-
2.4	0.37	90	31.5	2.3	16.56	IE1	BS06-../SSE06MA4	9	30	60	90	108	23.5	26	29	31.5	31.5	12	2400	-
2.4	0.37	75	38	2	19.82	IE4	BS06-../S4E06LA4	7.5	25	50	75	90	38	38	38	38	38	12	2500	-
2.4	0.37	75	38	2	19.82	IE1	BS06-../SSE06MA4	7.5	25	50	75	90	28.5	31.5	34.5	38	38	12	2500	-
2.4	0.37	61	46.5	1.7	24.25	IE1	BS06-../SSE06MA4	6.1	20.5	41	61	74	34.5	38.5	42.5	46.5	46.5	12	2600	-
2.4	0.37	61	46.5	1.7	24.25	IE4	BS06-../S4E06LA4	6.1	20.5	41	61	74	46.5	46.5	46.5	46.5	46.5	12	2600	-
2.4	0.37	57	45.5	1.7	26.21	IE4	BS06-../S4E06LA4	5.7	19	38	57	68	45.5	45.5	45.5	45.5	45.5	12	3000	-
2.4	0.37	57	45.5	1.7	26.21	IE1	BS06-../SSE06MA4	5.7	19	38	57	68	34	38	42	45.5	45.5	12	3000	-
2.4	0.37	47.5	55	1.4	31.5	IE1	BS06-../SSE06MA4	4.7	15.5	31.5	47.5	57	41	45.5	50	55	55	12	3200	-
2.4	0.37	47.5	55	1.4	31.5	IE4	BS06-../S4E06LA4	4.7	15.5	31.5	47.5	57	55	55	55	55	55	12	3200	-
2.4	0.37	36	71	1.2	41.29	IE4	BS06-../S4E06LA4	3.6	12	24	36	43.5	71	71	71	71	71	12	3500	-
2.4	0.37	36	71	1.2	41.29	IE1	BS06-../SSE06MA4	3.6	12	24	36	43.5	53	59	65	71	71	12	3500	-
2.4	0.37	30.5	83	1	48.6	IE1	BS06-../SSE06MA4	3	10	20.5	30.5	37	62	69	76	83	83	12	3500	-
2.4	0.37	30.5	83	1	48.6	IE4	BS06-../S4E06LA4	3	10	20.5	30.5	37	83	83	83	83	83	12	3500	-
2.4	0.37	25.5	99	0.92	58.15	IE4	BS06-../S4E06LA4	2.5	8.5	17	25.5	30.5	99	99	99	99	99	12	3500	-
2.4	0.37	25.5	99	0.92	58.15	IE1	BS06-../SSE06MA4	2.5	8.5	17	25.5	30.5	74	82	90	99	99	12	3500	-
2.4	0.37	69	41	3	21.61	IE4	BS10-../S4E06LA4	6.9	23	46	69	83	41	41	41	41	41	23	3000	-
2.4	0.37	69	41	3	21.61	IE1	BS10-../SSE06MA4	6.9	23	46	69	83	31	34.5	38	41	41	23	3000	-
2.4	0.37	56	49	2.6	26.42	IE4	BS10-../S4E06LA4	5.6	18.5	37.5	56	68	49	49	49	49	49	23	3250	-
2.4	0.37	56	49	2.6	26.42	IE1	BS10-../SSE06MA4	5.6	18.5	37.5	56	68	37	41	45	49	49	23	3250	-
2.4	0.37	44.5	61	2.2	33.55	IE4	BS10-../S4E06LA4	4.4	14.5	29.5	44.5	53	61	61	61	61	61	23	3550	-
2.4	0.37	44.5	61	2.2	33.55	IE1	BS10-../SSE06MA4	4.4	14.5	29.5	44.5	53	45.5	50	56	61	61	23	3550	-
2.4	0.37	37.5	71	1.9	39.96	IE4	BS10-../S4E06LA4	3.7	12.5	25	37.5	45	71	71	71	71	71	23	3800	-
2.4	0.37	37.5	71	1.9	39.96	IE1	BS10-../SSE06MA4	3.7	12.5	25	37.5	45	53	59	65	71	71	23	3800	-
2.4	0.37	31.5	85	1.7	47.59	IE4	BS10-../S4E06LA4	3.1	10.5	21	31.5	37.5	85	85	85	85	85	23	4050	-
2.4	0.37	31.5	85	1.7	47.59	IE1	BS10-../SSE06MA4	3.1	10.5	21	31.5	37.5	64	71	78	85	85	23	4050	-
2.4	0.37	26	101	1.5	57.12	IE4	BS10-../S4E06LA4	2.6	8.7	17.5	26	31.5	101	101	101	101	101	23	4350	-
2.4	0.37	26	101	1.5	57.12	IE1	BS10-../SSE06MA4	2.6	8.7	17.5	26	31.5	76	84	92	101	101	23	4350	-
2.4	0.37	24.5	97	1.5	60.74	IE4	BS10-../S4E06LA4	2.4	8.2	16	24.5	29.5	97	97	97	97	97	23	4550	-
2.4	0.37	24.5	97	1.5	60.74	IE1	BS10-../SSE06MA4	2.4	8.2	16	24.5	29.5	73	81	89	97	97	23	4550	-
2.4	0.37	20.5	127	1.3	71.96	IE1	BS10-../SSE06MA4	2	6.9	13.5	20.5	25	95	106	117	127	127	23	5000	-
2.4	0.37	20.5	127	1.3	71.96	IE4	BS10-../S4E06LA4	2	6.9	13.5	20.5	25	127	127	127	127	127	23	5000	-
2.4	0.37	17.5	149	1	84.36	IE4	BS10-../S4E06LA4	1.7	5.9	11.5	17.5	21	149	149	149					

BS-series worm-geared motors

Selection - worm-geared motors - $n_1 = 1500 \frac{1}{\text{min}}$

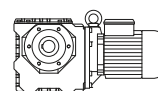
MN = 2.4 Nm (PN = 0.37 kW)



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

9

MN = 2.6 Nm (PN = 0.4 kW)

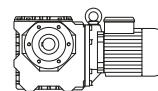


M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min]					Torque range M ₂ [Nm]					m	F _{RN}	F _{RV}
								at motor speed n ₁ [1/min]					at motor speed n ₁ [1/min]							
								150	500	1000	1500	1800	150	500	1000	1500	1800			
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]											[kg]	[N]	[N]		
2.6	0.4	325	10.5	1.4	4.6	IE4	BS02-../S4E06LA4	32.5	108	215	325	390	10.1	10.5	10.5	10.5	10.5	6.8	1000	-
2.6	0.4	275	12.3	1.6	5.4	IE4	BS02-../S4E06LA4	27.5	92	185	275	330	11.8	12.3	12.3	12.3	12.3	6.8	1000	-
2.6	0.4	220	15	1.7	6.75	IE4	BS02-../S4E06LA4	22	74	148	220	265	14.5	15	15	15	15	6.8	1000	-
2.6	0.4	181	18	1.4	8.25	IE4	BS02-../S4E06LA4	18	60	121	181	215	17.3	18	18	18	18	6.8	1100	-
2.6	0.4	140	22.5	1.1	10.67	IE4	BS02-../S4E06LA4	14	46.5	93	140	168	21.5	22.5	22.5	22.5	22.5	6.8	1250	-
2.6	0.4	111	27	0.91	13.5	IE4	BS02-../S4E06LA4	11	37	74	111	133	26	27	27	27	27	6.8	1250	-
2.6	0.4	111	27	2	13.5	IE4	BS03-../S4E06LA4	11	37	74	111	133	26	27	27	27	27	6.9	1600	-
2.6	0.4	78	37.5	1.5	19	IE4	BS03-../S4E06LA4	7.8	26	52	78	94	36	37.5	37.5	37.5	37.5	6.9	1950	-
2.6	0.4	60	44.5	1.2	25	IE4	BS03-../S4E06LA4	6	20	40	60	72	43	44.5	44.5	44.5	44.5	6.9	1950	-
2.6	0.4	45	52	1.1	33	IE4	BS03-../S4E06LA4	4.5	15	30	45	54	50	52	52	52	52	6.9	1950	-
2.6	0.4	38	64	0.85	39	IE4	BS03-../S4E06LA4	3.8	12.5	25.5	38	46	62	64	64	64	64	6.9	1950	-
2.6	0.4	240	12.4	2.1	6.13	IE4	BS04-../S4E06LA4	24	81	163	240	290	11.9	12.4	12.4	12.4	12.4	7.3	1300	-
2.6	0.4	167	18.1	1.7	8.93	IE4	BS04-../S4E06LA4	16.5	55	111	167	200	17.4	18.1	18.1	18.1	18.1	7.3	1500	-
2.6	0.4	139	21.5	1.5	10.73	IE4	BS04-../S4E06LA4	13.5	46.5	93	139	167	20.5	21.5	21.5	21.5	21.5	7.3	1600	-
2.6	0.4	114	26	1.3	13.09	IE4	BS04-../S4E06LA4	11	38	76	114	137	25	26	26	26	26	7.3	1760	-
2.6	0.4	91	32.5	1.1	16.31	IE4	BS04-../S4E06LA4	9.1	30.5	61	91	110	31	32.5	32.5	32.5	32.5	7.3	1970	-
2.6	0.4	83	33	1	18	IE4	BS04-../S4E06LA4	8.3	27.5	55	83	100	31.5	33	33	33	33	7.3	1950	-
2.6	0.4	71	41	0.89	20.96	IE4	BS04-../S4E06LA4	7.1	23.5	47.5	71	85	39.5	41	41	41	41	7.3	2100	-
2.6	0.4	139	22.5	2.9	10.73	IE4	BS06-../S4E06LA4	13.5	46.5	93	139	167	21.5	22.5	22.5	22.5	22.5	12	1850	-
2.6	0.4	106	29.5	2.3	14.07	IE4	BS06-../S4E06LA4	10.5	35.5	71	106	127	28	29.5	2.5	29.5	29.5	12	2200	-
2.6	0.4	90	34	2.1	16.56	IE4	BS06-../S4E06LA4	9	30	60	90	108	33	34	34	34	34	12	2400	-
2.6	0.4	75	41	1.8	19.82	IE4	BS06-../S4E06LA4	7.5	25	50	75	90	39.5	41	41	41	41	12	2500	-
2.6	0.4	61	50	1.5	24.25	IE4	BS06-../S4E06LA4	6.1	20.5	41	61	74	48.5	50	50	50	50	12	2600	-
2.6	0.4	57	49.5	1.5	26.21	IE4	BS06-../S4E06LA4	5.7	19	38	57	68	47.5	49.5	49.5	49.5	49.5	12	3000	-
2.6	0.4	47.5	59	1.3	31.5	IF4	BS06-../S4E06LA4	4.7	15.5	31.5	47.5	57	57	59	59	59	59	12	3200	-

BS-series worm-geared motors

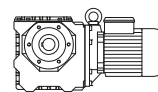
Selection - worm-geared motors - $n_1 = 1500 \frac{1}{\text{min}}$

MN = 2.6 Nm (PN = 0.4 kW)



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

MN = 3.5 Nm (PN = 0.55 kW)

