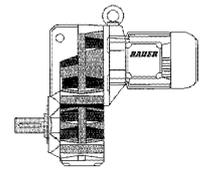


11 BF-series shaft-mounted geared motors



11.1 Description of shaft-mounted gear units

11.1.1 Sizes

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

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

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

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

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

See Danfoss Bauer special imprint SD32 for more information.

11.1.2.1 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
		≤ 8 h	≤ 16 h	≤ 24 h
I		0,8	1,0	1,2
II		1,05	1,25	1,45
III		1,45	1,55	1,7

11.1.2.2 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

Series BF

11.1.2.3
DV-series wide-voltage motors and energy-saving motors (eff 1)

Factors f_1 and f_2 must be increased according to shock classification:

Shock classification I	x 1,2
Shock classification II	x 1,5
Shock classification III	x 1,8

11.1.2.4
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 $f_B = f_2 = 1.5$

11.1.2.5
Explanation of shock classification

Shock classification I:

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

- $FI \leq 1,3$
- $M/MN \leq 1,0$
- 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:

- $1,3 < FI \leq 4$
- $1 < M/MN \leq 1,6$
- 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:

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

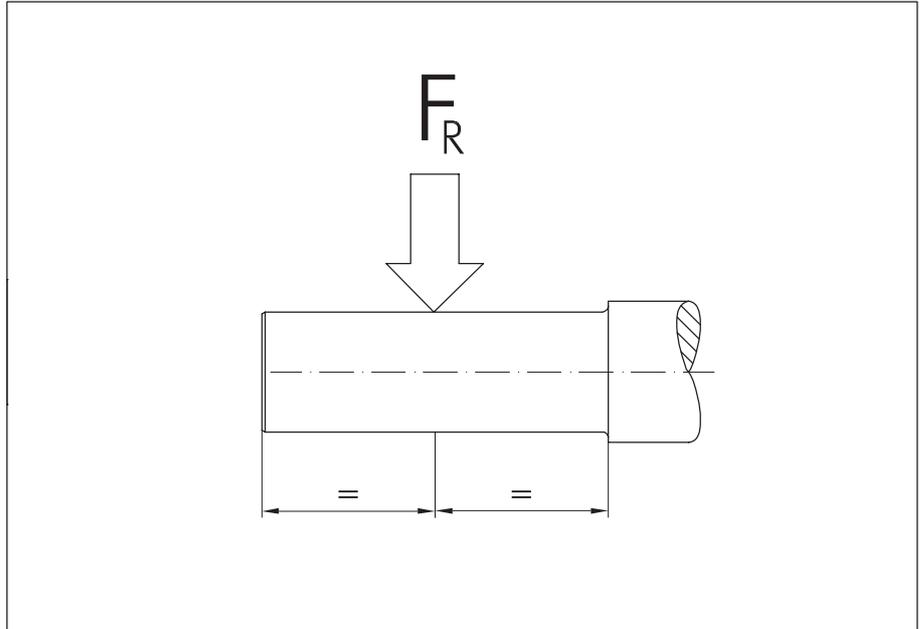
11.1.2.6
Key to abbreviations

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/M_N	Relative shock in relation to the rated torque
φ_N	Torsional offset of the resilient coupling under rated torque

11.2 Selection tables, shaft-mounted geared motors

Key to abbreviations

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



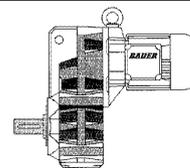
Use the selection tables to determine the size of geared motor required. The codes clearly define the type of gear unit and output shaft (see dimensional drawing).

The torques marked (*) are maximum permissible torques for service factor $f_B=1,0$.

Motor power overload protection

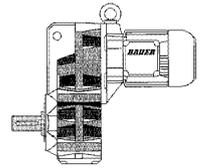
Motor-power ratings, particularly in conjunction with four-stage and multi-stage gear units, are more than ample in some instances. Consequently, and in much the same way as with low-power motors, rated current is not a measure of gear loading and cannot be used to protect the gear unit against overloading.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

P = 0.03 kW



50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
9.0	31.5	7.6	151.2	BF10Z-../D04LA4	21	6400	-	11	26	9.2
8.2	34.5	7.0	166.2	"	"	6400	-	9.8	29	8.3
7.5	38	6.3	180.1	"	"	6400	-	9.0	31.5	7.6
6.9	41.5	5.8	198.0	"	"	6400	-	8.2	34.5	7.0
6.3	45	5.3	214.5	"	"	6400	-	7.6	37.5	6.4
5.8	49	4.9	235.8	"	"	6400	-	6.9	41.5	5.8
5.3	54	4.4	257.4	"	"	6400	-	6.3	45	5.3
4.8	59	4.1	283.1	"	"	6400	-	5.8	49	4.9
4.2	68	3.5	324.3	"	"	6400	-	5.0	57	4.2
3.8	75	3.2	356.6	"	"	6400	-	4.6	62	3.9
3.6	79	3.0	380.2	"	"	6400	-	4.3	66	3.6
3.3	86	2.8	418.0	"	"	6400	-	3.9	73	3.3
2.9	98	2.4	469.5	"	"	6400	-	3.5	81	3.0
2.6	110	2.2	539.1	"	"	6400	-	3.1	92	2.6
2.3	124	1.95	592.8	"	"	6400	-	2.8	102	2.4
1.8	97	2.7	768.2	BF10G06-../D04LA4	25	6400	-	2.2	68	3.8
1.6	110	2.4	845.1	"	"	6400	-	2.0	75	3.5
1.4	130	2.0	994.0	"	"	6400	-	1.7	94	2.8
1.2	159	1.65	1190	"	"	6400	-	1.4	125	2.1
0.95	210	1.25	1452	"	"	6400	-	1.2	150	1.75
0.8	260*	1.0	1744	"	"	6400	-	0.95	260	1.0
0.65	260*	1.0	2096	"	"	6400	-	0.8	260	1.0
0.55	260*	1.0	2467	"	"	6400	-	0.7	260	1.0
0.46	260*	1.0	2952	"	"	6400	-	0.55	260	1.0
0.42	260*	1.0	3220	"	"	6400	-	0.55	260	1.0
0.35	260*	1.0	3942	"	"	6400	-	0.42	260	1.0
0.3	260*	1.0	4569	"	"	6400	-	0.36	260	1.0
0.24	260*	1.0	5709	"	"	6400	-	0.29	260	1.0
0.21	260*	1.0	6550	"	"	6400	-	0.25	260	1.0
0.19	260*	1.0	7144	"	"	6400	-	0.23	260	1.0
0.16	260*	1.0	8681	"	"	6400	-	0.19	260	1.0
0.15	260*	1.0	9471	"	"	6400	-	0.18	260	1.0
1.2	162	2.8	1140	BF20G06-../D04LA4	31	7900	-	1.5	114	4.0
1.0	200	2.3	1392	"	"	7900	-	1.2	154	3.0
0.9	230	2.0	1533	"	"	7900	-	1.1	173	2.7
0.8	265	1.75	1764	"	"	7900	-	0.95	210	2.2
0.65	345	1.35	2192	"	"	7900	-	0.75	285	1.6
0.55	410	1.1	2579	"	"	7900	-	0.65	330	1.4
0.48	460*	1.0	2829	"	"	7900	-	0.6	460	1.0
0.44	460*	1.0	3086	"	"	7900	-	0.55	460	1.0
0.36	460*	1.0	3778	"	"	7900	-	0.43	460	1.0
0.31	460*	1.0	4379	"	"	7900	-	0.37	460	1.0
0.25	460*	1.0	5471	"	"	7900	-	0.3	460	1.0
0.2	460*	1.0	6847	"	"	7900	-	0.24	460	1.0
0.17	460*	1.0	8320	"	"	7900	-	0.2	460	1.0
0.15	460*	1.0	9077	"	"	7900	-	0.18	460	1.0
1.0	200	3.2	1404	BF30G06-../D04LA4	41	7400	-	1.2	153	4.1
0.85	245	2.6	1686	"	"	7400	-	1.0	196	3.2
0.7	315	2.0	2026	"	"	7400	-	0.8	260	2.4
0.6	370	1.7	2386	"	"	7400	-	0.7	305	2.1
0.48	485	1.3	2854	"	"	7400	-	0.6	365	1.75
0.39	610	1.05	3493	"	"	7400	-	0.47	485	1.3
0.36	630*	1.0	3811	"	"	7400	-	0.43	630	1.0
0.31	630*	1.0	4417	"	"	7400	-	0.37	630	1.0
0.27	630*	1.0	5060	"	"	7400	-	0.33	630	1.0
0.22	630*	1.0	6333	"	"	7400	-	0.26	630	1.0
0.19	630*	1.0	7206	"	"	7400	-	0.23	630	1.0
0.18	630*	1.0	7861	"	"	7400	-	0.21	630	1.0
0.15	630*	1.0	9157	"	"	7400	-	0.18	630	1.0

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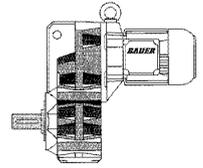


50 Hz			i	Type	m kg	F _{RN} N	F _{RV} N	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
9.0	42	5.7	151.2	BF10Z-../D04LA4	21	6400	-	11	34.5	7.0
8.2	46.5	5.2	166.2	"	"	6400	-	9.8	38.5	6.2
7.5	50	4.8	180.1	"	"	6400	-	9.0	42	5.7
6.9	55	4.4	198.0	"	"	6400	-	8.2	46.5	5.2
6.3	60	4.0	214.5	"	"	6400	-	7.6	50	4.8
5.8	65	3.7	235.8	"	"	6400	-	6.9	55	4.4
5.3	72	3.3	257.4	"	"	6400	-	6.3	60	4.0
4.8	79	3.0	283.1	"	"	6400	-	5.8	65	3.7
4.2	90	2.7	324.3	"	"	6400	-	5.0	76	3.2
3.8	100	2.4	356.6	"	"	6400	-	4.6	83	2.9
3.6	106	2.3	380.2	"	"	6400	-	4.3	88	2.7
3.3	115	2.1	418.0	"	"	6400	-	3.9	97	2.5
2.9	131	1.85	469.5	"	"	6400	-	3.5	109	2.2
2.6	146	1.65	539.1	"	"	6400	-	3.1	123	1.95
2.3	166	1.45	592.8	"	"	6400	-	2.8	136	1.75
2.1	119	2.2	643.8	BF10G06-../D04LA4	25	6400	-	2.6	84	3.1
1.8	150	1.75	768.2	"	"	6400	-	2.2	111	2.3
1.6	170	1.55	845.1	"	"	6400	-	2.0	122	2.1
1.4	199	1.3	994.0	"	"	6400	-	1.7	150	1.75
1.2	235	1.1	1190	"	"	6400	-	1.4	193	1.35
3.0	127	3.3	460.0	BF20Z-../D04LA4	28	7900	-	3.6	106	4.0
1.9	141	3.3	736.1	BF20G06-../D04LA4	31	7900	-	2.3	106	4.3
1.7	159	2.9	810.0	"	"	7900	-	2.0	125	3.7
1.5	183	2.5	952.7	"	"	7900	-	1.8	141	3.3
1.2	240	1.9	1140	"	"	7900	-	1.5	178	2.6
1.0	295	1.55	1392	"	"	7900	-	1.2	230	2.0
0.9	335	1.35	1533	"	"	7900	-	1.1	260	1.75
0.8	385	1.2	1764	"	"	7900	-	0.95	310	1.5
1.2	240	2.6	1150	BF30G06-../D04LA4	41	7400	-	1.5	177	3.6
1.1	265	2.4	1286	"	"	7400	-	1.3	210	3.0
1.0	295	2.1	1404	"	"	7400	-	1.2	230	2.7
0.85	355	1.75	1686	"	"	7400	-	1.0	290	2.2
0.7	450	1.4	2026	"	"	7400	-	0.8	380	1.65
0.6	530	1.2	2386	"	"	7400	-	0.7	440	1.45

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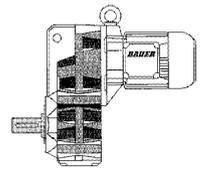
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n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
51	11.2	8.5	26.76	BF06-../D05LA4	10	3000	-	61	9.3	10
43	13.3	7.1	31.50	"	"	3200	-	52	11	8.6
36	15.9	6.0	37.69	"	"	3500	-	43	13.3	7.1
29.5	19.4	4.9	46.14	"	"	3800	-	35.5	16.1	5.9
23.5	24	4.0	58.33	"	"	4000	-	28	20	4.8
20.5	27.5	3.5	66.82	"	"	4000	-	24.5	23	4.1
16.5	34.5	2.8	83.61	"	"	4000	-	19.5	29	3.3
14.5	39.5	2.4	95.16	"	"	4000	-	17.5	32.5	2.9
12.5	45.5	1.8	110.8	"	"	4000	-	15	38	2.1
7.5	76	3.2	180.1	BF10Z-../D06LA4	24	6400	-	9.0	63	3.8
6.9	83	2.9	198.0	"	"	6400	-	8.2	69	3.5
6.3	90	2.7	214.5	"	"	6400	-	7.6	75	3.2
5.8	98	2.4	235.8	"	"	6400	-	6.9	83	2.9
5.3	108	2.2	257.4	"	"	6400	-	6.3	90	2.7
4.8	119	2.0	283.1	"	"	6400	-	5.8	98	2.4
4.2	136	1.75	324.3	"	"	6400	-	5.0	114	2.1
3.8	150	1.6	356.6	"	"	6400	-	4.6	124	1.95
3.6	159	1.5	380.2	"	"	6400	-	4.3	133	1.8
3.3	173	1.4	418.0	"	"	6400	-	3.9	146	1.65

