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## **BK-series bevel-gear motors Selection**

**155-188**

### **Description of bevel-gear units**

- Sizes
  - Bauer service factors ( $f_B$ ) for bevel-gear motors
  - Continuous operation without switching frequency  $Z \leq 1/h$
  - Switching duty
  - Bauer service factor
  - Explanation of shock classification
  - Key to abbreviations
  - Selection tables, bevel-gear motors
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### Sizes

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

### Bauer service factors ( $f_B$ ) for bevel-gear motors

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

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

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

See Bauer special imprint SD32 for more information.

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

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

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

### Switching duty

#### Factor $f_2$ for shock classification and switching frequency

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

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

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

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

### Bauer Service factor

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

For example: Shock classification II for  $Z = 100$  switching operations per hour and multiple-shift operation yields a service factor  $f_B = f_2 = 1,5$

### Explanation of shock classification

#### Shock classification I:

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

- $FI \leq 1,3$

# BK-series bevel-gear motors

## Description of bevel-gear units

- $M_x/M_N \leq 1,0$
- 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:

- $1,3 < FI \leq 4$
- $1 < M_x/M_N \leq 1,6$
- Shock-neutral power transmission components (e.g. gear wheels, zero-play rigid coupling or resilient coupling with  $\varphi_N < 5^\circ$ )

### Shock classification III:

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

- $FI > 4$
- $1,6 < M_x/M_N \leq 2,0$
- Shock-amplifying power transmission components (e.g. coupling with play or chain drive)

### Key to abbreviations

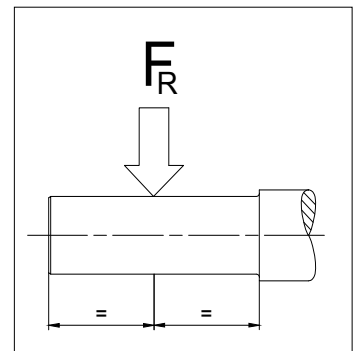
Z	Switching duty number of switching operations per hour
$t_d$	Daily operating time in hours (h/d)
FI	Factor of inertia $FI = (J_{ext} + J_{rot})/J_{rot}$
$J_{ext}$	Mass moment of inertia of the machine to be driven, in relation to the motor's rotor shaft ( $kgm^2$ )
$J_{rot}$	Mass moment of inertia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

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### Selection tables, bevel-gear motors

### Key to abbreviations

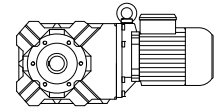
P	Rated output
$n_2$	Rated speed of the output shaft
i	Gear reduction ratio
$M_2$	Rated torque at the output shaft
$f_B$	Bauer service factor
$F_{RN}$	Maximum permissible radial force with normal bearings
$F_{RV}$	Maximum permissible radial force with reinforced bearings in each case with standard solid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



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

### Motor power overload protection

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



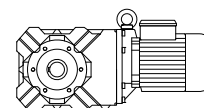
**P = 0.12 kW**

50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
119	8.8	9.1	11.67	BK06-../DPE05LA4	9.5	930	-	144	7.3	11
91	11.4	7.0	15.29	BK06-../DPE05LA4	9.5	1020	-	110	9.4	8.5
77	13.3	6.0	18.00	BK06-../DPE05LA4	9.5	1080	-	93	11	7.3
65	15.8	5.1	21.54	BK06-../DPE05LA4	9.5	1150	-	78	13.2	6.1
53	19.4	4.1	26.36	BK06-../DPE05LA4	9.5	1230	-	64	16.1	5.0
41.5	24.5	3.3	33.33	BK06-../DPE05LA4	9.5	1320	-	51	20	4.0
36.5	28	2.9	38.18	BK06-../DPE05LA4	9.5	1380	-	44	23	3.5
29	35	2.3	47.78	BK06-../DPE05LA4	9.5	1500	-	35	29	2.8
25.5	39.5	1.7	54.38	BK06-../DPE05LA4	9.5	1600	-	31	32.5	2.1
22	46	1.4	63.33	BK06-../DPE05LA4	9.5	1700	-	26.5	38	1.65
15.5	64	2.8	89.30	BK10-../DPE06LA4	23	7000	-	19	52	3.4
13.5	72	2.2	102.5	BK10-../DPE06LA4	23	7000	-	16.5	59	2.7
11.5	84	1.65	120.3	BK10Z-../DPE06LA4	24	7000	-	14	69	2.0
9.7	99	1.65	143.2	BK10Z-../DPE06LA4	24	7000	-	12	80	2.0
8.1	117	1.7	170.6	BK10Z-../DPE06LA4	24	7000	-	9.8	97	2.1
6.8	138	1.45	204.7	BK10Z-../DPE06LA4	24	7000	-	8.2	114	1.75
5.4	174	1.15	257.9	BK10Z-../DPE06LA4	24	7000	-	6.5	144	1.4
4.6	200	0.92	302.4	BK10Z-../DPE06LA4	24	7000	-	5.6	165	1.1
4.1	205	1.05	343.2	BK10G06-../DPE06LA4	28	7000	-	4.9	169	1.3
3.4	245	0.9	410.8	BK10G06-../DPE06LA4	28	7000	-	4.1	200	1.1
3.1	270	0.81	459.2	BK10G06-../DPE06LA4	28	7000	-	3.7	225	0.98
2.8	220*	1.0	501.4	BK10G06-../DPE06LA4	28	7000	-	3.4	220	1.0
2.5	220*	1.0	552.3	BK10G06-../DPE06LA4	28	7000	-	3.1	220	1.0
2.2	220*	1.0	635.5	BK10G06-../DPE06LA4	28	7000	-	2.7	220	1.0
1.8	220*	1.0	789.7	BK10G06-../DPE06LA4	28	7000	-	2.2	220	1.0
1.5	220*	1.0	929.3	BK10G06-../DPE06LA4	28	7000	-	1.8	220	1.0
1.3	220*	1.0	1112	BK10G06-../DPE06LA4	28	7000	-	1.6	220	1.0
1.1	220*	1.0	1361	BK10G06-../DPE06LA4	28	7000	-	1.3	220	1.0
0.9	220*	1.0	1577	BK10G06-../DPE06LA4	28	7000	-	1.1	220	1.0
0.75	220*	1.0	1971	BK10G06-../DPE06LA4	28	7000	-	0.85	220	1.0
0.65	220*	1.0	2261	BK10G06-../DPE06LA4	28	7000	-	0.75	220	1.0
0.6	220*	1.0	2467	BK10G06-../DPE06LA4	28	7000	-	0.7	220	1.0
0.49	220*	1.0	2849	BK10G06-../DPE06LA4	28	7000	-	0.6	220	1.0
0.45	220*	1.0	3107	BK10G06-../DPE06LA4	28	7000	-	0.55	220	1.0
0.4	220*	1.0	3537	BK10G06-../DPE06LA4	28	7000	-	0.48	220	1.0
0.34	220*	1.0	4120	BK10G06-../DPE06LA4	28	7000	-	0.41	220	1.0
9.6	100	3.3	144.5	BK20Z-../DPE06LA4	34	8700	9000	12	80	4.1
8.0	118	2.8	173.4	BK20Z-../DPE06LA4	34	8700	9000	9.7	98	3.4
6.7	140	2.4	207.5	BK20Z-../DPE06LA4	34	8700	9000	8.1	116	2.8
5.4	174	1.9	259.9	BK20Z-../DPE06LA4	34	8700	9000	6.5	144	2.3
4.7	197	1.6	298.2	BK20Z-../DPE06LA4	34	8700	9000	5.7	162	1.95
3.8	240	1.2	367.7	BK20Z-../DPE06LA4	34	8700	9000	4.6	199	1.45
3.3	255	1.4	429.7	BK20G06-../DPE06LA4	38	8700	9000	3.9	210	1.7
2.9	290	1.25	480.4	BK20G06-../DPE06LA4	38	8700	9000	3.5	235	1.55
2.7	310	1.15	524.5	BK20G06-../DPE06LA4	38	8700	9000	3.2	260	1.4
2.2	380	0.95	630.0	BK20G06-../DPE06LA4	38	8700	9000	2.7	310	1.15
1.9	445	0.81	757.0	BK20G06-../DPE06LA4	38	8700	9000	2.3	365	0.99
1.6	360*	1.0	891.2	BK20G06-../DPE06LA4	38	8700	9000	1.9	360	1.0
1.3	360*	1.0	1066	BK20G06-../DPE06LA4	38	8700	9000	1.6	360	1.0
1.1	360*	1.0	1305	BK20G06-../DPE06LA4	38	8700	9000	1.3	360	1.0
1.0	360*	1.0	1424	BK20G06-../DPE06LA4	38	8700	9000	1.2	360	1.0
0.85	360*	1.0	1650	BK20G06-../DPE06LA4	38	8700	9000	1.1	360	1.0
0.7	360*	1.0	2062	BK20G06-../DPE06LA4	38	8700	9000	0.85	360	1.0
0.6	360*	1.0	2366	BK20G06-../DPE06LA4	38	8700	9000	0.75	360	1.0
0.55	360*	1.0	2580	BK20G06-../DPE06LA4	38	8700	9000	0.65	360	1.0
0.49	360*	1.0	2831	BK20G06-../DPE06LA4	38	8700	9000	0.6	360	1.0
0.45	360*	1.0	3088	BK20G06-../DPE06LA4	38	8700	9000	0.55	360	1.0

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

# BK-series bevel geared motors

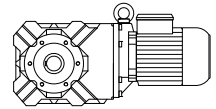
## Selection - bevel geared motors



**P = 0.12 kW**

50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
0.4	360*	1.0	3515	BK20G06-../DPE06LA4	38	8700	9000	0.48	360	1.0
0.34	360*	1.0	4094	BK20G06-../DPE06LA4	38	8700	9000	0.41	360	1.0
6.4	146	3.1	216.5	BK30Z-../DPE06LA4	41	11200	12000	7.8	120	3.8
5.5	170	2.6	255.3	BK30Z-../DPE06LA4	41	11200	12000	6.6	142	3.2
4.5	205	1.9	308.3	BK30Z-../DPE06LA4	41	11200	12000	5.5	170	2.3
3.7	250	1.6	380.7	BK30Z-../DPE06LA4	41	11200	12000	4.4	210	1.9
3.2	285	1.35	441.3	BK30Z-../DPE06LA4	41	11200	12000	3.8	240	1.6
3.0	280	1.75	471.5	BK30G06-../DPE06LA4	44	11200	12000	3.6	230	2.1
2.5	335	1.45	567.0	BK30G06-../DPE06LA4	44	11200	12000	3.0	275	1.8
2.2	380	1.3	652.5	BK30G06-../DPE06LA4	44	11200	12000	2.6	320	1.55
1.9	445	1.1	743.0	BK30G06-../DPE06LA4	44	11200	12000	2.3	365	1.35
1.8	470	1.05	810.9	BK30G06-../DPE06LA4	44	11200	12000	2.1	400	1.25
1.5	560	0.88	954.1	BK30G06-../DPE06LA4	44	11200	12000	1.8	465	1.05
1.3	490*	1.0	1142	BK30G06-../DPE06LA4	44	11200	12000	1.5	490	1.0
1.1	490*	1.0	1281	BK30G06-../DPE06LA4	44	11200	12000	1.4	490	1.0
0.9	490*	1.0	1620	BK30G06-../DPE06LA4	44	11200	12000	1.1	490	1.0
0.8	490*	1.0	1767	BK30G06-../DPE06LA4	44	11200	12000	0.95	490	1.0
0.7	490*	1.0	2024	BK30G06-../DPE06LA4	44	11200	12000	0.85	490	1.0
0.55	490*	1.0	2738	BK30G06-../DPE06LA4	44	11200	12000	0.65	490	1.0
0.47	490*	1.0	2986	BK30G06-../DPE06LA4	44	11200	12000	0.6	490	1.0
0.41	490*	1.0	3399	BK30G06-../DPE06LA4	44	11200	12000	0.5	490	1.0
0.35	490*	1.0	3959	BK30G06-../DPE06LA4	44	11200	12000	0.43	490	1.0
4.0	230	2.5	348.7	BK40Z-../DPE06LA4	64	11700	17000	4.8	193	3.0
3.3	275	2.1	430.0	BK40Z-../DPE06LA4	64	11700	17000	3.9	235	2.4
2.6	275	3.1	540.0	BK40G10-../DPE06LA4	68	11700	17000	3.1	220	3.9
2.1	350	2.4	660.2	BK40G10-../DPE06LA4	68	11700	17000	2.6	275	3.1
1.9	395	2.2	756.7	BK40G10-../DPE06LA4	68	11700	17000	2.3	315	2.7
1.7	450	1.9	838.4	BK40G10-../DPE06LA4	68	11700	17000	2.0	370	2.3
1.4	550	1.55	998.3	BK40G10-../DPE06LA4	68	11700	17000	1.7	445	1.9
1.2	650	1.3	1189	BK40G10-../DPE06LA4	68	11700	17000	1.5	510	1.65
1.0	790	1.1	1428	BK40G10-../DPE06LA4	68	11700	17000	1.2	650	1.3
0.8	850*	1.0	1798	BK40G10-../DPE06LA4	68	11700	17000	0.95	850	1.0
0.7	850*	1.0	2108	BK40G10-../DPE06LA4	68	11700	17000	0.8	850	1.0
0.6	850*	1.0	2350	BK40G10-../DPE06LA4	68	11700	17000	0.75	850	1.0
0.55	850*	1.0	2604	BK40G10-../DPE06LA4	68	11700	17000	0.65	850	1.0
0.45	850*	1.0	3077	BK40G10-../DPE06LA4	68	11700	17000	0.55	850	1.0
0.41	850*	1.0	3429	BK40G10-../DPE06LA4	68	11700	17000	0.49	850	1.0
0.37	850*	1.0	3800	BK40G10-../DPE06LA4	68	11700	17000	0.44	850	1.0
0.32	850*	1.0	4363	BK40G10-../DPE06LA4	68	11700	17000	0.39	850	1.0
3.4	265	3.2	414.8	BK50Z-../DPE06LA4	92	14100	26000	4.1	220	3.8
2.2	345	3.3	651.7	BK50G10-../DPE06LA4	96	14100	111000	2.6	280	4.1
2.0	385	3.0	722.2	BK50G10-../DPE06LA4	96	14100	111000	2.4	310	3.7
1.7	460	2.5	859.8	BK50G10-../DPE06LA4	96	14100	111000	2.0	380	3.0
1.4	560	2.1	1024	BK50G10-../DPE06LA4	96	14100	111000	1.7	460	2.5
1.2	670	1.7	1230	BK50G10-../DPE06LA4	96	14100	111000	1.4	560	2.1
1.0	800	1.45	1398	BK50G10-../DPE06LA4	96	14100	111000	1.2	660	1.75
0.9	900	1.3	1549	BK50G10-../DPE06LA4	96	14100	111000	1.1	730	1.6
0.8	1010	1.15	1816	BK50G10-../DPE06LA4	96	14100	111000	0.95	850	1.35
0.7	1150*	1.0	2024	BK50G10-../DPE06LA4	96	14100	111000	0.85	1150	1.0
0.6	1150*	1.0	2450	BK50G10-../DPE06LA4	96	14100	111000	0.7	1150	1.0
0.55	1150*	1.0	2730	BK50G10-../DPE06LA4	96	14100	111000	0.65	1150	1.0
0.46	1150*	1.0	3025	BK50G10-../DPE06LA4	96	14100	111000	0.6	1150	1.0
0.4	1150*	1.0	3492	BK50G10-../DPE06LA4	96	14100	111000	0.48	1150	1.0
0.36	1150*	1.0	3870	BK50G10-../DPE06LA4	96	14100	111000	0.44	1150	1.0
0.32	1150*	1.0	4443	BK50G10-../DPE06LA4	96	14100	111000	0.38	1150	1.0

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



### P = 0.12 kW

50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
0.9	860	2.9	1618	BK60G20-../DPE06LA4	123	16600	34000	1.1	630	4.0
0.8	970	2.6	1810	BK60G20-../DPE06LA4	123	16600	34000	0.95	740	3.4
0.7	1160	2.2	2010	BK60G20-../DPE06LA4	123	16600	34000	0.85	870	2.9
0.6	1400	1.8	2371	BK60G20-../DPE06LA4	123	16600	34000	0.75	1020	2.5
0.55	1540	1.6	2733	BK60G20-../DPE06LA4	123	16600	34000	0.65	1220	2.0
0.46	1940	1.3	3036	BK60G20-../DPE06LA4	123	16600	34000	0.6	1360	1.85
0.4	2300	1.1	3533	BK60G20-../DPE06LA4	123	16600	34000	0.48	1830	1.35
0.33	2500*	1.0	4239	BK60G20-../DPE06LA4	123	16600	34000	0.4	2500	1.0
0.28	2500*	1.0	5072	BK60G20-../DPE06LA4	123	16600	34000	0.33	2500	1.0
0.25	2500*	1.0	5721	BK60G20-../DPE06LA4	123	16600	34000	0.3	2500	1.0
0.22	2500*	1.0	6565	BK60G20-../DPE06LA4	123	16600	34000	0.26	2500	1.0
0.19	2500*	1.0	7291	BK60G20-../DPE06LA4	123	16600	34000	0.23	2500	1.0
0.18	2500*	1.0	8093	BK60G20-../DPE06LA4	123	16600	34000	0.21	2500	1.0
0.16	2500*	1.0	8990	BK60G20-../DPE06LA4	123	16600	34000	0.19	2500	1.0
0.46	1840	3.1	3041	BK70G20-../DPE06LA4	201	24100	50000	0.55	1440	4.0
0.4	2150	2.7	3505	BK70G20-../DPE06LA4	201	24100	50000	0.48	1700	3.4
0.36	2450	2.3	3894	BK70G20-../DPE06LA4	201	24100	50000	0.43	1960	2.9
0.31	2950	1.95	4531	BK70G20-../DPE06LA4	201	24100	50000	0.37	2350	2.4
0.26	3700	1.55	5436	BK70G20-../DPE06LA4	201	24100	50000	0.31	2950	1.95
0.22	4500	1.25	6504	BK70G20-../DPE06LA4	201	24100	50000	0.26	3700	1.55
0.17	5700*	1.0	8149	BK70G20-../DPE06LA4	201	24100	50000	0.21	5700	1.0
0.15	5700*	1.0	9351	BK70G20-../DPE06LA4	201	24100	50000	0.18	5700	1.0

### P = 0.18 kW

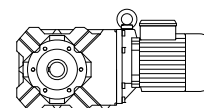
50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
143	11	7.3	9.71	BK06-../DPE07LA4	14	880	-	172	9.1	8.8
119	13.2	6.1	11.67	BK06-../DPE07LA4	14	930	-	144	10.9	7.3
91	17.1	4.7	15.29	BK06-../DPE07LA4	14	1020	-	110	14.2	5.6
77	20	4.0	18.00	BK06-../DPE07LA4	14	1080	-	93	16.6	4.8
65	23.5	3.4	21.54	BK06-../DPE07LA4	14	1150	-	78	19.8	4.0
53	29	2.8	26.36	BK06-../DPE07LA4	14	1230	-	64	24	3.3
41.5	37	2.2	33.33	BK06-../DPE07LA4	14	1320	-	51	30	2.7
36.5	42	1.9	38.18	BK06-../DPE07LA4	14	1380	-	44	35	2.3
29	52	1.55	47.78	BK06-../DPE07LA4	14	1500	-	35	43.5	1.85
25.5	59	1.15	54.38	BK06-../DPE07LA4	14	1600	-	31	49	1.4
22	69	0.92	63.33	BK06-../DPE07LA4	14	1700	-	26.5	57	1.1
22.5	67	3.0	61.68	BK10-../DPE07LA4	26	7000	-	27.5	55	3.6
19.5	77	2.6	72.31	BK10-../DPE07LA4	26	7000	-	23.5	64	3.1
15.5	96	1.85	89.30	BK10-../DPE07LA4	26	7000	-	19	78	2.3
13.5	108	1.45	102.5	BK10-../DPE07LA4	26	7000	-	16.5	88	1.8
11.5	127	1.1	120.3	BK10Z-../DPE07LA4	27	7000	-	14	104	1.3
9.7	148	1.1	143.2	BK10Z-../DPE07LA4	27	7000	-	12	120	1.35
8.1	176	1.15	170.6	BK10Z-../DPE07LA4	27	7000	-	9.8	145	1.4
6.8	205	0.98	204.7	BK10Z-../DPE07LA4	27	7000	-	8.2	171	1.15
13	113	2.8	108.6	BK20-../DPE07LA4	35	8700	9000	15.5	95	3.3
11.5	127	2.6	124.2	BK20Z-../DPE07LA4	37	8700	9000	13.5	108	3.1
9.6	150	2.2	144.5	BK20Z-../DPE07LA4	37	8700	9000	12	120	2.8
8.0	178	1.85	173.4	BK20Z-../DPE07LA4	37	8700	9000	9.7	147	2.2
6.7	210	1.55	207.5	BK20Z-../DPE07LA4	37	8700	9000	8.1	174	1.9