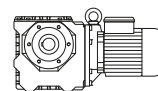


M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min] at motor speed n ₁ [1/min]					Torque range M ₂ [Nm] at motor speed n ₁ [1/min]					m	F _{RN}	F _{RV}
[Nm]	[kW]	[1/min]	[Nm]	[-]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
3.5	0.55	325	14.1	1.1	4.6	IE1	BS02-../SSE06LA4	32.5	108	215	325	390	10.1	11.7	14.1	14.1	14.1	6.8	1000	-
3.5	0.55	275	16.6	1.2	5.4	IE1	BS02-../SSE06LA4	27.5	92	185	275	330	11.8	13.7	16.6	16.6	16.6	6.8	1000	-
3.5	0.55	220	20	1.2	6.75	IE1	BS02-../SSE06LA4	22	74	148	220	265	14.5	16.8	20	20	20	6.8	1000	-
3.5	0.55	181	24	1	8.25	IE1	BS02-../SSE06LA4	18	60	121	181	215	17.3	20	24	24	24	6.8	1100	-
3.5	0.55	140	30.5	0.82	10.67	IE1	BS02-../SSE06LA4	14	46.5	93	140	168	21.5	25	30.5	30.5	30.5	6.8	1250	-
3.5	0.55	111	36.5	1.5	13.5	IE1	BS03-../SSE06LA4	11	37	74	111	133	26	30.5	36.5	36.5	36.5	6.9	1600	-
3.5	0.55	78	50	1.1	19	IE1	BS03-../SSE06LA4	7.8	26	52	78	94	36	41.5	50	50	50	6.9	1950	-
3.5	0.55	60	60	0.91	25	IE1	BS03-../SSE06LA4	6	20	40	60	72	43	50	60	60	60	6.9	1950	-
3.5	0.55	240	16.7	1.6	6.13	IE1	BS04-../SSE06LA4	24	81	163	240	290	11.9	13.8	16.7	16.7	16.7	7.3	1300	-
3.5	0.55	167	24	1.2	8.93	IE1	BS04-../SSE06LA4	16.5	55	111	167	200	17.4	20	24	24	24	7.3	1500	-
3.5	0.55	139	29	1.1	10.73	IE1	BS04-../SSE06LA4	13.5	46.5	93	139	167	20.5	24	29	29	29	7.3	1600	-
3.5	0.55	114	35	0.94	13.09	IE1	BS04-../SSE06LA4	11	38	76	114	137	25	29	35	35	35	7.3	1760	-
3.5	0.55	91	43.5	0.8	16.31	IE1	BS04-../SSE06LA4	9.1	30.5	61	91	110	31	36	43.5	43.5	43.5	7.3	1970	-
3.5	0.55	167	25	2.4	8.93	IE1	BS06-../SSE06LA4	16.5	55	111	167	200	18	20.5	25	25	25	12	1710	-
3.5	0.55	139	30	2.1	10.73	IE1	BS06-../SSE06LA4	13.5	46.5	93	139	167	21.5	25	30	30	30	12	1850	-
3.5	0.55	106	39.5	1.7	14.07	IE1	BS06-../SSE06LA4	10.5	35.5	71	106	127	28	33	39.5	39.5	39.5	12	2200	-
3.5	0.55	90	46	1.6	16.56	IE1	BS06-../SSE06LA4	9	30	60	90	108	33	38	46	46	46	12	2400	-
3.5	0.55	75	55	1.4	19.82	IE1	BS06-../SSE06LA4	7.5	25	50	75	90	39.5	45.5	55	55	55	12	2500	-
3.5	0.55	61	67	1.1	24.25	IE1	BS06-../SSE06LA4	6.1	20.5	41	61	74	48.5	56	67	67	67	12	2600	-
3.5	0.55	57	66	1.1	26.21	IE1	BS06-../SSE06LA4	5.7	19	38	57	68	47.5	55	66	66	66	12	3000	-
3.5	0.55	47.5	80	0.99	31.5	IE1	BS06-../SSE06LA4	4.7	15.5	31.5	47.5	57	57	66	80	80	80	12	3200	-
3.5	0.55	36	104	0.83	41.29	IE1	BS06-../SSE06LA4	3.6	12	24	36	43.5	74	86	104	104	104	12	3500	-

BS-series worm-geared motors

Selection - worm-geared motors - $n_1 = 1500 \frac{1}{\text{min}}$

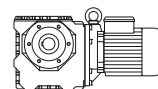
MN = 3.5 Nm (PN = 0.55 kW)



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

9

MN = 5 Nm (PN = 0.78 kW)

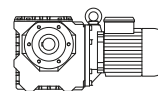


M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min] at motor speed n ₁ [1/min]					Torque range M ₂ [Nm] at motor speed n ₁ [1/min]					m	F _{RN}	F _{RV}
[Nm]	[kW]	[1/min]	[Nm]	[-]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
5	0.78	325	20	2	4.6	IE4	BS03-../S4E08MA4	32.5	108	215	325	390	20	20	20	20	20	10	1070	-
5	0.78	250	26	1.7	6	IE4	BS03-../S4E08MA4	25	83	166	250	300	26	26	26	26	26	10	1170	-
5	0.78	187	34	1.4	8	IE4	BS03-../S4E08MA4	18.5	62	125	187	225	34	34	34	34	34	10	1320	-
5	0.78	150	42	1.2	10	IE4	BS03-../S4E08MA4	15	50	100	150	180	42	42	42	42	42	10	1450	-
5	0.78	111	52	1	13.5	IE4	BS03-../S4E08MA4	11	37	74	111	133	52	52	52	52	52	10	1600	-
5	0.78	220	27	2.1	6.67	IE4	BS06-../S4E08MA4	22	74	149	220	265	27	27	27	27	27	16	1550	-
5	0.78	167	36	1.7	8.93	IE4	BS06-../S4E08MA4	16.5	55	111	167	200	36	36	36	36	36	16	1710	-
5	0.78	139	43	1.5	10.73	IE4	BS06-../S4E08MA4	13.5	46.5	93	139	167	43	43	43	43	43	16	1850	-
5	0.78	106	56	1.2	14.07	IE4	BS06-../S4E08MA4	10.5	35.5	71	106	127	56	56	56	56	56	16	2200	-
5	0.78	90	66	1.1	16.56	IE4	BS06-../S4E08MA4	9	30	60	90	108	66	66	66	66	66	16	2400	-
5	0.78	76	71	0.98	19.58	IE4	BS06-../S4E08MA4	7.6	25.5	51	76	91	71	71	71	71	71	16	2700	-
5	0.78	75	79	0.95	19.82	IE4	BS06-../S4E08MA4	7.5	25	50	75	90	79	79	79	79	79	16	2500	-
5	0.78	57	95	0.8	26.21	IE4	BS06-../S4E08MA4	5.7	19	38	57	68	95	95	95	95	95	16	3000	-
5	0.78	120	49.5	2.2	12.49	IE4	BS10-../S4E08MA4	12	40	80	120	144	49.5	49.5	49.5	49.5	49.5	27	2400	-
5	0.78	88	67	1.8	16.92	IE4	BS10-../S4E08MA4	8.8	29.5	59	88	106	67	67	67	67	67	27	2700	-
5	0.78	69	86	1.4	21.61	IE4	BS10-../S4E08MA4	6.9	23	46	69	83	86	86	86	86	86	27	3000	-
5	0.78	66	77	1.5	22.6	IE4	BS10-../S4E08MA4	6.6	22	44	66	79	77	77	77	77	77	27	3200	-
5	0.78	56	103	1.3	26.42	IE4	BS10-../S4E08MA4	5.6	18.5	37.5	56	68	103	103	103	103	103	27	3250	-
5	0.78	48.5	105	1.2	30.63	IE4	BS10-../S4E08MA4	4.8	16	32.5	48.5	58	105	105	105	105	105	27	3550	-
5	0.78	44.5	127	1.1	33.55	IE4	BS10-../S4E08MA4	4.4	14.5	29.5	44.5	53	127	127	127	127	127	27	3550	-
5	0.78	37.5	149	0.93	39.96	IE4	BS10-../S4E08MA4	3.7	12.5	25	37.5	45	149	149	149	149	149	27	3800	-
5	0.78	31.5	178	0.81	47.59	IE4	BS10-../S4E08MA4	3.1	10.5	21	31.5	37.5	178	178	178	178	178	27	4050	-
5	0.78	67	90	2.6	22.23	IE4	BS20-../S4E08MA4	6.7	22	44.5	67	80	90	90	90	90	90	37	4100	-
5	0.78	64	83	2.7	23.13	IE4	BS20-../S4E08MA4	6.4	21.5	43	64	77	83	83	83	83	83	37	4300	-
5	0.78	53	108	2.3	27.86	IE4	BS20-../S4E08MA4	5.3	17.5	35.5	53	64	108	108	108	108	108	37	4450	-
5	0.78	48.5	110	2.3	30.63	IE4	BS20-../S4E08MA4	4.8	16	32.5	48.5	58	110	110	110	110	110	37	4750	-
5	0.78	45.5	126	2.1	32.87	IE4	BS20-../S4E08MA4	4.5	15	30	45.5	54	126	126	126	126	126	37	4750	-
5	0.78	37	144	1.8	40.25	IF4	BS20-../S4E08MA4	3.7	12	24.5	37	44.5	144	144	144	144	144	37	5300	-

BS-series worm-geared motors

Selection - worm-geared motors - $n_1 = 1500 \frac{1}{\text{min}}$

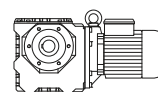
MN = 5 Nm (PN = 0.78 kW)



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

9

MN = 7 Nm (PN = 1.1 kW)

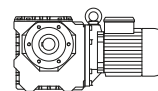


M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min] at motor speed n ₁ [1/min]					Torque range M ₂ [Nm] at motor speed n ₁ [1/min]					m	F _{RN}	F _{RV}
[Nm]	[kW]	[1/min]	[Nm]	[-]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
7	1.1	325	28	1.4	4.6	IE3	BS03-../SPE08LA4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

BS-series worm-geared motors

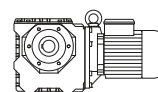
Selection - worm-geared motors - $n_1 = 1500 \frac{1}{\text{min}}$

MN = 7 Nm (PN = 1.1 kW)



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

MN = 10 Nm (PN = 1.55 kW)

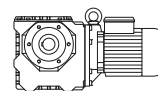


M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min] at motor speed n ₁ [1/min]					Torque range M ₂ [Nm] at motor speed n ₁ [1/min]					m	F _{RN}	F _{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
10	1.55	325	40	0.99	4.6	IE1	BS03-../SSE08LA4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

BS-series worm-geared motors

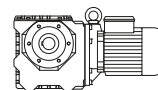
Selection - worm-geared motors - $n_1 = 1500 \frac{1}{\text{min}}$

MN = 10 Nm (PN = 1.55 kW)



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

MN = 14 Nm (PN = 2.2 kW)

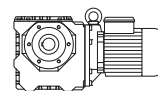


M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min]					Torque range M ₂ [Nm]					m	F _{RN}	F _{RV}
								at motor speed n ₁ [1/min]					at motor speed n ₁ [1/min]							
								150	500	1000	1500	1800	150	500	1000	1500	1800			
[Nm]	[kW]	[1/min]	[Nm]	[-]	[:1]											[kg]	[N]	[N]		
14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

BS-series worm-geared motors

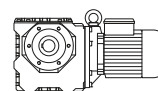
Selection - worm-geared motors - $n_1 = 1500 \frac{1}{\text{min}}$

MN = 14 Nm (PN = 2.2 kW)



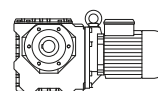
M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min] at motor speed n ₁ [1/min]					Torque range M ₂ [Nm] at motor speed n ₁ [1/min]					m	F _{RN}	F _{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
14	2.2	24.5	600	1.4	60.38	IE2	BS40-../SHE09SA4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

MN = 19 Nm (PN = 3 kW)



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

MN = 20 Nm (PN = 3.1 kW)

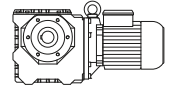


M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min] at motor speed n ₁ [1/min]					Torque range M ₂ [Nm] at motor speed n ₁ [1/min]					m	F _{RN}	F _{RV}
[Nm]	[kW]	[1/min]	[Nm]	[-]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
20	3.1	117	205	0.97	12.77	IE3	BS20-../SPE09XA4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

BS-series worm-geared motors

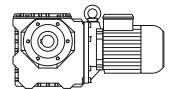
Selection - worm-geared motors - $n_1 = 1500 \frac{1}{\min}$

MN = 25.5 Nm (PN = 4 kW)



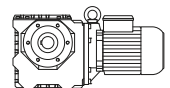
M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min]					Torque range M ₂ [Nm]					m	F _{RN}	F _{RV}
								at motor speed n ₁ [1/min]					at motor speed n ₁ [1/min]							
								150	500	1000	1500	1800	150	500	1000	1500	1800			
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]											[kg]	[N]	[N]		
25.5	4	112	280	1.2	13.29	IE3	BS30-../SPE11SA6	11	37.5	75	112	135	205	240	280	280	280	77	3600	-
25.5	4	88	355	1	16.92	IE3	BS30-../SPE11SA6	8.8	29.5	59	88	106	265	305	355	355	355	77	3950	-
25.5	4	71	440	0.86	20.94	IE3	BS30-../SPE11SA6	7.1	23.5	47.5	71	85	330	380	440	440	440	77	4300	-
25.5	4	62	460	0.8	24.06	IE3	BS30-../SPE11SA6	6.2	20.5	41.5	62	74	340	395	460	460	460	77	4600	-
25.5	4	115	280	2.2	13.03	IE3	BS40-../SPE11SA6	11.5	38	76	115	138	210	240	280	280	280	95	5800	-
25.5	4	88	365	1.8	16.92	IE3	BS40-../SPE11SA6	8.8	29.5	59	88	106	270	315	365	365	365	95	6400	-
25.5	4	71	440	1.6	21.06	IE3	BS40-../SPE11SA6	7.1	23.5	47	71	85	325	375	440	440	440	95	6900	-
25.5	4	63	445	1.5	23.59	IE3	BS40-../SPE11SA6	6.3	21	42	63	76	330	380	445	445	445	95	7900	-
25.5	4	57	540	1.4	26.18	IE3	BS40-../SPE11SA6	5.7	19	38	57	68	405	470	540	540	540	95	7500	-
25.5	4	48.5	570	1.3	30.63	IE3	BS40-../SPE11SA6	4.8	16	32.5	48.5	58	430	495	570	570	570	95	8700	-
25.5	4	44.5	680	1.1	33.35	IE3	BS40-../SPE11SA6	4.4	14.5	29.5	44.5	53	500	580	680	680	680	95	8300	-
25.5	4	39	700	1.1	38.13	IE3	BS40-../SPE11SA6	3.9	13	26	39	47	520	610	700	700	700	95	9400	-
25.5	4	37	810	0.98	40.37	IE3	BS40-../SPE11SA6	3.7	12	24.5	37	44.5	600	700	810	810	810	95	9000	-
25.5	4	31	940	0.88	47.69	IE3	BS40-../SPE11SA6	3.1	10	20.5	31	37.5	700	810	940	940	940	95	9600	-