P = 0.06 kW



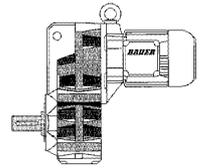
50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
2.9	197	1.2	469.5	BF10Z-../D06LA4	"	6400	-	3.5	163	1.45
2.6	220	1.1	539.1	"	"	6400	-	3.1	184	1.3
2.3	245	0.98	592.8	"	"	6400	-	2.8	200	1.2
2.1	210	1.25	643.8	BF10G06-../D06LA4	28	6400	-	2.6	157	1.65
1.8	255	1.0	768.2	"	"	6400	-	2.2	198	1.3
1.6	290	0.9	845.1	"	"	6400	-	2.0	215	1.2
4.2	136	3.1	325.2	BF20Z-../D06LA4	31	7900	-	5.0	114	3.7
4.0	143	2.9	339.1	"	"	7900	-	4.8	119	3.5
3.7	154	2.7	373.1	"	"	7900	-	4.4	130	3.2
3.3	173	2.4	418.1	"	"	7900	-	3.9	146	2.9
3.0	191	2.2	460.0	"	"	7900	-	3.6	159	2.6
2.7	157	2.9	513.7	BF20G06-../D06LA4	34	7900	-	3.2	124	3.7
2.2	200	2.3	617.0	"	"	7900	-	2.7	152	3.0
1.9	240	1.9	736.1	"	"	7900	-	2.3	189	2.4
1.7	270	1.7	810.0	"	"	7900	-	2.0	220	2.1
1.5	310	1.5	952.7	"	"	7900	-	1.8	245	1.9
1.2	400	1.15	1140	"	"	7900	-	1.5	305	1.5
1.0	485	0.95	1392	"	"	7900	-	1.2	390	1.2
3.3	173	3.3	412.6	BF30Z-../D06LA4	42	7400	-	4.0	143	4.0
3.0	191	3.0	463.3	"	"	7400	-	3.5	163	3.5
2.6	220	2.6	537.0	"	"	7400	-	3.1	184	3.1
2.3	245	2.3	590.7	"	"	7400	-	2.8	200	2.9
2.2	200	3.2	622.4	BF30G06-../D06LA4	45	7400	-	2.7	151	4.2
2.0	225	2.8	705.1	"	"	7400	-	2.3	192	3.3
1.7	270	2.3	817.1	"	"	7400	-	2.0	220	2.9
1.5	310	2.0	961.1	"	"	7400	-	1.7	265	2.4
1.2	400	1.6	1150	"	"	7400	-	1.5	305	2.1
1.1	435	1.45	1286	"	"	7400	-	1.3	355	1.75
1.0	485	1.3	1404	"	"	7400	-	1.2	390	1.6
0.85	580	1.1	1686	"	"	7400	-	1.0	480	1.3
0.95	340	2.9	1484	BF40G10-../D06LA4	58	10600	-	1.1	255	3.9
0.75	460	2.2	1810	"	"	10600	-	0.9	335	3.0
0.7	500	2.0	1997	"	"	10600	-	0.85	360	2.8
0.55	710	1.4	2536	"	"	10600	-	0.65	550	1.8
0.49	840	1.2	2810	"	"	10600	-	0.6	620	1.6
0.7	520	2.7	2059	BF50G10-../D06LA4	86	13600	-	0.8	415	3.4
0.6	640	2.2	2360	"	"	13600	-	0.7	510	2.7
0.49	860	1.65	2810	"	"	13600	-	0.6	640	2.2
0.41	1090	1.3	3348	"	"	13600	-	0.49	860	1.65
0.34	1370	1.0	4019	"	"	13600	-	0.41	1090	1.3
0.42	860	2.9	3237	BF60G20-../D06LA4	134	15300	43300	0.55	530	4.7
0.35	1130	2.2	3883	"	"	15300	43300	0.42	860	2.9
0.3	1400	1.8	4646	"	"	15300	43300	0.35	1130	2.2
0.26	1700	1.45	5241	"	"	15300	43300	0.31	1340	1.85
0.23	1980	1.25	6014	"	"	15300	43300	0.27	1620	1.55
0.21	2200	1.15	6679	"	"	15300	43300	0.25	1790	1.4
0.24	1890	3.0	5691	BF70G20-../D06LA4	212	16100	47700	0.29	1480	3.9
0.21	2200	2.6	6530	"	"	16100	47700	0.25	1800	3.2
0.19	2500	2.3	7248	"	"	16100	47700	0.23	2000	2.9
0.17	2850	2.0	8052	"	"	16100	47700	0.21	2200	2.6

P = 0.09 kW



50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
112	7.6	9.9	12.07	BF06-../D05LA4	10	2000	-	135	6.3	11.8
96	8.9	9.6	14.21	"	"	2100	-	115	7.4	11.5
80	10.7	8.9	16.99	"	"	2500	-	96	8.9	10.6
67	12.8	7.4	20.42	"	"	2700	-	80	10.7	8.9
51	16.8	5.7	26.76	"	"	3000	-	61	14	6.8
43	19.9	4.8	31.50	"	"	3200	-	52	16.5	5.8
36	23.5	4.0	37.69	"	"	3500	-	43	19.9	4.8
29.5	29	3.3	46.14	"	"	3800	-	35.5	24	4.0
23.5	36.5	2.6	58.33	"	"	4000	-	28	30.5	3.1
20.5	41.5	2.3	66.82	"	"	4000	-	24.5	35	2.7
16.5	52	1.85	83.61	"	"	4000	-	19.5	44	2.2
14.5	59	1.6	95.16	"	"	4000	-	17.5	49	1.95
12.5	68	1.2	110.8	"	"	4000	-	15	57	1.4
11	78	3.1	123.5	BF10-../D06LA4	23	6100	-	13.5	63	3.8
10.5	81	3.0	128.9	"	"	6200	-	13	66	3.6
9.6	89	2.7	141.8	"	"	6400	-	11.5	74	3.2
9.0	95	2.5	151.2	BF10Z-../D06LA4	24	6400	-	11	78	3.1
8.2	104	2.3	166.2	"	"	6400	-	9.8	87	2.8
7.5	114	2.1	180.1	"	"	6400	-	9.0	95	2.5
6.9	124	1.95	198.0	"	"	6400	-	8.2	104	2.3
6.3	136	1.75	214.5	"	"	6400	-	7.6	113	2.1
5.8	148	1.6	235.8	"	"	6400	-	6.9	124	1.95
5.3	162	1.5	257.4	"	"	6400	-	6.3	136	1.75
4.8	179	1.35	283.1	"	"	6400	-	5.8	148	1.6
4.2	200	1.2	324.3	"	"	6400	-	5.0	171	1.4
3.8	225	1.05	356.6	"	"	6400	-	4.6	186	1.3
3.6	235	1.0	380.2	"	"	6400	-	4.3	199	1.2
3.3	260	0.92	418.0	"	"	6400	-	3.9	220	1.1
2.9	295	0.81	469.5	"	"	6400	-	3.5	245	0.98
2.6	270	0.96	536.0	BF10G06-../D06LA4	28	6400	-	3.1	220	1.2
6.3	136	3.1	216.9	BF20Z-../D06LA4	31	7900	-	7.5	114	3.7
5.8	148	2.8	235.9	"	"	7900	-	6.9	124	3.4
5.3	162	2.6	259.6	"	"	7900	-	6.3	136	3.1
4.6	186	2.3	295.5	"	"	7900	-	5.5	156	2.7
4.2	200	2.1	325.2	"	"	7900	-	5.0	171	2.5
4.0	210	2.0	339.1	"	"	7900	-	4.8	179	2.3
3.7	230	1.85	373.1	"	"	7900	-	4.4	195	2.2
3.3	260	1.6	418.1	"	"	7900	-	3.9	220	1.9
3.0	285	1.45	460.0	"	"	7900	-	3.6	235	1.8
2.7	260	1.75	513.7	BF20G06-../D06LA4	34	7900	-	3.2	210	2.2
2.2	330	1.4	617.0	"	"	7900	-	2.7	255	1.8
1.9	390	1.2	736.1	"	"	7900	-	2.3	310	1.5
1.7	440	1.05	810.0	"	"	7900	-	2.0	360	1.3
1.5	500	0.92	952.7	"	"	7900	-	1.8	405	1.15
4.7	182	3.2	289.8	BF30Z-../D06LA4	42	7400	-	5.6	153	3.8
4.4	195	2.9	310.7	"	"	7400	-	5.3	162	3.5
4.0	210	2.7	341.8	"	"	7400	-	4.8	179	3.2
3.6	235	2.4	375.1	"	"	7400	-	4.4	195	2.9
3.3	260	2.2	412.6	"	"	7400	-	4.0	210	2.7
3.0	285	2.0	463.3	"	"	7400	-	3.5	245	2.3
2.6	330	1.75	537.0	"	"	7400	-	3.1	275	2.1
2.3	370	1.55	590.7	"	"	7400	-	2.8	305	1.9
2.2	330	1.9	622.4	BF30G06-../D06LA4	45	7400	-	2.7	255	2.5
2.0	370	1.7	705.1	"	"	7400	-	2.3	315	2.0
1.7	435	1.45	817.1	"	"	7400	-	2.0	360	1.75
1.5	500	1.25	961.1	"	"	7400	-	1.7	430	1.45
1.2	630	1.0	1150	"	"	7400	-	1.5	495	1.25
1.1	690	0.91	1286	"	"	7400	-	1.3	570	1.1
1.0	770	0.82	1404	"	"	7400	-	1.2	630	1.0

P = 0.09 kW

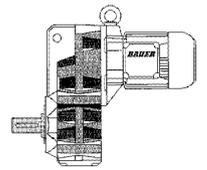


50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
3.0	285	3.2	459.1	BF40Z-../D06LA4	53	10600	-	3.6	235	3.8
2.7	315	2.9	514.6	"	"	10600	-	3.2	265	3.4
2.4	355	2.5	566.1	"	"	10600	-	2.9	295	3.1
1.5	350	2.9	928.9	BF40G10-../D06LA4	58	10600	-	1.8	255	3.9
1.3	420	2.4	1106	"	"	10600	-	1.5	330	3.0
1.1	540	1.85	1324	"	"	10600	-	1.3	425	2.4
0.95	640	1.55	1484	"	"	10600	-	1.1	510	1.95
0.75	840	1.2	1810	"	"	10600	-	0.9	650	1.55
0.7	910	1.1	1997	"	"	10600	-	0.85	690	1.45
1.2	500	2.8	1203	BF50G10-../D06LA4	86	13600	-	1.4	400	3.5
1.0	620	2.3	1359	"	"	13600	-	1.2	475	2.9
0.9	680	2.1	1520	"	"	13600	-	1.1	510	2.7
0.85	730	1.9	1684	"	"	13600	-	1.0	570	2.5
0.7	920	1.5	2059	"	"	13600	-	0.8	770	1.8
0.6	1120	1.25	2360	"	"	13600	-	0.7	920	1.5
0.7	780	3.2	1955	BF60G20-../D06LA4	134	15300	43300	0.85	560	4.5
0.65	860	2.9	2172	"	"	15300	43300	0.75	680	3.7
0.49	1250	2.0	2781	"	"	15300	43300	0.6	930	2.7
0.42	1540	1.6	3237	"	"	15300	43300	0.55	1060	2.4
0.35	1950	1.3	3883	"	"	15300	43300	0.42	1540	1.6
0.3	2350	1.05	4646	"	"	15300	43300	0.35	1950	1.3
0.34	2000	2.9	4090	BF70G20-../D06LA4	212	16100	47700	0.4	1650	3.5
0.3	2350	2.4	4542	"	"	16100	47700	0.36	1890	3.0
0.27	2650	2.2	5124	"	"	16100	47700	0.32	2150	2.7
0.24	3050	1.85	5691	"	"	16100	47700	0.29	2450	2.3
0.21	3600	1.6	6530	"	"	16100	47700	0.25	2900	1.95
0.19	4000	1.45	7248	"	"	16100	47700	0.23	3200	1.8
0.17	4550	1.25	8052	"	"	16100	47700	0.21	3600	1.6