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

# BK-series bevel geared motors

## Selection - bevel geared motors

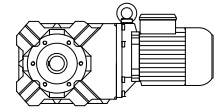
**P = 0.18 kW**



50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
5.4	260	1.25	259.9	BK20Z-../DPE07LA4	37	8700	9000	6.5	215	1.55
4.7	295	1.05	298.2	BK20Z-../DPE07LA4	37	8700	9000	5.7	240	1.3
3.8	360	0.81	367.7	BK20Z-../DPE07LA4	37	8700	9000	4.6	295	0.99
3.3	390	0.92	429.7	BK20G06-../DPE07LA4	40	8700	9000	3.9	330	1.1
2.9	445	0.81	480.4	BK20G06-../DPE07LA4	40	8700	9000	3.5	365	0.99
9.6	150	3.0	145.1	BK30Z-../DPE07LA4	44	11200	12000	12	120	3.8
7.5	190	2.4	184.8	BK30Z-../DPE07LA4	44	11200	12000	9.1	156	2.9
6.4	220	2.0	216.5	BK30Z-../DPE07LA4	44	11200	12000	7.8	180	2.5
5.5	255	1.75	255.3	BK30Z-../DPE07LA4	44	11200	12000	6.6	210	2.1
4.5	310	1.25	308.3	BK30Z-../DPE07LA4	44	11200	12000	5.5	255	1.5
3.7	375	1.05	380.7	BK30Z-../DPE07LA4	44	11200	12000	4.4	315	1.3
3.2	425	0.9	441.3	BK30Z-../DPE07LA4	44	11200	12000	3.8	360	1.05
3.0	430	1.15	471.5	BK30G06-../DPE07LA4	46	11200	12000	3.6	355	1.4
2.5	510	0.96	567.0	BK30G06-../DPE07LA4	46	11200	12000	3.0	430	1.15
2.2	580	0.84	652.5	BK30G06-../DPE07LA4	46	11200	12000	2.6	495	0.99
5.6	245	3.2	246.6	BK40Z-../DPE07LA4	66	11700	17000	6.8	200	3.9
4.8	290	2.4	289.8	BK40Z-../DPE07LA4	66	11700	17000	5.8	240	2.9
4.0	345	1.7	348.7	BK40Z-../DPE07LA4	66	11700	17000	4.8	290	2.0
3.3	415	1.4	430.0	BK40Z-../DPE07LA4	66	11700	17000	3.9	350	1.65
2.9	405	2.1	487.3	BK40G10-../DPE07LA4	71	11700	17000	3.5	325	2.6
2.6	450	1.9	540.0	BK40G10-../DPE07LA4	71	11700	17000	3.1	370	2.3
2.1	560	1.5	660.2	BK40G10-../DPE07LA4	71	11700	17000	2.6	450	1.9
1.9	630	1.35	756.7	BK40G10-../DPE07LA4	71	11700	17000	2.3	510	1.65
1.7	710	1.2	838.4	BK40G10-../DPE07LA4	71	11700	17000	2.0	590	1.45
1.4	870	0.98	998.3	BK40G10-../DPE07LA4	71	11700	17000	1.7	710	1.2
1.2	1020	0.83	1189	BK40G10-../DPE07LA4	71	11700	17000	1.5	810	1.05
4.3	320	3.2	328.2	BK50Z-../DPE07LA4	95	14100	26000	5.1	270	3.7
3.4	400	2.1	414.8	BK50Z-../DPE07LA4	95	14100	26000	4.1	335	2.5
3.0	395	2.9	465.1	BK50G10-../DPE07LA4	99	14100	111000	3.6	320	3.6
2.7	440	2.6	513.4	BK50G10-../DPE07LA4	99	14100	111000	3.3	350	3.3
2.5	480	2.4	568.6	BK50G10-../DPE07LA4	99	14100	111000	3.0	390	2.9
2.2	550	2.1	651.7	BK50G10-../DPE07LA4	99	14100	111000	2.6	455	2.5
2.0	610	1.9	722.2	BK50G10-../DPE07LA4	99	14100	111000	2.4	500	2.3
1.7	720	1.6	859.8	BK50G10-../DPE07LA4	99	14100	111000	2.0	600	1.9
1.4	880	1.3	1024	BK50G10-../DPE07LA4	99	14100	111000	1.7	720	1.6
1.2	1030	1.1	1230	BK50G10-../DPE07LA4	99	14100	111000	1.4	880	1.3
1.0	1240	0.93	1398	BK50G10-../DPE07LA4	99	14100	111000	1.2	1030	1.1
1.4	920	2.7	1016	BK60G20-../DPE07LA4	125	16600	34000	1.7	710	3.5
1.1	1220	2.0	1322	BK60G20-../DPE07LA4	125	16600	34000	1.3	980	2.6
0.9	1500	1.65	1618	BK60G20-../DPE07LA4	125	16600	34000	1.1	1150	2.2
0.8	1690	1.5	1810	BK60G20-../DPE07LA4	125	16600	34000	0.95	1350	1.85
0.7	1980	1.25	2010	BK60G20-../DPE07LA4	125	16600	34000	0.85	1550	1.6
0.6	2350	1.05	2371	BK60G20-../DPE07LA4	125	16600	34000	0.75	1790	1.4
0.7	1940	2.9	2040	BK70G20-../DPE07LA4	204	24100	50000	0.85	1500	3.8
0.55	2500	2.3	2578	BK70G20-../DPE07LA4	204	24100	50000	0.65	2000	2.9
0.46	3050	1.85	3041	BK70G20-../DPE07LA4	204	24100	50000	0.55	2450	2.3
0.4	3600	1.6	3505	BK70G20-../DPE07LA4	204	24100	50000	0.48	2850	2.0
0.36	4050	1.4	3894	BK70G20-../DPE07LA4	204	24100	50000	0.43	3250	1.75
0.31	4800	1.2	4531	BK70G20-../DPE07LA4	204	24100	50000	0.37	3900	1.45

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





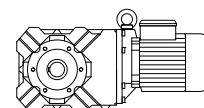
**P = 0.25 kW**

50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
196	11.2	6.5	7.25	BK06-../DPE08MA4	15	800	-	240	9.1	8.0
147	14.9	5.4	9.71	BK06-../DPE08MA4	15	880	-	177	12.4	6.5
122	18	4.4	11.67	BK06-../DPE08MA4	15	930	-	147	14.9	5.4
93	23	3.5	15.29	BK06-../DPE08MA4	15	1020	-	112	19.3	4.1
79	27	3.0	18.00	BK06-../DPE08MA4	15	1080	-	95	22.5	3.6
66	32.5	2.5	21.54	BK06-../DPE08MA4	15	1150	-	80	26.5	3.0
54	39.5	2.0	26.36	BK06-../DPE08MA4	15	1230	-	65	33	2.4
43	49.5	1.6	33.33	BK06-../DPE08MA4	15	1320	-	52	41	1.95
37.5	57	1.4	38.18	BK06-../DPE08MA4	15	1380	-	45	47.5	1.7
30	70	1.15	47.78	BK06-../DPE08MA4	15	1500	-	36	59	1.35
35	61	3.3	40.79	BK10-../DPE08MA4	27	6000	-	42	51	3.9
29.5	72	2.8	48.96	BK10-../DPE08MA4	27	6400	-	35	60	3.3
23.5	90	2.2	61.68	BK10-../DPE08MA4	27	7000	-	28	75	2.7
20	105	1.9	72.31	BK10-../DPE08MA4	27	7000	-	24	87	2.3
16	129	1.4	89.30	BK10-../DPE08MA4	27	7000	-	19.5	106	1.7
12	169	0.81	120.3	BK10Z-../DPE08MA4	28	7000	-	14.5	139	0.99
10	200	0.82	143.2	BK10Z-../DPE08MA4	28	7000	-	12	167	0.98
8.4	235	0.85	170.6	BK10Z-../DPE08MA4	28	7000	-	10.5	188	1.05
18.5	113	2.9	76.79	BK20-../DPE08MA4	36	7500	9000	22.5	93	3.5
16.5	125	2.6	88.12	BK20-../DPE08MA4	36	8000	9000	19.5	106	3.1
13.5	152	2.1	108.6	BK20-../DPE08MA4	36	8700	9000	16	128	2.5
11.5	176	1.9	124.2	BK20Z-../DPE08MA4	38	8700	9000	14	144	2.3
9.9	200	1.65	144.5	BK20Z-../DPE08MA4	38	8700	9000	12	167	2.0
8.2	240	1.4	173.4	BK20Z-../DPE08MA4	38	8700	9000	9.9	200	1.65
6.9	280	1.2	207.5	BK20Z-../DPE08MA4	38	8700	9000	8.3	235	1.4
5.5	355	0.93	259.9	BK20Z-../DPE08MA4	38	8700	9000	6.6	295	1.1
14	144	3.1	102.4	BK30-../DPE08MA4	42	11200	12000	17	119	3.8
11.5	176	2.6	123.9	BK30Z-../DPE08MA4	45	11200	12000	14	144	3.1
9.8	200	2.3	145.1	BK30Z-../DPE08MA4	45	11200	12000	12	167	2.7
7.7	255	1.75	184.8	BK30Z-../DPE08MA4	45	11200	12000	9.3	210	2.1
6.6	295	1.55	216.5	BK30Z-../DPE08MA4	45	11200	12000	7.9	245	1.85
5.6	345	1.3	255.3	BK30Z-../DPE08MA4	45	11200	12000	6.7	290	1.55
4.7	415	0.93	308.3	BK30Z-../DPE08MA4	45	11200	12000	5.6	345	1.1
3.8	500	0.81	380.7	BK30Z-../DPE08MA4	45	11200	12000	4.5	425	0.95
3.1	590	0.83	471.5	BK30G06-../DPE08MA4	50	11200	12000	3.7	495	0.99
6.8	285	2.7	211.5	BK40Z-../DPE08MA4	67	11700	17000	8.1	240	3.3
5.8	330	2.4	246.6	BK40Z-../DPE08MA4	67	11700	17000	7.0	275	2.8
4.9	390	1.75	289.8	BK40Z-../DPE08MA4	67	11700	17000	6.0	320	2.1
4.1	470	1.25	348.7	BK40Z-../DPE08MA4	67	11700	17000	5.0	385	1.5
3.4	560	1.0	430.0	BK40Z-../DPE08MA4	67	11700	17000	4.0	475	1.2
3.0	560	1.5	487.3	BK40G10-../DPE08MA4	72	11700	17000	3.6	465	1.85
2.7	630	1.35	540.0	BK40G10-../DPE08MA4	72	11700	17000	3.2	520	1.65
2.2	780	1.1	660.2	BK40G10-../DPE08MA4	72	11700	17000	2.6	650	1.3
1.9	900	0.94	756.7	BK40G10-../DPE08MA4	72	11700	17000	2.3	740	1.15
1.7	1010	0.84	838.4	BK40G10-../DPE08MA4	72	11700	17000	2.1	810	1.05
5.4	355	3.0	264.5	BK50Z-../DPE08MA4	96	14100	26000	6.5	295	3.6
4.4	435	2.3	328.2	BK50Z-../DPE08MA4	96	14100	26000	5.3	360	2.8
3.5	540	1.55	414.8	BK50Z-../DPE08MA4	96	14100	26000	4.2	450	1.9
3.1	550	2.1	465.1	BK50G10-../DPE08MA4	100	14100	111000	3.7	455	2.5
2.8	610	1.9	513.4	BK50G10-../DPE08MA4	100	14100	111000	3.4	495	2.3
2.5	690	1.65	568.6	BK50G10-../DPE08MA4	100	14100	111000	3.1	550	2.1

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

# BK-series bevel geared motors

## Selection - bevel geared motors



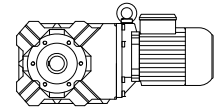
**P = 0.25 kW**

50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
2.2	780	1.45	651.7	BK50G10-../DPE08MA4	100	14100	111000	2.7	630	1.85
2.0	870	1.3	722.2	BK50G10-../DPE08MA4	100	14100	111000	2.4	710	1.6
1.7	1020	1.15	859.8	BK50G10-../DPE08MA4	100	14100	111000	2.0	860	1.35
1.4	1250	0.92	1024	BK50G10-../DPE08MA4	100	14100	111000	1.7	1020	1.15
3.1	770	3.0	460.4	BK60Z-../DPE08MA4	119	16600	34000	3.8	620	3.7
2.9	820	2.8	498.0	BK60Z-../DPE08MA4	119	16600	34000	3.5	680	3.4
2.6	910	2.5	557.2	BK60Z-../DPE08MA4	119	16600	34000	3.1	770	3.0
2.3	770	3.2	621.5	BK60G20-../DPE08MA4	126	16600	34000	2.8	590	4.2
1.9	940	2.7	752.1	BK60G20-../DPE08MA4	126	16600	34000	2.3	720	3.5
1.6	1150	2.2	887.8	BK60G20-../DPE08MA4	126	16600	34000	2.0	850	2.9
1.4	1400	1.8	1016	BK60G20-../DPE08MA4	126	16600	34000	1.7	1100	2.3
1.1	1830	1.35	1322	BK60G20-../DPE08MA4	126	16600	34000	1.3	1500	1.65
0.9	2200	1.15	1618	BK60G20-../DPE08MA4	126	16600	34000	1.1	1760	1.4
1.0	1950	2.9	1457	BK70G20-../DPE08MA4	205	24100	50000	1.2	1560	3.7
0.85	2350	2.4	1696	BK70G20-../DPE08MA4	205	24100	50000	1.1	1740	3.3
0.7	2850	2.0	2040	BK70G20-../DPE08MA4	205	24100	50000	0.85	2250	2.5
0.6	3350	1.7	2578	BK70G20-../DPE08MA4	205	24100	50000	0.7	2800	2.0
0.47	4400	1.3	3041	BK70G20-../DPE08MA4	205	24100	50000	0.6	3300	1.75
0.41	5100	1.1	3505	BK70G20-../DPE08MA4	205	24100	50000	0.49	4150	1.35
0.46	3700	3.1	3120	BK80G40-../DPE08MA4	347	30000	75000	0.55	2850	4.0
0.38	4800	2.4	3776	BK80G40-../DPE08MA4	347	30000	75000	0.46	3700	3.1
0.32	6000	1.9	4461	BK80G40-../DPE08MA4	347	30000	75000	0.39	4650	2.5
0.29	6700	1.7	5032	BK80G40-../DPE08MA4	347	30000	75000	0.34	5500	2.1
0.25	8000	1.45	5865	BK80G40-../DPE08MA4	347	30000	75000	0.3	6500	1.75
0.21	9900	1.15	6893	BK80G40-../DPE08MA4	347	30000	75000	0.25	8000	1.45
0.19	11100	1.05	7652	BK80G40-../DPE08MA4	347	30000	75000	0.23	8900	1.3
0.29	6100	3.0	4952	BK90G50-../DPE08MA4	620	49400	120000	0.35	4700	3.9
0.26	7000	2.6	5491	BK90G50-../DPE08MA4	620	49400	120000	0.32	5300	3.5
0.23	8200	2.3	6335	BK90G50-../DPE08MA4	620	49400	120000	0.27	6700	2.8
0.21	9200	2.0	7022	BK90G50-../DPE08MA4	620	49400	120000	0.25	7400	2.5
0.19	10400	1.8	7862	BK90G50-../DPE08MA4	620	49400	120000	0.22	8700	2.1
0.15	13800	1.35	9935	BK90G50-../DPE08MA4	620	49400	120000	0.18	11100	1.65

**P = 0.37 kW**

50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
196	16.5	4.4	7.25	BK06-../DPE08LA4	16	800	-	240	13.5	5.4
147	22	3.6	9.71	BK06-../DPE08LA4	16	880	-	177	18.3	4.4
122	26.5	3.0	11.67	BK06-../DPE08LA4	16	930	-	147	22	3.6
93	34.5	2.3	15.29	BK06-../DPE08LA4	16	1020	-	112	28.5	2.8
79	40	2.0	18.00	BK06-../DPE08LA4	16	1080	-	95	33	2.4
66	48	1.65	21.54	BK06-../DPE08LA4	16	1150	-	80	39.5	2.0
54	58	1.4	26.36	BK06-../DPE08LA4	16	1230	-	65	48.5	1.65
43	73	1.1	33.33	BK06-../DPE08LA4	16	1320	-	52	61	1.3
37.5	84	0.95	38.18	BK06-../DPE08LA4	16	1380	-	45	70	1.15
49.5	64	3.1	28.76	BK10-../DPE08LA4	28	5200	-	60	53	3.8
41.5	76	2.6	34.25	BK10-../DPE08LA4	28	5600	-	50	63	3.2
35	90	2.2	40.79	BK10-../DPE08LA4	28	6000	-	42	75	2.7
29.5	106	1.9	48.96	BK10-../DPE08LA4	28	6400	-	35	89	2.2

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



**P = 0.37 kW**

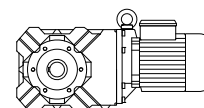
50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
23.5	133	1.5	61.68	BK10-../DPE08LA4	28	7000	-	28	112	1.8
20	155	1.3	72.31	BK10-../DPE08LA4	28	7000	-	24	129	1.55
16	192	0.93	89.30	BK10-../DPE08LA4	28	7000	-	19.5	157	1.15
28	112	2.9	51.22	BK20-../DPE08LA4	38	6300	9000	33.5	93	3.5
23.5	133	2.5	61.30	BK20-../DPE08LA4	38	6500	9000	28	112	2.9
18.5	168	1.95	76.79	BK20-../DPE08LA4	38	7500	9000	22.5	138	2.4
16.5	186	1.75	88.12	BK20-../DPE08LA4	38	8000	9000	19.5	157	2.1
13.5	225	1.4	108.6	BK20-../DPE08LA4	38	8700	9000	16	189	1.65
11.5	260	1.25	124.2	BK20Z-../DPE08LA4	40	8700	9000	14	210	1.55
9.9	295	1.1	144.5	BK20Z-../DPE08LA4	40	8700	9000	12	245	1.35
8.2	355	0.93	173.4	BK20Z-../DPE08LA4	40	8700	9000	9.9	295	1.1
6.9	415	0.8	207.5	BK20Z-../DPE08LA4	40	8700	9000	8.3	345	0.96
20	153	2.9	71.56	BK30-../DPE08LA4	44	9700	12000	24	128	3.5
16.5	184	2.4	88.38	BK30-../DPE08LA4	44	10600	12000	19.5	155	2.9
14	210	2.1	102.4	BK30-../DPE08LA4	44	11200	12000	17	176	2.6
11.5	260	1.75	123.9	BK30Z-../DPE08LA4	46	11200	12000	14	210	2.1
9.8	300	1.5	145.1	BK30Z-../DPE08LA4	46	11200	12000	12	245	1.85
7.7	380	1.2	184.8	BK30Z-../DPE08LA4	46	11200	12000	9.3	315	1.45
6.6	435	1.05	216.5	BK30Z-../DPE08LA4	46	11200	12000	7.9	365	1.25
5.6	510	0.88	255.3	BK30Z-../DPE08LA4	46	11200	12000	6.7	430	1.05
12.5	240	3.3	118.2	BK40Z-../DPE08LA4	69	11700	17000	14.5	205	3.8
10	295	2.6	143.0	BK40Z-../DPE08LA4	69	11700	17000	12	245	3.2
8.5	345	2.3	169.0	BK40Z-../DPE08LA4	69	11700	17000	10.5	275	2.8
6.8	425	1.85	211.5	BK40Z-../DPE08LA4	69	11700	17000	8.1	355	2.2
5.8	490	1.6	246.6	BK40Z-../DPE08LA4	69	11700	17000	7.0	405	1.95
4.9	580	1.2	289.8	BK40Z-../DPE08LA4	69	11700	17000	6.0	475	1.45
4.1	690	0.84	348.7	BK40Z-../DPE08LA4	69	11700	17000	5.0	570	1.0
3.0	870	0.98	487.3	BK40G10-../DPE08LA4	73	11700	17000	3.6	720	1.2
2.7	960	0.89	540.0	BK40G10-../DPE08LA4	73	11700	17000	3.2	810	1.05
9.3	315	3.3	153.3	BK50Z-../DPE08LA4	98	14100	26000	11.5	255	4.1
6.9	415	2.5	206.8	BK50Z-../DPE08LA4	98	14100	26000	8.3	345	3.0
5.4	530	2.0	264.5	BK50Z-../DPE08LA4	98	14100	26000	6.5	440	2.4
4.4	650	1.55	328.2	BK50Z-../DPE08LA4	98	14100	26000	5.3	540	1.85
3.5	800	1.05	414.8	BK50Z-../DPE08LA4	98	14100	26000	4.2	670	1.25
3.1	840	1.35	465.1	BK50G10-../DPE08LA4	102	14100	111000	3.7	700	1.65
2.8	940	1.2	513.4	BK50G10-../DPE08LA4	102	14100	111000	3.4	770	1.5
2.5	1050	1.1	568.6	BK50G10-../DPE08LA4	102	14100	111000	3.1	840	1.35
2.2	1190	0.97	651.7	BK50G10-../DPE08LA4	102	14100	111000	2.7	970	1.2
2.0	1310	0.88	722.2	BK50G10-../DPE08LA4	102	14100	111000	2.4	1090	1.05
4.5	780	2.9	317.7	BK60Z-../DPE08LA4	120	16600	34000	5.4	650	3.5
4.0	880	2.6	355.5	BK60Z-../DPE08LA4	120	16600	34000	4.9	720	3.2
3.5	1000	2.3	411.5	BK60Z-../DPE08LA4	120	16600	34000	4.2	840	2.7
3.1	1130	2.0	460.4	BK60Z-../DPE08LA4	120	16600	34000	3.8	920	2.5
2.9	1210	1.9	498.0	BK60Z-../DPE08LA4	120	16600	34000	3.5	1000	2.3
2.6	1350	1.7	557.2	BK60Z-../DPE08LA4	120	16600	34000	3.1	1130	2.0
2.3	1270	1.95	621.5	BK60G20-../DPE08LA4	128	16600	34000	2.8	1000	2.5
1.9	1540	1.6	752.1	BK60G20-../DPE08LA4	128	16600	34000	2.3	1220	2.0
1.6	1870	1.35	887.8	BK60G20-../DPE08LA4	128	16600	34000	2.0	1430	1.75
1.4	2200	1.15	1016	BK60G20-../DPE08LA4	128	16600	34000	1.7	1770	1.4
1.1	2850	0.88	1322	BK60G20-../DPE08LA4	128	16600	34000	1.3	2350	1.05
2.0	1760	3.0	733.6	BK70Z-../DPE08LA4	208	24100	50000	2.4	1470	3.5