MN = 26.5 Nm (PN = 4 kW)



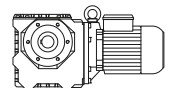
M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min]					Torque range M ₂ [Nm]					m	F _{RN}	F _{RV}
								at motor speed n ₁ [1/min]					at motor speed n ₁ [1/min]							
								150	500	1000	1500	1800	150	500	1000	1500	1800			
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]											[kg]	[N]	[N]		
26.5	4	112	290	1.1	13.29	IE5	BS30-../S5E11MA6	11	37.5	75	112	135	290	290	290	290	290	77	3600	-
26.5	4	88	370	0.97	16.92	IE5	BS30-../S5E11MA6	8.8	29.5	59	88	106	370	370	370	370	370	77	3950	-
26.5	4	71	460	0.83	20.94	IE5	BS30-../S5E11MA6	7.1	23.5	47.5	71	85	460	460	460	460	460	77	4300	-
26.5	4	115	290	2.1	13.03	IE5	BS40-../S5E11MA6	11.5	38	76	115	138	290	290	290	290	290	95	5800	-
26.5	4	88	380	1.8	16.92	IE5	BS40-../S5E11MA6	8.8	29.5	59	88	106	380	380	380	380	380	95	6400	-
26.5	4	71	455	1.6	21.06	IE5	BS40-../S5E11MA6	7.1	23.5	47	71	85	455	455	455	455	455	95	6900	-
26.5	4	63	460	1.5	23.59	IE5	BS40-../S5E11MA6	6.3	21	42	63	76	460	460	460	460	460	95	7900	-
26.5	4	57	560	1.3	26.18	IE5	BS40-../S5E11MA6	5.7	19	38	57	68	560	560	560	560	560	95	7500	-
26.5	4	48.5	600	1.2	30.63	IE5	BS40-../S5E11MA6	4.8	16	32.5	48.5	58	600	600	600	600	600	95	8700	-
26.5	4	44.5	700	1.1	33.35	IE5	BS40-../S5E11MA6	4.4	14.5	29.5	44.5	53	700	700	700	700	700	95	8300	-
26.5	4	39	730	1.1	38.13	IE5	BS40-../S5E11MA6	3.9	13	26	39	47	730	730	730	730	730	95	9400	-
26.5	4	37	840	0.95	40.37	IE5	BS40-../S5E11MA6	3.7	12	24.5	37	44.5	840	840	840	840	840	95	9000	-
26.5	4	31	980	0.84	47.69	IE5	BS40-../S5E11MA6	3.1	10	20.5	31	37.5	980	980	980	980	980	95	9600	-

MN = 35 Nm (PN = 5.5 kW)



M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min] at motor speed n ₁ [1/min]					Torque range M ₂ [Nm] at motor speed n ₁ [1/min]					m	F _{RN}	F _{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
35	5.5	112	385	0.86	13.29	IE5	BS30-../S5E11LA6	11	37.5	75	112	135	385	385	385	385	385	89	3600	-
35	5.5	112	385	0.86	13.29	IE4	BS30-../S4E11MA6	11	37.5	75	112	135	290	330	385	385	385	77	3600	-
35	5.5	115	385	1.6	13.03	IE4	BS40-../S4E11MA6	11.5	38	76	115	138	290	330	385	385	385	95	5800	-
35	5.5	115	385	1.6	13.03	IE5	BS40-../S5E11LA6	11.5	38	76	115	138	385	385	385	385	385	107	5800	-
35	5.5	88	500	1.3	16.92	IE5	BS40-../S5E11LA6	8.8	29.5	59	88	106	500	500	500	500	500	107	6400	-
35	5.5	88	500	1.3	16.92	IE4	BS40-../S4E11MA6	8.8	29.5	59	88	106	380	430	500	500	500	95	6400	-
35	5.5	71	600	1.2	21.06	IE4	BS40-../S4E11MA6	7.1	23.5	47	71	85	455	510	600	600	600	95	6900	-
35	5.5	71	600	1.2	21.06	IE5	BS40-../S5E11LA6	7.1	23.5	47	71	85	600	600	600	600	600	107	6900	-
35	5.5	63	610	1.1	23.59	IE4	BS40-../S4E11MA6	6.3	21	42	63	76	460	520	610	610	610	95	7900	-
35	5.5	63	610	1.1	23.59	IE5	BS40-../S5E11LA6	6.3	21	42	63	76	610	610	610	610	610	107	7900	-
35	5.5	57	750	0.98	26.18	IE4	BS40-../S4E11MA6	5.7	19	38	57	68	560	640	750	750	750	95	7500	-
35	5.5	57	750	0.98	26.18	IE5	BS40-../S5E11LA6	5.7	19	38	57	68	750	750	750	750	750	107	7500	-
35	5.5	48.5	790	0.95	30.63	IE4	BS40-../S4E11MA6	4.8	16	32.5	48.5	58	600	670	790	790	790	95	8700	-
35	5.5	48.5	790	0.95	30.63	IE5	BS40-../S5E11LA6	4.8	16	32.5	48.5	58	790	790	790	790	790	107	8700	-
35	5.5	44.5	930	0.84	33.35	IE5	BS40-../S5E11LA6	4.4	14.5	29.5	44.5	53	930	930	930	930	930	107	8300	-
35	5.5	44.5	930	0.84	33.35	IE4	BS40-../S4E11MA6	4.4	14.5	29.5	44.5	53	700	800	930	930	930	95	8300	-
35	5.5	39	970	0.8	38.13	IE4	BS40-../S4E11MA6	3.9	13	26	39	47	730	830	970	970	970	95	9400	-
35	5.5	39	970	0.8	38.13	IE5	BS40-../S5E11LA6	3.9	13	26	39	47	970	970	970	970	970	107	9400	-

MN = 48 Nm (PN = 7.5 kW)

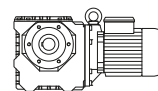


M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min] at motor speed n ₁ [1/min]					Torque range M ₂ [Nm] at motor speed n ₁ [1/min]					m	F _{RN}	F _{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	1500	1800	150	500	1000	1500	1800	[kg]	[N]	[N]
48	7.5	115	530	1.2	13.03	IE3	BS40-../SPE11LA6	11.5	38	76	115	138	385	440	530	530	530	107	5800	-
48	7.5	88	690	0.97	16.92	IE3	BS40-../SPE11LA6	8.8	29.5	59	88	106	500	570	690	690	690	107	6400	-

BS-series worm-geared motors

Selection - worm-geared motors - $n_1 = 1500 \frac{1}{\text{min}}$

MN = 48 Nm (PN = 7.5 kW)

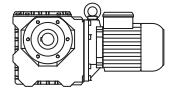


M_N	P_N	n_2	M_2	f_B	i	IE- Classe	Type	Speed range n_2 [1/min] at motor speed n_1 [1/min]					Torque range M_2 [Nm] at motor speed n_1 [1/min]					m	F_{RN}	F_{RV}
								150	500	1000	1500	1800	150	500	1000	1500	1800			
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]													[kg]	[N]	[N]
48	7.5	71	820	0.86	21.06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

BS-series worm-geared motors

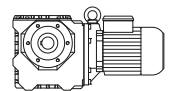
Selection - worm-geared motors - $n_1 = 3000 \frac{1}{\text{min}}$

MN = 0.65 Nm (PN = 0.2 kW)