P = 0.12 kW

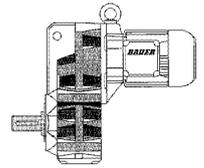
50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
147	7.7	9.1	9.21	BF06-../D05LA4	10	1900	-	176	6.5	10.9
112	10.2	7.4	12.07	"	"	2000	-	135	8.4	8.9
96	11.9	7.1	14.21	"	"	2100	-	115	9.9	8.6
80	14.3	6.6	16.99	"	"	2500	-	96	11.9	8.0
67	17.1	5.6	20.42	"	"	2700	-	80	14.3	6.6
51	22	4.3	26.76	"	"	3000	-	61	18.7	5.1
43	26.5	3.6	31.50	"	"	3200	-	52	22	4.3
36	31.5	3.0	37.69	"	"	3500	-	43	26.5	3.6
29.5	38.5	2.5	46.14	"	"	3800	-	35.5	32	3.0
23.5	48.5	1.95	58.33	"	"	4000	-	28	40.5	2.3
20.5	55	1.75	66.82	"	"	4000	-	24.5	46.5	2.0
16.5	69	1.4	83.61	"	"	4000	-	19.5	58	1.65
14.5	79	1.2	95.16	"	"	4000	-	17.5	65	1.45
12.5	91	0.89	110.8	"	"	4000	-	15	76	1.05
15	76	3.2	90.91	BF10-../D06LA4	23	5400	-	18	63	3.8
14	81	3.0	99.97	"	"	5600	-	16.5	69	3.5
12.5	91	2.6	112.3	"	"	5900	-	14.5	79	3.0
11	104	2.3	123.5	"	"	6100	-	13.5	84	2.9
10.5	109	2.2	128.9	"	"	6200	-	13	88	2.7
9.6	119	2.0	141.8	"	"	6400	-	11.5	99	2.4
9.0	127	1.9	151.2	BF10Z-../D06LA4	24	6400	-	11	104	2.3
8.2	139	1.75	166.2	"	"	6400	-	9.8	116	2.1
7.5	152	1.6	180.1	"	"	6400	-	9.0	127	1.9
6.9	166	1.45	198.0	"	"	6400	-	8.2	139	1.75

P = 0.12 kW



50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
6.3	181	1.35	214.5	BF10Z-../D06LA4	"	6400	-	7.6	150	1.6
5.8	197	1.2	235.8	"	"	6400	-	6.9	166	1.45
5.3	215	1.1	257.4	"	"	6400	-	6.3	181	1.35
4.8	235	1.0	283.1	"	"	6400	-	5.8	197	1.2
4.2	270	0.89	324.3	"	"	6400	-	5.0	225	1.05
3.8	300	0.8	356.6	"	"	6400	-	4.6	245	0.98
3.6	275	0.95	377.9	BF10G06-../D06LA4	28	6400	-	4.3	225	1.15
3.2	310	0.84	424.5	"	"	6400	-	3.9	245	1.05
8.7	131	3.2	155.4	BF20Z-../D06LA4	31	7900	-	10.5	109	3.9
8.3	138	3.0	164.3	"	"	7900	-	9.9	115	3.7
7.5	152	2.8	180.8	"	"	7900	-	9.0	127	3.3
6.9	166	2.5	197.1	"	"	7900	-	8.3	138	3.0
6.3	181	2.3	216.9	"	"	7900	-	7.5	152	2.8
5.8	197	2.1	235.9	"	"	7900	-	6.9	166	2.5
5.3	215	1.95	259.6	"	"	7900	-	6.3	181	2.3
4.6	245	1.7	295.5	"	"	7900	-	5.5	205	2.0
4.2	270	1.55	325.2	"	"	7900	-	5.0	225	1.85
4.0	285	1.45	339.1	"	"	7900	-	4.8	235	1.8
3.7	305	1.4	373.1	"	"	7900	-	4.4	260	1.6
3.3	345	1.2	418.1	"	"	7900	-	3.9	290	1.45
3.0	380	1.1	460.0	"	"	7900	-	3.6	315	1.35
2.7	370	1.25	513.7	BF20G06-../D06LA4	34	7900	-	3.2	300	1.55
2.2	460	1.0	617.0	"	"	7900	-	2.7	360	1.3
1.9	540	0.85	736.1	"	"	7900	-	2.3	435	1.05
6.1	187	3.1	224.8	BF30Z-../D06LA4	42	7400	-	7.3	156	3.7
5.5	205	2.8	247.3	"	"	7400	-	6.6	173	3.3
5.2	220	2.6	263.5	"	"	7400	-	6.2	184	3.1
4.7	240	2.4	289.8	"	"	7400	-	5.6	200	2.9
4.4	260	2.2	310.7	"	"	7400	-	5.3	215	2.7
4.0	285	2.0	341.8	"	"	7400	-	4.8	235	2.4
3.6	315	1.85	375.1	"	"	7400	-	4.4	260	2.2
3.3	345	1.65	412.6	"	"	7400	-	4.0	285	2.0
3.0	380	1.5	463.3	"	"	7400	-	3.5	325	1.75
2.6	440	1.3	537.0	"	"	7400	-	3.1	365	1.6
2.3	495	1.15	590.7	"	"	7400	-	2.8	405	1.4
2.2	460	1.35	622.4	BF30G06-../D06LA4	45	7400	-	2.7	360	1.75
2.0	510	1.25	705.1	"	"	7400	-	2.3	440	1.45
1.7	600	1.05	817.1	"	"	7400	-	2.0	500	1.25
1.5	690	0.91	961.1	"	"	7400	-	1.7	600	1.05
4.2	270	3.3	324.7	BF40Z-../D06LA4	53	10600	-	5.0	225	4.0
3.9	290	3.1	346.8	"	"	10600	-	4.7	240	3.8
3.6	315	2.9	381.5	"	"	10600	-	4.3	265	3.4
3.3	345	2.6	417.3	"	"	10600	-	3.9	290	3.1
3.0	380	2.4	459.1	"	"	10600	-	3.6	315	2.9
2.7	420	2.1	514.6	"	"	10600	-	3.2	355	2.5
2.4	475	1.9	566.1	"	"	10600	-	2.9	395	2.3
2.3	310	3.2	597.3	BF40G10-../D06LA4	58	10600	-	2.8	220	4.5
1.9	395	2.5	731.6	"	"	10600	-	2.3	290	3.4
1.5	540	1.85	928.9	"	"	10600	-	1.8	410	2.4
1.3	640	1.55	1106	"	"	10600	-	1.5	520	1.9
1.1	800	1.25	1324	"	"	10600	-	1.3	640	1.55
0.95	940	1.05	1484	"	"	10600	-	1.1	780	1.3
2.8	405	3.2	496.4	BF50Z-../D06LA4	82	13600	-	3.3	345	3.8
2.5	455	2.9	555.2	"	"	13600	-	3.0	380	3.4
1.6	500	2.8	864.5	BF50G10-../D06LA4	86	13600	-	1.9	395	3.5
1.4	590	2.4	1029	"	"	13600	-	1.6	490	2.9
1.2	740	1.9	1203	"	"	13600	-	1.4	600	2.3
1.0	900	1.55	1359	"	"	13600	-	1.2	710	1.95
0.9	1000	1.4	1520	"	"	13600	-	1.1	770	1.8

P = 0.12 kW

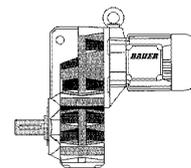


50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
0.85	1060	1.3	1684	BF50G10-../D06LA4	"	13600	-	1.0	860	1.65
0.7	1330	1.05	2059	"	"	13600	-	0.8	1130	1.25
0.95	820	3.0	1494	BF60G20-../D06LA4	134	15300	43300	1.1	660	3.8
0.85	920	2.7	1658	"	"	15300	43300	1.0	720	3.5
0.7	1190	2.1	1955	"	"	15300	43300	0.85	900	2.8
0.65	1300	1.9	2172	"	"	15300	43300	0.75	1060	2.4
0.49	1830	1.35	2781	"	"	15300	43300	0.6	1400	1.8
0.42	2200	1.15	3237	"	"	15300	43300	0.55	1580	1.6
0.48	1890	3.0	2849	BF70G20-../D06LA4	212	16100	47700	0.6	1410	4.0
0.4	2350	2.4	3417	"	"	16100	47700	0.48	1890	3.0
0.34	2850	2.0	4090	"	"	16100	47700	0.4	2350	2.4
0.3	3300	1.75	4542	"	"	16100	47700	0.36	2650	2.2
0.27	3750	1.5	5124	"	"	16100	47700	0.32	3050	1.85
0.24	4250	1.35	5691	"	"	16100	47700	0.29	3450	1.65
0.21	4950	1.15	6530	"	"	16100	47700	0.25	4050	1.4
0.19	5500	1.05	7248	"	"	16100	47700	0.23	4450	1.3

P = 0.18 kW

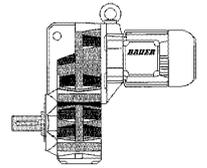
50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
177	9.7	7.0	7.66	BF06-../D05LA4	10	1800	-	215	7.9	8.6
147	11.6	6.0	9.21	"	"	1900	-	176	9.7	7.2
112	15.3	4.9	12.07	"	"	2000	-	135	12.7	5.9
96	17.9	4.7	14.21	"	"	2100	-	115	14.9	5.7
80	21	4.5	16.99	"	"	2500	-	96	17.9	5.3
67	25.5	3.7	20.42	"	"	2700	-	80	21	4.5
51	33.5	2.8	26.76	"	"	3000	-	61	28	3.4
43	39.5	2.4	31.50	"	"	3200	-	52	33	2.9
36	47.5	2.0	37.69	"	"	3500	-	43	39.5	2.4
29.5	58	1.65	46.14	"	"	3800	-	35.5	48	2.0
23.5	73	1.3	58.33	"	"	4000	-	28	61	1.55
20.5	83	1.15	66.82	"	"	4000	-	24.5	70	1.35
16.5	104	0.91	83.61	"	"	4000	-	19.5	88	1.1
14.5	118	0.81	95.16	"	"	4000	-	17.5	98	0.97
22	78	3.1	61.55	BF10-../D06LA4	23	4700	-	26.5	64	3.8
20	85	2.8	67.69	"	"	4900	-	24	71	3.4
17.5	98	2.4	77.55	"	"	5100	-	21	81	3.0
16	107	2.2	85.27	"	"	5300	-	19	90	2.7
15	114	2.1	90.91	"	"	5400	-	18	95	2.5
14	122	1.95	99.97	"	"	5600	-	16.5	104	2.3
12.5	137	1.75	112.3	"	"	5900	-	14.5	118	2.0
11	156	1.55	123.5	"	"	6100	-	13.5	127	1.9
10.5	163	1.45	128.9	"	"	6200	-	13	132	1.8
9.6	179	1.35	141.8	"	"	6400	-	11.5	149	1.6
9.0	191	1.25	151.2	BF10Z-../D06LA4	24	6400	-	11	156	1.55
8.2	205	1.15	166.2	"	"	6400	-	9.8	175	1.35
7.5	225	1.05	180.1	"	"	6400	-	9.0	191	1.25
6.9	245	0.98	198.0	"	"	6400	-	8.2	205	1.15
6.3	270	0.89	214.5	"	"	6400	-	7.6	225	1.05
5.8	295	0.81	235.8	"	"	6400	-	6.9	245	0.98
13.5	127	3.3	100.2	BF20-../D06LA4	30	7000	-	16.5	104	4.0
12.5	137	3.1	110.2	"	"	7300	-	15	114	3.7
11	156	2.7	123.5	"	"	7600	-	13.5	127	3.3
10	171	2.5	135.9	"	"	7900	-	12	143	2.9