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

# BK-series bevel geared motors

## Selection - bevel geared motors

**P = 0.37 kW**

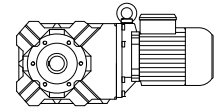


50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
1.7	1720	3.3	847.7	BK70G20-../DPE08LA4	206	24100	50000	2.1	1320	4.3
1.5	1950	2.9	964.6	BK70G20-../DPE08LA4	206	24100	50000	1.8	1550	3.7
1.3	2250	2.5	1139	BK70G20-../DPE08LA4	206	24100	50000	1.6	1770	3.2
1.2	2550	2.2	1280	BK70G20-../DPE08LA4	206	24100	50000	1.4	2100	2.7
1.0	3100	1.85	1457	BK70G20-../DPE08LA4	206	24100	50000	1.2	2500	2.3
0.85	3700	1.55	1696	BK70G20-../DPE08LA4	206	24100	50000	1.1	2750	2.1
0.7	4500	1.25	2040	BK70G20-../DPE08LA4	206	24100	50000	0.85	3600	1.6
0.6	5200	1.1	2578	BK70G20-../DPE08LA4	206	24100	50000	0.7	4400	1.3
0.65	4000	2.9	2205	BK80G40-../DPE08LA4	348	30000	75000	0.8	3000	3.8
0.6	4400	2.6	2449	BK80G40-../DPE08LA4	348	30000	75000	0.7	3600	3.2
0.55	4950	2.3	2811	BK80G40-../DPE08LA4	348	30000	75000	0.65	3950	2.9
0.46	6200	1.85	3120	BK80G40-../DPE08LA4	348	30000	75000	0.55	4950	2.3
0.38	7800	1.45	3776	BK80G40-../DPE08LA4	348	30000	75000	0.46	6200	1.85
0.32	9500	1.2	4461	BK80G40-../DPE08LA4	348	30000	75000	0.39	7600	1.5
0.29	10700	1.05	5032	BK80G40-../DPE08LA4	348	30000	75000	0.34	8900	1.3
0.39	6900	2.7	3672	BK90G50-../DPE08LA4	621	49400	120000	0.47	5400	3.4
0.35	7900	2.3	4070	BK90G50-../DPE08LA4	621	49400	120000	0.43	6100	3.0
0.29	10000	1.85	4952	BK90G50-../DPE08LA4	621	49400	120000	0.35	7900	2.3
0.26	11400	1.6	5491	BK90G50-../DPE08LA4	621	49400	120000	0.32	8900	2.1
0.23	13200	1.4	6335	BK90G50-../DPE08LA4	621	49400	120000	0.27	10900	1.7
0.21	14700	1.25	7022	BK90G50-../DPE08LA4	621	49400	120000	0.25	12000	1.55
0.19	16400	1.15	7862	BK90G50-../DPE08LA4	621	49400	120000	0.22	13900	1.35

**P = 0.55 kW**

50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
196	24.5	3.0	7.25	BK06-../DPE08XA4	18	800	-	240	20	3.7
147	32.5	2.5	9.71	BK06-../DPE08XA4	18	880	-	177	27	3.0
122	39.5	2.0	11.67	BK06-../DPE08XA4	18	930	-	147	32.5	2.5
93	51	1.55	15.29	BK06-../DPE08XA4	18	1020	-	112	42.5	1.9
79	59	1.35	18.00	BK06-../DPE08XA4	18	1080	-	95	49.5	1.6
66	71	1.15	21.54	BK06-../DPE08XA4	18	1150	-	80	59	1.35
54	87	0.92	26.36	BK06-../DPE08XA4	18	1230	-	65	72	1.1
120	40	2.9	11.93	BK10-../DPE08XA4	30	3100	-	144	33.5	3.4
84	56	2.4	16.92	BK10-../DPE08XA4	30	3700	-	102	46	3.0
77	61	3.3	18.52	BK10-../DPE08XA4	30	4300	-	93	50	4.0
63	75	2.7	22.65	BK10-../DPE08XA4	30	4650	-	76	62	3.2
49.5	95	2.1	28.76	BK10-../DPE08XA4	30	5200	-	60	78	2.6
41.5	113	1.75	34.25	BK10-../DPE08XA4	30	5600	-	50	94	2.1
35	135	1.5	40.79	BK10-../DPE08XA4	30	6000	-	42	112	1.8
29.5	158	1.25	48.96	BK10-../DPE08XA4	30	6400	-	35	133	1.5
23.5	198	1.0	61.68	BK10-../DPE08XA4	30	7000	-	28	166	1.2
20	230	0.87	72.31	BK10-../DPE08XA4	30	7000	-	24	192	1.05
39	121	2.7	36.69	BK20-../DPE08XA4	39	5400	9000	47	100	3.3
33.5	141	2.3	42.70	BK20-../DPE08XA4	39	5800	9000	40.5	116	2.8
28	166	2.0	51.22	BK20-../DPE08XA4	39	6300	9000	33.5	139	2.4
23.5	198	1.65	61.30	BK20-../DPE08XA4	39	6500	9000	28	166	2.0
18.5	245	1.35	76.79	BK20-../DPE08XA4	39	7500	9000	22.5	205	1.6
16.5	275	1.2	88.12	BK20-../DPE08XA4	39	8000	9000	19.5	230	1.45
13.5	330	0.95	108.6	BK20-../DPE08XA4	39	8700	9000	16	280	1.15

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



**P = 0.55 kW**

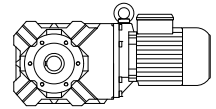
50 Hz			i	Type	m kg	F <sub>RN</sub> N	F <sub>RV</sub> N	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
11.5	385	0.86	124.2	BK20Z-../DPE08XA4	41	8700	9000	14	315	1.05
33.5	139	3.2	42.89	BK30-../DPE08XA4	45	7800	12000	40	116	3.9
28.5	162	2.8	50.27	BK30-../DPE08XA4	45	8300	12000	34.5	133	3.4
24	192	2.3	59.27	BK30-../DPE08XA4	45	8900	12000	29	159	2.8
20	225	2.0	71.56	BK30-../DPE08XA4	45	9700	12000	24	190	2.4
16.5	270	1.65	88.38	BK30-../DPE08XA4	45	10600	12000	19.5	230	1.95
14	315	1.45	102.4	BK30-../DPE08XA4	45	11200	12000	17	260	1.75
11.5	385	1.15	123.9	BK30Z-../DPE08XA4	48	11200	12000	14	315	1.45
9.8	450	1.0	145.1	BK30Z-../DPE08XA4	48	11200	12000	12	365	1.25
7.7	560	0.8	184.8	BK30Z-../DPE08XA4	48	11200	12000	9.3	465	0.97
17	265	2.9	84.36	BK40-../DPE08XA4	65	10700	17000	20.5	220	3.5
14	315	2.5	104.0	BK40-../DPE08XA4	65	11700	17000	16.5	270	2.9
12.5	355	2.2	118.2	BK40Z-../DPE08XA4	70	11700	17000	14.5	305	2.6
10	440	1.75	143.0	BK40Z-../DPE08XA4	70	11700	17000	12	365	2.1
8.5	510	1.55	169.0	BK40Z-../DPE08XA4	70	11700	17000	10.5	415	1.9
6.8	630	1.25	211.5	BK40Z-../DPE08XA4	70	11700	17000	8.1	530	1.45
5.8	730	1.05	246.6	BK40Z-../DPE08XA4	70	11700	17000	7.0	600	1.3
4.9	860	0.8	289.8	BK40Z-../DPE08XA4	70	11700	17000	6.0	700	0.98
12.5	355	3.0	115.4	BK50Z-../DPE08XA4	98	14100	26000	15	295	3.6
9.3	465	2.3	153.3	BK50Z-../DPE08XA4	98	14100	26000	11.5	375	2.8
6.9	620	1.7	206.8	BK50Z-../DPE08XA4	98	14100	26000	8.3	510	2.1
5.4	780	1.35	264.5	BK50Z-../DPE08XA4	98	14100	26000	6.5	650	1.6
4.4	960	1.05	328.2	BK50Z-../DPE08XA4	98	14100	26000	5.3	800	1.25
3.1	1290	0.89	465.1	BK50G10-../DPE08XA4	103	14100	111000	3.7	1080	1.05
2.8	1420	0.81	513.4	BK50G10-../DPE08XA4	103	14100	111000	3.4	1170	0.98
7.0	750	3.1	205.0	BK60Z-../DPE08XA4	121	16600	34000	8.4	620	3.7
6.0	870	2.6	239.7	BK60Z-../DPE08XA4	121	16600	34000	7.2	720	3.2
5.3	990	2.3	268.2	BK60Z-../DPE08XA4	121	16600	34000	6.4	820	2.8
4.5	1160	2.0	317.7	BK60Z-../DPE08XA4	121	16600	34000	5.4	970	2.4
4.0	1310	1.75	355.5	BK60Z-../DPE08XA4	121	16600	34000	4.9	1070	2.1
3.5	1500	1.55	411.5	BK60Z-../DPE08XA4	121	16600	34000	4.2	1250	1.85
3.1	1690	1.35	460.4	BK60Z-../DPE08XA4	121	16600	34000	3.8	1380	1.65
2.9	1810	1.25	498.0	BK60Z-../DPE08XA4	121	16600	34000	3.5	1500	1.55
2.6	2000	1.15	557.2	BK60Z-../DPE08XA4	121	16600	34000	3.1	1690	1.35
2.3	2000	1.25	621.5	BK60G20-../DPE08XA4	129	16600	34000	2.8	1610	1.55
1.9	2400	1.05	752.1	BK60G20-../DPE08XA4	129	16600	34000	2.3	1960	1.3
1.6	2900	0.86	887.8	BK60G20-../DPE08XA4	129	16600	34000	2.0	2250	1.1
3.3	1590	3.3	432.1	BK70Z-../DPE08XA4	210	24100	50000	4.0	1310	4.0
2.9	1810	2.9	501.8	BK70Z-../DPE08XA4	210	24100	50000	3.5	1500	3.5
2.5	2100	2.5	570.8	BK70Z-../DPE08XA4	210	24100	50000	3.0	1750	3.0
2.3	2250	2.3	644.9	BK70Z-../DPE08XA4	210	24100	50000	2.7	1940	2.7
2.0	2600	2.0	733.6	BK70Z-../DPE08XA4	210	24100	50000	2.4	2150	2.4
1.7	2700	2.1	847.7	BK70G20-../DPE08XA4	207	24100	50000	2.1	2100	2.7
1.5	3050	1.85	964.6	BK70G20-../DPE08XA4	207	24100	50000	1.8	2500	2.3
1.3	3600	1.6	1139	BK70G20-../DPE08XA4	207	24100	50000	1.6	2850	2.0
1.2	4000	1.45	1280	BK70G20-../DPE08XA4	207	24100	50000	1.4	3350	1.7
1.0	4800	1.2	1457	BK70G20-../DPE08XA4	207	24100	50000	1.2	3900	1.45
1.1	3750	3.1	1307	BK80G40-../DPE08XA4	349	30000	75000	1.4	2700	4.3
1.0	4050	2.8	1425	BK80G40-../DPE08XA4	349	30000	75000	1.2	3150	3.7
0.9	4600	2.5	1583	BK80G40-../DPE08XA4	349	30000	75000	1.1	3550	3.2

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

# BK-series bevel geared motors

## Selection - bevel geared motors

**P = 0.55 kW**



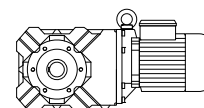
50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
0.8	5200	2.2	1775	BK80G40-../DPE08XA4	349	30000	75000	1.0	3950	2.9
0.65	6600	1.75	2205	BK80G40-../DPE08XA4	349	30000	75000	0.8	5100	2.3
0.6	7300	1.6	2449	BK80G40-../DPE08XA4	349	30000	75000	0.7	6000	1.9
0.55	8000	1.45	2811	BK80G40-../DPE08XA4	349	30000	75000	0.65	6600	1.75
0.46	9900	1.15	3120	BK80G40-../DPE08XA4	349	30000	75000	0.55	8000	1.45
0.55	7400	2.5	2764	BK90G50-../DPE08XA4	622	49400	120000	0.65	5900	3.1
0.47	9000	2.1	3065	BK90G50-../DPE08XA4	622	49400	120000	0.6	6600	2.8
0.39	11300	1.65	3672	BK90G50-../DPE08XA4	622	49400	120000	0.47	9000	2.1
0.35	12900	1.45	4070	BK90G50-../DPE08XA4	622	49400	120000	0.43	10100	1.85
0.29	16000	1.15	4952	BK90G50-../DPE08XA4	622	49400	120000	0.35	12900	1.45
0.26	18000	1.05	5491	BK90G50-../DPE08XA4	622	49400	120000	0.32	14300	1.3

**P = 0.75 kW**

50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
196	33.5	2.2	7.25	BK06-../DPE08XB4	18	800	-	240	27	2.7
147	44.5	1.8	9.71	BK06-../DPE08XB4	18	880	-	177	37	2.2
122	54	1.5	11.67	BK06-../DPE08XB4	18	930	-	147	44.5	1.8
93	70	1.15	15.29	BK06-../DPE08XB4	18	1020	-	112	58	1.4
79	81	0.99	18.00	BK06-../DPE08XB4	18	1080	-	95	67	1.2
66	97	0.82	21.54	BK06-../DPE08XB4	18	1150	-	80	80	1.0
185	35.5	3.2	7.68	BK10-../DPE08XB4	30	2400	-	225	29	4.0
152	43	2.7	9.40	BK10-../DPE08XB4	30	2700	-	182	36	3.2
120	54	2.1	11.93	BK10-../DPE08XB4	30	3100	-	144	45.5	2.5
98	65	3.1	14.50	BK10-../DPE08XB4	30	3900	-	118	54	3.7
84	76	1.8	16.92	BK10-../DPE08XB4	30	3700	-	102	63	2.2
77	83	2.4	18.52	BK10-../DPE08XB4	30	4300	-	93	69	2.9
63	102	1.95	22.65	BK10-../DPE08XB4	30	4650	-	76	84	2.4
49.5	130	1.55	28.76	BK10-../DPE08XB4	30	5200	-	60	107	1.85
41.5	155	1.3	34.25	BK10-../DPE08XB4	30	5600	-	50	128	1.55
35	184	1.1	40.79	BK10-../DPE08XB4	30	6000	-	42	153	1.3
29.5	215	0.93	48.96	BK10-../DPE08XB4	30	6400	-	35	182	1.1
82	79	2.9	17.42	BK20-../DPE08XB4	39	3250	9000	99	65	3.6
59	109	3.0	24.29	BK20-../DPE08XB4	39	4500	9000	71	90	3.7
50	128	2.6	28.66	BK20-../DPE08XB4	39	4850	9000	60	107	3.1
39	165	2.0	36.69	BK20-../DPE08XB4	39	5400	9000	47	137	2.4
33.5	192	1.7	42.70	BK20-../DPE08XB4	39	5800	9000	40.5	159	2.1
28	225	1.45	51.22	BK20-../DPE08XB4	39	6300	9000	33.5	190	1.75
23.5	270	1.2	61.30	BK20-../DPE08XB4	39	6500	9000	28	225	1.45
18.5	340	0.97	76.79	BK20-../DPE08XB4	39	7500	9000	22.5	280	1.2
16.5	375	0.88	88.12	BK20-../DPE08XB4	39	8000	9000	19.5	315	1.05
42.5	151	3.0	33.70	BK30-../DPE08XB4	45	7000	12000	51	126	3.6
33.5	190	2.4	42.89	BK30-../DPE08XB4	45	7800	12000	40	159	2.8
28.5	220	2.0	50.27	BK30-../DPE08XB4	45	8300	12000	34.5	182	2.5
24	260	1.75	59.27	BK30-../DPE08XB4	45	8900	12000	29	215	2.1
20	310	1.45	71.56	BK30-../DPE08XB4	45	9700	12000	24	255	1.75
16.5	370	1.2	88.38	BK30-../DPE08XB4	45	10600	12000	19.5	315	1.45
14	430	1.05	102.4	BK30-../DPE08XB4	45	11200	12000	17	355	1.25
11.5	520	0.87	123.9	BK30Z-../DPE08XB4	48	11200	12000	14	430	1.05