M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min] at motor speed n ₁ [1/min]					Torque range M ₂ [Nm] at motor speed n ₁ [1/min]					m	F _{RN}	F _{RV}
[Nm]	[kW]	[1/min]	[Nm]	[-]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
0.65	0.2	166	8.6	2.9	18	IE5	BS02-../S5E04SA4-1	8.3	27.5	55	166	200	8.6	8.6	8.6	8.6	8.6	3.5	1250	-
0.65	0.2	136	10	2.5	22	IE5	BS02-../S5E04SA4-1	6.8	22.5	45	136	163	10	10	10	10	10	3.5	1250	-
0.65	0.2	111	11	2.3	27	IE5	BS02-../S5E04SA4-1	5.5	18.5	37	111	133	11	11	11	11	11	3.5	1250	-
0.65	0.2	90	12.8	1.9	33	IE5	BS02-../S5E04SA4-1	4.5	15	30	90	109	12.8	12.8	12.8	12.8	12.8	3.5	1250	-
0.65	0.2	69	17.3	1.4	43	IE5	BS02-../S5E04SA4-1	3.4	11.5	23	69	83	17.3	17.3	17.3	17.3	17.3	3.5	1250	-
0.65	0.2	55	20	1.1	54	IE5	BS02-../S5E04SA4-1	2.7	9.2	18.5	55	66	20	20	20	20	20	3.5	1250	-
0.65	0.2	42.5	23	0.86	70	IE5	BS02-../S5E04SA4-1	2.1	7.1	14	42.5	51	23	23	23	23	23	3.5	1250	-
0.65	0.2	123	11.9	2.8	24.25	IE5	BS04-../S5E04SA4-1	6.1	20.5	41	123	148	11.9	11.9	11.9	11.9	11.9	3.9	2250	-
0.65	0.2	95	14.3	2.7	31.5	IE5	BS04-../S5E04SA4-1	4.7	15.5	31.5	95	114	14.3	14.3	14.3	14.3	14.3	3.9	2250	-
0.65	0.2	78	17.2	2.1	38.42	IE5	BS04-../S5E04SA4-1	3.9	13	26	78	93	17.2	17.2	17.2	17.2	17.2	3.9	2250	-
0.65	0.2	62	21	1.8	47.86	IE5	BS04-../S5E04SA4-1	3.1	10	20.5	62	75	21	21	21	21	21	3.9	2250	-
0.65	0.2	48.5	26.5	1.4	61.5	IE5	BS04-../S5E04SA4-1	2.4	8.1	16	48.5	58	26.5	26.5	26.5	26.5	26.5	3.9	2250	-
0.65	0.2	46.5	26	1.4	64.06	IE5	BS04-../S5E04SA4-1	2.3	7.8	15.5	46.5	56	26	26	26	26	26	3.9	2250	-
0.65	0.2	42	30.5	1.2	71.18	IE5	BS04-../S5E04SA4-1	2.1	7	14	42	50	30.5	30.5	30.5	30.5	30.5	3.9	2250	-
0.65	0.2	38.5	30.5	1.2	77	IE5	BS04-../S5E04SA4-1	1.9	6.4	12.5	38.5	46.5	30.5	30.5	30.5	30.5	30.5	3.9	2250	-
0.65	0.2	33	38	1	90	IE5	BS04-../S5E04SA4-1	1.6	5.5	11	33	40	38	38	38	38	38	3.9	2250	-
0.65	0.2	31.5	36	1.1	93.92	IE5	BS04-../S5E04SA4-1	1.5	5.3	10.5	31.5	38	36	36	36	36	36	3.9	2250	-
0.65	0.2	29	42.5	0.89	102.9	IE5	BS04-../S5E04SA4-1	1.4	4.8	9.7	29	34.5	42.5	42.5	42.5	42.5	42.5	3.9	2250	-
0.65	0.2	25.5	43	0.88	117	IE5	BS04-../S5E04SA4-1	1.2	4.2	8.5	25.5	30.5	43	43	43	43	43	3.9	2250	-
0.65	0.2	24	50	0.81	123	IE5	BS04-../S5E04SA4-1	1.2	4	8.1	24	29	50	50	50	50	50	3.9	2250	-
0.65	0.2	46.5	28	2.8	64.06	IE5	BS06-../S5E04SA4-1	2.3	7.8	15.5	46.5	56	28	28	28	28	28	8.4	3500	-
0.65	0.2	42	32.5	2.9	71.18	IE5	BS06-../S5E04SA4-1	2.1	7	14	42	50	32.5	32.5	32.5	32.5	32.5	8.4	3500	-
0.65	0.2	38.5	33.5	2.5	77	IE5	BS06-../S5E04SA4-1	1.9	6.4	12.5	38.5	46.5	33.5	33.5	33.5	33.5	33.5	8.4	3500	-
0.65	0.2	33	40.5	2.4	90	IE5	BS06-../S5E04SA4-1	1.6	5.5	11	33	40	40.5	40.5	40.5	40.5	40.5	8.4	3500	-
0.65	0.2	29	46	2.2	103.1	IE5	BS06-../S5E04SA4-1	1.4	4.8	9.6	29	34.5	46	46	46	46	46	8.4	3500	-
0.65	0.2	25	50	1.9	118.8	IE5	BS06-../S5E04SA4-1	1.2	4.2	8.4	25	30	50	50	50	50	50	8.4	3500	-
0.65	0.2	23	56	1.9	129	IE5	BS06-../S5E04SA4-1	1.1	3.8	7.7	23	27.5	56	56	56	56	56	8.4	3500	-
0.65	0.2	21	59	1.7	142.2	IE5	BS06-../S5E04SA4-1	1	3.5	7	21	25	59	59	59	59	59	8.4	3500	-
0.65	0.2	20	62	1.7	146.8	IE5	BS06-../S5E04SA4-1	1	3.4	6.8	20	24.5	62	62	62	62	62	8.4	3500	-
0.65	0.2	17.5	71	1.2	171	IE5	BS06-../S5E04SA4-1	0.85	2.9	5.8	17.5	21	71	71	71	71	71	8.4	3500	-
0.65	0.2	17	67	1.4	174	IE5	BS06-../S5E04SA4-1	0.85	2.8	5.7	17	20.5	67	67	67	67	67	8.4	3500	-
0.65	0.2	13.5	84	1.2	220	IE5	BS06-../S5E04SA4-1	0.65	2.2	4.5	13.5	16	84	84	84	84	84	8.4	3500	-
0.65	0.2	11.5	95	1	252	IE5	BS06-../S5E04SA4-1	0.55	1.9	3.9	11.5	14	95	95	95	95	95	8.4	3500	-
0.65	0.2	9.5	116	0.91	315.3	IE5	BS06-../S5E04SA4-1	0.47	1.5	3.1	9.5	11	116	116	116	116	116	8.4	3500	-
0.65	0.2	8.3	130	0.84	358.9	IE5	BS06-../S5E04SA4-1	0.41	1.3	2.7	8.3	10	130	130	130	130	130	8.4	3500	-
0.65	0.2	15	83	1.8	200	IE5	BS10Z-../S5E04SA4-1	0.75	2.5	5	15	18	83	83	83	83	83	21	6000	-
0.65	0.2	11.5	105	1.7	254	IE5	BS10Z-../S5E04SA4-1	0.55	1.9	3.9	11.5	14	105	105	105	105	105	21	6000	-
0.65	0.2	9.9	121	1.6	302.5	IE5	BS10Z-../S5E04SA4-1	0.49	1.6	3.3	9.9	11.5	121	121	121	121	121	21	6000	-
0.65	0.2	8.3	145	1.3	360.3	IE5	BS10Z-../S5E04SA4-1	0.41	1.3	2.7	8.3	9.9	145	145	145	145	145	21	6000	-
0.65	0.2	6.9	171	1.1	432.4	IE5	BS10Z-../S5E04SA4-1	0.34	1.1	2.3	6.9	8.3	171	171	171	171	171	21	6000	-
0.65	0.2	5.5	205	0.91	544.8	IE5	BS10Z-../S5E04SA4-1	0.27	0.9	1.8	5.5	6.6	205	205	205	205	205	21	6000	-
0.65	0.2	4.6	230	0.82	638.7	IE5	BS10Z-../S5E04SA4-1	0.23	0.75	1.5	4.6	5.6	230	230	230	230	230	21	6000	-
0.65	0.2	11.5	107	2.8	257.8	IE5	BS20Z-../S5E04SA4-1	0.55	1.9	3.8	11.5	13.5	107	107	107	107	107	32	8000	-
0.65	0.2	9.9	122	2.4	300.1	IE5	BS20Z-../S5E04SA4-1	0.49	1.6	3.3	9.9	11.5	122	122	122	122	122	32	8000	-
0.65	0.2	8.3	145	2.2	359.9	IE5	BS20Z-../S5E04SA4-1	0.41	1.3	2.7	8.3	10	145	145	145	145	145	32	8000	-
0.65	0.2	6.9	170	1.9	430.8	IE5	BS20Z-../S5E04SA4-1	0.34	1.1	2.3	6.9	8.3	170	170	170	170	170	32	8000	-
0.65	0.2	5.5	192	1.9	539.7	IE5	BS20Z-../S5E04SA4-1	0.27	0.9	1.8	5.5	6.6	192	192	192	192	192	32	8000	-
0.65	0.2	4.8	215	1.5	619.2	IE5	BS20Z-../S5E04SA4-1	0.24	0.8	1.6	4.8	5.8	215	215	215	215	215	32	8000	-
0.65	0.2	3.9	265	1.2	763.4	IE5	BS20Z-../S5E04SA4-1	0.19	0.65	1.3	3.9	4.7	265	265	265	265	265	32	8000	-
0.65	0.2	2.9	455	1.1	1022	IE5	BS30G06-../S5E04SA4-1	0.14	0.48	0.95	2.9	3.5	455	455	455	455	455	53	10000	-
0.65	0.2	2.5	520	0.93	1176	IE5	BS30G06-../S5E04SA4-1	0.12	0.42	0.85	2.5	3	520	520	520	520	520	53	10000	-

MN = 0.8 Nm (PN = 0.25 kW)

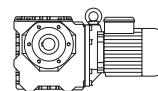


M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min] at motor speed n ₁ [1/min]					Torque range M ₂ [Nm] at motor speed n ₁ [1/min]					m	F _{RN}	F _{RV}
[Nm]	[kW]	[1/min]	[Nm]	[-]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
0.8	0.25	220	8.4	3	13.5	IE5	BS02-../S5E04SA4-1	11	37	74	220	265	8	8.4	8.4	8.4	8.4	3.5	1250	-
0.8	0.25	166	10.6	2.3	18	IE5	BS02-../S5E04SA4-1	8.3	27.5	55	166	200	10.1	10.6	10.6	10.6	10.6	3.5	1250	-
0.8	0.25	136	12.3	2	22	IE5	BS02-../S5E04SA4-1	6.8	22.5	45	136	163	11.7	12.3	12.3	12.3	12.3	3.5	1250	-
0.8	0.25	111	13.6	1.8	27	IE5	BS02-../S5E04SA4-1	5.5	18.5	37	111	133	12.9	13.6	13.6	13.6	13.6	3.5	1250	-
0.8	0.25	90	15.8	1.6	33	IE5	BS02-../S5E04SA4-1	4.5	15	30	90	109	15	15.8	15.8	15.8	15.8	3.5	1250	-
0.8	0.25	69	21	1.1	43	IE5	BS02-../S5E04SA4-1	3.4	11.5	23	69	83	20	21	21	21	21	3.5	1250	-
0.8	0.25	55	24.5	0.89	54	IE5	BS02-../S5E04SA4-1	2.7	9.2	18.5	55	66	23	24.5	24.5	24.5	24.5	3.5	1250	-
0.8	0.25	143	12.7	2.9	20.96	IE5	BS04-../S5E04SA4-1	7.1	23.5	47.5	143	171	12.1	12.7	12.7	12.7	12.7	3.9	2100	-
0.8	0.25	123	14.7	2.3	24.25	IE5	BS04-../S5E04SA4-1	6.1	20.5	41	123	148	14	14.7	14.7	14.7	14.7	3.9	2250	-
0.8	0.25	114	14.8	2.6	26.21	IE5	BS04-../S5E04SA4-1	5.7	19	38	114	137	14.1	14.8	14.8	14.8	14.8	3.9	2250	-
0.8	0.25	95	17.6	2.2	31.5	IE5	BS04-../S5E04SA4-1	4.7	15.5	31.5	95	114	16.7	17.6	17.6	17.6	17.6	3.9	2250	-
0.8	0.25	78	21	1.7	38.42	IE5	BS04-../S5E04SA4-1	3.9	13	26	78	93	20	21	21	21	21	3.9	2250	-
0.8	0.25	62	26	1.5	47.86	IE5	BS04-../S5E04SA4-1	3.1	10	20.5	62	75	24.5	26	26	26	26	3.9	2250	-
0.8	0.25	48.5	32.5	1.2	61.5	IE5	BS04-../S5E04SA4-1	2.4	8.1	16	48.5	58	31	32.5	32.5	32.5	32.5	3.9	2250	-
0.8	0.25	46.5	32	1.1	64.06	IF5	BS04-../S5E04SA4-1	2.3	7.8	15.5	46.5	56	30.5	32	32	32	32	3.9	2250	-

BS-series worm-geared motors

Selection - worm-geared motors - $n_1 = 3000 \frac{1}{\text{min}}$

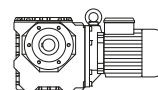
MN = 0.8 Nm (PN = 0.25 kW)



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

9

MN = 1 Nm (PN = 0.315 kW)