P = 0.18 kW



50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
9.6	179	2.3	141.2	BF20Z-../D06LA4	31	7900	-	11.5	149	2.8
8.7	197	2.1	155.4	"	"	7900	-	10.5	163	2.6
8.3	205	2.0	164.3	"	"	7900	-	9.9	173	2.4
7.5	225	1.85	180.8	"	"	7900	-	9.0	191	2.2
6.9	245	1.7	197.1	"	"	7900	-	8.3	205	2.0
6.3	270	1.55	216.9	"	"	7900	-	7.5	225	1.85
5.8	295	1.4	235.9	"	"	7900	-	6.9	245	1.7
5.3	320	1.3	259.6	"	"	7900	-	6.3	270	1.55
4.6	370	1.15	295.5	"	"	7900	-	5.5	310	1.35
4.2	405	1.05	325.2	"	"	7900	-	5.0	340	1.25
4.0	425	0.99	339.1	"	"	7900	-	4.8	355	1.2
3.7	460	0.91	373.1	"	"	7900	-	4.4	390	1.1
3.3	520	0.81	418.1	"	"	7900	-	3.9	440	0.95
9.9	173	3.3	137.1	BF30-../D06LA4	40	7400	-	12	143	4.0
9.0	191	3.0	150.7	BF30Z-../D06LA4	42	7400	-	11	156	3.7
8.2	205	2.8	165.8	"	"	7400	-	9.8	175	3.3
7.7	220	2.6	176.6	"	"	7400	-	9.2	186	3.1
7.0	245	2.3	194.3	"	"	7400	-	8.4	200	2.9
6.1	280	2.1	224.8	"	"	7400	-	7.3	235	2.4
5.5	310	1.85	247.3	"	"	7400	-	6.6	260	2.2
5.2	330	1.75	263.5	"	"	7400	-	6.2	275	2.1
4.7	365	1.6	289.8	"	"	7400	-	5.6	305	1.9
4.4	390	1.45	310.7	"	"	7400	-	5.3	320	1.8
4.0	425	1.35	341.8	"	"	7400	-	4.8	355	1.6
3.6	475	1.2	375.1	"	"	7400	-	4.4	390	1.45
3.3	520	1.1	412.6	"	"	7400	-	4.0	425	1.35
3.0	570	1.0	463.3	"	"	7400	-	3.5	490	1.15
2.6	660	0.87	537.0	"	"	7400	-	3.1	550	1.05
2.2	720	0.88	622.4	BF30G06-../D06LA4	45	7400	-	2.7	570	1.1
6.1	280	3.2	222.4	BF40Z-../D06LA4	53	10600	-	7.3	235	3.8
5.4	315	2.9	253.2	"	"	10600	-	6.4	265	3.4
4.9	350	2.6	278.5	"	"	10600	-	5.9	290	3.1
4.6	370	2.4	295.1	"	"	10600	-	5.5	310	2.9
4.2	405	2.2	324.7	"	"	10600	-	5.0	340	2.6
3.9	440	2.0	346.8	"	"	10600	-	4.7	365	2.5
3.6	475	1.9	381.5	"	"	10600	-	4.3	395	2.3
3.3	520	1.75	417.3	"	"	10600	-	3.9	440	2.0
3.0	570	1.6	459.1	"	"	10600	-	3.6	475	1.9
2.7	630	1.45	514.6	"	"	10600	-	3.2	530	1.7
2.4	710	1.25	566.1	"	"	10600	-	2.9	590	1.55
2.3	560	1.8	597.3	BF40G10-../D06LA4	58	10600	-	2.8	425	2.4
1.9	690	1.45	731.6	"	"	10600	-	2.3	540	1.85
1.5	920	1.1	928.9	"	"	10600	-	1.8	730	1.35
1.3	1080	0.93	1106	"	"	10600	-	1.5	900	1.1
4.3	395	3.3	316.6	BF50Z-../D06LA4	82	13600	-	5.2	330	3.9
3.9	440	3.0	354.0	"	"	13600	-	4.6	370	3.5
3.5	490	2.7	392.8	"	"	13600	-	4.2	405	3.2
3.1	550	2.4	439.3	"	"	13600	-	3.7	460	2.8
2.8	610	2.1	496.4	"	"	13600	-	3.3	520	2.5
2.5	680	1.9	555.2	"	"	13600	-	3.0	570	2.3
2.0	660	2.1	680.9	BF50G10-../D06LA4	86	13600	-	2.4	520	2.7
1.6	860	1.65	864.5	"	"	13600	-	1.9	690	2.0
1.4	1000	1.4	1029	"	"	13600	-	1.6	840	1.65
1.2	1220	1.15	1203	"	"	13600	-	1.4	1010	1.4
1.0	1470	0.95	1359	"	"	13600	-	1.2	1190	1.2
1.5	870	2.9	937.6	BF60G20-../D06LA4	134	15300	43300	1.8	670	3.7
1.2	1120	2.2	1211	"	"	15300	43300	1.4	920	2.7
0.95	1430	1.75	1494	"	"	15300	43300	1.1	1180	2.1
0.85	1600	1.55	1658	"	"	15300	43300	1.0	1290	1.95

P = 0.18 kW

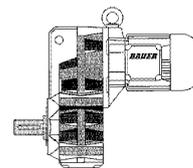


50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
0.7	2000	1.25	1955	BF60G20-../D06LA4	"	15300	43300	0.85	1570	1.6
0.65	2150	1.15	2172	"	"	15300	43300	0.75	1830	1.35
0.75	1850	3.1	1912	BF70G20-../D06LA4	212	16100	47700	0.85	1580	3.6
0.6	2350	2.4	2448	"	"	16100	47700	0.7	1970	2.9
0.48	3050	1.85	2849	"	"	16100	47700	0.6	2350	2.4
0.4	3800	1.5	3417	"	"	16100	47700	0.48	3050	1.85
0.34	4550	1.25	4090	"	"	16100	47700	0.4	3800	1.5
0.3	5200	1.1	4542	"	"	16100	47700	0.36	4250	1.35

P = 0.25kW

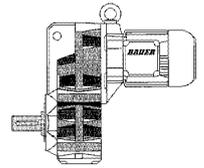
50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
177	13.4	5.1	7.66	BF06-../D05LA4	10	1800	-	215	11.1	6.1
147	16.2	4.3	9.21	"	"	1900	-	176	13.5	5.2
112	21	3.6	12.07	"	"	2000	-	135	17.6	4.3
96	24.5	3.5	14.21	"	"	2100	-	115	20.5	4.1
80	29.5	3.2	16.99	"	"	2500	-	96	24.5	3.9
67	35.5	2.7	20.42	"	"	2700	-	80	29.5	3.2
51	46.5	2.0	26.76	"	"	3000	-	61	39	2.4
43	55	1.75	31.50	"	"	3200	-	52	45.5	2.1
36	66	1.45	37.69	"	"	3500	-	43	55	1.75
29.5	80	1.2	46.14	"	"	3800	-	35.5	67	1.4
23.5	101	0.94	58.33	"	"	4000	-	28	85	1.1
20.5	116	0.82	66.82	"	"	4000	-	24.5	97	0.98
31.5	75	3.2	43.06	BF10-../D06LA4	23	4100	-	38	62	3.9
29	82	2.9	47.35	"	"	4250	-	34.5	69	3.5
26.5	90	2.7	51.28	"	"	4400	-	32	74	3.2
24	99	2.4	56.39	"	"	4550	-	29	82	2.9
22	108	2.2	61.55	"	"	4700	-	26.5	90	2.7
20	119	2.0	67.69	"	"	4900	-	24	99	2.4
17.5	136	1.75	77.55	"	"	5100	-	21	113	2.1
16	149	1.6	85.27	"	"	5300	-	19	125	1.9
15	159	1.5	90.91	"	"	5400	-	18	132	1.8
14	170	1.4	99.97	"	"	5600	-	16.5	144	1.65
12.5	191	1.25	112.3	"	"	5900	-	14.5	164	1.45
11	215	1.1	123.5	"	"	6100	-	13.5	176	1.35
10.5	225	1.05	128.9	"	"	6200	-	13	183	1.3
9.6	245	0.98	141.8	"	"	6400	-	11.5	205	1.15
9.0	265	0.91	151.2	BF10Z-../D06LA4	24	6400	-	11	215	1.1
8.2	290	0.83	166.2	"	"	6400	-	9.8	240	1.0
18	132	3.2	76.69	BF20-../D06LA4	30	6300	-	21.5	111	3.8
15.5	154	2.7	87.31	"	"	6600	-	19	125	3.4
14.5	164	2.6	96.08	"	"	6900	-	17	140	3.0
13.5	176	2.4	100.2	"	"	7000	-	16.5	144	2.9
12.5	191	2.2	110.2	"	"	7300	-	15	159	2.6
11	215	1.95	123.5	"	"	7600	-	13.5	176	2.4
10	235	1.8	135.9	"	"	7900	-	12	198	2.1
9.6	245	1.7	141.2	BF20Z-../D06LA4	31	7900	-	11.5	205	2.0
8.7	270	1.55	155.4	"	"	7900	-	10.5	225	1.85
8.3	285	1.45	164.3	"	"	7900	-	9.9	240	1.75
7.5	315	1.35	180.8	"	"	7900	-	9.0	265	1.6
6.9	345	1.2	197.1	"	"	7900	-	8.3	285	1.45
6.3	375	1.1	216.9	"	"	7900	-	7.5	315	1.35
5.8	410	1.0	235.9	"	"	7900	-	6.9	345	1.2
5.3	450	0.93	259.6	"	"	7900	-	6.3	375	1.1
4.6	510	0.82	295.5	"	"	7900	-	5.5	430	0.98

P = 0.25 kW



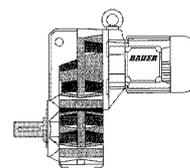
50 Hz			i	Type	m kg	F _{RN} N	F _{RV} N	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
13	183	3.1	107.6	BF30-../D06LA4	40	6700	-	15.5	154	3.7
11.5	205	2.8	118.3	"	"	7000	-	14	170	3.4
11	215	2.7	124.7	"	"	7100	-	13	183	3.1
9.9	240	2.4	137.1	"	"	7400	-	12	198	2.9
9.0	265	2.2	150.7	BF30Z-../D06LA4	42	7400	-	11	215	2.7
8.2	290	2.0	165.8	"	"	7400	-	9.8	240	2.4
7.7	310	1.85	176.6	"	"	7400	-	9.2	255	2.3
7.0	340	1.7	194.3	"	"	7400	-	8.4	280	2.1
6.1	390	1.45	224.8	"	"	7400	-	7.3	325	1.75
5.5	430	1.35	247.3	"	"	7400	-	6.6	360	1.6
5.2	455	1.25	263.5	"	"	7400	-	6.2	385	1.5
4.7	500	1.15	289.8	"	"	7400	-	5.6	425	1.35
4.4	540	1.05	310.7	"	"	7400	-	5.3	450	1.3
4.0	590	0.97	341.8	"	"	7400	-	4.8	495	1.15
3.6	660	0.87	375.1	"	"	7400	-	4.4	540	1.05
3.3	720	0.8	412.6	"	"	7400	-	4.0	590	0.97
8.7	270	3.3	155.6	BF40Z-../D06LA4	53	10600	-	10.5	225	4.0
7.9	300	3.0	171.2	"	"	10600	-	9.5	250	3.6
7.2	330	2.7	188.3	"	"	10600	-	8.7	270	3.3
6.7	355	2.5	202.2	"	"	10600	-	8.1	290	3.1
6.1	390	2.3	222.4	"	"	10600	-	7.3	325	2.8
5.4	440	2.0	253.2	"	"	10600	-	6.4	370	2.4
4.9	485	1.85	278.5	"	"	10600	-	5.9	400	2.3
4.6	510	1.75	295.1	"	"	10600	-	5.5	430	2.1
4.2	560	1.6	324.7	"	"	10600	-	5.0	475	1.9
3.9	610	1.5	346.8	"	"	10600	-	4.7	500	1.8
3.6	660	1.35	381.5	"	"	10600	-	4.3	550	1.65
3.3	720	1.25	417.3	"	"	10600	-	3.9	610	1.5
3.0	790	1.15	459.1	"	"	10600	-	3.6	660	1.35
2.7	880	1.0	514.6	"	"	10600	-	3.2	740	1.2
2.4	990	0.91	566.1	"	"	10600	-	2.9	820	1.1
2.3	850	1.2	597.3	BF40G10-../D06LA4	58	10600	-	2.8	660	1.5
1.9	1050	0.95	731.6	"	"	10600	-	2.3	830	1.2
5.5	430	3.0	247.5	BF50Z-../D06LA4	82	13600	-	6.6	360	3.6
4.9	485	2.7	276.8	"	"	13600	-	5.9	400	3.3
4.3	550	2.4	316.6	"	"	13600	-	5.2	455	2.9
3.9	610	2.1	354.0	"	"	13600	-	4.6	510	2.5
3.5	680	1.9	392.8	"	"	13600	-	4.2	560	2.3
3.1	770	1.7	439.3	"	"	13600	-	3.7	640	2.0
2.8	850	1.55	496.4	"	"	13600	-	3.3	720	1.8
2.5	950	1.35	555.2	"	"	13600	-	3.0	790	1.65
2.0	1000	1.4	680.9	BF50G10-../D06LA4	86	13600	-	2.4	800	1.75
1.6	1280	1.1	864.5	"	"	13600	-	1.9	1050	1.35
1.4	1480	0.95	1029	"	"	13600	-	1.6	1260	1.1
2.4	750	3.3	569.3	BF60G20-../D06LA4	134	15300	43300	2.9	580	4.3
2.0	900	2.8	689.0	"	"	15300	43300	2.4	700	3.6
1.7	1090	2.3	813.2	"	"	15300	43300	2.0	880	2.8
1.5	1310	1.9	937.6	"	"	15300	43300	1.8	1050	2.4
1.2	1680	1.5	1211	"	"	15300	43300	1.4	1390	1.8
0.95	2100	1.2	1494	"	"	15300	43300	1.1	1790	1.4
0.85	2350	1.05	1658	"	"	15300	43300	1.0	1960	1.3
1.0	2000	2.9	1390	BF70G20-../D06LA4	212	16100	47700	1.2	1630	3.5
0.85	2350	2.4	1621	"	"	16100	47700	1.0	1970	2.9
0.75	2700	2.1	1912	"	"	16100	47700	0.85	2350	2.4
0.6	3500	1.65	2448	"	"	16100	47700	0.7	2900	1.95
0.48	4450	1.3	2849	"	"	16100	47700	0.6	3450	1.65
0.4	5400	1.05	3417	"	"	16100	47700	0.48	4450	1.3