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

**P = 0.75 kW**



50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
24	260	3.0	59.66	BK40-../DPE08XB4	66	9100	17000	29	215	3.6
20.5	300	2.6	70.11	BK40-../DPE08XB4	66	9800	17000	24.5	250	3.1
17	365	2.1	84.36	BK40-../DPE08XB4	66	10700	17000	20.5	300	2.6
14	430	1.8	104.0	BK40-../DPE08XB4	66	11700	17000	16.5	365	2.1
12.5	485	1.6	118.2	BK40Z-../DPE08XB4	70	11700	17000	14.5	415	1.9
10	600	1.3	143.0	BK40Z-../DPE08XB4	70	11700	17000	12	500	1.55
8.5	690	1.15	169.0	BK40Z-../DPE08XB4	70	11700	17000	10.5	560	1.4
6.8	860	0.91	211.5	BK40Z-../DPE08XB4	70	11700	17000	8.1	720	1.1
19	325	3.2	75.40	BK50-../DPE08XB4	94	12600	26000	23	270	3.9
15	410	2.6	95.29	BK50-../DPE08XB4	94	14100	26000	18	340	3.1
12.5	485	2.2	115.4	BK50Z-../DPE08XB4	99	14100	26000	15	405	2.6
9.3	630	1.65	153.3	BK50Z-../DPE08XB4	99	14100	26000	11.5	510	2.1
6.9	850	1.25	206.8	BK50Z-../DPE08XB4	99	14100	26000	8.3	700	1.5
5.4	1070	0.98	264.5	BK50Z-../DPE08XB4	99	14100	26000	6.5	890	1.2
9.3	770	3.0	153.7	BK60Z-../DPE08XB4	122	16600	34000	11.5	620	3.7
7.8	910	2.5	183.2	BK60Z-../DPE08XB4	122	16600	34000	9.4	760	3.0
7.0	1020	2.3	205.0	BK60Z-../DPE08XB4	122	16600	34000	8.4	850	2.7
6.0	1190	1.95	239.7	BK60Z-../DPE08XB4	122	16600	34000	7.2	990	2.3
5.3	1350	1.7	268.2	BK60Z-../DPE08XB4	122	16600	34000	6.4	1110	2.1
4.5	1590	1.45	317.7	BK60Z-../DPE08XB4	122	16600	34000	5.4	1320	1.75
4.0	1790	1.3	355.5	BK60Z-../DPE08XB4	122	16600	34000	4.9	1460	1.6
3.5	2000	1.15	411.5	BK60Z-../DPE08XB4	122	16600	34000	4.2	1700	1.35
3.1	2300	1.0	460.4	BK60Z-../DPE08XB4	122	16600	34000	3.8	1880	1.2
2.9	2450	0.94	498.0	BK60Z-../DPE08XB4	122	16600	34000	3.5	2000	1.15
2.6	2750	0.84	557.2	BK60Z-../DPE08XB4	122	16600	34000	3.1	2300	1.0
2.3	2850	0.88	621.5	BK60G20-../DPE08XB4	129	16600	34000	2.8	2250	1.1
4.3	1660	3.1	333.6	BK70Z-../DPE08XB4	210	24100	50000	5.2	1370	3.8
3.8	1880	2.8	379.9	BK70Z-../DPE08XB4	210	24100	50000	4.6	1550	3.4
3.3	2150	2.4	432.1	BK70Z-../DPE08XB4	210	24100	50000	4.0	1790	2.9
2.9	2450	2.1	501.8	BK70Z-../DPE08XB4	210	24100	50000	3.5	2000	2.6
2.5	2850	1.8	570.8	BK70Z-../DPE08XB4	210	24100	50000	3.0	2350	2.2
2.3	3100	1.7	644.9	BK70Z-../DPE08XB4	210	24100	50000	2.7	2650	1.95
2.0	3550	1.45	733.6	BK70Z-../DPE08XB4	210	24100	50000	2.4	2950	1.75
1.7	3850	1.5	847.7	BK70G20-../DPE08XB4	208	24100	50000	2.1	3050	1.85
1.5	4350	1.3	964.6	BK70G20-../DPE08XB4	208	24100	50000	1.8	3550	1.6
1.3	5000	1.15	1139	BK70G20-../DPE08XB4	208	24100	50000	1.6	4000	1.45
1.2	5500	1.05	1280	BK70G20-../DPE08XB4	208	24100	50000	1.4	4700	1.2
1.0	6700	0.85	1457	BK70G20-../DPE08XB4	208	24100	50000	1.2	5500	1.05
1.5	3850	3.0	963.0	BK80G40-../DPE08XB4	350	30000	75000	1.8	3050	3.8
1.4	4100	2.8	1079	BK80G40-../DPE08XB4	350	30000	75000	1.6	3450	3.3
1.1	5400	2.1	1307	BK80G40-../DPE08XB4	350	30000	75000	1.4	4100	2.8
1.0	5900	1.95	1425	BK80G40-../DPE08XB4	350	30000	75000	1.2	4750	2.4
0.9	6700	1.7	1583	BK80G40-../DPE08XB4	350	30000	75000	1.1	5200	2.2
0.8	7600	1.5	1775	BK80G40-../DPE08XB4	350	30000	75000	1.0	5800	2.0
0.65	9600	1.2	2205	BK80G40-../DPE08XB4	350	30000	75000	0.8	7500	1.55
0.6	10400	1.1	2449	BK80G40-../DPE08XB4	350	30000	75000	0.7	8700	1.3
0.9	6400	2.9	1579	BK90G50-../DPE08XB4	622	49400	120000	1.1	5000	3.7
0.8	7200	2.6	1803	BK90G50-../DPE08XB4	622	49400	120000	0.95	5800	3.2
0.75	7600	2.4	2016	BK90G50-../DPE08XB4	622	49400	120000	0.85	6500	2.8
0.55	10900	1.7	2764	BK90G50-../DPE08XB4	622	49400	120000	0.65	8900	2.1
0.47	13100	1.4	3065	BK90G50-../DPE08XB4	622	49400	120000	0.6	9800	1.9
0.39	16200	1.15	3672	BK90G50-../DPE08XB4	622	49400	120000	0.47	13100	1.4
0.35	18300	1.0	4070	BK90G50-../DPE08XB4	622	49400	120000	0.43	14500	1.3

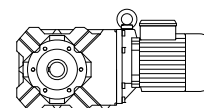
The torques marked (\*) are maximum permissible torques for service factor f<sub>B</sub>=1.0.



# BK-series bevel geared motors

## Selection - bevel geared motors

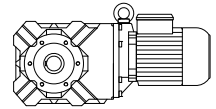
**P = 1.1 kW**



50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
325	29.5	3.2	4.44	BK10-../DPE09XA4	40	1900	-	395	24	4.0
240	40	2.6	6.02	BK10-../DPE09XA4	40	2100	-	290	33	3.2
188	51	2.3	7.68	BK10-../DPE09XA4	40	2400	-	230	42	2.7
154	62	1.85	9.40	BK10-../DPE09XA4	40	2700	-	186	51	2.3
135	70	2.6	10.70	BK10-../DPE09XA4	40	3500	-	163	58	3.1
121	79	1.45	11.93	BK10-../DPE09XA4	40	3100	-	146	66	1.75
100	94	2.1	14.50	BK10-../DPE09XA4	40	3900	-	120	78	2.6
86	109	1.25	16.92	BK10-../DPE09XA4	40	3700	-	103	91	1.5
78	121	1.65	18.52	BK10-../DPE09XA4	40	4300	-	94	100	2.0
64	147	1.35	22.65	BK10-../DPE09XA4	40	4650	-	77	122	1.65
51	185	1.1	28.76	BK10-../DPE09XA4	40	5200	-	61	154	1.3
42.5	220	0.91	34.25	BK10-../DPE09XA4	40	5600	-	51	185	1.1
124	77	3.0	11.69	BK20-../DPE09XA4	50	2400	8800	149	64	3.6
83	115	2.0	17.42	BK20-../DPE09XA4	50	3250	9000	100	95	2.4
75	126	2.6	19.39	BK20-../DPE09XA4	50	4050	9000	90	105	3.1
60	157	2.1	24.29	BK20-../DPE09XA4	50	4500	9000	72	131	2.5
51	185	1.8	28.66	BK20-../DPE09XA4	50	4850	9000	61	154	2.1
39.5	235	1.4	36.69	BK20-../DPE09XA4	50	5400	9000	47.5	199	1.65
34	275	1.2	42.70	BK20-../DPE09XA4	50	5800	9000	41	230	1.45
28.5	325	1.0	51.22	BK20-../DPE09XA4	50	6300	9000	34	270	1.2
23.5	395	0.84	61.30	BK20-../DPE09XA4	50	6500	9000	28.5	325	1.0
70	136	2.4	20.85	BK30-../DPE09XA4	56	5000	12000	84	113	2.8
63	150	3.0	23.20	BK30-../DPE09XA4	56	5900	12000	75	126	3.6
51	185	2.4	28.76	BK30-../DPE09XA4	56	6500	12000	61	154	2.9
43	215	2.1	33.70	BK30-../DPE09XA4	56	7000	12000	52	181	2.5
34	270	1.65	42.89	BK30-../DPE09XA4	56	7800	12000	41	225	2.0
29	315	1.45	50.27	BK30-../DPE09XA4	56	8300	12000	35	260	1.75
24.5	375	1.2	59.27	BK30-../DPE09XA4	56	8900	12000	29.5	310	1.45
20.5	445	1.0	71.56	BK30-../DPE09XA4	56	9700	12000	24.5	370	1.2
16.5	540	0.83	88.38	BK30-../DPE09XA4	56	10600	12000	20	450	1.0
35.5	265	2.9	40.88	BK40-../DPE09XA4	76	7600	17000	43	215	3.6
28.5	320	2.4	51.18	BK40-../DPE09XA4	76	8400	17000	34	270	2.9
24.5	375	2.1	59.66	BK40-../DPE09XA4	76	9100	17000	29.5	310	2.5
21	435	1.8	70.11	BK40-../DPE09XA4	76	9800	17000	25	365	2.1
17.5	520	1.5	84.36	BK40-../DPE09XA4	76	10700	17000	21	435	1.8
14	630	1.25	104.0	BK40-../DPE09XA4	76	11700	17000	17	520	1.5
12.5	710	1.1	118.2	BK40Z-../DPE09XA4	80	11700	17000	15	590	1.3
10.5	840	0.93	143.0	BK40Z-../DPE09XA4	80	11700	17000	12.5	700	1.1
24	385	2.7	60.76	BK50-../DPE09XA4	104	11400	26000	29	315	3.3
19.5	465	2.3	75.40	BK50-../DPE09XA4	104	12600	26000	23.5	385	2.7
15.5	580	1.8	95.29	BK50-../DPE09XA4	104	14100	26000	18.5	485	2.2
12.5	710	1.5	115.4	BK50Z-../DPE09XA4	109	14100	26000	15.5	570	1.85
9.4	920	1.15	153.3	BK50Z-../DPE09XA4	109	14100	26000	11.5	750	1.4
7.0	1230	0.85	206.8	BK50Z-../DPE09XA4	109	14100	26000	8.5	1010	1.05

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





### P = 1.1 kW

50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
14.5	720	3.2	101.2	BK60-../DPE09XA4	113	13900	34000	17.5	600	3.8
13	800	2.9	113.2	BK60-../DPE09XA4	113	15000	34000	15.5	670	3.4
12	870	2.6	122.5	BK60-../DPE09XA4	113	15500	34000	14.5	720	3.2
11	950	2.4	137.0	BK60-../DPE09XA4	113	16600	34000	13	800	2.9
9.4	1110	2.1	153.7	BK60Z-../DPE09XA4	132	16600	34000	11.5	910	2.5
7.9	1320	1.75	183.2	BK60Z-../DPE09XA4	132	16600	34000	9.5	1100	2.1
7.1	1470	1.55	205.0	BK60Z-../DPE09XA4	132	16600	34000	8.5	1230	1.85
6.1	1720	1.35	239.7	BK60Z-../DPE09XA4	132	16600	34000	7.3	1430	1.6
5.4	1940	1.2	268.2	BK60Z-../DPE09XA4	132	16600	34000	6.5	1610	1.45
4.6	2250	1.0	317.7	BK60Z-../DPE09XA4	132	16600	34000	5.5	1910	1.2
4.1	2550	0.9	355.5	BK60Z-../DPE09XA4	132	16600	34000	4.9	2100	1.1
6.4	1640	3.2	226.2	BK70Z-../DPE09XA4	220	24100	50000	7.7	1360	3.8
5.6	1870	2.8	257.3	BK70Z-../DPE09XA4	220	24100	50000	6.8	1540	3.4
5.0	2100	2.5	293.3	BK70Z-../DPE09XA4	220	24100	50000	6.0	1750	3.0
4.4	2350	2.2	333.6	BK70Z-../DPE09XA4	220	24100	50000	5.3	1980	2.6
3.8	2750	1.9	379.9	BK70Z-../DPE09XA4	220	24100	50000	4.6	2250	2.3
3.4	3050	1.7	432.1	BK70Z-../DPE09XA4	220	24100	50000	4.1	2550	2.0
2.9	3600	1.45	501.8	BK70Z-../DPE09XA4	220	24100	50000	3.5	3000	1.75
2.6	4000	1.3	570.8	BK70Z-../DPE09XA4	220	24100	50000	3.1	3350	1.55
2.3	4550	1.15	644.9	BK70Z-../DPE09XA4	220	24100	50000	2.7	3850	1.35
2.0	5200	1.0	733.6	BK70Z-../DPE09XA4	220	24100	50000	2.4	4350	1.2
1.7	5800	0.98	847.7	BK70G20-../DPE09XA4	218	24100	50000	2.1	4600	1.25
1.5	6500	0.88	964.6	BK70G20-../DPE09XA4	218	24100	50000	1.9	5100	1.1
2.9	3600	3.2	499.5	BK80Z-../DPE09XA4	349	30000	75000	3.5	3000	3.8
2.6	4000	2.9	559.5	BK80Z-../DPE09XA4	349	30000	75000	3.2	3250	3.5
2.4	3600	3.2	607.8	BK80G40-../DPE09XA4	360	30000	75000	2.9	2850	4.0
2.2	3900	2.9	680.9	BK80G40-../DPE09XA4	360	30000	75000	2.6	3200	3.6
2.0	4400	2.6	756.3	BK80G40-../DPE09XA4	360	30000	75000	2.4	3550	3.2
1.7	5200	2.2	847.2	BK80G40-../DPE09XA4	360	30000	75000	2.1	4050	2.8
1.5	6100	1.9	963.0	BK80G40-../DPE09XA4	360	30000	75000	1.9	4600	2.5
1.4	6400	1.8	1079	BK80G40-../DPE09XA4	360	30000	75000	1.7	5100	2.3
1.2	7700	1.5	1307	BK80G40-../DPE09XA4	360	30000	75000	1.4	6400	1.8
1.1	8300	1.4	1425	BK80G40-../DPE09XA4	360	30000	75000	1.3	6900	1.65
0.95	9800	1.15	1583	BK80G40-../DPE09XA4	360	30000	75000	1.1	8300	1.4
0.85	11000	1.05	1775	BK80G40-../DPE09XA4	360	30000	75000	1.0	9200	1.25
1.5	5600	3.3	1008	BK90G50-../DPE09XA4	633	49400	120000	1.8	4450	4.2
1.3	6500	2.8	1127	BK90G50-../DPE09XA4	633	49400	120000	1.6	5000	3.7
1.1	8300	2.2	1363	BK90G50-../DPE09XA4	633	49400	120000	1.3	6800	2.7
0.95	9500	1.95	1579	BK90G50-../DPE09XA4	633	49400	120000	1.2	7200	2.6
0.8	11400	1.6	1803	BK90G50-../DPE09XA4	633	49400	120000	1.0	8700	2.1
0.75	12000	1.55	2016	BK90G50-../DPE09XA4	633	49400	120000	0.9	9700	1.9
0.55	16900	1.1	2764	BK90G50-../DPE09XA4	633	49400	120000	0.65	14000	1.3

### P = 1.5 kW

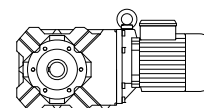
50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
325	40.5	2.3	4.44	BK10-../DPE09XB4	40	1900	-	395	33	2.9
240	54	1.95	6.02	BK10-../DPE09XB4	40	2100	-	290	45	2.3
188	70	1.65	7.68	BK10-../DPE09XB4	40	2400	-	230	57	2.0

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

# BK-series bevel geared motors

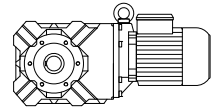
## Selection - bevel geared motors

**P = 1.5 kW**



50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
154	85	1.35	9.40	BK10-../DPE09XB4	40	2700	-	186	70	1.65
135	95	1.9	10.70	BK10-../DPE09XB4	40	3500	-	163	79	2.3
121	108	1.05	11.93	BK10-../DPE09XB4	40	3100	-	146	90	1.3
100	128	1.55	14.50	BK10-../DPE09XB4	40	3900	-	120	107	1.85
86	149	0.91	16.92	BK10-../DPE09XB4	40	3700	-	103	125	1.1
78	165	1.2	18.52	BK10-../DPE09XB4	40	4300	-	94	137	1.45
64	200	1.0	22.65	BK10-../DPE09XB4	40	4650	-	77	167	1.2
51	250	0.8	28.76	BK10-../DPE09XB4	40	5200	-	61	210	0.95
183	72	3.2	7.91	BK20-../DPE09XB4	50	1330	7600	220	59	3.9
146	90	2.6	9.91	BK20-../DPE09XB4	50	1910	8300	176	74	3.1
130	99	3.0	11.14	BK20-../DPE09XB4	50	3300	8100	157	82	3.7
124	106	2.2	11.69	BK20-../DPE09XB4	50	2400	8800	149	88	2.6
98	131	2.5	14.75	BK20-../DPE09XB4	50	3650	9000	118	109	3.0
83	157	1.45	17.42	BK20-../DPE09XB4	50	3250	9000	100	130	1.8
75	171	1.95	19.39	BK20-../DPE09XB4	50	4050	9000	90	143	2.3
60	210	1.55	24.29	BK20-../DPE09XB4	50	4500	9000	72	179	1.85
51	250	1.3	28.66	BK20-../DPE09XB4	50	4850	9000	61	210	1.55
39.5	325	1.0	36.69	BK20-../DPE09XB4	50	5400	9000	47.5	270	1.2
34	375	0.88	42.70	BK20-../DPE09XB4	50	5800	9000	41	310	1.05
121	108	3.0	11.93	BK30-../DPE09XB4	56	3650	12000	146	90	3.6
104	125	2.6	13.98	BK30-../DPE09XB4	56	4050	12000	125	104	3.1
81	159	2.8	17.95	BK30-../DPE09XB4	56	5300	12000	97	132	3.4
70	186	1.7	20.85	BK30-../DPE09XB4	56	5000	12000	84	155	2.1
63	200	2.3	23.20	BK30-../DPE09XB4	56	5900	12000	75	171	2.6
51	250	1.8	28.76	BK30-../DPE09XB4	56	6500	12000	61	210	2.1
43	295	1.55	33.70	BK30-../DPE09XB4	56	7000	12000	52	245	1.85
34	370	1.2	42.89	BK30-../DPE09XB4	56	7800	12000	41	310	1.45
29	430	1.05	50.27	BK30-../DPE09XB4	56	8300	12000	35	360	1.25
24.5	510	0.88	59.27	BK30-../DPE09XB4	56	8900	12000	29.5	425	1.05
51	250	3.1	28.59	BK40-../DPE09XB4	76	6300	17000	61	210	3.7
42	305	2.6	34.61	BK40-../DPE09XB4	76	6900	17000	51	250	3.1
35.5	360	2.2	40.88	BK40-../DPE09XB4	76	7600	17000	43	295	2.6
28.5	440	1.75	51.18	BK40-../DPE09XB4	76	8400	17000	34	370	2.1
24.5	510	1.55	59.66	BK40-../DPE09XB4	76	9100	17000	29.5	425	1.85
21	590	1.3	70.11	BK40-../DPE09XB4	76	9800	17000	25	495	1.6
17.5	710	1.1	84.36	BK40-../DPE09XB4	76	10700	17000	21	590	1.3
14	860	0.91	104.0	BK40-../DPE09XB4	76	11700	17000	17	710	1.1
12.5	970	0.8	118.2	BK40Z-../DPE09XB4	80	11700	17000	15	810	0.96
30.5	415	2.5	47.50	BK50-../DPE09XB4	104	10100	25700	37	340	3.1
24	520	2.0	60.76	BK50-../DPE09XB4	104	11400	26000	29	430	2.4
19.5	630	1.65	75.40	BK50-../DPE09XB4	104	12600	26000	23.5	530	2.0
15.5	790	1.35	95.29	BK50-../DPE09XB4	104	14100	26000	18.5	660	1.6
12.5	970	1.1	115.4	BK50Z-../DPE09XB4	109	14100	26000	15.5	780	1.35
9.4	1260	0.83	153.3	BK50Z-../DPE09XB4	109	14100	26000	11.5	1030	1.0
18.5	770	3.0	78.13	BK60-../DPE09XB4	113	11900	34000	22.5	630	3.7
16.5	860	2.7	87.41	BK60-../DPE09XB4	113	12900	34000	20	710	3.2
14.5	980	2.3	101.2	BK60-../DPE09XB4	113	13900	34000	17.5	810	2.8
13	1100	2.1	113.2	BK60-../DPE09XB4	113	15000	34000	15.5	920	2.5
12	1190	1.95	122.5	BK60-../DPE09XB4	113	15500	34000	14.5	980	2.3
11	1300	1.75	137.0	BK60-../DPE09XB4	113	16600	34000	13	1100	2.1
9.4	1520	1.5	153.7	BK60Z-../DPE09XB4	132	16600	34000	11.5	1240	1.85
7.9	1810	1.25	183.2	BK60Z-../DPE09XB4	132	16600	34000	9.5	1500	1.55
7.1	2000	1.15	205.0	BK60Z-../DPE09XB4	132	16600	34000	8.5	1680	1.35
6.1	2300	1.0	239.7	BK60Z-../DPE09XB4	132	16600	34000	7.3	1960	1.15