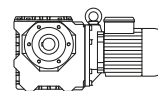


M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min] at motor speed n ₁ [1/min]					Torque range M ₂ [Nm] at motor speed n ₁ [1/min]					m	F _{RN}	F _{RV}
[Nm]	[kW]	[1/min]	[Nm]	[-]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
1	0.315	280	8.7	2.9	10.67	IE4	BS02-../S4E04SA4-1	14	46.5	93	280	335	6.6	7.4	8.7	8.7	8.7	3.5	1250	-
1	0.315	220	10.5	2.4	13.5	IE4	BS02-../S4E04SA4-1	11	37	74	220	265	8	8.9	10.5	10.5	10.5	3.5	1250	-
1	0.315	166	13.3	1.9	18	IE4	BS02-../S4E04SA4-1	8.3	27.5	55	166	200	10.1	11.3	13.3	13.3	13.3	3.5	1250	-
1	0.315	136	15.3	1.6	22	IE4	BS02-../S4E04SA4-1	6.8	22.5	45	136	163	11.7	13	15.3	15.3	15.3	3.5	1250	-
1	0.315	111	17	1.5	27	IE4	BS02-../S4E04SA4-1	5.5	18.5	37	111	133	12.9	14.4	17	17	17	3.5	1250	-
1	0.315	90	19.8	1.3	33	IE4	BS02-../S4E04SA4-1	4.5	15	30	90	109	15	16.8	19.8	19.8	19.8	3.5	1250	-
1	0.315	69	26.5	0.9	43	IE4	BS02-../S4E04SA4-1	3.4	11.5	23	69	83	20	22.5	26.5	26.5	26.5	3.5	1250	-
1	0.315	183	12.5	2.8	16.31	IE4	BS04-../S4E04SA4-1	9.1	30.5	61	183	220	9.5	10.6	12.5	12.5	12.5	3.9	1970	-
1	0.315	166	12.7	2.7	18	IE4	BS04-../S4E04SA4-1	8.3	27.5	55	166	200	9.7	10.8	12.7	12.7	12.7	3.9	1950	-
1	0.315	143	15.9	2.3	20.96	IE4	BS04-../S4E04SA4-1	7.1	23.5	47.5	143	171	12.1	13.5	15.9	15.9	15.9	3.9	2100	-
1	0.315	123	18.4	1.8	24.25	IE4	BS04-../S4E04SA4-1	6.1	20.5	41	123	148	14	15.6	18.4	18.4	18.4	3.9	2250	-
1	0.315	114	18.6	2	26.21	IE4	BS04-../S4E04SA4-1	5.7	19	38	114	137	14.1	15.8	18.6	18.6	18.6	3.9	2250	-
1	0.315	95	22	1.7	31.5	IE4	BS04-../S4E04SA4-1	4.7	15.5	31.5	95	114	16.7	18.7	22	22	22	3.9	2250	-
1	0.315	78	26.5	1.4	38.42	IE4	BS04-../S4E04SA4-1	3.9	13	26	78	93	20	22.5	26.5	26.5	26.5	3.9	2250	-
1	0.315	62	32.5	1.2	47.86	IE4	BS04-../S4E04SA4-1	3.1	10	20.5	62	75	24.5	27.5	32.5	32.5	32.5	3.9	2250	-
1	0.315	48.5	41	0.92	61.5	IE4	BS04-../S4E04SA4-1	2.4	8.1	16	48.5	58	31	35	41	41	41	3.9	2250	-
1	0.315	46.5	40	0.89	64.06	IE4	BS04-../S4E04SA4-1	2.3	7.8	15.5	46.5	56	30.5	34	40	40	40	3.9	2250	-
1	0.315	42	46.5	0.81	71.18	IE4	BS04-../S4E04SA4-1	2.1	7	14	42	50	35.5	39.5	46.5	46.5	46.5	3.9	2250	-
1	0.315	38.5	46.5	0.81	77	IE4	BS04-../S4E04SA4-1	1.9	6.4	12.5	38.5	46.5	35.5	39.5	46.5	46.5	46.5	3.9	2250	-
1	0.315	72	29.5	2.9	41.29	IE4	BS06-../S4E04SA4-1	3.6	12	24	72	87	22.5	25	29.5	29.5	29.5	8.4	3500	-
1	0.315	61	34.5	2.5	48.6	IE4	BS06-../S4E04SA4-1	3	10	20.5	61	74	26.5	29.5	34.5	34.5	34.5	8.4	3500	-
1	0.315	51	41	2.2	58.15	IE4	BS06-../S4E04SA4-1	2.5	8.5	17	51	61	31	35	41	41	41	8.4	3500	-
1	0.315	46.5	43.5	1.8	64.06	IE4	BS06-../S4E04SA4-1	2.3	7.8	15.5	46.5	56	33	37	43.5	43.5	43.5	8.4	3500	-
1	0.315	42	50	1.9	71.18	IE4	BS06-../S4E04SA4-1	2.1	7	14	42	50	38	42.5	50	50	50	8.4	3500	-
1	0.315	38.5	51	1.6	77	IE4	BS06-../S4E04SA4-1	1.9	6.4	12.5	38.5	46.5	39	43.5	51	51	51	8.4	3500	-
1	0.315	33	62	1.6	90	IE4	BS06-../S4E04SA4-1	1.6	5.5	11	33	40	47.5	53	62	62	62	8.4	3500	-
1	0.315	29	71	1.4	103.1	IE4	BS06-../S4E04SA4-1	1.4	4.8	9.6	29	34.5	54	60	71	71	71	8.4	3500	-
1	0.315	25	77	1.2	118.8	IE4	BS06-../S4E04SA4-1	1.2	4.2	8.4	25	30	58	65	77	77	77	8.4	3500	-
1	0.315	23	86	1.2	129	IE4	BS06-../S4E04SA4-1	1.1	3.8	7.7	23	27.5	65	73	86	86	86	8.4	3500	-
1	0.315	21	91	1.1	142.2	IE4	BS06-../S4E04SA4-1	1	3.5	7	21	25	69	77	91	91	91	8.4	3500	-
1	0.315	20	95	1.1	146.8	IE4	BS06-../S4E04SA4-1	1	3.4	6.8	20	24.5	72	81	95	95	95	8.4	3500	-
1	0.315	17.5	109	0.8	171	IE4	BS06-../S4E04SA4-1	0.85	2.9	5.8	17.5	21	83	93	109	109	109	8.4	3500	-
1	0.315	17	104	0.94	174	IF4	BS06-../S4E04SA4-1	0.85	2.8	5.7	17	20.5	79	88	104	104	104	8.4	3500	-

BS-series worm-geared motors

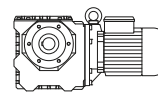
Selection - worm-geared motors - $n_1 = 3000 \frac{1}{\text{min}}$

MN = 1 Nm (PN = 0.315 kW)



M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min] at motor speed n ₁ [1/min]					Torque range M ₂ [Nm] at motor speed n ₁ [1/min]					m	F _{RN}	F _{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
1	0.315	15	128	1.2	200	IE4	BS10Z-../S4E04SA4-1	0.75	2.5	5	15	18	97	108	128	128	128	21	6000	-
1	0.315	11.5	162	1.1	254	IE4	BS10Z-../S4E04SA4-1	0.55	1.9	3.9	11.5	14	123	138	162	162	162	21	6000	-
1	0.315	9.9	187	1	302.5	IE4	BS10Z-../S4E04SA4-1	0.49	1.6	3.3	9.9	11.5	142	159	187	187	187	21	6000	-
1	0.315	8.3	220	0.85	360.3	IE4	BS10Z-../S4E04SA4-1	0.41	1.3	2.7	8.3	9.9	169	189	220	220	220	21	6000	-
1	0.315	14.5	128	2.2	201.4	IE4	BS20Z-../S4E04SA4-1	0.7	2.4	4.9	14.5	17.5	97	109	128	128	128	32	8000	-
1	0.315	11.5	164	1.8	257.8	IE4	BS20Z-../S4E04SA4-1	0.55	1.9	3.8	11.5	13.5	125	140	164	164	164	32	8000	-
1	0.315	9.9	189	1.6	300.1	IE4	BS20Z-../S4E04SA4-1	0.49	1.6	3.3	9.9	11.5	143	160	189	189	189	32	8000	-
1	0.315	8.3	220	1.4	359.9	IE4	BS20Z-../S4E04SA4-1	0.41	1.3	2.7	8.3	10	169	189	220	220	220	32	8000	-
1	0.315	6.9	260	1.3	430.8	IE4	BS20Z-../S4E04SA4-1	0.34	1.1	2.3	6.9	8.3	199	220	260	260	260	32	8000	-
1	0.315	5.5	295	1.2	539.7	IE4	BS20Z-../S4E04SA4-1	0.27	0.9	1.8	5.5	6.6	225	250	295	295	295	32	8000	-
1	0.315	4.8	330	0.99	619.2	IE4	BS20Z-../S4E04SA4-1	0.24	0.8	1.6	4.8	5.8	250	280	330	330	330	32	8000	-

MN = 1.3 Nm (PN = 0.4 kW)

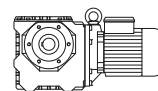


M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min] at motor speed n ₁ [1/min]					Torque range M ₂ [Nm] at motor speed n ₁ [1/min]					m	F _{RN}	F _{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
1.3	0.4	650	5.2	2.9	4.6	IE5	BS02-../S5E06MA4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

BS-series worm-geared motors

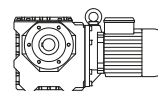
Selection - worm-geared motors - $n_1 = 3000 \frac{1}{\text{min}}$

MN = 1.3 Nm (PN = 0.4 kW)



M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min] at motor speed n ₁ [1/min]					Torque range M ₂ [Nm] at motor speed n ₁ [1/min]					m	F _{RN}	F _{RV}
[Nm]	[kW]	[1/min]	[Nm]	[-]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
1.3	0.4	13	187	1.5	225.6	IE5	BS20-../S5E06MA4	0.65	2.2	4.4	13	15.5	187	187	187	187	187	34	8000	-
1.3	0.4	14.5	167	1.7	201.4	IE5	BS20Z-../S5E06MA4	0.7	2.4	4.9	14.5	17.5	167	167	167	167	167	35	8000	-
1.3	0.4	11.5	210	1.4	257.8	IE5	BS20Z-../S5E06MA4	0.55	1.9	3.8	11.5	13.5	210	210	210	210	210	35	8000	-
1.3	0.4	9.9	245	1.2	300.1	IE5	BS20Z-../S5E06MA4	0.49	1.6	3.3	9.9	11.5	245	245	245	245	245	35	8000	-
1.3	0.4	8.3	290	1.1	359.9	IE5	BS20Z-../S5E06MA4	0.41	1.3	2.7	8.3	10	290	290	290	290	290	35	8000	-
1.3	0.4	6.9	340	0.97	430.8	IE5	BS20Z-../S5E06MA4	0.34	1.1	2.3	6.9	8.3	340	340	340	340	340	35	8000	-
1.3	0.4	5.5	385	0.95	539.7	IE5	BS20Z-../S5E06MA4	0.27	0.9	1.8	5.5	6.6	385	385	385	385	385	35	8000	-
1.3	0.4	13.5	185	2.8	216.4	IE5	BS30-../S5E06MA4	0.65	2.3	4.6	13.5	16.5	185	185	185	185	185	51	10000	-
1.3	0.4	14	181	2.5	211.1	IE5	BS30Z-../S5E06MA4	0.7	2.3	4.7	14	17	181	181	181	181	181	54	10000	-
1.3	0.4	11	220	2.5	261.6	IE5	BS30Z-../S5E06MA4	0.55	1.9	3.8	11	13.5	220	220	220	220	220	54	10000	-
1.3	0.4	9.7	255	2.2	306.6	IE5	BS30Z-../S5E06MA4	0.48	1.6	3.2	9.7	11.5	255	255	255	255	255	54	10000	-
1.3	0.4	8.3	345	1.1	359.6	IE5	BS30Z-../S5E06MA4	0.41	1.3	2.7	8.3	10	345	345	345	345	345	54	10000	-
1.3	0.4	7.6	325	1.8	390.2	IE5	BS30Z-../S5E06MA4	0.38	1.2	2.5	7.6	9.2	325	325	325	325	325	54	10000	-
1.3	0.4	6.5	380	1.6	457.3	IE5	BS30Z-../S5E06MA4	0.32	1	2.1	6.5	7.8	380	380	380	380	380	54	10000	-
1.3	0.4	5.5	445	1.3	539.3	IE5	BS30Z-../S5E06MA4	0.27	0.9	1.8	5.5	6.6	445	445	445	445	445	54	10000	-
1.3	0.4	4.6	500	1.1	651	IE5	BS30Z-../S5E06MA4	0.23	0.75	1.5	4.6	5.5	500	500	500	500	500	54	10000	-
1.3	0.4	10	275	2.6	287.7	IE5	BS40Z-../S5E06MA4	0.5	1.7	3.4	10	12.5	275	275	275	275	275	68	15000	-
1.3	0.4	6.7	365	2.7	446.8	IE5	BS40Z-../S5E06MA4	0.33	1.1	2.2	6.7	8	365	365	365	365	365	68	15000	-
1.3	0.4	5.7	425	2.6	520.8	IE5	BS40Z-../S5E06MA4	0.28	0.95	1.9	5.7	6.9	425	425	425	425	425	68	15000	-
1.3	0.4	4.9	485	1.9	612.1	IE5	BS40Z-../S5E06MA4	0.24	0.8	1.6	4.9	5.8	485	485	485	485	485	68	15000	-
1.3	0.4	4	570	1.3	736.5	IE5	BS40Z-../S5E06MA4	0.2	0.65	1.3	4	4.8	570	570	570	570	570	68	15000	-
1.3	0.4	3.3	690	1.1	908.2	IE5	BS40Z-../S5E06MA4	0.16	0.55	1.1	3.3	3.9	690	690	690	690	690	68	15000	-
1.3	0.4	3.1	870	1	965.5	IE5	BS40G10-../S5E06MA4	0.15	0.5	1	3.1	3.7	870	870	870	870	870	73	15000	-
1.3	0.4	2.5	1070	0.82	1180	IE5	BS40G10-../S5E06MA4	0.12	0.42	0.8	2.5	3	1070	1070	1070	1070	1070	73	15000	-

MN = 1.75 Nm (PN = 0.55 kW)

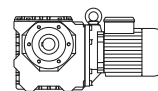


M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min] at motor speed n ₁ [1/min]					Torque range M ₂ [Nm] at motor speed n ₁ [1/min]					m	F _{RN}	F _{RV}
[Nm]	[kW]	[1/min]	[Nm]	[-]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
1.75	0.55	650	7	2.1	4.6	IE5	BS02-../S5E06MA4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

BS-series worm-geared motors

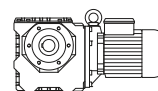
Selection - worm-geared motors - $n_1 = 3000 \frac{1}{\text{min}}$

MN = 1.75 Nm (PN = 0.55 kW)



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

MN = 2.4 Nm (PN = 0.75 kW)