P = 0.3 kW



50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
177	16.1	4.2	7.66	BF06-../D07LA4	14	1800	-	215	13.3	5.1
147	19.4	3.6	9.21	"	"	1900	-	176	16.2	4.3
112	25.5	2.9	12.07	"	"	2000	-	135	21	3.6
96	29.5	2.9	14.21	"	"	2100	-	115	24.5	3.5
80	35.5	2.7	16.99	"	"	2500	-	96	29.5	3.2
67	42.5	2.2	20.42	"	"	2700	-	80	35.5	2.7
51	56	1.7	26.76	"	"	3000	-	61	46.5	2.0
43	66	1.45	31.50	"	"	3200	-	52	55	1.75
36	79	1.2	37.69	"	"	3500	-	43	66	1.45
29.5	97	0.98	46.14	"	"	3800	-	35.5	80	1.2
37.5	76	3.2	36.15	BF10-../D07LA4	26	3800	-	45	63	3.8
34	84	2.9	39.75	"	"	3950	-	41	69	3.5
31.5	90	2.7	43.06	"	"	4100	-	38	75	3.2
29	98	2.4	47.35	"	"	4250	-	34.5	83	2.9
26.5	108	2.2	51.28	"	"	4400	-	32	89	2.7
24	119	2.0	56.39	"	"	4550	-	29	98	2.4
22	130	1.85	61.55	"	"	4700	-	26.5	108	2.2
20	143	1.7	67.69	"	"	4900	-	24	119	2.0
17.5	163	1.45	77.55	"	"	5100	-	21	136	1.75
16	179	1.35	85.27	"	"	5300	-	19	150	1.6
15	191	1.25	90.91	"	"	5400	-	18	159	1.5
14	200	1.2	99.97	"	"	5600	-	16.5	173	1.4
12.5	225	1.05	112.3	"	"	5900	-	14.5	197	1.2
11	260	0.92	123.5	"	"	6100	-	13.5	210	1.15
10.5	270	0.89	128.9	"	"	6200	-	13	220	1.1
9.6	295	0.81	141.8	"	"	6400	-	11.5	245	0.98
21.5	133	3.2	64.08	BF20-../D07LA4	32	5900	-	25.5	112	3.8
19.5	146	2.9	69.70	"	"	6100	-	23.5	121	3.5
18	159	2.6	76.69	"	"	6300	-	21.5	133	3.2
15.5	184	2.3	87.31	"	"	6600	-	19	150	2.8
14.5	197	2.1	96.08	"	"	6900	-	17	168	2.5
13.5	210	2.0	100.2	"	"	7000	-	16.5	173	2.4
12.5	225	1.85	110.2	"	"	7300	-	15	191	2.2
11	260	1.6	123.5	"	"	7600	-	13.5	210	2.0
10	285	1.45	135.9	"	"	7900	-	12	235	1.8
9.6	295	1.4	141.2	BF20Z-../D07LA4	34	7900	-	11.5	245	1.7
8.7	325	1.3	155.4	"	"	7900	-	10.5	270	1.55
8.3	345	1.2	164.3	"	"	7900	-	9.9	285	1.45
7.5	380	1.1	180.8	"	"	7900	-	9.0	315	1.35
6.9	415	1.0	197.1	"	"	7900	-	8.3	345	1.2
6.3	450	0.93	216.9	"	"	7900	-	7.5	380	1.1
5.8	490	0.86	235.9	"	"	7900	-	6.9	415	1.0
16	179	3.2	87.08	BF30-../D07LA4	42	6200	-	19	150	3.8
14.5	197	2.9	95.79	"	"	6400	-	17	168	3.4
13	220	2.6	107.6	"	"	6700	-	15.5	184	3.1
11.5	245	2.3	118.3	"	"	7000	-	14	200	2.9
11	260	2.2	124.7	"	"	7100	-	13	220	2.6
9.9	285	2.0	137.1	"	"	7400	-	12	235	2.4
9.0	315	1.85	150.7	BF30Z-../D07LA4	45	7400	-	11	260	2.2
8.2	345	1.65	165.8	"	"	7400	-	9.8	290	2.0
7.7	370	1.55	176.6	"	"	7400	-	9.2	310	1.85
7.0	405	1.4	194.3	"	"	7400	-	8.4	340	1.7
6.1	465	1.25	224.8	"	"	7400	-	7.3	390	1.45
5.5	520	1.1	247.3	"	"	7400	-	6.6	430	1.35
5.2	550	1.05	263.5	"	"	7400	-	6.2	460	1.25
4.7	600	0.96	289.8	"	"	7400	-	5.6	510	1.15
4.4	650	0.88	310.7	"	"	7400	-	5.3	540	1.05
4.0	710	0.81	341.8	"	"	7400	-	4.8	590	0.97

P = 0.3 kW

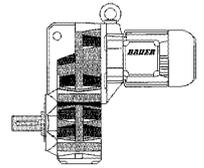


50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
9.6	295	3.1	141.4	BF40Z-../D07LA4	55	10600	-	11.5	245	3.7
8.7	325	2.8	155.6	"	"	10600	-	10.5	270	3.3
7.9	360	2.5	171.2	"	"	10600	-	9.5	300	3.0
7.2	395	2.3	188.3	"	"	10600	-	8.7	325	2.8
6.7	425	2.1	202.2	"	"	10600	-	8.1	350	2.6
6.1	465	1.95	222.4	"	"	10600	-	7.3	390	2.3
5.4	530	1.7	253.2	"	"	10600	-	6.4	445	2.0
4.9	580	1.55	278.5	"	"	10600	-	5.9	485	1.85
4.6	620	1.45	295.1	"	"	10600	-	5.5	520	1.75
4.2	680	1.3	324.7	"	"	10600	-	5.0	570	1.6
3.9	730	1.25	346.8	"	"	10600	-	4.7	600	1.5
3.6	790	1.15	381.5	"	"	10600	-	4.3	660	1.35
3.3	860	1.05	417.3	"	"	10600	-	3.9	730	1.25
3.0	950	0.95	459.1	"	"	10600	-	3.6	790	1.15
2.7	1060	0.85	514.6	"	"	10600	-	3.2	890	1.0
2.3	1050	0.95	597.3	BF40G10-../D07LA4	61	10600	-	2.8	830	1.2
6.6	430	3.0	205.2	BF50Z-../D07LA4	85	13600	-	7.9	360	3.6
5.5	520	2.5	247.5	"	"	13600	-	6.6	430	3.0
4.9	580	2.2	276.8	"	"	13600	-	5.9	485	2.7
4.3	660	1.95	316.6	"	"	13600	-	5.2	550	2.4
3.9	730	1.8	354.0	"	"	13600	-	4.6	620	2.1
3.5	810	1.6	392.8	"	"	13600	-	4.2	680	1.9
3.1	920	1.4	439.3	"	"	13600	-	3.7	770	1.7
2.8	1020	1.25	496.4	"	"	13600	-	3.3	860	1.5
2.5	1140	1.15	555.2	"	"	13600	-	3.0	950	1.35
2.0	1240	1.15	680.9	BF50G10-../D07LA4	89	13600	-	2.4	1000	1.4
1.6	1580	0.89	864.5	"	"	13600	-	1.9	1300	1.1
2.4	950	2.6	569.3	BF60G20-../D07LA4	136	15300	43300	2.9	740	3.4
2.0	1140	2.2	689.0	"	"	15300	43300	2.4	900	2.8
1.7	1370	1.8	813.2	"	"	15300	43300	2.0	1120	2.2
1.5	1630	1.55	937.6	"	"	15300	43300	1.8	1310	1.9
1.2	2050	1.2	1211	"	"	15300	43300	1.4	1740	1.45
1.4	1740	3.3	1017	BF70G20-../D07LA4	215	16100	47700	1.6	1490	3.8
1.0	2500	2.3	1390	"	"	16100	47700	1.2	2000	2.9
0.85	2950	1.95	1621	"	"	16100	47700	1.0	2450	2.3
0.75	3350	1.7	1912	"	"	16100	47700	0.85	2900	1.95
0.6	4250	1.35	2448	"	"	16100	47700	0.7	3600	1.6
0.48	5400	1.05	2849	"	"	16100	47700	0.6	4250	1.35

P = 0.37 kW

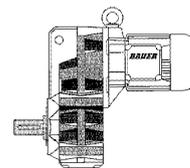
50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
177	19.9	3.4	7.66	BF06-../D07LA4	14	1800	-	215	16.4	4.1
147	24	2.9	9.21	"	"	1900	-	176	20	3.5
112	31.5	2.4	12.07	"	"	2000	-	135	26	2.9
96	36.5	2.3	14.21	"	"	2100	-	115	30.5	2.8
80	44	2.2	16.99	"	"	2500	-	96	36.5	2.6
67	52	1.85	20.42	"	"	2700	-	80	44	2.2
51	69	1.4	26.76	"	"	3000	-	61	57	1.65
43	82	1.15	31.50	"	"	3200	-	52	67	1.4
36	98	0.97	37.69	"	"	3500	-	43	82	1.15
29.5	119	0.8	46.14	"	"	3800	-	35.5	99	0.96
47.5	74	3.2	28.47	BF10-../D07LA4	26	3450	-	57	61	3.9
43.5	81	3.0	31.31	"	"	3600	-	52	67	3.6
37.5	94	2.6	36.15	"	"	3800	-	45	78	3.1

P = 0.37 kW



50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
34	103	2.3	39.75	BF10-../D07LA4	"	3950	-	41	86	2.8
31.5	112	2.1	43.06	"	"	4100	-	38	92	2.6
29	121	2.0	47.35	"	"	4250	-	34.5	102	2.4
26.5	133	1.8	51.28	"	"	4400	-	32	110	2.2
24	147	1.65	56.39	"	"	4550	-	29	121	2.0
22	160	1.5	61.55	"	"	4700	-	26.5	133	1.8
20	176	1.35	67.69	"	"	4900	-	24	147	1.65
17.5	200	1.2	77.55	"	"	5100	-	21	168	1.45
16	220	1.1	85.27	"	"	5300	-	19	185	1.3
15	235	1.0	90.91	"	"	5400	-	18	196	1.2
14	250	0.96	99.97	"	"	5600	-	16.5	210	1.15
12.5	280	0.86	112.3	"	"	5900	-	14.5	240	1.0
28	126	3.3	48.56	BF20-../D07LA4	32	5200	-	33.5	105	4.0
25.5	138	3.0	53.43	"	"	5500	-	30.5	115	3.7
23.5	150	2.8	58.24	"	"	5600	-	28	126	3.3
21.5	164	2.6	64.08	"	"	5900	-	25.5	138	3.0
19.5	181	2.3	69.70	"	"	6100	-	23.5	150	2.8
18	196	2.1	76.69	"	"	6300	-	21.5	164	2.6
15.5	225	1.85	87.31	"	"	6600	-	19	185	2.3
14.5	240	1.75	96.08	"	"	6900	-	17	205	2.0
13.5	260	1.6	100.2	"	"	7000	-	16.5	210	2.0
12.5	280	1.5	110.2	"	"	7300	-	15	235	1.8
11	320	1.3	123.5	"	"	7600	-	13.5	260	1.6
10	350	1.2	135.9	"	"	7900	-	12	290	1.45
9.6	365	1.15	141.2	BF20Z-../D07LA4	34	7900	-	11.5	305	1.4
8.7	405	1.05	155.4	"	"	7900	-	10.5	335	1.25
8.3	425	0.99	164.3	"	"	7900	-	9.9	355	1.2
7.5	470	0.89	180.8	"	"	7900	-	9.0	390	1.1
6.9	510	0.82	197.1	"	"	7900	-	8.3	425	0.99
20.5	172	3.3	67.28	BF30-../D07LA4	42	5500	-	24.5	144	4.0
19	185	3.1	72.13	"	"	5700	-	22.5	157	3.7
17.5	200	2.9	79.34	"	"	5900	-	20.5	172	3.3
16	220	2.6	87.08	"	"	6200	-	19	185	3.1
14.5	240	2.4	95.79	"	"	6400	-	17	205	2.8
13	270	2.1	107.6	"	"	6700	-	15.5	225	2.6
11.5	305	1.9	118.3	"	"	7000	-	14	250	2.3
11	320	1.8	124.7	"	"	7100	-	13	270	2.1
9.9	355	1.6	137.1	"	"	7400	-	12	290	2.0
9.0	390	1.45	150.7	BF30Z-../D07LA4	45	7400	-	11	320	1.8
8.2	430	1.35	165.8	"	"	7400	-	9.8	360	1.6
7.7	455	1.25	176.6	"	"	7400	-	9.2	380	1.5
7.0	500	1.15	194.3	"	"	7400	-	8.4	420	1.35
6.1	570	1.0	224.8	"	"	7400	-	7.3	480	1.2
5.5	640	0.9	247.3	"	"	7400	-	6.6	530	1.1
5.2	670	0.86	263.5	"	"	7400	-	6.2	560	1.05
9.6	365	2.5	141.4	BF40Z-../D07LA4	55	10600	-	11.5	305	3.0
8.7	405	2.2	155.6	"	"	10600	-	10.5	335	2.7
7.9	445	2.0	171.2	"	"	10600	-	9.5	370	2.4
7.2	490	1.85	188.3	"	"	10600	-	8.7	405	2.2
6.7	520	1.75	202.2	"	"	10600	-	8.1	435	2.1
6.1	570	1.6	222.4	"	"	10600	-	7.3	480	1.9
5.4	650	1.4	253.2	"	"	10600	-	6.4	550	1.65
4.9	720	1.25	278.5	"	"	10600	-	5.9	590	1.55
4.6	760	1.2	295.1	"	"	10600	-	5.5	640	1.4
4.2	840	1.05	324.7	"	"	10600	-	5.0	700	1.3
3.9	900	1.0	346.8	"	"	10600	-	4.7	750	1.2
3.6	980	0.92	381.5	"	"	10600	-	4.3	820	1.1
3.3	1070	0.84	417.3	"	"	10600	-	3.9	900	1.0