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



### P = 1.5 kW

50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
5.4	2650	0.87	268.2	BK60Z-../DPE09XB4	132	16600	34000	6.5	2200	1.05
8.2	1740	3.0	175.7	BK70-../DPE09XB4	199	24100	50000	10	1430	3.6
7.6	1880	2.8	190.4	BK70Z-../DPE09XB4	220	24100	50000	9.2	1550	3.4
6.4	2200	2.4	226.2	BK70Z-../DPE09XB4	220	24100	50000	7.7	1860	2.8
5.6	2550	2.0	257.3	BK70Z-../DPE09XB4	220	24100	50000	6.8	2100	2.5
5.0	2850	1.8	293.3	BK70Z-../DPE09XB4	220	24100	50000	6.0	2350	2.2
4.4	3250	1.6	333.6	BK70Z-../DPE09XB4	220	24100	50000	5.3	2700	1.95
3.8	3750	1.4	379.9	BK70Z-../DPE09XB4	220	24100	50000	4.6	3100	1.7
3.4	4200	1.25	432.1	BK70Z-../DPE09XB4	220	24100	50000	4.1	3450	1.5
2.9	4900	1.05	501.8	BK70Z-../DPE09XB4	220	24100	50000	3.5	4050	1.3
2.6	5500	0.95	570.8	BK70Z-../DPE09XB4	220	24100	50000	3.1	4600	1.15
2.3	6200	0.84	644.9	BK70Z-../DPE09XB4	220	24100	50000	2.7	5300	0.98
3.8	3750	3.1	389.0	BK80Z-../DPE09XB4	349	30000	75000	4.5	3150	3.7
3.4	4200	2.7	435.7	BK80Z-../DPE09XB4	349	30000	75000	4.0	3550	3.2
2.9	4900	2.3	499.5	BK80Z-../DPE09XB4	349	30000	75000	3.5	4050	2.8
2.6	5500	2.1	559.5	BK80Z-../DPE09XB4	349	30000	75000	3.2	4450	2.6
2.4	5200	2.2	607.8	BK80G40-../DPE09XB4	360	30000	75000	2.9	4150	2.8
2.2	5600	2.1	680.9	BK80G40-../DPE09XB4	360	30000	75000	2.6	4650	2.5
2.0	6300	1.85	756.3	BK80G40-../DPE09XB4	360	30000	75000	2.4	5100	2.3
1.7	7500	1.55	847.2	BK80G40-../DPE09XB4	360	30000	75000	2.1	5900	1.95
1.5	8600	1.35	963.0	BK80G40-../DPE09XB4	360	30000	75000	1.9	6600	1.75
1.4	9200	1.25	1079	BK80G40-../DPE09XB4	360	30000	75000	1.7	7400	1.55
1.2	10900	1.05	1307	BK80G40-../DPE09XB4	360	30000	75000	1.4	9200	1.25
1.1	11800	0.97	1425	BK80G40-../DPE09XB4	360	30000	75000	1.3	9800	1.15
2.3	6200	3.0	637.7	BK90Z-../DPE09XB4	622	49400	120000	2.8	5100	3.6
2.1	6800	2.7	713.5	BK90Z-../DPE09XB4	622	49400	120000	2.5	5700	3.2
1.8	6600	2.8	821.0	BK90G50-../DPE09XB4	633	49400	120000	2.2	5100	3.6
1.7	7200	2.6	882.3	BK90G50-../DPE09XB4	633	49400	120000	2.0	5900	3.1
1.5	8200	2.3	1008	BK90G50-../DPE09XB4	633	49400	120000	1.8	6600	2.8
1.3	9500	1.95	1127	BK90G50-../DPE09XB4	633	49400	120000	1.6	7400	2.5
1.1	11800	1.55	1363	BK90G50-../DPE09XB4	633	49400	120000	1.3	9800	1.9
0.95	13500	1.35	1579	BK90G50-../DPE09XB4	633	49400	120000	1.2	10400	1.8
0.8	16100	1.15	1803	BK90G50-../DPE09XB4	633	49400	120000	1.0	12600	1.45
0.75	17100	1.1	2016	BK90G50-../DPE09XB4	633	49400	120000	0.9	13900	1.35

8

### P = 2.2 kW

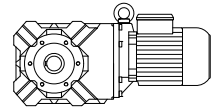
50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
330	58	1.65	4.44	BK10-../DPE09XB4C	43	1900	-	395	48.5	1.95
245	78	1.35	6.02	BK10-../DPE09XB4C	43	2100	-	290	66	1.6
189	102	1.15	7.68	BK10-../DPE09XB4C	43	2400	-	230	84	1.35
155	124	0.93	9.40	BK10-../DPE09XB4C	43	2700	-	186	103	1.1
136	139	1.3	10.70	BK10-../DPE09XB4C	43	3500	-	163	116	1.55
100	189	1.05	14.50	BK10-../DPE09XB4C	43	3900	-	120	157	1.25
79	235	0.85	18.52	BK10-../DPE09XB4C	43	4300	-	94	200	1.0
320	60	3.3	4.54	BK20-../DPE09XB4C	52	520	6100	385	50	3.9
245	78	2.8	6.02	BK20-../DPE09XB4C	52	580	6800	290	66	3.3
184	105	2.2	7.91	BK20-../DPE09XB4C	52	1330	7600	220	87	2.7

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

# BK-series bevel geared motors

## Selection - bevel geared motors

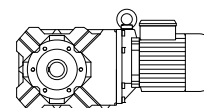
**P = 2.2 kW**



50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
147	131	1.75	9.91	BK20-../DPE09XB4C	52	1910	8300	176	109	2.1
131	144	2.1	11.14	BK20-../DPE09XB4C	52	3300	8100	157	120	2.5
125	154	1.5	11.69	BK20-../DPE09XB4C	52	2400	8800	149	129	1.8
99	191	1.75	14.75	BK20-../DPE09XB4C	52	3650	9000	118	160	2.1
84	225	1.05	17.42	BK20-../DPE09XB4C	52	3250	9000	100	191	1.2
75	250	1.3	19.39	BK20-../DPE09XB4C	52	4050	9000	90	210	1.55
60	315	1.05	24.29	BK20-../DPE09XB4C	52	4500	9000	72	260	1.25
51	370	0.89	28.66	BK20-../DPE09XB4C	52	4850	9000	61	305	1.1
310	62	3.1	4.73	BK30-../DPE09XB4C	58	1550	8800	370	52	3.7
245	78	2.7	6.02	BK30-../DPE09XB4C	58	1690	9600	290	66	3.2
195	99	2.7	7.45	BK30-../DPE09XB4C	58	2200	10400	235	82	3.3
151	128	2.5	9.63	BK30-../DPE09XB4C	58	3150	11500	181	106	3.0
128	147	2.8	11.39	BK30-../DPE09XB4C	58	4150	11000	153	123	3.4
122	158	2.0	11.93	BK30-../DPE09XB4C	58	3650	12000	146	132	2.4
104	183	1.75	13.98	BK30-../DPE09XB4C	58	4050	12000	125	152	2.1
100	189	2.4	14.50	BK30-../DPE09XB4C	58	4900	12000	120	157	2.9
81	230	1.95	17.95	BK30-../DPE09XB4C	58	5300	12000	97	194	2.3
70	270	1.2	20.85	BK30-../DPE09XB4C	58	5000	12000	84	225	1.4
63	300	1.5	23.20	BK30-../DPE09XB4C	58	5900	12000	75	250	1.8
51	370	1.2	28.76	BK30-../DPE09XB4C	58	6500	12000	61	305	1.5
43.5	430	1.05	33.70	BK30-../DPE09XB4C	58	7000	12000	52	360	1.25
34	540	0.83	42.89	BK30-../DPE09XB4C	58	7800	12000	41	455	0.99
123	157	3.1	11.86	BK40-../DPE09XB4C	79	1770	12200	147	131	3.8
65	290	2.7	22.44	BK40-../DPE09XB4C	79	5500	16500	78	240	3.3
51	370	2.1	28.59	BK40-../DPE09XB4C	79	6300	17000	61	305	2.6
42	450	1.75	34.61	BK40-../DPE09XB4C	79	6900	17000	51	370	2.1
35.5	530	1.45	40.88	BK40-../DPE09XB4C	79	7600	17000	43	435	1.8
28.5	640	1.2	51.18	BK40-../DPE09XB4C	79	8400	17000	34	540	1.45
24.5	750	1.05	59.66	BK40-../DPE09XB4C	79	9100	17000	29.5	620	1.25
21	870	0.9	70.11	BK40-../DPE09XB4C	79	9800	17000	25	730	1.05
81	235	3.1	17.92	BK50-../DPE09XB4C	107	4600	16800	98	195	3.7
55	340	3.1	26.51	BK50-../DPE09XB4C	107	7800	21200	66	285	3.7
41.5	455	2.3	35.21	BK50-../DPE09XB4C	107	8700	23100	49.5	380	2.8
31	600	1.75	47.50	BK50-../DPE09XB4C	107	10100	25700	37	500	2.1
24	770	1.35	60.76	BK50-../DPE09XB4C	107	11400	26000	29	630	1.65
19.5	930	1.15	75.40	BK50-../DPE09XB4C	107	12600	26000	23.5	770	1.35
15.5	1160	0.91	95.29	BK50-../DPE09XB4C	107	14100	26000	18.5	970	1.1
29	720	3.2	50.40	BK60-../DPE09XB4C	115	9100	29800	35	600	3.8
25	840	2.7	58.95	BK60-../DPE09XB4C	115	9900	31500	30	700	3.3
22	950	2.4	65.95	BK60-../DPE09XB4C	115	10900	33000	26.5	790	2.9
19	1100	2.1	78.13	BK60-../DPE09XB4C	115	11900	34000	22.5	930	2.5
17	1230	1.85	87.41	BK60-../DPE09XB4C	115	12900	34000	20	1050	2.2
14.5	1440	1.6	101.2	BK60-../DPE09XB4C	115	13900	34000	17.5	1200	1.9
13	1610	1.45	113.2	BK60-../DPE09XB4C	115	15000	34000	15.5	1350	1.7
12	1750	1.3	122.5	BK60-../DPE09XB4C	115	15500	34000	14.5	1440	1.6
11	1910	1.2	137.0	BK60-../DPE09XB4C	115	16600	34000	13	1610	1.45
9.5	2200	1.05	153.7	BK60Z-../DPE09XB4C	135	16600	34000	11.5	1820	1.25
8.0	2600	0.88	183.2	BK60Z-../DPE09XB4C	135	16600	34000	9.5	2200	1.05
12.5	1680	3.1	120.2	BK70-../DPE09XB4C	202	18600	50000	14.5	1440	3.6
11	1910	2.7	136.7	BK70-../DPE09XB4C	202	20700	50000	13	1610	3.2
9.4	2200	2.4	154.4	BK70-../DPE09XB4C	202	21900	50000	11.5	1820	2.9
8.3	2500	2.1	175.7	BK70-../DPE09XB4C	202	24100	50000	10	2100	2.5
7.7	2700	1.95	190.4	BK70Z-../DPE09XB4C	223	24100	50000	9.2	2250	2.3
6.5	3200	1.65	226.2	BK70Z-../DPE09XB4C	223	24100	50000	7.7	2700	1.95
5.7	3650	1.4	257.3	BK70Z-../DPE09XB4C	223	24100	50000	6.8	3050	1.7

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

### P = 2.2 kW



50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
5.0	4200	1.25	293.3	BK70Z-../DPE09XB4C	223	24100	50000	6.0	3500	1.5
4.4	4750	1.1	333.6	BK70Z-../DPE09XB4C	223	24100	50000	5.3	3950	1.3
3.9	5300	0.98	379.9	BK70Z-../DPE09XB4C	223	24100	50000	4.6	4550	1.15
3.4	6100	0.85	432.1	BK70Z-../DPE09XB4C	223	24100	50000	4.1	5100	1.0
5.8	3600	3.2	253.3	BK80Z-../DPE09XB4C	351	30000	75000	6.9	3000	3.8
4.9	4250	2.7	300.6	BK80Z-../DPE09XB4C	351	30000	75000	5.8	3600	3.2
4.4	4750	2.4	336.7	BK80Z-../DPE09XB4C	351	30000	75000	5.2	4000	2.9
3.8	5500	2.1	389.0	BK80Z-../DPE09XB4C	351	30000	75000	4.5	4650	2.5
3.4	6100	1.9	435.7	BK80Z-../DPE09XB4C	351	30000	75000	4.0	5200	2.2
3.0	7000	1.65	499.5	BK80Z-../DPE09XB4C	351	30000	75000	3.5	6000	1.9
2.6	8000	1.45	559.5	BK80Z-../DPE09XB4C	351	30000	75000	3.2	6500	1.75
2.4	8000	1.45	607.8	BK80G40-../DPE09XB4C	363	30000	75000	2.9	6400	1.8
2.2	8700	1.3	680.9	BK80G40-../DPE09XB4C	363	30000	75000	2.6	7200	1.6
2.0	9600	1.2	756.3	BK80G40-../DPE09XB4C	363	30000	75000	2.4	7900	1.45
1.8	10700	1.05	847.2	BK80G40-../DPE09XB4C	363	30000	75000	2.1	9000	1.3
1.6	12200	0.94	963.0	BK80G40-../DPE09XB4C	363	30000	75000	1.9	10100	1.15
1.4	13900	0.83	1079	BK80G40-../DPE09XB4C	363	30000	75000	1.7	11300	1.0
3.4	6100	3.0	435.3	BK90Z-../DPE09XB4C	624	49400	120000	4.0	5200	3.6
3.0	7000	2.6	499.2	BK90Z-../DPE09XB4C	624	49400	120000	3.5	6000	3.1
2.6	8000	2.3	558.5	BK90Z-../DPE09XB4C	624	49400	120000	3.2	6500	2.8
2.3	9100	2.0	637.7	BK90Z-../DPE09XB4C	624	49400	120000	2.8	7500	2.5
2.1	10000	1.85	713.5	BK90Z-../DPE09XB4C	624	49400	120000	2.5	8400	2.2
1.8	10300	1.8	821.0	BK90G50-../DPE09XB4C	635	49400	120000	2.2	8200	2.3
1.7	11100	1.65	882.3	BK90G50-../DPE09XB4C	635	49400	120000	2.0	9300	2.0
1.5	12600	1.45	1008	BK90G50-../DPE09XB4C	635	49400	120000	1.8	10300	1.8
1.3	14600	1.25	1127	BK90G50-../DPE09XB4C	635	49400	120000	1.6	11600	1.6
1.1	17800	1.05	1363	BK90G50-../DPE09XB4C	635	49400	120000	1.3	14900	1.25

### P = 3 kW

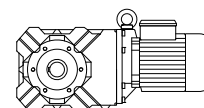
50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
310	85	2.3	4.73	BK30-../DPE11LA4	76	1550	8800	370	71	2.7
245	107	2.0	6.02	BK30-../DPE11LA4	76	1690	9600	290	90	2.4
195	135	2.0	7.45	BK30-../DPE11LA4	76	2200	10400	235	112	2.4
151	174	1.85	9.63	BK30-../DPE11LA4	76	3150	11500	181	145	2.2
128	200	2.1	11.39	BK30-../DPE11LA4	76	4150	11000	153	168	2.5
122	215	1.5	11.93	BK30-../DPE11LA4	76	3650	12000	146	180	1.8
104	250	1.3	13.98	BK30-../DPE11LA4	76	4050	12000	125	205	1.55
100	255	1.75	14.50	BK30-../DPE11LA4	76	4900	12000	120	210	2.1
81	315	1.45	17.95	BK30-../DPE11LA4	76	5300	12000	97	265	1.7
63	405	1.1	23.20	BK30-../DPE11LA4	76	5900	12000	75	340	1.3
51	500	0.9	28.76	BK30-../DPE11LA4	76	6500	12000	61	420	1.05
156	168	2.9	9.31	BK40-../DPE11LA4	102	1040	11200	187	140	3.5
123	210	2.3	11.86	BK40-../DPE11LA4	102	1770	12200	147	179	2.8
100	255	3.1	14.50	BK40-../DPE11LA4	102	4500	14300	120	210	3.7
81	315	2.5	18.05	BK40-../DPE11LA4	102	4900	15300	97	265	2.9
65	395	1.95	22.44	BK40-../DPE11LA4	102	5500	16500	78	330	2.4
51	500	1.55	28.59	BK40-../DPE11LA4	102	6300	17000	61	420	1.85
42	610	1.3	34.61	BK40-../DPE11LA4	102	6900	17000	51	500	1.55
35.5	720	1.1	40.88	BK40-../DPE11LA4	102	7600	17000	43	590	1.3

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

# BK-series bevel geared motors

## Selection - bevel geared motors

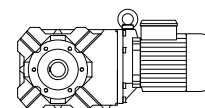
**P = 3 kW**



50 Hz			i	Type	m kg	F <sub>RN</sub> N	F <sub>RV</sub> N	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
81	320	2.3	17.92	BK50-../DPE11LA4	132	4600	16800	98	265	2.7
76	335	3.1	19.33	BK50-../DPE11LA4	132	6900	19200	91	280	3.8
55	465	2.3	26.51	BK50-../DPE11LA4	132	7800	21200	66	390	2.7
41.5	620	1.7	35.21	BK50-../DPE11LA4	132	8700	23100	49.5	520	2.0
31	820	1.3	47.50	BK50-../DPE11LA4	132	10100	25700	37	680	1.55
24	1050	1.0	60.76	BK50-../DPE11LA4	132	11400	26000	29	860	1.2
19.5	1270	0.83	75.40	BK50-../DPE11LA4	132	12600	26000	23.5	1060	0.99
38.5	740	3.1	37.80	BK60-../DPE11LA4	142	7300	26500	46.5	610	3.8
32.5	880	2.6	45.05	BK60-../DPE11LA4	142	8200	28300	39	730	3.2
29	980	2.3	50.40	BK60-../DPE11LA4	142	9100	29800	35	810	2.8
25	1140	2.0	58.95	BK60-../DPE11LA4	142	9900	31500	30	950	2.4
22	1300	1.75	65.95	BK60-../DPE11LA4	142	10900	33000	26.5	1080	2.1
19	1500	1.55	78.13	BK60-../DPE11LA4	142	11900	34000	22.5	1270	1.8
17	1680	1.35	87.41	BK60-../DPE11LA4	142	12900	34000	20	1430	1.6
14.5	1970	1.15	101.2	BK60-../DPE11LA4	142	13900	34000	17.5	1630	1.4
13	2200	1.05	113.2	BK60-../DPE11LA4	142	15000	34000	15.5	1840	1.25
12	2350	0.98	122.5	BK60-../DPE11LA4	142	15500	34000	14.5	1970	1.15
11	2600	0.88	137.0	BK60-../DPE11LA4	142	16600	34000	13	2200	1.05
16	1790	2.9	90.96	BK70-../DPE11LA4	221	15300	49900	19.5	1460	3.6
14.5	1970	2.6	103.5	BK70-../DPE11LA4	221	17200	50000	17	1680	3.1
12.5	2250	2.3	120.2	BK70-../DPE11LA4	221	18600	50000	14.5	1970	2.6
11	2600	2.0	136.7	BK70-../DPE11LA4	221	20700	50000	13	2200	2.4
9.4	3000	1.75	154.4	BK70-../DPE11LA4	221	21900	50000	11.5	2450	2.1
8.3	3450	1.5	175.7	BK70-../DPE11LA4	221	24100	50000	10	2850	1.8
7.7	3700	1.4	190.4	BK70Z-../DPE11LA4	247	24100	50000	9.2	3100	1.7
6.5	4400	1.2	226.2	BK70Z-../DPE11LA4	247	24100	50000	7.7	3700	1.4
5.7	5000	1.05	257.3	BK70Z-../DPE11LA4	247	24100	50000	6.8	4200	1.25
5.0	5700	0.91	293.3	BK70Z-../DPE11LA4	247	24100	50000	6.0	4750	1.1
4.4	6500	0.8	333.6	BK70Z-../DPE11LA4	247	24100	50000	5.3	5400	0.96
8.5	3350	3.1	171.5	BK80-../DPE11LA4	336	30000	75000	10.5	2700	3.9
8.2	3450	3.3	177.6	BK80Z-../DPE11LA4	378	30000	75000	9.8	2900	4.0
7.3	3900	2.9	198.9	BK80Z-../DPE11LA4	378	30000	75000	8.8	3250	3.5
6.5	4400	2.6	226.1	BK80Z-../DPE11LA4	378	30000	75000	7.7	3700	3.1
5.8	4900	2.3	253.3	BK80Z-../DPE11LA4	378	30000	75000	6.9	4150	2.8
4.9	5800	2.0	300.6	BK80Z-../DPE11LA4	378	30000	75000	5.8	4900	2.3
4.4	6500	1.75	336.7	BK80Z-../DPE11LA4	378	30000	75000	5.2	5500	2.1
3.8	7500	1.55	389.0	BK80Z-../DPE11LA4	378	30000	75000	4.5	6300	1.85
3.4	8400	1.35	435.7	BK80Z-../DPE11LA4	378	30000	75000	4.0	7100	1.6
3.0	9500	1.2	499.5	BK80Z-../DPE11LA4	378	30000	75000	3.5	8100	1.4
2.6	11000	1.05	559.5	BK80Z-../DPE11LA4	378	30000	75000	3.2	8900	1.3
2.4	11100	1.05	607.8	BK80G40-../DPE11LA4	386	30000	75000	2.9	9100	1.25
2.2	12100	0.95	680.9	BK80G40-../DPE11LA4	386	30000	75000	2.6	10100	1.15
2.0	13500	0.85	756.3	BK80G40-../DPE11LA4	386	30000	75000	2.4	11100	1.05
5.0	5700	3.2	295.6	BK90Z-../DPE11LA4	643	49400	120000	5.9	4850	3.8
4.4	6500	2.8	330.7	BK90Z-../DPE11LA4	643	49400	120000	5.3	5400	3.4
3.8	7500	2.5	389.1	BK90Z-../DPE11LA4	643	49400	120000	4.5	6300	2.9
3.4	8400	2.2	435.3	BK90Z-../DPE11LA4	643	49400	120000	4.0	7100	2.6
3.0	9500	1.95	499.2	BK90Z-../DPE11LA4	643	49400	120000	3.5	8100	2.3
2.6	11000	1.7	558.5	BK90Z-../DPE11LA4	643	49400	120000	3.2	8900	2.1
2.3	12400	1.5	637.7	BK90Z-../DPE11LA4	643	49400	120000	2.8	10200	1.8
2.1	13600	1.35	713.5	BK90Z-../DPE11LA4	643	49400	120000	2.5	11400	1.6
1.8	14500	1.3	821.0	BK90G50-../DPE11LA4	660	49400	120000	2.2	11600	1.6
1.7	15600	1.2	882.3	BK90G50-../DPE11LA4	660	49400	120000	2.0	13100	1.4