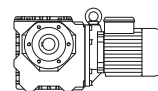


M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min] at motor speed n ₁ [1/min]					Torque range M ₂ [Nm] at motor speed n ₁ [1/min]					m	F _{RN}	F _{RV}
[Nm]	[kW]	[1/min]	[Nm]	[-]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
2.4	0.75	650	9.7	1.5	4.6	IE5	BS02-../S5E06LA4	32.5	108	215	650	780	9.7	9.7	9.7	9.7	9.7	6.8	1000	-
2.4	0.55	650	9.7	1.5	4.6	IE3	BS02-../SPE06MA4	32.5	108	215	650	780	7.2	8	8.9	9.7	9.7	6.8	1000	-
2.4	0.55	550	11.4	1.8	5.4	IE5	BS02-../S5E06LA4	27.5	92	185	550	660	11.4	11.4	11.4	11.4	11.4	6.8	1000	-
2.4	0.55	550	11.4	1.8	5.4	IE3	BS02-../SPE06MA4	27.5	92	185	550	660	8.5	9.5	10.4	11.4	11.4	6.8	1000	-
2.4	0.55	440	13.9	1.8	6.75	IE5	BS02-../S5E06LA4	22	74	148	440	530	13.9	13.9	13.9	13.9	13.9	6.8	1000	-
2.4	0.55	440	13.9	1.8	6.75	IE3	BS02-../SPE06MA4	22	74	148	440	530	10.4	11.6	12.7	13.9	13.9	6.8	1000	-
2.4	0.55	360	16.6	1.5	8.25	IE5	BS02-../S5E06LA4	18	60	121	360	435	16.6	16.6	16.6	16.6	16.6	6.8	1100	-
2.4	0.55	360	16.6	1.5	8.25	IE3	BS02-../SPE06MA4	18	60	121	360	435	12.4	13.8	15.2	16.6	16.6	6.8	1100	-
2.4	0.55	280	20.5	1.2	10.67	IE5	BS02-../S5E06LA4	14	46.5	93	280	335	20.5	20.5	20.5	20.5	20.5	6.8	1250	-
2.4	0.55	280	20.5	1.2	10.67	IE3	BS02-../SPE06MA4	14	46.5	93	280	335	15.7	17.4	19.2	20.5	20.5	6.8	1250	-
2.4	0.55	220	25	0.99	13.5	IE5	BS02-../S5E06LA4	11	37	74	220	265	25	25	25	25	25	6.8	1250	-
2.4	0.55	220	25	0.99	13.5	IE3	BS02-../SPE06MA4	11	37	74	220	265	18.9	21	23	25	25	6.8	1250	-
2.4	0.55	220	25	2.2	13.5	IE5	BS03-../S5E06LA4	11	37	74	220	265	25	25	25	25	25	6.9	1600	-
2.4	0.55	220	25	2.2	13.5	IE3	BS03-../SPE06MA4	11	37	74	220	265	18.9	21	23	25	25	6.9	1600	-
2.4	0.55	157	34.5	1.6	19	IE5	BS03-../S5E06LA4	7.8	26	52	157	189	34.5	34.5	34.5	34.5	34.5	6.9	1950	-
2.4	0.55	157	34.5	1.6	19	IE3	BS03-../SPE06MA4	7.8	26	52	157	189	25.5	28.5	31.5	34.5	34.5	6.9	1950	-
2.4	0.55	120	41	1.3	25	IE5	BS03-../S5E06LA4	6	20	40	120	144	41	41	41	41	41	6.9	1950	-
2.4	0.55	120	41	1.3	25	IE3	BS03-../SPE06MA4	6	20	40	120	144	31	34.5	37.5	41	41	6.9	1950	-
2.4	0.55	90	48	1.1	33	IE5	BS03-../S5E06LA4	4.5	15	30	90	109	48	48	48	48	48	6.9	1950	-
2.4	0.55	90	48	1.1	33	IE3	BS03-../SPE06MA4	4.5	15	30	90	109	36	40	44	48	48	6.9	1950	-
2.4	0.55	76	59	0.92	39	IE5	BS03-../S5E06LA4	3.8	12.5	25.5	76	92	59	59	59	59	59	6.9	1950	-
2.4	0.55	76	59	0.92	39	IE3	BS03-../SPE06MA4	3.8	12.5	25.5	76	92	44.5	49.5	54	59	59	6.9	1950	-
2.4	0.55	485	11.4	2.3	6.13	IE5	BS04-../S5E06LA4	24	81	163	485	580	11.4	11.4	11.4	11.4	11.4	7.3	1300	-
2.4	0.55	485	11.4	2.3	6.13	IE3	BS04-../SPE06MA4	24	81	163	485	580	8.6	9.5	10.5	11.4	11.4	7.3	1300	-
2.4	0.55	335	16.7	1.8	8.93	IE5	BS04-../S5E06LA4	16.5	55	111	335	400	16.7	16.7	16.7	16.7	16.7	7.3	1500	-
2.4	0.55	335	16.7	1.8	8.93	IE3	BS04-../SPE06MA4	16.5	55	111	335	400	12.5	13.9	15.3	16.7	16.7	7.3	1500	-
2.4	0.55	275	20	1.6	10.73	IE5	BS04-../S5E06LA4	13.5	46.5	93	275	335	20	20	20	20	20	7.3	1600	-
2.4	0.55	275	20	1.6	10.73	IE3	BS04-../SPE06MA4	13.5	46.5	93	275	335	15	16.7	18.4	20	20	7.3	1600	-
2.4	0.55	225	24	1.4	13.09	IE5	BS04-../S5E06LA4	11	38	76	225	275	24	24	24	24	24	7.3	1760	-
2.4	0.55	225	24	1.4	13.09	IE3	BS04-../SPE06MA4	11	38	76	225	275	18.1	20	22	24	24	7.3	1760	-
2.4	0.55	183	30	1.2	16.31	IF5	BS04-../S5E06LA4	9.1	30.5	61	183	220	30	30	30	30	30	7.3	1970	-

BS-series worm-geared motors

Selection - worm-geared motors - $n_1 = 3000 \frac{1}{\text{min}}$

MN = 2.4 Nm (PN = 0.55 kW)

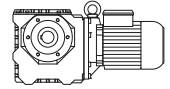


M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min]					Torque range M ₂ [Nm]					m	F _{RN}	F _{RV}
								at motor speed n ₁ [1/min]					at motor speed n ₁ [1/min]							
[Nm]	[kW]	[1/min]	[Nm]	[-]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
2.4	0.55	183	30	1.2	16.31	IE3	BS04-../SPE06MA4	9.1	30.5	61	183	220	22.5	25	27.5	30	30	7.3	1970	-
2.4	0.55	166	30.5	1.1	18	IE5	BS04-../S5E06LA4	8.3	27.5	55	166	200	30.5	30.5	30.5	30.5	30.5	7.3	1950	-
2.4	0.55	166	30.5	1.1	18	IE3	BS04-../SPE06MA4	8.3	27.5	55	166	200	23	25.5	28	30.5	30.5	7.3	1950	-
2.4	0.55	143	38	0.97	20.96	IE5	BS04-../S5E06LA4	7.1	23.5	47.5	143	171	38	38	38	38	38	7.3	2100	-
2.4	0.55	143	38	0.97	20.96	IE3	BS04-../SPE06MA4	7.1	23.5	47.5	143	171	28.5	31.5	35	38	38	7.3	2100	-
2.4	0.55	114	44.5	0.85	26.21	IE5	BS04-../S5E06LA4	5.7	19	38	114	137	44.5	44.5	44.5	44.5	44.5	7.3	2250	-
2.4	0.55	114	44.5	0.85	26.21	IE3	BS04-../SPE06MA4	5.7	19	38	114	137	33	37	40.5	44.5	44.5	7.3	2250	-
2.4	0.55	210	27	2.5	14.07	IE5	BS06-../S5E06LA4	10.5	35.5	71	210	255	27	27	27	27	27	12	2200	-
2.4	0.55	210	27	2.5	14.07	IE3	BS06-../SPE06MA4	10.5	35.5	71	210	255	20.5	22.5	25	27	27	12	2200	-
2.4	0.55	181	31.5	2.3	16.56	IE5	BS06-../S5E06LA4	9	30	60	181	215	31.5	31.5	31.5	31.5	31.5	12	2400	-
2.4	0.55	181	31.5	2.3	16.56	IE3	BS06-../SPE06MA4	9	30	60	181	215	23.5	26	29	31.5	31.5	12	2400	-
2.4	0.55	151	38	2	19.82	IE5	BS06-../S5E06LA4	7.5	25	50	151	181	38	38	38	38	38	12	2500	-
2.4	0.55	151	38	2	19.82	IE3	BS06-../SPE06MA4	7.5	25	50	151	181	28.5	31.5	34.5	38	38	12	2500	-
2.4	0.55	123	46.5	1.7	24.25	IE5	BS06-../S5E06LA4	6.1	20.5	41	123	148	46.5	46.5	46.5	46.5	46.5	12	2600	-
2.4	0.55	123	46.5	1.7	24.25	IE3	BS06-../SPE06MA4	6.1	20.5	41	123	148	34.5	38.5	42.5	46.5	46.5	12	2600	-
2.4	0.55	114	45.5	1.7	26.21	IE5	BS06-../S5E06LA4	5.7	19	38	114	137	45.5	45.5	45.5	45.5	45.5	12	3000	-
2.4	0.55	114	45.5	1.7	26.21	IE3	BS06-../SPE06MA4	5.7	19	38	114	137	34	38	42	45.5	45.5	12	3000	-
2.4	0.55	95	55	1.4	31.5	IE5	BS06-../S5E06LA4	4.7	15.5	31.5	95	114	55	55	55	55	55	12	3200	-
2.4	0.55	95	55	1.4	31.5	IE3	BS06-../SPE06MA4	4.7	15.5	31.5	95	114	41	45.5	50	55	55	12	3200	-
2.4	0.55	72	71	1.2	41.29	IE5	BS06-../S5E06LA4	3.6	12	24	72	87	71	71	71	71	71	12	3500	-
2.4	0.55	72	71	1.2	41.29	IE3	BS06-../SPE06MA4	3.6	12	24	72	87	53	59	65	71	71	12	3500	-
2.4	0.55	61	83	1	48.6	IE5	BS06-../S5E06LA4	3	10	20.5	61	74	83	83	83	83	83	12	3500	-
2.4	0.55	61	83	1	48.6	IE3	BS06-../SPE06MA4	3	10	20.5	61	74	62	69	76	83	83	12	3500	-
2.4	0.55	51	99	0.92	58.15	IE5	BS06-../S5E06LA4	2.5	8.5	17	51	61	99	99	99	99	99	12	3500	-
2.4	0.55	51	99	0.92	58.15	IE3	BS06-../SPE06MA4	2.5	8.5	17	51	61	74	82	90	99	99	12	3500	-
2.4	0.55	138	41	3	21.61	IE5	BS10-../S5E06LA4	6.9	23	46	138	166	41	41	41	41	41	23	3000	-
2.4	0.55	138	41	3	21.61	IE3	BS10-../SPE06MA4	6.9	23	46	138	166	31	34.5	38	41	41	23	3000	-
2.4	0.55	113	49	2.6	26.42	IE5	BS10-../S5E06LA4	5.6	18.5	37.5	113	136	49	49	49	49	49	23	3250	-
2.4	0.55	113	49	2.6	26.42	IE3	BS10-../SPE06MA4	5.6	18.5	37.5	113	136	37	41	45	49	49	23	3250	-
2.4	0.55	89	61	2.2	33.55	IE5	BS10-../S5E06LA4	4.4	14.5	29.5	89	107	61	61	61	61	61	23	3550	-
2.4	0.55	89	61	2.2	33.55	IE3	BS10-../SPE06MA4	4.4	14.5	29.5	89	107	45.5	50	56	61	61	23	3550	-
2.4	0.55	75	71	1.9	39.96	IE5	BS10-../S5E06LA4	3.7	12.5	25	75	90	71	71	71	71	71	23	3800	-
2.4	0.55	75	71	1.9	39.96	IE3	BS10-../SPE06MA4	3.7	12.5	25	75	90	53	59	65	71	71	23	3800	-
2.4	0.55	63	85	1.7	47.59	IE5	BS10-../S5E06LA4	3.1	10.5	21	63	75	85	85	85	85	85	23	4050	-
2.4	0.55	63	85	1.7	47.59	IE3	BS10-../SPE06MA4	3.1	10.5	21	63	75	64	71	78	85	85	23	4050	-
2.4	0.55	52	101	1.5	57.12	IE5	BS10-../S5E06LA4	2.6	8.7	17.5	52	63	101	101	101	101	101	23	4350	-
2.4	0.55	52	101	1.5	57.12	IE3	BS10-../SPE06MA4	2.6	8.7	17.5	52	63	76	84	92	101	101	23	4350	-
2.4	0.55	49	97	1.5	60.74	IE5	BS10-../S5E06LA4	2.4	8.2	16	49	59	97	97	97	97	97	23	4550	-
2.4	0.55	49	97	1.5	60.74	IE3	BS10-../SPE06MA4	2.4	8.2	16	49	59	73	81	89	97	97	23	4550	-
2.4	0.55	41.5	127	1.3	71.96	IE5	BS10-../S5E06LA4	2	6.9	13.5	41.5	50	127	127	127	127	127	23	5000	-
2.4	0.55	41.5	127	1.3	71.96	IE3	BS10-../SPE06MA4	2	6.9	13.5	41.5	50	95	106	117	127	127	23	5000	-
2.4	0.55	35.5	149	1	84.36	IE5	BS10-../S5E06LA4	1.7	5.9	11.5	35.5	42.5	149	149	149	149	149	23	5300	-
2.4	0.55	35.5	149	1	84.36	IE3	BS10-../SPE06MA4	1.7	5.9	11.5	35.5	42.5	112	124	137	149	149	23	5300	-
2.4	0.55	29	158	1	103.4	IE5	BS10-../S5E06LA4	1.4	4.8	9.6	29	34.5	158	158	158	158	158	23	5600	-
2.4	0.55	29	158	1	103.4	IE3	BS10-../SPE06MA4	1.4	4.8	9.6	29	34.5	119	132	145	158	158	23	5600	-
2.4	0.55	23	200	0.82	130.3	IE5	BS10-../S5E06LA4	1.1	3.8	7.6	23	27.5	200	200	200	200	200	23	6000	-
2.4	0.55	23	200	0.82	130.3	IE3	BS10-../SPE06MA4	1.1	3.8	7.6	23	27.5	150	166	183	200	200	23	6000	-
2.4	0.55	51	105	2.6	58.74	IE5	BS20-../S5E06LA4	2.5	8.5	17	51	61	105	105	105	105	105	34	5900	-
2.4	0.55	51	105	2.6	58.74	IE3	BS20-../SPE06MA4	2.5	8.5	17	51	61	79	88	96	105	105	34	5900	-
2.4	0.55	42.5	126	2.4	70.3	IE5	BS20-../S5E06LA4	2.1	7.1	14	42.5	51	126	126	126	126	126	34	6300	-
2.4	0.55	42.5	126	2.4	70.3	IE3	BS20-../SPE06MA4	2.1	7.1	14	42.5	51	94	105	115	126	126	34	6300	-
2.4	0.55	39	120	2.2	76.18	IE5	BS20-../S5E06LA4	1.9	6.5	13	39	47	120	120	120	120	120	34	6600	-
2.4	0.55	39	120	2.2	76.18	IE3	BS20-../SPE06MA4	1.9	6.5	13	39	47	90	100	110	120	120	34	6600	-
2.4	0.55	33.5	140	1.9	88.67	IE5	BS20-../S5E06LA4	1.6	5.6	11	33.5	40.5	140	140	140	140	140	34	7000	-
2.4	0.55	33.5	140	1.9	88.67	IE3	BS20-../SPE06MA4	1.6	5.6	11	33.5	40.5	105	117	128	140	140	34	7000	-
2.4	0.55	29.5	179	1.4	101.1	IE5	BS20-../S5E06LA4	1.4	4.9	9.8	29.5									