P = 0.37 kW

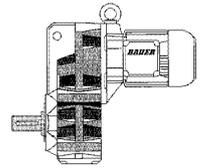


50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
8.8	400	3.3	154.5	BF50Z-../D07LA4	85	13600	-	10.5	335	3.9
7.4	475	2.7	183.5	"	"	13600	-	8.9	395	3.3
6.6	530	2.5	205.2	"	"	13600	-	7.9	445	2.9
5.5	640	2.0	247.5	"	"	13600	-	6.6	530	2.5
4.9	720	1.8	276.8	"	"	13600	-	5.9	590	2.2
4.3	820	1.6	316.6	"	"	13600	-	5.2	670	1.95
3.9	900	1.45	354.0	"	"	13600	-	4.6	760	1.7
3.5	1000	1.3	392.8	"	"	13600	-	4.2	840	1.55
3.1	1130	1.15	439.3	"	"	13600	-	3.7	950	1.35
2.8	1260	1.05	496.4	"	"	13600	-	3.3	1070	1.2
2.5	1410	0.92	555.2	"	"	13600	-	3.0	1170	1.1
2.0	1570	0.89	680.9	BF50G10-../D07LA4	89	13600	-	2.4	1280	1.1
2.4	1230	2.0	569.3	BF60G20-../D07LA4	136	15300	43300	2.9	970	2.6
2.0	1470	1.7	689.0	"	"	15300	43300	2.4	1180	2.1
1.7	1770	1.4	813.2	"	"	15300	43300	2.0	1460	1.7
1.5	2050	1.2	937.6	"	"	15300	43300	1.8	1680	1.5
1.2	2600	0.96	1211	"	"	15300	43300	1.4	2200	1.15
1.6	1950	2.9	872.1	BF70G20-../D07LA4	215	16100	47700	1.9	1600	3.6
1.4	2200	2.6	1017	"	"	16100	47700	1.6	1900	3.0
1.0	3150	1.8	1390	"	"	16100	47700	1.2	2550	2.2
0.85	3700	1.55	1621	"	"	16100	47700	1.0	3100	1.85
0.75	4250	1.35	1912	"	"	16100	47700	0.85	3700	1.55
0.6	5400	1.05	2448	"	"	16100	47700	0.7	4550	1.25

P = 0.55 kW

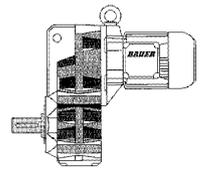
50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
245	21	3.0	5.72	BF06-../D08MA4	16	1630	-	295	17.8	3.5
183	28.5	2.4	7.66	"	"	1800	-	220	23.5	2.9
153	34	2.1	9.21	"	"	1900	-	183	28.5	2.5
116	45	1.65	12.07	"	"	2000	-	140	37.5	2.0
99	53	1.6	14.21	"	"	2100	-	119	44	1.95
83	63	1.5	16.99	"	"	2500	-	99	53	1.8
69	76	1.25	20.42	"	"	2700	-	83	63	1.5
53	99	0.96	26.76	"	"	3000	-	63	83	1.15
44.5	118	0.81	31.50	"	"	3200	-	54	97	0.98
94	55	3.3	15.04	BF10-../D08MA4	27	2800	-	112	46.5	3.9
70	75	3.2	20.05	"	"	3000	-	84	62	3.9
61	86	2.8	23.28	"	"	3200	-	73	71	3.4
55	95	2.5	25.60	"	"	3350	-	66	79	3.0
49.5	106	2.3	28.47	"	"	3450	-	60	87	2.8
45	116	2.1	31.31	"	"	3600	-	54	97	2.5
39	134	1.8	36.15	"	"	3800	-	46.5	112	2.1
35.5	147	1.65	39.75	"	"	3950	-	42.5	123	1.95
33	159	1.5	43.06	"	"	4100	-	39.5	132	1.8
30	175	1.35	47.35	"	"	4250	-	35.5	147	1.65
27.5	191	1.25	51.28	"	"	4400	-	33	159	1.5
25	210	1.15	56.39	"	"	4550	-	30	175	1.35
23	225	1.05	61.55	"	"	4700	-	27.5	191	1.25
21	250	0.96	67.69	"	"	4900	-	25	210	1.15
18.5	280	0.86	77.55	"	"	5100	-	22	235	1.0
39.5	132	3.2	35.85	BF20-../D08MA4	33	4650	-	47	111	3.8
34	154	2.7	41.72	"	"	4950	-	40.5	129	3.3
31	169	2.5	45.90	"	"	5100	-	37	141	3.0
29	181	2.3	48.56	"	"	5200	-	35	150	2.8

P = 0.55 kW



50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
26.5	198	2.1	53.43	BF20-../D08MA4	"	5500	-	31.5	166	2.5
24.5	210	2.0	58.24	"	"	5600	-	29	181	2.3
22	235	1.8	64.08	"	"	5900	-	26.5	198	2.1
20.5	255	1.65	69.70	"	"	6100	-	24.5	210	2.0
18.5	280	1.5	76.69	"	"	6300	-	22	235	1.8
16.5	315	1.35	87.31	"	"	6600	-	19.5	265	1.6
15	350	1.2	96.08	"	"	6900	-	17.5	300	1.4
14	375	1.1	100.2	"	"	7000	-	17	305	1.4
13	400	1.05	110.2	"	"	7300	-	15.5	335	1.25
11.5	455	0.92	123.5	"	"	7600	-	14	375	1.1
10.5	500	0.84	135.9	"	"	7900	-	12.5	420	1.0
10	520	0.81	141.2	BF20Z-../D08MA4	35	7900	-	12	435	0.97
27	194	3.0	52.20	BF30-../D08MA4	43	5000	-	32.5	161	3.6
24.5	210	2.7	57.41	"	"	5200	-	29.5	178	3.2
23	225	2.6	61.17	"	"	5300	-	27.5	191	3.0
21	250	2.3	67.28	"	"	5500	-	25	210	2.7
19.5	265	2.2	72.13	"	"	5700	-	23.5	220	2.6
18	290	2.0	79.34	"	"	5900	-	21.5	240	2.4
16.5	315	1.85	87.08	"	"	6200	-	19.5	265	2.2
15	350	1.65	95.79	"	"	6400	-	18	290	2.0
13.5	385	1.5	107.6	"	"	6700	-	16	325	1.75
12	435	1.3	118.3	"	"	7000	-	14.5	360	1.6
11.5	455	1.25	124.7	"	"	7100	-	13.5	385	1.5
10.5	500	1.15	137.1	"	"	7400	-	12.5	420	1.35
9.3	560	1.05	150.7	BF30Z-../D08MA4	46	7400	-	11.5	455	1.25
8.5	610	0.94	165.8	"	"	7400	-	10.5	500	1.15
8.0	650	0.88	176.6	"	"	7400	-	9.6	540	1.05
7.3	710	0.81	194.3	"	"	7400	-	8.7	600	0.96
18	290	3.1	78.55	BF40-../D08MA4	53	8500	-	21.5	240	3.8
17	305	3.0	83.91	"	"	8700	-	20.5	255	3.5
15.5	335	2.7	92.31	"	"	9100	-	18.5	280	3.2
14	375	2.4	101.0	"	"	9400	-	17	305	3.0
13	400	2.3	111.1	"	"	9800	-	15.5	335	2.7
11.5	455	2.0	124.5	"	"	10200	-	13.5	385	2.3
10.5	500	1.8	137.0	"	"	10600	-	12.5	420	2.1
10	520	1.75	141.4	BF40Z-../D08MA4	56	10600	-	12	435	2.1
9.0	580	1.55	155.6	"	"	10600	-	11	475	1.9
8.2	640	1.4	171.2	"	"	10600	-	9.9	530	1.7
7.5	700	1.3	188.3	"	"	10600	-	9.0	580	1.55
7.0	750	1.2	202.2	"	"	10600	-	8.4	620	1.45
6.3	830	1.1	222.4	"	"	10600	-	7.6	690	1.3
5.6	930	0.97	253.2	"	"	10600	-	6.7	780	1.15
5.1	1020	0.88	278.5	"	"	10600	-	6.1	860	1.05
4.8	1090	0.83	295.1	"	"	10600	-	5.7	920	0.98
12.5	420	3.1	114.0	BF50-../D08MA4	81	12900	-	15	350	3.7
11	475	2.7	127.5	"	"	13600	-	13.5	385	3.4
10.5	500	2.6	138.1	BF50Z-../D08MA4	86	13600	-	12.5	420	3.1
9.1	570	2.3	154.5	"	"	13600	-	11	475	2.7
7.7	680	1.9	183.5	"	"	13600	-	9.2	570	2.3
6.9	760	1.7	205.2	"	"	13600	-	8.2	640	2.0
5.7	920	1.4	247.5	"	"	13600	-	6.8	770	1.7
5.1	1020	1.25	276.8	"	"	13600	-	6.1	860	1.5
4.5	1160	1.1	316.6	"	"	13600	-	5.4	970	1.35
4.0	1310	0.99	354.0	"	"	13600	-	4.8	1090	1.2
3.6	1450	0.9	392.8	"	"	13600	-	4.3	1220	1.05
7.5	700	3.3	187.7	BF60Z-../D08MA4	130	15300	43300	9.0	580	4.0
6.4	820	2.8	221.4	"	"	15300	43300	7.6	690	3.3
5.8	900	2.6	245.6	"	"	15300	43300	6.9	760	3.0
4.8	1090	2.1	293.4	"	"	15300	43300	5.8	900	2.6

P = 0.55 kW

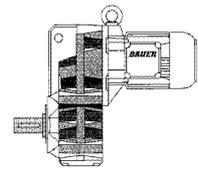


50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
4.3	1220	1.9	325.6	BF60Z-../D08MA4	"	15300	43300	5.2	1010	2.3
3.7	1410	1.65	380.0	"	"	15300	43300	4.5	1160	2.0
3.4	1540	1.5	421.6	"	"	15300	43300	4.0	1310	1.75
3.1	1690	1.35	459.9	"	"	15300	43300	3.7	1410	1.65
2.8	1870	1.25	510.3	"	"	15300	43300	3.3	1590	1.45
2.5	1860	1.35	569.3	BF60G20-../D08MA4	137	15300	43300	3.0	1510	1.65
2.1	2200	1.15	689.0	"	"	15300	43300	2.5	1810	1.4
1.8	2600	0.96	813.2	"	"	15300	43300	2.1	2150	1.15
3.2	1640	3.2	439.2	BF70Z-../D08MA4	218	16100	47700	3.9	1340	3.9
2.8	1870	2.8	512.4	"	"	16100	47700	3.3	1590	3.3
2.7	1720	3.3	524.1	BF70G20-../D08MA4	216	16100	47700	3.3	1370	4.2
2.5	1850	3.1	577.5	"	"	16100	47700	3.0	1500	3.8
2.1	2200	2.6	673.6	"	"	16100	47700	2.5	1810	3.1
1.7	2800	2.0	872.1	"	"	16100	47700	2.0	2350	2.4
1.4	3450	1.65	1017	"	"	16100	47700	1.7	2750	2.1
1.1	4400	1.3	1390	"	"	16100	47700	1.3	3650	1.55
0.9	5400	1.05	1621	"	"	16100	47700	1.1	4350	1.3
1.5	3500	3.0	990.4	BF80Z-../D08MA4	334	39600	75000	1.7	3050	3.4
1.3	4000	2.6	1124	"	"	39600	75000	1.5	3500	3.0
1.1	3300	3.2	1329	BF80G40-../D08MA4	340	39600	75000	1.3	2550	4.1
0.95	4100	2.6	1491	"	"	39600	75000	1.2	2950	3.6
0.85	4550	2.3	1693	"	"	39600	75000	1.0	3650	2.9
0.7	5900	1.8	2051	"	"	39600	75000	0.85	4550	2.3
0.6	7100	1.5	2422	"	"	39600	75000	0.7	5900	1.8
0.55	7500	1.4	2785	"	"	39600	75000	0.65	6000	1.75
0.46	9300	1.15	3092	"	"	39600	75000	0.55	7400	1.4
0.65	6000	3.1	2154	BF90G50-../D08MA4	610	42800	120000	0.8	4500	4.1
0.55	7100	2.6	2656	"	"	42800	120000	0.65	5700	3.2
0.48	8600	2.2	2952	"	"	42800	120000	0.6	6500	2.8
0.43	9700	1.9	3286	"	"	42800	120000	0.55	7000	2.6
0.39	10900	1.7	3644	"	"	42800	120000	0.47	8600	2.2
0.33	13400	1.4	4366	"	"	42800	120000	0.39	10900	1.7
0.29	15600	1.2	4839	"	"	42800	120000	0.35	12500	1.5