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

### P = 3 kW



50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
1.5	17700	1.05	1008	BK90G50-../DPE11LA4	660	49400	120000	1.8	14500	1.3
1.3	20500	0.9	1127	BK90G50-../DPE11LA4	660	49400	120000	1.6	16400	1.15

### P = 4 kW

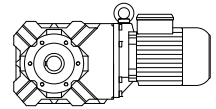
50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
310	113	1.7	4.73	BK30-../DPE11LB4	76	1550	8800	370	94	2.1
245	143	1.5	6.02	BK30-../DPE11LB4	76	1690	9600	290	121	1.75
195	180	1.5	7.45	BK30-../DPE11LB4	76	2200	10400	235	149	1.8
151	230	1.4	9.63	BK30-../DPE11LB4	76	3150	11500	181	194	1.65
128	265	1.55	11.39	BK30-../DPE11LB4	76	4150	11000	153	220	1.9
122	285	1.1	11.93	BK30-../DPE11LB4	76	3650	12000	146	240	1.35
104	330	0.97	13.98	BK30-../DPE11LB4	76	4050	12000	125	275	1.15
100	340	1.3	14.50	BK30-../DPE11LB4	76	4900	12000	120	285	1.6
81	420	1.05	17.95	BK30-../DPE11LB4	76	5300	12000	97	350	1.3
63	540	0.83	23.20	BK30-../DPE11LB4	76	5900	12000	75	455	0.99
245	143	3.3	6.02	BK40-../DPE11LB4	102	470	9800	290	121	3.9
194	181	2.7	7.49	BK40-../DPE11LB4	102	750	10500	235	149	3.3
156	225	2.2	9.31	BK40-../DPE11LB4	102	1040	11200	187	187	2.6
130	260	2.8	11.17	BK40-../DPE11LB4	102	4100	13100	156	220	3.3
123	285	1.75	11.86	BK40-../DPE11LB4	102	1770	12200	147	235	2.1
100	340	2.3	14.50	BK40-../DPE11LB4	102	4500	14300	120	285	2.7
81	420	1.85	18.05	BK40-../DPE11LB4	102	4900	15300	97	350	2.2
65	520	1.5	22.44	BK40-../DPE11LB4	102	5500	16500	78	440	1.75
51	670	1.15	28.59	BK40-../DPE11LB4	102	6300	17000	61	560	1.4
42	810	0.96	34.61	BK40-../DPE11LB4	102	6900	17000	51	670	1.15
35.5	960	0.81	40.88	BK40-../DPE11LB4	102	7600	17000	43	790	0.99
104	330	3.2	13.95	BK50-../DPE11LB4	132	6100	17400	125	275	3.8
96	355	3.0	15.19	BK50-../DPE11LB4	132	6300	18000	115	295	3.6
81	425	1.7	17.92	BK50-../DPE11LB4	132	4600	16800	98	350	2.1
76	450	2.3	19.33	BK50-../DPE11LB4	132	6900	19200	91	375	2.8
55	620	1.7	26.51	BK50-../DPE11LB4	132	7800	21200	66	520	2.0
41.5	820	1.3	35.21	BK50-../DPE11LB4	132	8700	23100	49.5	690	1.5
31	1090	0.96	47.50	BK50-../DPE11LB4	132	10100	25700	37	910	1.15
53	720	3.2	27.36	BK60-../DPE11LB4	142	5600	23200	64	590	3.9
43	880	2.6	33.78	BK60-../DPE11LB4	142	6500	25200	52	730	3.2
38.5	990	2.3	37.80	BK60-../DPE11LB4	142	7300	26500	46.5	820	2.8
32.5	1170	1.95	45.05	BK60-../DPE11LB4	142	8200	28300	39	970	2.4
29	1310	1.75	50.40	BK60-../DPE11LB4	142	9100	29800	35	1090	2.1
25	1520	1.5	58.95	BK60-../DPE11LB4	142	9900	31500	30	1270	1.8
22	1730	1.35	65.95	BK60-../DPE11LB4	142	10900	33000	26.5	1440	1.6
19	2000	1.15	78.13	BK60-../DPE11LB4	142	11900	34000	22.5	1690	1.35
17	2200	1.05	87.41	BK60-../DPE11LB4	142	12900	34000	20	1910	1.2
14.5	2600	0.88	101.2	BK60-../DPE11LB4	142	13900	34000	17.5	2150	1.05
24	1590	3.3	61.60	BK70-../DPE11LB4	221	11500	42800	28.5	1340	3.9
21	1810	2.9	70.23	BK70-../DPE11LB4	221	12500	44800	25	1520	3.4
18.5	2050	2.5	79.89	BK70-../DPE11LB4	221	14300	47600	22	1730	3.0
16	2350	2.2	90.96	BK70-../DPE11LB4	221	15300	49900	19.5	1950	2.7
14.5	2600	2.0	103.5	BK70-../DPE11LB4	221	17200	50000	17	2200	2.4
12.5	3050	1.7	120.2	BK70-../DPE11LB4	221	18600	50000	14.5	2600	2.0
11	3450	1.5	136.7	BK70-../DPE11LB4	221	20700	50000	13	2900	1.8

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

# BK-series bevel geared motors

## Selection - bevel geared motors

**P = 4 kW**



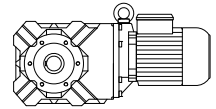
50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
9.4	4050	1.3	154.4	BK70-../DPE11LB4	221	21900	50000	11.5	3300	1.6
8.3	4600	1.15	175.7	BK70-../DPE11LB4	221	24100	50000	10	3800	1.35
7.7	4950	1.05	190.4	BK70Z-../DPE11LB4	247	24100	50000	9.2	4150	1.25
6.5	5800	0.9	226.2	BK70Z-../DPE11LB4	247	24100	50000	7.7	4950	1.05
11.5	3300	3.2	131.6	BK80-../DPE11LB4	336	24900	75000	13.5	2800	3.8
9.5	4000	2.6	153.1	BK80-../DPE11LB4	336	27200	75000	11.5	3300	3.2
8.5	4450	2.4	171.5	BK80-../DPE11LB4	336	30000	75000	10.5	3600	2.9
8.2	4650	2.5	177.6	BK80Z-../DPE11LB4	378	30000	75000	9.8	3850	3.0
7.3	5200	2.2	198.9	BK80Z-../DPE11LB4	378	30000	75000	8.8	4300	2.7
6.5	5800	2.0	226.1	BK80Z-../DPE11LB4	378	30000	75000	7.7	4950	2.3
5.8	6500	1.75	253.3	BK80Z-../DPE11LB4	378	30000	75000	6.9	5500	2.1
4.9	7700	1.5	300.6	BK80Z-../DPE11LB4	378	30000	75000	5.8	6500	1.75
4.4	8600	1.35	336.7	BK80Z-../DPE11LB4	378	30000	75000	5.2	7300	1.6
3.8	10000	1.15	389.0	BK80Z-../DPE11LB4	378	30000	75000	4.5	8400	1.35
3.4	11200	1.05	435.7	BK80Z-../DPE11LB4	378	30000	75000	4.0	9500	1.2
3.0	12700	0.91	499.5	BK80Z-../DPE11LB4	378	30000	75000	3.5	10900	1.05
6.2	6100	3.0	234.6	BK90Z-../DPE11LB4	643	49400	120000	7.5	5000	3.7
5.6	6800	2.7	262.5	BK90Z-../DPE11LB4	643	49400	120000	6.7	5700	3.2
5.0	7600	2.4	295.6	BK90Z-../DPE11LB4	643	49400	120000	5.9	6400	2.9
4.4	8600	2.2	330.7	BK90Z-../DPE11LB4	643	49400	120000	5.3	7200	2.6
3.8	10000	1.85	389.1	BK90Z-../DPE11LB4	643	49400	120000	4.5	8400	2.2
3.4	11200	1.65	435.3	BK90Z-../DPE11LB4	643	49400	120000	4.0	9500	1.95
3.0	12700	1.45	499.2	BK90Z-../DPE11LB4	643	49400	120000	3.5	10900	1.7
2.6	14600	1.25	558.5	BK90Z-../DPE11LB4	643	49400	120000	3.2	11900	1.55
2.3	16600	1.1	637.7	BK90Z-../DPE11LB4	643	49400	120000	2.8	13600	1.35
2.1	18100	1.0	713.5	BK90Z-../DPE11LB4	643	49400	120000	2.5	15200	1.2
1.8	19800	0.93	821.0	BK90G50-../DPE11LB4	660	49400	120000	2.2	16000	1.15
1.7	21200	0.87	882.3	BK90G50-../DPE11LB4	660	49400	120000	2.0	17900	1.05

**P = 5.5 kW**

50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
310	155	1.25	4.73	BK30-../DPE11LB4C	80	1550	8800	375	128	1.5
245	197	1.1	6.02	BK30-../DPE11LB4C	80	1690	9600	295	163	1.3
196	245	1.1	7.45	BK30-../DPE11LB4C	80	2200	10400	240	200	1.35
152	315	1.0	9.63	BK30-../DPE11LB4C	80	3150	11500	183	260	1.25
129	365	1.15	11.39	BK30-../DPE11LB4C	80	4150	11000	155	300	1.4
123	390	0.82	11.93	BK30-../DPE11LB4C	80	3650	12000	148	325	0.98
101	465	0.97	14.50	BK30-../DPE11LB4C	80	4900	12000	122	385	1.15
320	151	2.9	4.63	BK40-../DPE11LB4C	106	430	8900	385	125	3.4
245	197	2.4	6.02	BK40-../DPE11LB4C	106	470	9800	295	163	2.9
195	245	2.0	7.49	BK40-../DPE11LB4C	106	750	10500	235	205	2.4
157	305	1.6	9.31	BK40-../DPE11LB4C	106	1040	11200	190	250	1.95
131	360	2.0	11.17	BK40-../DPE11LB4C	106	4100	13100	158	295	2.4
124	385	1.3	11.86	BK40-../DPE11LB4C	106	1770	12200	149	320	1.55
101	465	1.7	14.50	BK40-../DPE11LB4C	106	4500	14300	122	385	2.0
81	580	1.35	18.05	BK40-../DPE11LB4C	106	4900	15300	98	480	1.65
66	710	1.1	22.44	BK40-../DPE11LB4C	106	5500	16500	79	590	1.3
52	900	0.87	28.59	BK40-../DPE11LB4C	106	6300	17000	62	760	1.05

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





**P = 5.5 kW**

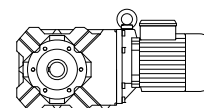
50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
151	310	3.0	9.73	BK50-../DPE11LB4C	136	5400	15400	181	260	3.6
146	330	2.5	10.00	BK50-../DPE11LB4C	136	1220	13200	176	270	3.0
105	450	2.3	13.95	BK50-../DPE11LB4C	136	6100	17400	127	370	2.8
97	485	2.2	15.19	BK50-../DPE11LB4C	136	6300	18000	116	405	2.6
82	580	1.25	17.92	BK50-../DPE11LB4C	136	4600	16800	99	480	1.5
76	620	1.7	19.33	BK50-../DPE11LB4C	136	6900	19200	92	510	2.1
56	840	1.25	26.51	BK50-../DPE11LB4C	136	7800	21200	67	700	1.5
41.5	1130	0.93	35.21	BK50-../DPE11LB4C	136	8700	23100	50	940	1.1
72	720	3.1	20.54	BK60-../DPE11LB4C	146	4400	20600	86	610	3.7
60	870	2.6	24.45	BK60-../DPE11LB4C	146	4850	22000	72	720	3.2
54	970	2.4	27.36	BK60-../DPE11LB4C	146	5600	23200	65	800	2.9
43.5	1200	1.9	33.78	BK60-../DPE11LB4C	146	6500	25200	53	990	2.3
39	1340	1.7	37.80	BK60-../DPE11LB4C	146	7300	26500	47	1110	2.1
32.5	1610	1.45	45.05	BK60-../DPE11LB4C	146	8200	28300	39.5	1320	1.75
29	1810	1.25	50.40	BK60-../DPE11LB4C	146	9100	29800	35	1500	1.55
25	2100	1.1	58.95	BK60-../DPE11LB4C	146	9900	31500	30	1750	1.3
22.5	2300	1.0	65.95	BK60-../DPE11LB4C	146	10900	33000	27	1940	1.2
19	2750	0.84	78.13	BK60-../DPE11LB4C	146	11900	34000	23	2250	1.0
32.5	1610	3.2	45.59	BK70-../DPE11LB4C	225	9000	37900	39	1340	3.8
27	1940	2.7	54.15	BK70-../DPE11LB4C	225	9900	40200	33	1590	3.3
24	2150	2.4	61.60	BK70-../DPE11LB4C	225	11500	42800	29	1810	2.9
21	2500	2.1	70.23	BK70-../DPE11LB4C	225	12500	44800	25.5	2050	2.5
18.5	2800	1.85	79.89	BK70-../DPE11LB4C	225	14300	47600	22.5	2300	2.3
16.5	3150	1.65	90.96	BK70-../DPE11LB4C	225	15300	49900	19.5	2650	1.95
14.5	3600	1.45	103.5	BK70-../DPE11LB4C	225	17200	50000	17.5	3000	1.75
12.5	4200	1.25	120.2	BK70-../DPE11LB4C	225	18600	50000	15	3500	1.5
11	4750	1.1	136.7	BK70-../DPE11LB4C	225	20700	50000	13	4000	1.3
9.5	5500	0.95	154.4	BK70-../DPE11LB4C	225	21900	50000	11.5	4550	1.15
8.4	6200	0.84	175.7	BK70-../DPE11LB4C	225	24100	50000	10.5	5000	1.05
16	3250	3.2	91.53	BK80-../DPE11LB4C	340	18300	74200	19.5	2650	3.9
14.5	3600	2.9	102.5	BK80-../DPE11LB4C	340	20500	75000	17.5	3000	3.5
12.5	4200	2.5	117.5	BK80-../DPE11LB4C	340	22300	75000	15	3500	3.0
11.5	4550	2.3	131.6	BK80-../DPE11LB4C	340	24900	75000	13.5	3850	2.7
9.6	5400	1.95	153.1	BK80-../DPE11LB4C	340	27200	75000	11.5	4550	2.3
8.6	6100	1.7	171.5	BK80-../DPE11LB4C	340	30000	75000	10.5	5000	2.1
8.3	6300	1.85	177.6	BK80Z-../DPE11LB4C	382	30000	75000	10	5200	2.2
7.4	7000	1.65	198.9	BK80Z-../DPE11LB4C	382	30000	75000	8.9	5900	1.95
6.5	8000	1.45	226.1	BK80Z-../DPE11LB4C	382	30000	75000	7.8	6700	1.7
5.8	9000	1.3	253.3	BK80Z-../DPE11LB4C	382	30000	75000	7.0	7500	1.55
4.9	10700	1.05	300.6	BK80Z-../DPE11LB4C	382	30000	75000	5.9	8900	1.3
4.4	11900	0.97	336.7	BK80Z-../DPE11LB4C	382	30000	75000	5.3	9900	1.15
3.8	13800	0.83	389.0	BK80Z-../DPE11LB4C	382	30000	75000	4.6	11400	1.0
8.4	6200	3.0	174.7	BK90Z-../DPE11LB4C	647	49400	120000	10.5	5000	3.7
7.5	7000	2.6	195.4	BK90Z-../DPE11LB4C	647	49400	120000	9.1	5700	3.2
6.3	8300	2.2	234.6	BK90Z-../DPE11LB4C	647	49400	120000	7.6	6900	2.7
5.6	9300	2.0	262.5	BK90Z-../DPE11LB4C	647	49400	120000	6.8	7700	2.4
5.0	10500	1.75	295.6	BK90Z-../DPE11LB4C	647	49400	120000	6.0	8700	2.1
4.5	11600	1.6	330.7	BK90Z-../DPE11LB4C	647	49400	120000	5.4	9700	1.9
3.8	13800	1.35	389.1	BK90Z-../DPE11LB4C	647	49400	120000	4.6	11400	1.6
3.4	15400	1.2	435.3	BK90Z-../DPE11LB4C	647	49400	120000	4.1	12800	1.45
3.0	17500	1.05	499.2	BK90Z-../DPE11LB4C	647	49400	120000	3.6	14500	1.3
2.7	19400	0.95	558.5	BK90Z-../DPE11LB4C	647	49400	120000	3.2	16400	1.15
2.3	22800	0.81	637.7	BK90Z-../DPE11LB4C	647	49400	120000	2.8	18700	0.99