BS-series worm-geared motors

Selection - worm-geared motors - $n_1 = 3000 \text{ 1/min}$

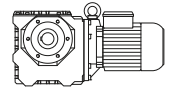
MN = 2.4 Nm (PN = 0.55 kW)



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

9

MN = 3.5 Nm (PN = 1.1 kW)

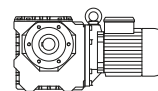


M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min]					Torque range M ₂ [Nm]					m	F _{RN}	F _{RV}
								at motor speed n ₁ [1/min]					at motor speed n ₁ [1/min]							
								150	500	1000	3000	3600	150	500	1000	3000	3600			
[Nm]	[kW]	[1/min]	[Nm]	[-]	[:1]											[kg]	[N]	[N]		
3.5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

BS-series worm-geared motors

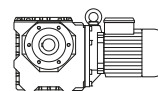
Selection - worm-geared motors - $n_1 = 3000 \frac{1}{\text{min}}$

MN = 3.5 Nm (PN = 1.1 kW)



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

MN = 5 Nm (PN = 1.55 kW)

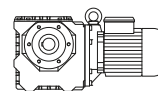


M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min]					Torque range M ₂ [Nm]					m	F _{RN}	F _{RV}
		at motor speed n ₁ [1/min]						at motor speed n ₁ [1/min]												
		150	500	1000	3000			3600	150	500	1000	3000	3600							
[Nm]	[kW]	[1/min]	[Nm]	[--]	[1]											[kg]	[N]	[N]		
5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

BS-series worm-geared motors

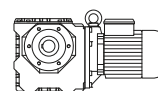
Selection - worm-geared motors - $n_1 = 3000 \frac{1}{\text{min}}$

MN = 5 Nm (PN = 1.55 kW)



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

MN = 7 Nm (PN = 2.2 kW)

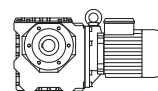


M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min] at motor speed n ₁ [1/min]					Torque range M ₂ [Nm] at motor speed n ₁ [1/min]					m	F _{RN}	F _{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
7	2.2	650	28	1.4	4.6	IE4	BS03-../S4E08MA4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

BS-series worm-geared motors

Selection - worm-geared motors - $n_1 = 3000 \frac{1}{\text{min}}$

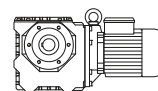
MN = 7 Nm (PN = 2.2 kW)



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

9

MN = 10 Nm (PN = 3.1 kW)

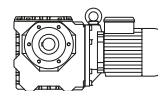


M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min] at motor speed n ₁ [1/min]					Torque range M ₂ [Nm] at motor speed n ₁ [1/min]					m	F _{RN}	F _{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
10	3.1	650	40	0.99	4.6	IE3	BS03-../SPE08LA4	32.5	108	215	650	780	26	32	40	40	40	12	1070	-
10	3.1	500	52	0.83	6	IE3	BS03-../SPE08LA4	25	83	166	500	600	34	42	52	52	52	12	1170	-
10	3.1	445	54	1	6.67	IE3	BS06-../SPE08LA4	22	74	149	445	530	35	43	54	54	54	17	1550	-
10	3.1	335	72	0.86	8.93	IE3	BS06-../SPE08LA4	16.5	55	111	335	400	47	57	72	72	72	17	1710	-
10	3.1	240	99	1.1	12.49	IE3	BS10-../SPE08LA4	12	40	80	240	285	64	79	99	99	99	28	2400	-
10	3.1	177	135	0.89	16.92	IE3	BS10-../SPE08LA4	8.8	29.5	59	177	210	87	108	135	135	135	28	2700	-
10	3.1	230	103	1.9	12.77	IE3	BS20-../SPE08LA4	11.5	39	78	230	280	67	82	103	103	103	39	3350	-
10	3.1	177	137	1.6	16.92	IE3	BS20-../SPE08LA4	8.8	29.5	59	177	210	89	109	137	137	137	39	3700	-
10	3.1	134	180	1.3	22.23	IE3	BS20-../SPE08LA4	6.7	22	44.5	134	161	117	144	180	180	180	39	4100	-
10	3.1	129	166	1.4	23.13	IE3	BS20-../SPE08LA4	6.4	21.5	43	129	155	108	133	166	166	166	39	4300	-
10	3.1	107	215	1.2	27.86	IE3	BS20-../SPE08LA4	5.3	17.5	35.5	107	129	141	173	215	215	215	39	4450	-
10	3.1	97	220	1.1	30.63	IE3	BS20-../SPE08LA4	4.8	16	32.5	97	117	143	176	220	220	220	39	4750	-
10	3.1	91	250	1.1	32.87	IE3	BS20-../SPE08LA4	4.5	15	30	91	109	164	200	250	250	250	39	4750	-
10	3.1	74	285	0.9	40.25	IE3	BS20-../SPE08LA4	3.7	12	24.5	74	89	188	230	285	285	285	39	5300	-
10	3.1	71	315	0.84	42.08	IE3	BS20-../SPE08LA4	3.5	11.5	23.5	71	85	205	255	315	315	315	39	5200	-
10	3.1	59	335	0.8	50.44	IE3	BS20-../SPE08LA4	2.9	9.9	19.5	59	71	215	270	335	335	335	39	5700	-
10	3.1	225	110	3	13.29	IE3	BS30-../SPE08LA4	11	37.5	75	225	270	71	88	110	110	110	56	3600	-
10	3.1	177	140	2.6	16.92	IE3	BS30-../SPE08LA4	8.8	29.5	59	177	210	91	112	140	140	140	56	3950	-
10	3.1	143	173	2.2	20.94	IE3	BS30-../SPE08LA4	7.1	23.5	47.5	143	171	112	139	173	173	173	56	4300	-

BS-series worm-geared motors

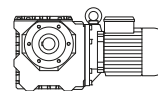
Selection - worm-geared motors - $n_1 = 3000 \text{ 1/min}$

MN = 10 Nm (PN = 3.1 kW)



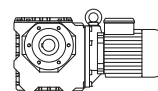
M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min] at motor speed n ₁ [1/min]					Torque range M ₂ [Nm] at motor speed n ₁ [1/min]					m	F _{RN}	F _{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
10	3.1	124	180	2	24.06	IE3	BS30-../SPE08LA4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

MN = 13 Nm (PN = 4 kW)



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

MN = 17.5 Nm (PN = 5.5 kW)

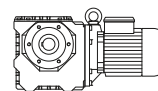


M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min] at motor speed n ₁ [1/min]					Torque range M ₂ [Nm] at motor speed n ₁ [1/min]					m	F _{RN}	F _{RV}
[Nm]	[kW]	[1/min]	[Nm]	[-]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
17.5	5.5	230	181	1.1	12.77	IE5	BS20-../S5E09XA4	11.5	39	78	230	280	134	165	181	181	181	50	3350	-
17.5	5.5	177	235	0.92	16.92	IE5	BS20-../S5E09XA4	8.8	29.5	59	177	210	178	215	235	235	235	50	3700	-
17.5	5.5	225	193	1.7	13.29	IE4	BS30-../S4E11SA6	11	37.5	75	225	270	193	193	193	193	193	77	3600	-
17.5	5.5	225	193	1.7	13.29	IE5	BS30-../S5E09XA4	11	37.5	75	225	270	143	176	193	193	193	68	3600	-
17.5	5.5	177	245	1.5	16.92	IE4	BS30-../S4E11SA6	8.8	29.5	59	177	210	245	245	245	245	245	77	3950	-

BS-series worm-geared motors

Selection - worm-geared motors - $n_1 = 3000 \frac{1}{\text{min}}$

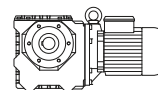
MN = 17.5 Nm (PN = 5.5 kW)



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

9

MN = 20 Nm (PN = 6.3 kW)

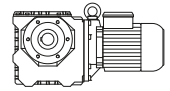


M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min]					Torque range M ₂ [Nm]					m	F _{RN}	F _{RV}
								at motor speed n ₁ [1/min]					at motor speed n ₁ [1/min]							
								150	500	1000	3000	3600	150	500	1000	3000	3600			
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]											[kg]	[N]	[N]		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

BS-series worm-geared motors

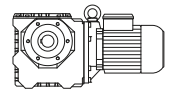
Selection - worm-geared motors - $n_1 = 3000 \text{ 1/min}$

MN = 24 Nm (PN = 7.5 kW)