P = 0.75 kW

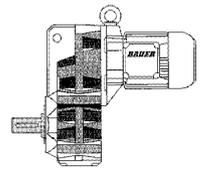
50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
245	29	2.1	5.72	BF06-../D08LA4	17	1630	-	295	24	2.6
183	39	1.75	7.66	"	"	1800	-	220	32.5	2.1
153	46.5	1.5	9.21	"	"	1900	-	183	39	1.8
116	61	1.25	12.07	"	"	2000	-	140	51	1.45
99	72	1.2	14.21	"	"	2100	-	119	60	1.4
83	86	1.1	16.99	"	"	2500	-	99	72	1.3
69	103	0.92	20.42	"	"	2700	-	83	86	1.1
119	60	3.1	11.84	BF10-../D08LA4	28	2500	-	142	50	3.7
94	76	2.4	15.04	"	"	2800	-	112	63	2.9
77	93	2.6	18.23	"	"	2900	-	93	77	3.1
70	102	2.4	20.05	"	"	3000	-	84	85	2.8
61	117	2.1	23.28	"	"	3200	-	73	98	2.4
55	130	1.85	25.60	"	"	3350	-	66	108	2.2
49.5	144	1.65	28.47	"	"	3450	-	60	119	2.0
45	159	1.5	31.31	"	"	3600	-	54	132	1.8
39	183	1.3	36.15	"	"	3800	-	46.5	154	1.55
35.5	200	1.2	39.75	"	"	3950	-	42.5	168	1.45
33	215	1.1	43.06	"	"	4100	-	39.5	181	1.35

P = 0.75 kW



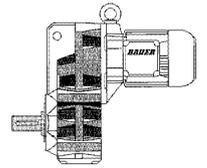
50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
30	235	1.0	47.35	BF10-../D08LA4	"	4250	-	35.5	200	1.2
27.5	260	0.92	51.28	"	"	4400	-	33	215	1.1
25	285	0.84	56.39	"	"	4550	-	30	235	1.0
58	123	3.3	24.25	BF20-../D08LA4	35	3950	-	70	102	4.0
51	140	3.0	27.62	"	"	4150	-	61	117	3.6
46.5	154	2.7	30.40	"	"	4400	-	56	127	3.3
43	166	2.5	32.58	"	"	4450	-	52	137	3.1
39.5	181	2.3	35.85	"	"	4650	-	47	152	2.8
34	210	2.0	41.72	"	"	4950	-	40.5	176	2.4
31	230	1.85	45.90	"	"	5100	-	37	193	2.2
29	245	1.7	48.56	"	"	5200	-	35	200	2.1
26.5	270	1.55	53.43	"	"	5500	-	31.5	225	1.85
24.5	290	1.45	58.24	"	"	5600	-	29	245	1.7
22	325	1.3	64.08	"	"	5900	-	26.5	270	1.55
20.5	345	1.2	69.70	"	"	6100	-	24.5	290	1.45
18.5	385	1.1	76.69	"	"	6300	-	22	325	1.3
16.5	430	0.98	87.31	"	"	6600	-	19.5	365	1.15
15	475	0.88	96.08	"	"	6900	-	17.5	405	1.05
14	510	0.82	100.2	"	"	7000	-	17	420	1.0
40	179	3.2	35.00	BF30-../D08LA4	45	4200	-	48	149	3.9
36.5	196	2.9	38.49	"	"	4400	-	44	162	3.5
34.5	205	2.8	41.01	"	"	4500	-	41	174	3.3
31.5	225	2.6	45.10	"	"	4700	-	37.5	191	3.0
27	265	2.2	52.20	"	"	5000	-	32.5	220	2.6
24.5	290	2.0	57.41	"	"	5200	-	29.5	240	2.4
23	310	1.85	61.17	"	"	5300	-	27.5	260	2.2
21	340	1.7	67.28	"	"	5500	-	25	285	2.0
19.5	365	1.6	72.13	"	"	5700	-	23.5	300	1.9
18	395	1.45	79.34	"	"	5900	-	21.5	330	1.75
16.5	430	1.35	87.08	"	"	6200	-	19.5	365	1.6
15	475	1.2	95.79	"	"	6400	-	18	395	1.45
13.5	530	1.1	107.6	"	"	6700	-	16	445	1.3
12	590	0.97	118.3	"	"	7000	-	14.5	490	1.15
11.5	620	0.93	124.7	"	"	7100	-	13.5	530	1.1
10.5	680	0.85	137.1	"	"	7400	-	12.5	570	1.0
26.5	270	3.3	53.82	BF40-../D08LA4	54	7200	-	31.5	225	4.0
23	310	2.9	61.25	"	"	7600	-	27.5	260	3.5
21	340	2.6	67.38	"	"	8000	-	25	285	3.2
20	355	2.5	71.40	"	"	8100	-	24	295	3.1
18	395	2.3	78.55	"	"	8500	-	21.5	330	2.7
17	420	2.1	83.91	"	"	8700	-	20.5	345	2.6
15.5	460	1.95	92.31	"	"	9100	-	18.5	385	2.3
14	510	1.75	101.0	"	"	9400	-	17	420	2.1
13	550	1.65	111.1	"	"	9800	-	15.5	460	1.95
11.5	620	1.45	124.5	"	"	10200	-	13.5	530	1.7
10.5	680	1.3	137.0	"	"	10600	-	12.5	570	1.6
10	710	1.25	141.4	BF40Z-../D08LA4	58	10600	-	12	590	1.55
9.0	790	1.15	155.6	"	"	10600	-	11	650	1.4
8.2	870	1.05	171.2	"	"	10600	-	9.9	720	1.25
7.5	950	0.95	188.3	"	"	10600	-	9.0	790	1.15
7.0	1020	0.88	202.2	"	"	10600	-	8.4	850	1.05
6.3	1130	0.8	222.4	"	"	10600	-	7.6	940	0.96
17.5	405	3.2	81.33	BF50-../D08LA4	83	11300	-	21	340	3.8
16	445	2.9	90.24	"	"	11800	-	19	375	3.5
14	510	2.5	100.9	"	"	12300	-	17	420	3.1
12.5	570	2.3	114.0	"	"	12900	-	15	475	2.7
11	650	2.0	127.5	"	"	13600	-	13.5	530	2.5

P = 0.75 kW



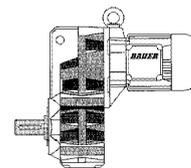
50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
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10.5	680	1.9	138.1	BF50Z-../D08LA4	88	13600	-	12.5	570	2.3
9.1	780	1.65	154.5	"	"	13600	-	11	650	2.0
7.7	930	1.4	183.5	"	"	13600	-	9.2	770	1.7
6.9	1030	1.25	205.2	"	"	13600	-	8.2	870	1.5
5.7	1250	1.05	247.5	"	"	13600	-	6.8	1050	1.25
5.1	1400	0.93	276.8	"	"	13600	-	6.1	1170	1.1
4.5	1590	0.82	316.6	"	"	13600	-	5.4	1320	0.98
10	710	3.2	140.8	BF60Z-../D08LA4	131	15300	43300	12	590	3.9
8.3	860	2.7	169.2	"	"	15300	43300	10	710	3.2
7.5	950	2.4	187.7	"	"	15300	43300	9.0	790	2.9
6.4	1110	2.1	221.4	"	"	15300	43300	7.6	940	2.4
5.8	1230	1.85	245.6	"	"	15300	43300	6.9	1030	2.2
4.8	1490	1.55	293.4	"	"	15300	43300	5.8	1230	1.85
4.3	1660	1.4	325.6	"	"	15300	43300	5.2	1370	1.7
3.7	1930	1.2	380.0	"	"	15300	43300	4.5	1590	1.45
3.4	2100	1.1	421.6	"	"	15300	43300	4.0	1790	1.3
3.1	2300	1.0	459.9	"	"	15300	43300	3.7	1930	1.2
2.8	2550	0.9	510.3	"	"	15300	43300	3.3	2150	1.05
2.5	2600	0.96	569.3	BF60G20-../D08LA4	139	15300	43300	3.0	2100	1.2
2.1	3100	0.81	689.0	"	"	15300	43300	2.5	2550	0.98
4.1	1740	3.0	341.7	BF70Z-../D08LA4	220	16100	47700	5.0	1430	3.6
3.6	1980	2.6	398.7	"	"	16100	47700	4.3	1660	3.1
3.2	2200	2.4	439.2	"	"	16100	47700	3.9	1830	2.8
2.8	2550	2.0	512.4	"	"	16100	47700	3.3	2150	2.4
2.7	2400	2.4	524.1	BF70G20-../D08LA4	217	16100	47700	3.3	1950	2.9
2.5	2600	2.2	577.5	"	"	16100	47700	3.0	2100	2.7
2.1	3100	1.85	673.6	"	"	16100	47700	2.5	2550	2.2
1.7	3950	1.45	872.1	"	"	16100	47700	2.0	3300	1.75
1.4	4800	1.2	1017	"	"	16100	47700	1.7	3900	1.45
1.1	6100	0.93	1390	"	"	16100	47700	1.3	5100	1.1
2.2	3250	3.2	662.1	BF80Z-../D08LA4	336	39600	75000	2.6	2750	3.8
1.9	3750	2.8	770.6	"	"	39600	75000	2.2	3250	3.2
1.7	4200	2.5	874.6	"	"	39600	75000	2.0	3550	3.0
1.5	4750	2.2	990.4	"	"	39600	75000	1.7	4200	2.5
1.3	5500	1.9	1124	"	"	39600	75000	1.5	4750	2.2
1.1	5000	2.1	1329	BF80G40-../D08LA4	341	39600	75000	1.3	4050	2.6
0.95	6100	1.7	1491	"	"	39600	75000	1.2	4550	2.3
0.85	6800	1.55	1693	"	"	39600	75000	1.0	5500	1.9
0.7	8600	1.2	2051	"	"	39600	75000	0.85	6800	1.55
0.6	10300	1.0	2422	"	"	39600	75000	0.7	8600	1.2
1.0	5700	3.2	1444	BF90G50-../D08LA4	612	42800	120000	1.2	4550	4.1
0.85	6800	2.7	1678	"	"	42800	120000	1.1	4900	3.8
0.75	7700	2.4	1867	"	"	42800	120000	0.9	6100	3.0
0.65	8900	2.1	2154	"	"	42800	120000	0.8	6800	2.7
0.55	10600	1.75	2656	"	"	42800	120000	0.65	8600	2.2
0.48	12600	1.45	2952	"	"	42800	120000	0.6	9600	1.95
0.43	14100	1.3	3286	"	"	42800	120000	0.55	10500	1.75
0.39	15800	1.15	3644	"	"	42800	120000	0.47	12700	1.45

P = 1.1kW



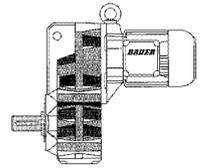
50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
250	42	3.3	5.60	BF10-../D09SA4	32	1980	-	300	35	3.9
185	56	2.7	7.58	"	"	2200	-	225	46.5	3.3
145	72	2.5	9.69	"	"	2350	-	174	60	3.0
119	88	2.1	11.84	"	"	2500	-	142	73	2.5
94	111	1.65	15.04	"	"	2800	-	112	93	1.95
77	136	1.75	18.23	"	"	2900	-	93	112	2.1
70	150	1.6	20.05	"	"	3000	-	84	125	1.9
61	172	1.4	23.28	"	"	3200	-	73	143	1.7
55	191	1.25	25.60	"	"	3350	-	66	159	1.5
49.5	210	1.15	28.47	"	"	3450	-	60	175	1.35
45	230	1.05	31.31	"	"	3600	-	54	194	1.25
39	265	0.91	36.15	"	"	3800	-	46.5	225	1.05
35.5	295	0.81	39.75	"	"	3950	-	42.5	245	0.98
134	78	3.3	10.51	BF20-../D09SA4	38	3100	-	160	65	3.9
107	98	2.9	13.18	"	"	3300	-	128	82	3.5
91	115	2.7	15.54	"	"	3450	-	109	96	3.2
84	125	2.9	16.77	"	"	3500	-	101	104	3.5
76	138	2.7	18.45	"	"	3600	-	92	114	3.2
64	164	2.4	22.04	"	"	3800	-	77	136	2.9
58	181	2.2	24.25	"	"	3950	-	70	150	2.7
51	205	2.0	27.62	"	"	4150	-	61	172	2.4
46.5	225	1.85	30.40	"	"	4400	-	56	187	2.2
43	240	1.75	32.58	"	"	4450	-	52	200	2.1
39.5	265	1.6	35.85	"	"	4650	-	47	220	1.9
34	305	1.4	41.72	"	"	4950	-	40.5	255	1.65
31	335	1.25	45.90	"	"	5100	-	37	280	1.5
29	360	1.15	48.56	"	"	5200	-	35	300	1.4
26.5	395	1.05	53.43	"	"	5500	-	31.5	330	1.25
24.5	425	0.99	58.24	"	"	5600	-	29	360	1.15
22	475	0.88	64.08	"	"	5900	-	26.5	395	1.05
20.5	510	0.82	69.70	"	"	6100	-	24.5	425	0.99
65	161	3.3	21.85	BF30-../D09SA4	49	3500	-	77	136	3.9
59	178	3.1	24.03	"	"	3600	-	70	150	3.7
50	210	2.7	28.23	"	"	3800	-	60	175	3.3
45.5	230	2.5	31.05	"	"	4000	-	55	191	3.0
40	260	2.2	35.00	"	"	4200	-	48	215	2.7
36.5	285	2.0	38.49	"	"	4400	-	44	235	2.4
34.5	300	1.9	41.01	"	"	4500	-	41	255	2.3
31.5	330	1.75	45.10	"	"	4700	-	37.5	280	2.1
27	385	1.5	52.20	"	"	5000	-	32.5	320	1.8
24.5	425	1.35	57.41	"	"	5200	-	29.5	355	1.6
23	455	1.25	61.17	"	"	5300	-	27.5	380	1.5
21	500	1.15	67.28	"	"	5500	-	25	420	1.35
19.5	530	1.1	72.13	"	"	5700	-	23.5	445	1.3
18	580	0.99	79.34	"	"	5900	-	21.5	485	1.2
16.5	630	0.91	87.08	"	"	6200	-	19.5	530	1.1
15	700	0.82	95.79	"	"	6400	-	18	580	0.99
37.5	280	3.2	37.64	BF40-../D09SA4	58	6200	-	45	230	3.9
34	305	3.0	41.42	"	"	6500	-	41	255	3.5
31	335	2.7	45.56	"	"	6800	-	37	280	3.2
29	360	2.5	48.92	"	"	7000	-	34.5	300	3.0
26.5	395	2.3	53.82	"	"	7200	-	31.5	330	2.7
23	455	2.0	61.25	"	"	7600	-	27.5	380	2.4
21	500	1.8	67.38	"	"	8000	-	25	420	2.1
20	520	1.75	71.40	"	"	8100	-	24	435	2.1
18	580	1.55	78.55	"	"	8500	-	21.5	485	1.85
17	610	1.5	83.91	"	"	8700	-	20.5	510	1.75
15.5	670	1.35	92.31	"	"	9100	-	18.5	560	1.6
14	750	1.2	101.0	"	"	9400	-	17	610	1.5
13	800	1.15	111.1	"	"	9800	-	15.5	670	1.35