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

# BK-series bevel geared motors

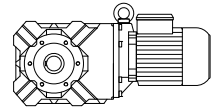
## Selection - bevel geared motors

**P = 7.5 kW**



50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
400	164	4.4	3.67	BK50-../DPE13XA4	147	115	9400	480	137	5.2
280	235	3.5	5.26	BK50-../DPE13XA4	147	130	10700	335	196	4.1
205	320	2.5	7.29	BK50-../DPE13XA4	147	620	111000	245	265	3.1
151	425	2.2	9.73	BK50-../DPE13XA4	147	5400	15400	181	355	2.6
146	450	1.8	10.00	BK50-../DPE13XA4	147	1220	13200	176	370	2.2
105	610	1.7	13.95	BK50-../DPE13XA4	147	6100	17400	127	500	2.1
97	660	1.6	15.19	BK50-../DPE13XA4	147	6300	18000	116	550	1.9
82	790	0.92	17.92	BK50-../DPE13XA4	147	4600	16800	99	650	1.1
76	840	1.25	19.33	BK50-../DPE13XA4	147	6900	19200	92	700	1.5
56	1150	0.91	26.51	BK50-../DPE13XA4	147	7800	21200	67	960	1.1
135	530	3.2	10.82	BK60-../DPE13XA4	159	3200	17000	163	435	3.9
118	600	3.1	12.38	BK60-../DPE13XA4	159	3500	17400	143	500	3.8
106	670	2.9	13.85	BK60-../DPE13XA4	159	3850	18000	128	550	3.6
102	700	2.8	14.41	BK60-../DPE13XA4	159	3650	18600	123	580	3.3
91	780	2.5	16.05	BK60-../DPE13XA4	159	4050	18800	110	650	3.0
80	890	2.5	18.36	BK60-../DPE13XA4	159	4000	19900	96	740	3.0
72	990	2.3	20.54	BK60-../DPE13XA4	159	4400	20600	86	830	2.7
60	1190	1.95	24.45	BK60-../DPE13XA4	159	4850	22000	72	990	2.3
54	1320	1.75	27.36	BK60-../DPE13XA4	159	5600	23200	65	1100	2.1
43.5	1640	1.4	33.78	BK60-../DPE13XA4	159	6500	25200	53	1350	1.7
39	1830	1.25	37.80	BK60-../DPE13XA4	159	7300	26500	47	1520	1.5
32.5	2200	1.05	45.05	BK60-../DPE13XA4	159	8200	28300	39.5	1810	1.25
29	2450	0.94	50.40	BK60-../DPE13XA4	159	9100	29800	35	2000	1.15
25	2850	0.81	58.95	BK60-../DPE13XA4	159	9900	31500	30	2350	0.98
47.5	1500	3.0	30.90	BK70-../DPE13XA4	238	7500	33600	57	1250	3.6
42	1700	2.8	35.15	BK70-../DPE13XA4	238	8000	35000	51	1400	3.4
36.5	1960	2.5	40.08	BK70-../DPE13XA4	238	8300	36300	44	1620	3.0
32.5	2200	2.3	45.59	BK70-../DPE13XA4	238	9000	37900	39	1830	2.8
27	2650	1.95	54.15	BK70-../DPE13XA4	238	9900	40200	33	2150	2.4
24	2950	1.75	61.60	BK70-../DPE13XA4	238	11500	42800	29	2450	2.1
21	3400	1.55	70.23	BK70-../DPE13XA4	238	12500	44800	25.5	2800	1.85
18.5	3850	1.35	79.89	BK70-../DPE13XA4	238	14300	47600	22.5	3150	1.65
16.5	4300	1.2	90.96	BK70-../DPE13XA4	238	15300	49900	19.5	3650	1.4
14.5	4900	1.05	103.5	BK70-../DPE13XA4	238	17200	50000	17.5	4050	1.3
12.5	5700	0.91	120.2	BK70-../DPE13XA4	238	18600	50000	15	4750	1.1
11	6500	0.8	136.7	BK70-../DPE13XA4	238	20700	50000	13	5500	0.95
24.5	2900	3.2	59.60	BK80-../DPE13XA4	352	15700	65500	30	2350	3.9
21	3400	2.8	70.72	BK80-../DPE13XA4	352	16600	68700	25	2850	3.4
18.5	3850	2.6	79.22	BK80-../DPE13XA4	352	17600	71300	22.5	3150	3.2
16	4450	2.3	91.53	BK80-../DPE13XA4	352	18300	74200	19.5	3650	2.8
14.5	4900	2.1	102.5	BK80-../DPE13XA4	352	20500	75000	17.5	4050	2.6
12.5	5700	1.85	117.5	BK80-../DPE13XA4	352	22300	75000	15	4750	2.2
11.5	6200	1.7	131.6	BK80-../DPE13XA4	352	24900	75000	13.5	5300	2.0
9.6	7400	1.4	153.1	BK80-../DPE13XA4	352	27200	75000	11.5	6200	1.7
8.6	8300	1.25	171.5	BK80-../DPE13XA4	352	30000	75000	10.5	6800	1.55
8.3	8600	1.35	177.6	BK80Z-../DPE13XA4	395	30000	75000	10	7100	1.6
7.4	9600	1.2	198.9	BK80Z-../DPE13XA4	395	30000	75000	8.9	8000	1.45
6.5	11000	1.05	226.1	BK80Z-../DPE13XA4	395	30000	75000	7.8	9100	1.25
5.8	12300	0.93	253.3	BK80Z-../DPE13XA4	395	30000	75000	7.0	10200	1.15
12.5	5700	2.9	117.0	BK90-../DPE13XA4	604	39200	113000	15.5	4600	3.7
11.5	6200	2.7	130.9	BK90-../DPE13XA4	604	42700	119400	13.5	5300	3.2
9.8	7300	2.3	149.5	BK90-../DPE13XA4	604	45600	120000	12	5900	2.8
8.8	8100	2.1	167.2	BK90-../DPE13XA4	604	49400	120000	11	6500	2.6
8.4	8500	2.2	174.7	BK90Z-../DPE13XA4	660	49400	120000	10.5	6800	2.7
7.5	9500	1.95	195.4	BK90Z-../DPE13XA4	660	49400	120000	9.1	7800	2.4
6.3	11300	1.65	234.6	BK90Z-../DPE13XA4	660	49400	120000	7.6	9400	1.95

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



### P = 7.5 kW

50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
5.6	12700	1.45	262.5	BK90Z-../DPE13XA4	660	49400	120000	6.8	10500	1.75
5.0	14300	1.3	295.6	BK90Z-../DPE13XA4	660	49400	120000	6.0	11900	1.55
4.5	15900	1.15	330.7	BK90Z-../DPE13XA4	660	49400	120000	5.4	13200	1.4
3.8	18800	0.98	389.1	BK90Z-../DPE13XA4	660	49400	120000	4.6	15500	1.2
3.4	21000	0.88	435.3	BK90Z-../DPE13XA4	660	49400	120000	4.1	17400	1.05

### P = 9.5 kW

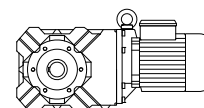
50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
405	205	3.5	3.67	BK50-../DPE16LB4	183	115	9400	485	172	4.2
280	295	2.8	5.26	BK50-../DPE16LB4	183	130	10700	340	245	3.3
205	405	2.0	7.29	BK50-../DPE16LB4	183	620	111000	245	340	2.4
152	530	1.75	9.73	BK50-../DPE16LB4	183	5400	15400	182	445	2.1
147	560	1.45	10.00	BK50-../DPE16LB4	183	1220	13200	177	470	1.75
106	770	1.35	13.95	BK50-../DPE16LB4	183	6100	17400	127	640	1.65
97	840	1.25	15.19	BK50-../DPE16LB4	183	6300	18000	117	690	1.5
77	1060	0.99	19.33	BK50-../DPE16LB4	183	6900	19200	92	880	1.2
205	440	3.3	7.29	BK60-../DPE16LB4	195	2800	14900	245	370	4.0
136	660	2.5	10.82	BK60-../DPE16LB4	195	3200	17000	164	550	3.0
119	760	2.5	12.38	BK60-../DPE16LB4	195	3500	17400	143	630	3.0
107	840	2.3	13.85	BK60-../DPE16LB4	195	3850	18000	128	700	2.8
103	880	2.2	14.41	BK60-../DPE16LB4	195	3650	18600	123	730	2.6
92	980	2.0	16.05	BK60-../DPE16LB4	195	4050	18800	111	810	2.4
81	1120	1.95	18.36	BK60-../DPE16LB4	195	4000	19900	97	930	2.3
72	1260	1.8	20.54	BK60-../DPE16LB4	195	4400	20600	87	1040	2.2
61	1480	1.55	24.45	BK60-../DPE16LB4	195	4850	22000	73	1240	1.85
54	1680	1.35	27.36	BK60-../DPE16LB4	195	5600	23200	65	1390	1.65
44	2050	1.1	33.78	BK60-../DPE16LB4	195	6500	25200	53	1710	1.35
39	2300	1.0	37.80	BK60-../DPE16LB4	195	7300	26500	47	1930	1.2
33	2700	0.85	45.05	BK60-../DPE16LB4	195	8200	28300	39.5	2250	1.0
97	930	3.3	15.16	BK70-../DPE16LB4	278	5600	25800	117	770	4.0
86	1050	3.3	17.24	BK70-../DPE16LB4	278	6500	29200	103	880	4.0
68	1330	3.1	21.88	BK70-../DPE16LB4	278	6500	30200	81	1120	3.6
60	1510	2.8	24.89	BK70-../DPE16LB4	278	7000	31500	72	1260	3.4
48	1890	2.4	30.90	BK70-../DPE16LB4	278	7500	33600	58	1560	2.9
42	2150	2.2	35.15	BK70-../DPE16LB4	278	8000	35000	51	1770	2.7
37	2450	2.0	40.08	BK70-../DPE16LB4	278	8300	36300	44.5	2000	2.4
32.5	2750	1.85	45.59	BK70-../DPE16LB4	278	9000	37900	39	2300	2.2
27.5	3250	1.6	54.15	BK70-../DPE16LB4	278	9900	40200	33	2700	1.95
24	3750	1.4	61.60	BK70-../DPE16LB4	278	11500	42800	29	3100	1.7
21	4300	1.2	70.23	BK70-../DPE16LB4	278	12500	44800	25.5	3550	1.45
18.5	4900	1.05	79.89	BK70-../DPE16LB4	278	14300	47600	22.5	4000	1.3
16.5	5400	0.96	90.96	BK70-../DPE16LB4	278	15300	49900	19.5	4650	1.1
14.5	6200	0.84	103.5	BK70-../DPE16LB4	278	17200	50000	17.5	5100	1.0
35.5	2550	3.2	41.78	BK80-../DPE16LB4	388	13500	58700	42.5	2100	3.9
31.5	2850	3.0	46.80	BK80-../DPE16LB4	388	14300	60900	38	2350	3.7
28	3200	2.8	53.21	BK80-../DPE16LB4	388	14800	63100	33.5	2700	3.3
25	3600	2.6	59.60	BK80-../DPE16LB4	388	15700	65500	30	3000	3.1
21	4300	2.2	70.72	BK80-../DPE16LB4	388	16600	68700	25.5	3550	2.7
19	4750	2.1	79.22	BK80-../DPE16LB4	388	17600	71300	22.5	4000	2.5
16.5	5400	1.95	91.53	BK80-../DPE16LB4	388	18300	74200	19.5	4650	2.2
14.5	6200	1.7	102.5	BK80-../DPE16LB4	388	20500	75000	17.5	5100	2.1

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

# BK-series bevel geared motors

## Selection - bevel geared motors

**P = 9.5 kW**

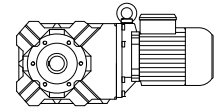


50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
13	6900	1.5	117.5	BK80-../DPE16LB4	388	22300	75000	15.5	5800	1.8
11.5	7800	1.35	131.6	BK80-../DPE16LB4	388	24900	75000	13.5	6700	1.55
9.7	9300	1.15	153.1	BK80-../DPE16LB4	388	27200	75000	12	7500	1.4
8.6	10500	1.0	171.5	BK80-../DPE16LB4	388	30000	75000	10.5	8600	1.2
8.3	10900	1.05	177.6	BK80Z-../DPE16LB4	431	30000	75000	10	9000	1.3
7.4	12200	0.94	198.9	BK80Z-../DPE16LB4	431	30000	75000	8.9	10100	1.15
6.6	13700	0.84	226.1	BK80Z-../DPE16LB4	431	30000	75000	7.9	11400	1.0
16.5	5400	3.1	91.19	BK90-../DPE16LB4	641	33300	101000	19.5	4650	3.6
14.5	6200	2.7	102.0	BK90-../DPE16LB4	641	36600	107000	17.5	5100	3.3
13	6900	2.4	117.0	BK90-../DPE16LB4	641	39200	113000	15.5	5800	2.9
11.5	7800	2.2	130.9	BK90-../DPE16LB4	641	42700	119400	14	6400	2.6
9.9	9100	1.85	149.5	BK90-../DPE16LB4	641	45600	120000	12	7500	2.2
8.8	10300	1.65	167.2	BK90-../DPE16LB4	641	49400	120000	11	8200	2.0
8.5	10600	1.75	174.7	BK90Z-../DPE16LB4	700	49400	120000	10.5	8600	2.2
7.6	11900	1.55	195.4	BK90Z-../DPE16LB4	700	49400	120000	9.1	9900	1.85
6.3	14400	1.3	234.6	BK90Z-../DPE16LB4	700	49400	120000	7.6	11900	1.55
5.6	16200	1.15	262.5	BK90Z-../DPE16LB4	700	49400	120000	6.8	13300	1.4
5.0	18100	1.0	295.6	BK90Z-../DPE16LB4	700	49400	120000	6.0	15100	1.25
4.5	20100	0.92	330.7	BK90Z-../DPE16LB4	700	49400	120000	5.4	16800	1.1

**P = 11 kW**

50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
405	235	3.1	3.67	BK50-../DPE16LB4	183	115	9400	485	199	3.6
280	345	2.4	5.26	BK50-../DPE16LB4	183	130	10700	340	280	2.9
205	470	1.75	7.29	BK50-../DPE16LB4	183	620	111000	245	390	2.1
152	620	1.5	9.73	BK50-../DPE16LB4	183	5400	15400	182	510	1.85
147	650	1.25	10.00	BK50-../DPE16LB4	183	1220	13200	177	540	1.5
106	890	1.2	13.95	BK50-../DPE16LB4	183	6100	17400	127	740	1.4
97	970	1.1	15.19	BK50-../DPE16LB4	183	6300	18000	117	800	1.3
77	1220	0.86	19.33	BK50-../DPE16LB4	183	6900	19200	92	1020	1.05
205	510	2.9	7.29	BK60-../DPE16LB4	195	2800	14900	245	425	3.4
136	770	2.2	10.82	BK60-../DPE16LB4	195	3200	17000	164	640	2.6
119	880	2.1	12.38	BK60-../DPE16LB4	195	3500	17400	143	730	2.6
107	980	2.0	13.85	BK60-../DPE16LB4	195	3850	18000	128	820	2.4
103	1010	1.9	14.41	BK60-../DPE16LB4	195	3650	18600	123	850	2.3
92	1140	1.75	16.05	BK60-../DPE16LB4	195	4050	18800	111	940	2.1
81	1290	1.7	18.36	BK60-../DPE16LB4	195	4000	19900	97	1080	2.0
72	1450	1.55	20.54	BK60-../DPE16LB4	195	4400	20600	87	1200	1.9
61	1720	1.35	24.45	BK60-../DPE16LB4	195	4850	22000	73	1430	1.6
54	1940	1.2	27.36	BK60-../DPE16LB4	195	5600	23200	65	1610	1.45
44	2350	0.98	33.78	BK60-../DPE16LB4	195	6500	25200	53	1980	1.15
39	2650	0.87	37.80	BK60-../DPE16LB4	195	7300	26500	47	2200	1.05
108	970	3.1	13.70	BK70-../DPE16LB4	278	5400	24800	130	800	3.8
97	1080	2.8	15.16	BK70-../DPE16LB4	278	5600	25800	117	890	3.4
86	1220	2.9	17.24	BK70-../DPE16LB4	278	6500	29200	103	1010	3.5
68	1540	2.6	21.88	BK70-../DPE16LB4	278	6500	30200	81	1290	3.2
60	1750	2.4	24.89	BK70-../DPE16LB4	278	7000	31500	72	1450	2.9
48	2150	2.1	30.90	BK70-../DPE16LB4	278	7500	33600	58	1810	2.5
42	2500	1.9	35.15	BK70-../DPE16LB4	278	8000	35000	51	2050	2.3

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



### P = 11 kW

50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
37	2800	1.75	40.08	BK70-../DPE16LB4	278	8300	36300	44.5	2350	2.1
32.5	3200	1.6	45.59	BK70-../DPE16LB4	278	9000	37900	39	2650	1.95
27.5	3800	1.35	54.15	BK70-../DPE16LB4	278	9900	40200	33	3150	1.65
24	4350	1.2	61.60	BK70-../DPE16LB4	278	11500	42800	29	3600	1.45
21	5000	1.05	70.23	BK70-../DPE16LB4	278	12500	44800	25.5	4100	1.25
18.5	5600	0.93	79.89	BK70-../DPE16LB4	278	14300	47600	22.5	4650	1.1
16.5	6300	0.83	90.96	BK70-../DPE16LB4	278	15300	49900	19.5	5300	0.98
43	2400	3.3	34.22	BK80-../DPE16LB4	388	12600	55400	52	2000	3.9
35.5	2950	2.8	41.78	BK80-../DPE16LB4	388	13500	58700	42.5	2450	3.4
31.5	3300	2.6	46.80	BK80-../DPE16LB4	388	14300	60900	38	2750	3.1
28	3750	2.4	53.21	BK80-../DPE16LB4	388	14800	63100	33.5	3100	2.9
25	4200	2.2	59.60	BK80-../DPE16LB4	388	15700	65500	30	3500	2.6
21	5000	1.95	70.72	BK80-../DPE16LB4	388	16600	68700	25.5	4100	2.3
19	5500	1.85	79.22	BK80-../DPE16LB4	388	17600	71300	22.5	4650	2.2
16.5	6300	1.65	91.53	BK80-../DPE16LB4	388	18300	74200	19.5	5300	1.95
14.5	7200	1.45	102.5	BK80-../DPE16LB4	388	20500	75000	17.5	6000	1.75
13	8000	1.3	117.5	BK80-../DPE16LB4	388	22300	75000	15.5	6700	1.55
11.5	9100	1.15	131.6	BK80-../DPE16LB4	388	24900	75000	13.5	7700	1.35
9.7	10800	0.97	153.1	BK80-../DPE16LB4	388	27200	75000	12	8700	1.2
8.6	12200	0.86	171.5	BK80-../DPE16LB4	388	30000	75000	10.5	10000	1.05
8.3	12600	0.91	177.6	BK80Z-../DPE16LB4	431	30000	75000	10	10500	1.1
7.4	14100	0.82	198.9	BK80Z-../DPE16LB4	431	30000	75000	8.9	11800	0.97
19	5500	3.1	77.51	BK90-../DPE16LB4	641	30300	94400	23	4550	3.7
16.5	6300	2.7	91.19	BK90-../DPE16LB4	641	33300	101000	19.5	5300	3.2
14.5	7200	2.3	102.0	BK90-../DPE16LB4	641	36600	107000	17.5	6000	2.8
13	8000	2.1	117.0	BK90-../DPE16LB4	641	39200	113000	15.5	6700	2.5
11.5	9100	1.85	130.9	BK90-../DPE16LB4	641	42700	119400	14	7500	2.2
9.9	10600	1.6	149.5	BK90-../DPE16LB4	641	45600	120000	12	8700	1.95
8.8	11900	1.4	167.2	BK90-../DPE16LB4	641	49400	120000	11	9500	1.75
8.5	12300	1.5	174.7	BK90Z-../DPE16LB4	700	49400	120000	10.5	10000	1.85
7.6	13800	1.35	195.4	BK90Z-../DPE16LB4	700	49400	120000	9.1	11500	1.6
6.3	16600	1.1	234.6	BK90Z-../DPE16LB4	700	49400	120000	7.6	13800	1.35
5.6	18700	0.99	262.5	BK90Z-../DPE16LB4	700	49400	120000	6.8	15400	1.2
5.0	21000	0.88	295.6	BK90Z-../DPE16LB4	700	49400	120000	6.0	17500	1.05

### P = 15 kW

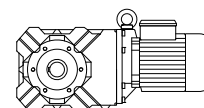
50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
405	325	2.2	3.67	BK50-../DPE16XB4	193	115	9400	485	270	2.7
280	470	1.75	5.26	BK50-../DPE16XB4	193	130	10700	340	385	2.1
205	640	1.25	7.29	BK50-../DPE16XB4	193	620	111000	245	530	1.55
152	840	1.1	9.73	BK50-../DPE16XB4	193	5400	15400	182	700	1.35
147	890	0.91	10.00	BK50-../DPE16XB4	193	1220	13200	177	740	1.1
106	1210	0.87	13.95	BK50-../DPE16XB4	193	6100	17400	127	1010	1.05
97	1320	0.8	15.19	BK50-../DPE16XB4	193	6300	18000	117	1100	0.95
205	690	2.1	7.29	BK60-../DPE16XB4	205	2800	14900	245	580	2.5
136	1050	1.6	10.82	BK60-../DPE16XB4	205	3200	17000	164	870	1.95
119	1200	1.55	12.38	BK60-../DPE16XB4	205	3500	17400	143	1000	1.9
107	1330	1.5	13.85	BK60-../DPE16XB4	205	3850	18000	128	1110	1.8
103	1390	1.4	14.41	BK60-../DPE16XB4	205	3650	18600	123	1160	1.65