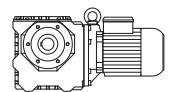
M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min]					Torque range M ₂ [Nm]					m	F _{RN}	F _{RV}
								at motor speed n ₁ [1/min]					at motor speed n ₁ [1/min]							
[Nm]	[kW]	[1/min]	[Nm]	[-]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
24	7.5	225	260	1.3	13.29	IE4	BS30-../S4E11SA6	11	37.5	75	225	270	205	235	260	260	260	77	3600	-
24	7.5	225	260	1.3	13.29	IE5	BS30-../S5E11MA6	11	37.5	75	225	270	260	260	260	260	260	77	3600	-
24	7.5	177	335	1.1	16.92	IE4	BS30-../S4E11SA6	8.8	29.5	59	177	210	265	300	335	335	335	77	3950	-
24	7.5	177	335	1.1	16.92	IE5	BS30-../S5E11MA6	8.8	29.5	59	177	210	335	335	335	335	335	77	3950	-
24	7.5	143	415	0.91	20.94	IE4	BS30-../S4E11SA6	7.1	23.5	47.5	143	171	330	370	415	415	415	77	4300	-
24	7.5	143	415	0.91	20.94	IE5	BS30-../S5E11MA6	7.1	23.5	47.5	143	171	415	415	415	415	415	77	4300	-
24	7.5	124	430	0.85	24.06	IE4	BS30-../S4E11SA6	6.2	20.5	41.5	124	149	340	385	430	430	430	77	4600	-
24	7.5	124	430	0.85	24.06	IE5	BS30-../S5E11MA6	6.2	20.5	41.5	124	149	430	430	430	430	430	77	4600	-
24	7.5	230	265	2.3	13.03	IE4	BS40-../S4E11SA6	11.5	38	76	230	275	210	235	265	265	265	95	5800	-
24	7.5	230	265	2.3	13.03	IE5	BS40-../S5E11MA6	11.5	38	76	230	275	265	265	265	265	265	95	5800	-
24	7.5	177	345	1.9	16.92	IE4	BS40-../S4E11SA6	8.8	29.5	59	177	210	270	305	345	345	345	95	6400	-
24	7.5	177	345	1.9	16.92	IE5	BS40-../S5E11MA6	8.8	29.5	59	177	210	345	345	345	345	345	95	6400	-
24	7.5	142	410	1.7	21.06	IE4	BS40-../S4E11SA6	7.1	23.5	47	142	170	325	370	410	410	410	95	6900	-
24	7.5	142	410	1.7	21.06	IE5	BS40-../S5E11MA6	7.1	23.5	47	142	170	410	410	410	410	410	95	6900	-
24	7.5	127	415	1.6	23.59	IE4	BS40-../S4E11SA6	6.3	21	42	127	152	330	375	415	415	415	95	7900	-
24	7.5	127	415	1.6	23.59	IE5	BS40-../S5E11MA6	6.3	21	42	127	152	415	415	415	415	415	95	7900	-
24	7.5	114	510	1.4	26.18	IE4	BS40-../S4E11SA6	5.7	19	38	114	137	405	460	510	510	510	95	7500	-
24	7.5	114	510	1.4	26.18	IE5	BS40-../S5E11MA6	5.7	19	38	114	137	510	510	510	510	510	95	7500	-
24	7.5	97	540	1.4	30.63	IE4	BS40-../S4E11SA6	4.8	16	32.5	97	117	430	485	540	540	540	95	8700	-
24	7.5	97	540	1.4	30.63	IE5	BS40-../S5E11MA6	4.8	16	32.5	97	117	540	540	540	540	540	95	8700	-
24	7.5	89	640	1.2	33.35	IE4	BS40-../S4E11SA6	4.4	14.5	29.5	89	107	500	570	640	640	640	95	8300	-
24	7.5	89	640	1.2	33.35	IE5	BS40-../S5E11MA6	4.4	14.5	29.5	89	107	640	640	640	640	640	95	8300	-
24	7.5	78	660	1.2	38.13	IE4	BS40-../S4E11SA6	3.9	13	26	78	94	520	590	660	660	660	95	9400	-
24	7.5	78	660	1.2	38.13	IE5	BS40-../S5E11MA6	3.9	13	26	78	94	660	660	660	660	660	95	9400	-
24	7.5	74	760	1	40.37	IE4	BS40-../S4E11SA6	3.7	12	24.5	74	89	600	680	760	760	760	95	9000	-
24	7.5	74	760	1	40.37	IE5	BS40-../S5E11MA6	3.7	12	24.5	74	89	760	760	760	760	760	95	9000	-
24	7.5	62	890	0.93	47.69	IE4	BS40-../S4E11SA6	3.1	10	20.5	62	75	700	790	890	890	890	95	9600	-
24	7.5	62	890	0.93	47.69	IE5	BS40-../S5E11MA6	3.1	10	20.5	62	75	890	890	890	890	890	95	9600	-
24	7.5	49.5	1020	0.84	60.38	IE4	BS40-../S4E11SA6	2.4	8.2	16.5	49.5	59	810	920	1020	1020	1020	95	11200	-
24	7.5	49.5	1020	0.84	60.38	IE5	BS40-../S5E11MA6	2.4	8.2	16.5	49.5	59	1020	1020	1020	1020	1020	95	11200	-

MN = 30 Nm (PN = 9.5 kW)



M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min]					Torque range M ₂ [Nm]					m	F _{RN}	F _{RV}
								at motor speed n ₁ [1/min]					at motor speed n ₁ [1/min]							
								150	500	1000	3000	3600	150	500	1000	3000	3600			
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]											[kg]	[N]	[N]		
30	9.5	225	330	1	13.29	IE5	BS30-../S5E11LA6	11	37.5	75	225	270	330	330	330	330	89	3600	-	
30	9.5	225	330	1	13.29	IE5	BS30-../S5E11MA6	11	37.5	75	225	270	290	330	330	330	77	3600	-	
30	9.5	177	420	0.85	16.92	IE5	BS30-../S5E11LA6	8.8	29.5	59	177	210	420	420	420	420	89	3950	-	
30	9.5	177	420	0.85	16.92	IE5	BS30-../S5E11MA6	8.8	29.5	59	177	210	370	420	420	420	77	3950	-	
30	9.5	230	330	1.8	13.03	IE5	BS40-../S5E11LA6	11.5	38	76	230	275	330	330	330	330	107	5800	-	
30	9.5	230	330	1.8	13.03	IE5	BS40-../S5E11MA6	11.5	38	76	230	275	290	330	330	330	95	5800	-	
30	9.5	177	430	1.6	16.92	IE5	BS40-../S5E11LA6	8.8	29.5	59	177	210	430	430	430	430	107	6400	-	
30	9.5	177	430	1.6	16.92	IE5	BS40-../S5E11MA6	8.8	29.5	59	177	210	380	430	430	430	95	6400	-	
30	9.5	142	510	1.4	21.06	IE5	BS40-../S5E11LA6	7.1	23.5	47	142	170	510	510	510	510	107	6900	-	
30	9.5	142	510	1.4	21.06	IE5	BS40-../S5E11MA6	7.1	23.5	47	142	170	455	510	510	510	95	6900	-	
30	9.5	127	520	1.3	23.59	IE5	BS40-../S5E11LA6	6.3	21	42	127	152	520	520	520	520	107	7900	-	
30	9.5	127	520	1.3	23.59	IE5	BS40-../S5E11MA6	6.3	21	42	127	152	460	520	520	520	95	7900	-	
30	9.5	114	640	1.1	26.18	IE5	BS40-../S5E11LA6	5.7	19	38	114	137	640	640	640	640	107	7500	-	
30	9.5	114	640	1.1	26.18	IE5	BS40-../S5E11MA6	5.7	19	38	114	137	560	640	640	640	95	7500	-	
30	9.5	97	670	1.1	30.63	IE5	BS40-../S5E11LA6	4.8	16	32.5	97	117	670	670	670	670	107	8700	-	
30	9.5	97	670	1.1	30.63	IE5	BS40-../S5E11MA6	4.8	16	32.5	97	117	600	670	670	670	95	8700	-	
30	9.5	89	800	0.97	33.35	IE5	BS40-../S5E11LA6	4.4	14.5	29.5	89	107	800	800	800	800	107	8300	-	
30	9.5	89	800	0.97	33.35	IE5	BS40-../S5E11MA6	4.4	14.5	29.5	89	107	700	800	800	800	95	8300	-	
30	9.5	78	830	0.93	38.13	IE5	BS40-../S5E11LA6	3.9	13	26	78	94	830	830	830	830	107	9400	-	
30	9.5	78	830	0.93	38.13	IE5	BS40-../S5E11MA6	3.9	13	26	78	94	730	830	830	830	95	9400	-	
30	9.5	74	950	0.84	40.37	IE5	BS40-../S5E11LA6	3.7	12	24.5	74	89	950	950	950	950	107	9000	-	
30	9.5	74	950	0.84	40.37	IE5	BS40-../S5E11MA6	3.7	12	24.5	74	89	840	950	950	950	95	9000	-	

MN = 35 Nm (PN = 11 kW)

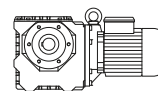


M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min] at motor speed n ₁ [1/min]					Torque range M ₂ [Nm] at motor speed n ₁ [1/min]					m	F _{RN}	F _{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
35	11	225	385	0.86	13.29	IE4	BS30-../S4E11MA6	11	37.5	75	225	270	290	330	385	385	385	77	3600	-
35	11	225	385	0.86	13.29	IE5	BS30-../S5E11LA6	11	37.5	75	225	270	385	385	385	385	385	89	3600	-
35	11	230	385	1.6	13.03	IE4	BS40-../S4E11MA6	11.5	38	76	230	275	290	330	385	385	385	95	5800	-
35	11	230	385	1.6	13.03	IE5	BS40-../S5E11LA6	11.5	38	76	230	275	385	385	385	385	385	107	5800	-
35	11	177	500	1.3	16.92	IE4	BS40-../S4E11MA6	8.8	29.5	59	177	210	380	430	500	500	500	95	6400	-
35	11	177	500	1.3	16.92	IE5	BS40-../S5E11LA6	8.8	29.5	59	177	210	500	500	500	500	500	107	6400	-

BS-series worm-geared motors

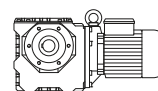
Selection - worm-geared motors - $n_1 = 3000 \frac{1}{\text{min}}$

MN = 35 Nm (PN = 11 kW)



M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min] at motor speed n ₁ [1/min]					Torque range M ₂ [Nm] at motor speed n ₁ [1/min]					m	F _{RN}	F _{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
35	11	142	600	1.2	21.06	IE4	BS40-../S4E11MA6	7.1	23.5	47	142	170	455	510	600	600	600	95	6900	-
35	11	142	600	1.2	21.06	IE5	BS40-../S5E11LA6	7.1	23.5	47	142	170	600	600	600	600	600	107	6900	-
35	11	127	610	1.1	23.59	IE4	BS40-../S4E11MA6	6.3	21	42	127	152	460	520	610	610	610	95	7900	-
35	11	127	610	1.1	23.59	IE5	BS40-../S5E11LA6	6.3	21	42	127	152	610	610	610	610	610	107	7900	-
35	11	114	750	0.98	26.18	IE4	BS40-../S4E11MA6	5.7	19	38	114	137	560	640	750	750	750	95	7500	-
35	11	114	750	0.98	26.18	IE5	BS40-../S5E11LA6	5.7	19	38	114	137	750	750	750	750	750	107	7500	-
35	11	97	790	0.95	30.63	IE4	BS40-../S4E11MA6	4.8	16	32.5	97	117	600	670	790	790	790	95	8700	-
35	11	97	790	0.95	30.63	IE5	BS40-../S5E11LA6	4.8	16	32.5	97	117	790	790	790	790	790	107	8700	-
35	11	89	930	0.84	33.35	IE4	BS40-../S4E11MA6	4.4	14.5	29.5	89	107	700	800	930	930	930	95	8300	-
35	11	89	930	0.84	33.35	IE5	BS40-../S5E11LA6	4.4	14.5	29.5	89	107	930	930	930	930	930	107	8300	-
35	11	78	970	0.8	38.13	IE4	BS40-../S4E11MA6	3.9	13	26	78	94	730	830	970	970	970	95	9400	-
35	11	78	970	0.8	38.13	IE5	BS40-../S5E11LA6	3.9	13	26	78	94	970	970	970	970	970	107	9400	-

MN = 48 Nm (PN = 15 kW)



M _N	P _N	n ₂	M ₂	f _B	i	IE- Classe	Type	Speed range n ₂ [1/min] at motor speed n ₁ [1/min]					Torque range M ₂ [Nm] at motor speed n ₁ [1/min]					m	F _{RN}	F _{RV}
[Nm]	[kW]	[1/min]	[Nm]	[--]	[:1]			150	500	1000	3000	3600	150	500	1000	3000	3600	[kg]	[N]	[N]
48	15	230	530	1.2	13.03	IE5	BS40-../S5E11LA6	11.5	38	76	230	275	385	440	530	530	440	107	5800	-
48	15	177	690	0.97	16.92	IE5	BS40-../S5E11LA6	8.8	29.5	59	177	210	500	570	690	690	570	107	6400	-
48	15	142	820	0.86	21.06	IE5	BS40-../S5E11LA6	7.1	23.5	47	142	170	600	690	820	820	690	107	6900	-
48	15	127	830	0.82	23.59	IE5	BS40-../S5E11LA6	6.3	21	42	127	152	610	690	830	830	690	107	7900	-