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

# BK-series bevel geared motors

## Selection - bevel geared motors

**P = 15 kW**



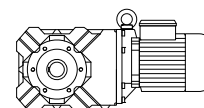
50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
92	1550	1.25	16.05	BK60-../DPE16XB4	205	4050	18800	111	1290	1.55
81	1760	1.25	18.36	BK60-../DPE16XB4	205	4000	19900	97	1470	1.5
72	1980	1.15	20.54	BK60-../DPE16XB4	205	4400	20600	87	1640	1.35
61	2300	1.0	24.45	BK60-../DPE16XB4	205	4850	22000	73	1960	1.15
54	2650	0.87	27.36	BK60-../DPE16XB4	205	5600	23200	65	2200	1.05
108	1320	2.3	13.70	BK70-../DPE16XB4	288	5400	24800	130	1100	2.8
97	1470	2.1	15.16	BK70-../DPE16XB4	288	5600	25800	117	1220	2.5
86	1660	2.1	17.24	BK70-../DPE16XB4	288	6500	29200	103	1390	2.5
68	2100	1.95	21.88	BK70-../DPE16XB4	288	6500	30200	81	1760	2.3
60	2350	1.8	24.89	BK70-../DPE16XB4	288	7000	31500	72	1980	2.2
48	2950	1.55	30.90	BK70-../DPE16XB4	288	7500	33600	58	2450	1.85
42	3400	1.4	35.15	BK70-../DPE16XB4	288	8000	35000	51	2800	1.7
37	3850	1.25	40.08	BK70-../DPE16XB4	288	8300	36300	44.5	3200	1.5
32.5	4400	1.15	45.59	BK70-../DPE16XB4	288	9000	37900	39	3650	1.4
27.5	5200	1.0	54.15	BK70-../DPE16XB4	288	9900	40200	33	4300	1.2
24	5900	0.88	61.60	BK70-../DPE16XB4	288	11500	42800	29	4900	1.05
48.5	2950	2.5	30.56	BK80-../DPE16XB4	398	11900	53400	58	2450	3.1
43	3300	2.4	34.22	BK80-../DPE16XB4	398	12600	55400	52	2750	2.8
35.5	4000	2.1	41.78	BK80-../DPE16XB4	398	13500	58700	42.5	3350	2.5
31.5	4500	1.9	46.80	BK80-../DPE16XB4	398	14300	60900	38	3750	2.3
28	5100	1.75	53.21	BK80-../DPE16XB4	398	14800	63100	33.5	4250	2.1
25	5700	1.6	59.60	BK80-../DPE16XB4	398	15700	65500	30	4750	1.95
21	6800	1.4	70.72	BK80-../DPE16XB4	398	16600	68700	25.5	5600	1.7
19	7500	1.35	79.22	BK80-../DPE16XB4	398	17600	71300	22.5	6300	1.6
16.5	8600	1.2	91.53	BK80-../DPE16XB4	398	18300	74200	19.5	7300	1.4
14.5	9800	1.05	102.5	BK80-../DPE16XB4	398	20500	75000	17.5	8100	1.3
13	11000	0.95	117.5	BK80-../DPE16XB4	398	22300	75000	15.5	9200	1.15
11.5	12400	0.85	131.6	BK80-../DPE16XB4	398	24900	75000	13.5	10600	0.99
27	5300	3.0	54.98	BK90-../DPE16XB4	651	24000	81000	32.5	4400	3.7
24	5900	2.8	61.52	BK90-../DPE16XB4	651	25500	84600	29	4900	3.4
21.5	6600	2.5	69.27	BK90-../DPE16XB4	651	27200	88900	26	5500	3.1
19	7500	2.2	77.51	BK90-../DPE16XB4	651	30300	94400	23	6200	2.7
16.5	8600	1.95	91.19	BK90-../DPE16XB4	651	33300	101000	19.5	7300	2.3
14.5	9800	1.7	102.0	BK90-../DPE16XB4	651	36600	107000	17.5	8100	2.1
13	11000	1.55	117.0	BK90-../DPE16XB4	651	39200	113000	15.5	9200	1.85
11.5	12400	1.35	130.9	BK90-../DPE16XB4	651	42700	119400	14	10200	1.65
9.9	14400	1.15	149.5	BK90-../DPE16XB4	651	45600	120000	12	11900	1.4
8.8	16200	1.05	167.2	BK90-../DPE16XB4	651	49400	120000	11	13000	1.3
8.5	16800	1.1	174.7	BK90Z-../DPE16XB4	710	49400	120000	10.5	13600	1.35
7.6	18800	0.98	195.4	BK90Z-../DPE16XB4	710	49400	120000	9.1	15700	1.2
6.3	22700	0.81	234.6	BK90Z-../DPE16XB4	710	49400	120000	7.6	18800	0.98

**P = 18.5 kW**

50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
405	400	1.8	3.67	BK50-../DPE18LB4	245	115	9400	485	335	2.1
280	580	1.4	5.26	BK50-../DPE18LB4	245	130	10700	340	475	1.7
205	790	1.05	7.29	BK50-../DPE18LB4	245	620	111000	245	660	1.25
205	860	1.7	7.29	BK60-../DPE18LB4	252	2800	14900	245	720	2.0
136	1290	1.3	10.82	BK60-../DPE18LB4	252	3200	17000	164	1070	1.55

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

### P = 18.5 kW



50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
103	1710	1.15	14.41	BK60-../DPE18LB4	252	3650	18600	123	1430	1.35
81	2150	1.0	18.36	BK60-../DPE18LB4	252	4000	19900	97	1820	1.2
72	2450	0.92	20.54	BK60-../DPE18LB4	252	4400	20600	87	2000	1.15
61	2850	0.81	24.45	BK60-../DPE18LB4	252	4850	22000	73	2400	0.96
97	1820	1.7	15.16	BK70-../DPE18LB4	329	5600	25800	117	1510	2.0
86	2050	1.7	17.24	BK70-../DPE18LB4	329	6500	29200	103	1710	2.0
68	2550	1.6	21.88	BK70-../DPE18LB4	329	6500	30200	81	2150	1.9
60	2900	1.45	24.89	BK70-../DPE18LB4	329	7000	31500	72	2450	1.75
48	3650	1.25	30.90	BK70-../DPE18LB4	329	7500	33600	58	3000	1.5
42	4200	1.15	35.15	BK70-../DPE18LB4	329	8000	35000	51	3450	1.35
37	4750	1.05	40.08	BK70-../DPE18LB4	329	8300	36300	44.5	3950	1.25
32.5	5400	0.95	45.59	BK70-../DPE18LB4	329	9000	37900	39	4500	1.15
27.5	6400	0.81	54.15	BK70-../DPE18LB4	329	9900	40200	33	5300	0.98
103	1710	2.5	14.34	BK80-../DPE18LB4	443	7900	36200	124	1420	3.0
93	1890	2.5	15.88	BK80-../DPE18LB4	443	8400	38600	112	1570	3.0
83	2100	2.5	17.79	BK80-../DPE18LB4	443	9400	42100	100	1760	3.0
76	2300	2.5	19.35	BK80-../DPE18LB4	443	9500	44000	92	1920	3.0
67	2600	2.6	22.19	BK80-../DPE18LB4	443	10500	48500	80	2200	3.1
60	2900	2.4	24.85	BK80-../DPE18LB4	443	11200	50400	72	2450	2.9
48.5	3600	2.1	30.56	BK80-../DPE18LB4	443	11900	53400	58	3000	2.5
43	4100	1.9	34.22	BK80-../DPE18LB4	443	12600	55400	52	3350	2.3
35.5	4950	1.65	41.78	BK80-../DPE18LB4	443	13500	58700	42.5	4150	2.0
31.5	5600	1.55	46.80	BK80-../DPE18LB4	443	14300	60900	38	4600	1.85
28	6300	1.4	53.21	BK80-../DPE18LB4	443	14800	63100	33.5	5200	1.7
25	7000	1.3	59.60	BK80-../DPE18LB4	443	15700	65500	30	5800	1.6
21	8400	1.15	70.72	BK80-../DPE18LB4	443	16600	68700	25.5	6900	1.4
19	9200	1.1	79.22	BK80-../DPE18LB4	443	17600	71300	22.5	7800	1.3
16.5	10700	0.97	91.53	BK80-../DPE18LB4	443	18300	74200	19.5	9000	1.15
14.5	12100	0.87	102.5	BK80-../DPE18LB4	443	20500	75000	17.5	10000	1.05
36	4900	3.0	40.94	BK90-../DPE18LB4	698	21400	73100	43.5	4050	3.7
32.5	5400	2.9	45.80	BK90-../DPE18LB4	698	22700	76300	39	4500	3.4
27	6500	2.5	54.98	BK90-../DPE18LB4	698	24000	81000	32.5	5400	3.0
24	7300	2.3	61.52	BK90-../DPE18LB4	698	25500	84600	29	6000	2.8
21.5	8200	2.0	69.27	BK90-../DPE18LB4	698	27200	88900	26	6700	2.5
19	9200	1.85	77.51	BK90-../DPE18LB4	698	30300	94400	23	7600	2.2
16.5	10700	1.55	91.19	BK90-../DPE18LB4	698	33300	101000	19.5	9000	1.85
14.5	12100	1.4	102.0	BK90-../DPE18LB4	698	36600	107000	17.5	10000	1.7
13	13500	1.25	117.0	BK90-../DPE18LB4	698	39200	113000	15.5	11300	1.5
11.5	15300	1.1	130.9	BK90-../DPE18LB4	698	42700	119400	14	12600	1.35
9.9	17800	0.94	149.5	BK90-../DPE18LB4	698	45600	120000	12	14700	1.15
8.8	20000	0.84	167.2	BK90-../DPE18LB4	698	49400	120000	11	16000	1.05
8.5	20700	0.89	174.7	BK90Z-../DPE18LB4	751	49400	120000	10.5	16800	1.1
7.6	23200	0.8	195.4	BK90Z-../DPE18LB4	751	49400	120000	9.1	19400	0.95

### P = 22 kW

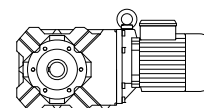
50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
97	2150	1.4	15.16	BK70-../DPE18XB4	347	5600	25800	117	1790	1.7
86	2400	1.45	17.24	BK70-../DPE18XB4	347	6500	29200	103	2000	1.75
68	3050	1.35	21.88	BK70-../DPE18XB4	347	6500	30200	81	2550	1.6
60	3500	1.2	24.89	BK70-../DPE18XB4	347	7000	31500	72	2900	1.45

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

# BK-series bevel geared motors

## Selection - bevel geared motors

**P = 22 kW**



50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
48	4350	1.05	30.90	BK70-../DPE18XB4	347	7500	33600	58	3600	1.25
42	5000	0.95	35.15	BK70-../DPE18XB4	347	8000	35000	51	4100	1.15
37	5600	0.87	40.08	BK70-../DPE18XB4	347	8300	36300	44.5	4700	1.05
32.5	6400	0.8	45.59	BK70-../DPE18XB4	347	9000	37900	39	5300	0.97
103	2000	2.1	14.34	BK80-../DPE18XB4	461	7900	36200	124	1690	2.5
93	2250	2.1	15.88	BK80-../DPE18XB4	461	8400	38600	112	1870	2.6
83	2500	2.1	17.79	BK80-../DPE18XB4	461	9400	42100	100	2100	2.5
76	2750	2.1	19.35	BK80-../DPE18XB4	461	9500	44000	92	2250	2.6
67	3100	2.2	22.19	BK80-../DPE18XB4	461	10500	48500	80	2600	2.6
60	3500	2.0	24.85	BK80-../DPE18XB4	461	11200	50400	72	2900	2.4
48.5	4300	1.75	30.56	BK80-../DPE18XB4	461	11900	53400	58	3600	2.1
43	4850	1.6	34.22	BK80-../DPE18XB4	461	12600	55400	52	4000	1.95
35.5	5900	1.4	41.78	BK80-../DPE18XB4	461	13500	58700	42.5	4900	1.7
31.5	6600	1.3	46.80	BK80-../DPE18XB4	461	14300	60900	38	5500	1.55
28	7500	1.2	53.21	BK80-../DPE18XB4	461	14800	63100	33.5	6200	1.45
25	8400	1.1	59.60	BK80-../DPE18XB4	461	15700	65500	30	7000	1.3
21	10000	0.96	70.72	BK80-../DPE18XB4	461	16600	68700	25.5	8200	1.15
19	11000	0.91	79.22	BK80-../DPE18XB4	461	17600	71300	22.5	9300	1.1
16.5	12700	0.82	91.53	BK80-../DPE18XB4	461	18300	74200	19.5	10700	0.97
48.5	4300	3.1	30.47	BK90-../DPE18XB4	716	19100	65900	59	3550	3.8
43.5	4800	2.9	34.09	BK90-../DPE18XB4	716	20300	68800	52	4000	3.5
36	5800	2.5	40.94	BK90-../DPE18XB4	716	21400	73100	43.5	4800	3.1
32.5	6400	2.4	45.80	BK90-../DPE18XB4	716	22700	76300	39	5300	2.9
27	7700	2.1	54.98	BK90-../DPE18XB4	716	24000	81000	32.5	6400	2.5
24	8700	1.95	61.52	BK90-../DPE18XB4	716	25500	84600	29	7200	2.3
21.5	9700	1.75	69.27	BK90-../DPE18XB4	716	27200	88900	26	8000	2.1
19	11000	1.55	77.51	BK90-../DPE18XB4	716	30300	94400	23	9100	1.85
16.5	12700	1.3	91.19	BK90-../DPE18XB4	716	33300	101000	19.5	10700	1.55
14.5	14400	1.15	102.0	BK90-../DPE18XB4	716	36600	107000	17.5	12000	1.4
13	16100	1.05	117.0	BK90-../DPE18XB4	716	39200	113000	15.5	13500	1.25
11.5	18200	0.92	130.9	BK90-../DPE18XB4	716	42700	119400	14	15000	1.1

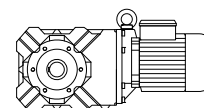
**P = 30 kW**

50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
98	2900	1.05	15.16	BK70-../DPE20LA4	502	5600	25800	119	2400	1.25
86	3300	1.05	17.24	BK70-../DPE20LA4	502	6500	29200	104	2750	1.25
68	4200	0.97	21.88	BK70-../DPE20LA4	502	6500	30200	82	3450	1.2
60	4750	0.9	24.89	BK70-../DPE20LA4	502	7000	31500	72	3950	1.1
104	2750	1.55	14.34	BK80-../DPE20LA4	614	7900	36200	125	2250	1.9
94	3000	1.6	15.88	BK80-../DPE20LA4	614	8400	38600	113	2500	1.9
84	3400	1.55	17.79	BK80-../DPE20LA4	614	9400	42100	101	2800	1.9
77	3700	1.55	19.35	BK80-../DPE20LA4	614	9500	44000	93	3050	1.9
67	4250	1.6	22.19	BK80-../DPE20LA4	614	10500	48500	81	3500	1.95
60	4750	1.5	24.85	BK80-../DPE20LA4	614	11200	50400	73	3900	1.8
48.5	5900	1.25	30.56	BK80-../DPE20LA4	614	11900	53400	59	4850	1.55
43.5	6500	1.2	34.22	BK80-../DPE20LA4	614	12600	55400	53	5400	1.45
35.5	8000	1.05	41.78	BK80-../DPE20LA4	614	13500	58700	43	6600	1.25
32	8900	0.96	46.80	BK80-../DPE20LA4	614	14300	60900	38.5	7400	1.15
28	10200	0.87	53.21	BK80-../DPE20LA4	614	14800	63100	34	8400	1.05
25	11400	0.81	59.60	BK80-../DPE20LA4	614	15700	65500	30.5	9300	0.99

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



### P = 30 kW



50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
92	3100	3.3	16.21	BK90-../DPE20LA4	869	15400	52400	111	2550	4.0
82	3450	3.3	18.07	BK90-../DPE20LA4	869	15600	54400	100	2850	4.0
74	3850	3.1	20.21	BK90-../DPE20LA4	869	16600	56700	89	3200	3.8
67	4250	2.9	22.29	BK90-../DPE20LA4	869	16900	59100	81	3500	3.5
60	4750	2.7	24.94	BK90-../DPE20LA4	869	18000	61700	72	3950	3.3
49	5800	2.3	30.47	BK90-../DPE20LA4	869	19100	65900	59	4850	2.8
43.5	6500	2.2	34.09	BK90-../DPE20LA4	869	20300	68800	53	5400	2.6
36.5	7800	1.9	40.94	BK90-../DPE20LA4	869	21400	73100	44	6500	2.3
32.5	8800	1.75	45.80	BK90-../DPE20LA4	869	22700	76300	39.5	7200	2.1
27	10600	1.5	54.98	BK90-../DPE20LA4	869	24000	81000	33	8600	1.9
24.5	11600	1.45	61.52	BK90-../DPE20LA4	869	25500	84600	29.5	9700	1.75
21.5	13300	1.25	69.27	BK90-../DPE20LA4	869	27200	88900	26	11000	1.55
19.5	14600	1.15	77.51	BK90-../DPE20LA4	869	30300	94400	23.5	12100	1.4
16.5	17300	0.97	91.19	BK90-../DPE20LA4	869	33300	101000	20	14300	1.15
15	19100	0.88	102.0	BK90-../DPE20LA4	869	36600	107000	18	15900	1.05

### P = 37 kW

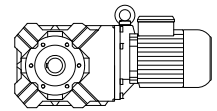
50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
104	3350	1.3	14.34	BK80-../DPE22SA4	613	7900	36200	125	2800	1.55
94	3750	1.3	15.88	BK80-../DPE22SA4	613	8400	38600	113	3100	1.55
84	4200	1.25	17.79	BK80-../DPE22SA4	613	9400	42100	101	3450	1.5
77	4550	1.25	19.35	BK80-../DPE22SA4	613	9500	44000	93	3750	1.55
67	5200	1.3	22.19	BK80-../DPE22SA4	613	10500	48500	81	4350	1.55
60	5800	1.2	24.85	BK80-../DPE22SA4	613	11200	50400	73	4800	1.5
48.5	7200	1.05	30.56	BK80-../DPE22SA4	613	11900	53400	59	5900	1.25
103	3400	2.7	14.49	BK90-../DPE22SA4	868	14500	50400	124	2800	3.3
92	3800	2.7	16.21	BK90-../DPE22SA4	868	15400	52400	111	3150	3.3
82	4300	2.7	18.07	BK90-../DPE22SA4	868	15600	54400	100	3500	3.3
74	4750	2.5	20.21	BK90-../DPE22SA4	868	16600	56700	89	3950	3.0
67	5200	2.4	22.29	BK90-../DPE22SA4	868	16900	59100	81	4350	2.8
60	5800	2.2	24.94	BK90-../DPE22SA4	868	18000	61700	72	4900	2.6
49	7200	1.9	30.47	BK90-../DPE22SA4	868	19100	65900	59	5900	2.3
43.5	8100	1.75	34.09	BK90-../DPE22SA4	868	20300	68800	53	6600	2.1
36.5	9600	1.55	40.94	BK90-../DPE22SA4	868	21400	73100	44	8000	1.85
32.5	10800	1.45	45.80	BK90-../DPE22SA4	868	22700	76300	39.5	8900	1.75
27	13000	1.25	54.98	BK90-../DPE22SA4	868	24000	81000	33	10700	1.5
24.5	14400	1.15	61.52	BK90-../DPE22SA4	868	25500	84600	29.5	11900	1.4
21.5	16400	1.0	69.27	BK90-../DPE22SA4	868	27200	88900	26	13500	1.25

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

# BK-series bevel geared motors

## Selection - bevel geared motors

**P = 45 kW**



50 Hz			i	Type	m	F <sub>RN</sub>	F <sub>RV</sub>	60 Hz		
n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>						n <sub>2</sub> 1/min	M <sub>2</sub> Nm	f <sub>B</sub>
104	4100	1.05	14.34	BK80-../DPE22MA4	670	7900	36200	125	3400	1.25
94	4550	1.05	15.88	BK80-../DPE22MA4	670	8400	38600	113	3800	1.25
84	5100	1.05	17.79	BK80-../DPE22MA4	670	9400	42100	101	4250	1.25
77	5500	1.05	19.35	BK80-../DPE22MA4	670	9500	44000	93	4600	1.25
67	6400	1.05	22.19	BK80-../DPE22MA4	670	10500	48500	81	5300	1.3
60	7100	1.0	24.85	BK80-../DPE22MA4	670	11200	50400	73	5800	1.2
103	4150	2.2	14.49	BK90-../DPE22MA4	925	14500	50400	124	3450	2.7
92	4650	2.2	16.21	BK90-../DPE22MA4	925	15400	52400	111	3850	2.7
82	5200	2.2	18.07	BK90-../DPE22MA4	925	15600	54400	100	4250	2.7
74	5800	2.1	20.21	BK90-../DPE22MA4	925	16600	56700	89	4800	2.5
67	6400	1.9	22.29	BK90-../DPE22MA4	925	16900	59100	81	5300	2.3
60	7100	1.8	24.94	BK90-../DPE22MA4	925	18000	61700	72	5900	2.2
49	8700	1.55	30.47	BK90-../DPE22MA4	925	19100	65900	59	7200	1.9
43.5	9800	1.45	34.09	BK90-../DPE22MA4	925	20300	68800	53	8100	1.75
36.5	11700	1.25	40.94	BK90-../DPE22MA4	925	21400	73100	44	9700	1.5
32.5	13200	1.15	45.80	BK90-../DPE22MA4	925	22700	76300	39.5	10800	1.45
27	15900	1.0	54.98	BK90-../DPE22MA4	925	24000	81000	33	13000	1.25