P = 1.1 kW



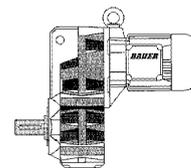
50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
11.5	910	0.99	124.5	BF40-../D09SA4	"	10200	-	13.5	770	1.15
10.5	1000	0.9	137.0	"	"	10600	-	12.5	840	1.05
10	1050	0.86	141.4	BF40Z-../D09SA4	62	10600	-	12	870	1.05
25	420	3.1	56.86	BF50-../D09SA4	86	9300	-	30	350	3.7
22.5	465	2.8	63.59	"	"	9800	-	26.5	395	3.3
19.5	530	2.5	72.72	"	"	10700	-	23.5	445	2.9
17.5	600	2.2	81.33	"	"	11300	-	21	500	2.6
16	650	2.0	90.24	"	"	11800	-	19	550	2.4
14	750	1.75	100.9	"	"	12300	-	17	610	2.1
12.5	840	1.55	114.0	"	"	12900	-	15	700	1.85
11	950	1.35	127.5	"	"	13600	-	13.5	770	1.7
10.5	1000	1.3	138.1	BF50Z-../D09SA4	91	13600	-	12.5	840	1.55
9.1	1150	1.15	154.5	"	"	13600	-	11	950	1.35
7.7	1360	0.96	183.5	"	"	13600	-	9.2	1140	1.15
6.9	1520	0.86	205.2	"	"	13600	-	8.2	1280	1.0
15	700	3.3	93.44	BF60-../D09SA4	116	13500	38200	18	580	4.0
14	750	3.1	103.7	"	"	14100	39900	16.5	630	3.7
12.5	840	2.7	113.1	"	"	14600	41300	15	700	3.3
11.5	910	2.5	125.5	"	"	15300	43300	13.5	770	3.0
10	1050	2.2	140.8	BF60Z-../D09SA4	135	15300	43300	12	870	2.6
8.3	1260	1.85	169.2	"	"	15300	43300	10	1050	2.2
7.5	1400	1.65	187.7	"	"	15300	43300	9.0	1160	2.0
6.4	1640	1.4	221.4	"	"	15300	43300	7.6	1380	1.65
5.8	1810	1.25	245.6	"	"	15300	43300	6.9	1520	1.5
4.8	2150	1.05	293.4	"	"	15300	43300	5.8	1810	1.25
4.3	2400	0.96	325.6	"	"	15300	43300	5.2	2000	1.15
3.7	2800	0.82	380.0	"	"	15300	43300	4.5	2300	1.0
6.1	1720	3.0	233.0	BF70Z-../D09SA4	223	16100	47700	7.3	1430	3.6
5.5	1910	2.7	258.7	"	"	16100	47700	6.5	1610	3.2
4.7	2200	2.4	301.8	"	"	16100	47700	5.6	1870	2.8
4.1	2550	2.0	341.7	"	"	16100	47700	5.0	2100	2.5
3.6	2900	1.8	398.7	"	"	16100	47700	4.3	2400	2.2
3.2	3250	1.6	439.2	"	"	16100	47700	3.9	2650	1.95
2.8	3750	1.4	512.4	"	"	16100	47700	3.3	3150	1.65
2.7	3650	1.55	524.1	BF70G20-../D09SA4	221	16100	47700	3.3	2950	1.95
2.5	3950	1.45	577.5	"	"	16100	47700	3.0	3250	1.75
2.1	4700	1.2	673.6	"	"	16100	47700	2.5	3900	1.45
1.7	5900	0.97	872.1	"	"	16100	47700	2.0	4950	1.15
3.2	3250	3.2	450.4	BF80Z-../D09SA4	340	39600	75000	3.8	2750	3.8
2.8	3750	2.8	511.2	"	"	39600	75000	3.3	3150	3.3
2.4	4350	2.4	583.4	"	"	39600	75000	2.9	3600	2.9
2.2	4750	2.2	662.1	"	"	39600	75000	2.6	4000	2.6
1.9	5500	1.9	770.6	"	"	39600	75000	2.2	4750	2.2
1.7	6100	1.7	874.6	"	"	39600	75000	2.0	5200	2.0
1.5	7000	1.5	990.4	"	"	39600	75000	1.7	6100	1.7
1.3	8000	1.3	1124	"	"	39600	75000	1.5	7000	1.5
1.1	8100	1.3	1329	BF80G40-../D09SA4	345	39600	75000	1.3	6600	1.6
0.95	9600	1.1	1491	"	"	39600	75000	1.2	7300	1.45
1.7	6100	3.0	845.1	BF90Z-../D09SA4	604	42800	120000	2.0	5200	3.6
1.4	6100	3.0	1043	BF90G50-../D09SA4	616	42800	120000	1.7	4750	3.9
1.2	7100	2.6	1204	"	"	42800	120000	1.4	5800	3.2
1.0	9100	2.0	1444	"	"	42800	120000	1.2	7300	2.5
0.85	10700	1.75	1678	"	"	42800	120000	1.1	7900	2.3
0.75	12200	1.5	1867	"	"	42800	120000	0.9	9800	1.9
0.65	14100	1.3	2154	"	"	42800	120000	0.8	11000	1.7
0.55	16700	1.1	2656	"	"	42800	120000	0.65	13700	1.35

P = 1.5 kW



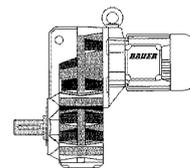
50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
250	57	2.4	5.60	BF10-../D09LA4	36	1980	-	300	47.5	2.9
185	77	2.0	7.58	"	"	2200	-	225	63	2.4
145	98	1.8	9.69	"	"	2350	-	174	82	2.2
119	120	1.55	11.84	"	"	2500	-	142	100	1.85
94	152	1.2	15.04	"	"	2800	-	112	127	1.45
77	186	1.3	18.23	"	"	2900	-	93	154	1.55
70	200	1.2	20.05	"	"	3000	-	84	170	1.4
61	230	1.05	23.28	"	"	3200	-	73	196	1.2
55	260	0.92	25.60	"	"	3350	-	66	215	1.1
49.5	285	0.84	28.47	"	"	3450	-	60	235	1.0
235	60	3.3	6.04	BF20-../D09LA4	42	2550	-	280	51	3.9
175	81	2.7	8.00	"	"	2850	-	210	68	3.2
134	106	2.4	10.51	"	"	3100	-	160	89	2.9
107	133	2.1	13.18	"	"	3300	-	128	111	2.6
91	157	1.95	15.54	"	"	3450	-	109	131	2.4
84	170	2.1	16.77	"	"	3500	-	101	141	2.6
76	188	1.95	18.45	"	"	3600	-	92	155	2.4
64	220	1.8	22.04	"	"	3800	-	77	186	2.1
58	245	1.65	24.25	"	"	3950	-	70	200	2.0
51	280	1.5	27.62	"	"	4150	-	61	230	1.85
46.5	305	1.4	30.40	"	"	4400	-	56	255	1.65
43	330	1.25	32.58	"	"	4450	-	52	275	1.55
39.5	360	1.15	35.85	"	"	4650	-	47	300	1.4
34	420	1.0	41.72	"	"	4950	-	40.5	350	1.2
31	460	0.91	45.90	"	"	5100	-	37	385	1.1
29	490	0.86	48.56	"	"	5200	-	35	405	1.05
141	101	3.2	9.99	BF30-../D09LA4	53	2850	-	169	84	3.8
109	131	2.8	12.91	"	"	3050	-	131	109	3.4
88	162	2.5	16.00	"	"	3250	-	105	136	3.0
80	179	2.7	17.65	"	"	3300	-	96	149	3.2
73	196	2.6	19.41	"	"	3400	-	87	164	3.1
65	220	2.4	21.85	"	"	3500	-	77	186	2.8
59	240	2.3	24.03	"	"	3600	-	70	200	2.8
50	285	2.0	28.23	"	"	3800	-	60	235	2.4
45.5	310	1.85	31.05	"	"	4000	-	55	260	2.2
40	355	1.6	35.00	"	"	4200	-	48	295	1.95
36.5	390	1.45	38.49	"	"	4400	-	44	325	1.75
34.5	415	1.4	41.01	"	"	4500	-	41	345	1.65
31.5	450	1.3	45.10	"	"	4700	-	37.5	380	1.5
27	530	1.1	52.20	"	"	5000	-	32.5	440	1.3
24.5	580	0.99	57.41	"	"	5200	-	29.5	485	1.2
23	620	0.93	61.17	"	"	5300	-	27.5	520	1.1
21	680	0.85	67.28	"	"	5500	-	25	570	1.0
65	220	3.2	21.60	BF40-../D09LA4	62	5200	-	78	183	3.8
59	240	3.1	23.77	"	"	5400	-	71	200	3.7
53	270	2.9	26.86	"	"	5600	-	63	225	3.4
47.5	300	2.7	29.55	"	"	5800	-	57	250	3.2
41	345	2.5	34.21	"	"	6000	-	49.5	285	3.0
37.5	380	2.4	37.64	"	"	6200	-	45	315	2.8
34	420	2.1	41.42	"	"	6500	-	41	345	2.6
31	460	1.95	45.56	"	"	6800	-	37	385	2.3
29	490	1.85	48.92	"	"	7000	-	34.5	415	2.2
26.5	540	1.65	53.82	"	"	7200	-	31.5	450	2.0
23	620	1.45	61.25	"	"	7600	-	27.5	520	1.75
21	680	1.3	67.38	"	"	8000	-	25	570	1.6
20	710	1.25	71.40	"	"	8100	-	24	590	1.55
18	790	1.15	78.55	"	"	8500	-	21.5	660	1.35
17	840	1.05	83.91	"	"	8700	-	20.5	690	1.3
15.5	920	0.98	92.31	"	"	9100	-	18.5	770	1.15
14	1020	0.88	101.0	"	"	9400	-	17	840	1.05

P = 1.5 kW



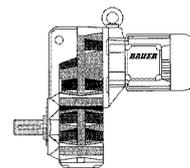
50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
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13	1100	0.82	111.1	BF40-../D09LA4	"	9800	-	15.5	920	0.98
33.5	425	3.1	42.15	BF50-../D09LA4	90	8500	-	40	355	3.7
30	475	2.7	47.14	"	"	8900	-	36	395	3.3
25	570	2.3	56.86	"	"	9300	-	30	475	2.7
22.5	630	2.1	63.59	"	"	9800	-	26.5	540	2.4
19.5	730	1.8	72.72	"	"	10700	-	23.5	600	2.2
17.5	810	1.6	81.33	"	"	11300	-	21	680	1.9
16	890	1.45	90.24	"	"	11800	-	19	750	1.75
14	1020	1.25	100.9	"	"	12300	-	17	840	1.55
12.5	1140	1.15	114.0	"	"	12900	-	15	950	1.35
11	1300	1.0	127.5	"	"	13600	-	13.5	1060	1.25
10.5	1360	0.96	138.1	BF50Z-../D09LA4	95	13600	-	12.5	1140	1.15
9.1	1570	0.83	154.5	"	"	13600	-	11	1300	1.0
19.5	730	3.2	72.15	BF60-../D09LA4	120	12000	34000	23.5	600	3.8
17.5	810	2.8	80.05	"	"	12600	35600	21	680	3.4
15	950	2.4	93.44	"	"	13500	38200	18	790	2.9
14	1020	2.3	103.7	"	"	14100	39900	16.5	860	2.7
12.5	1140	2.0	113.1	"	"	14600	41300	15	950	2.4
11.5	1240	1.85	125.5	"	"	15300	43300	13.5	1060	2.2
10	1430	1.6	140.8	BF60Z-../D09LA4	139	15300	43300	12	1190	1.95
8.3	1720	1.35	169.2	"	"	15300	43300	10	1430	1.6
7.5	1910	1.2	187.7	"	"	15300	43300	9.0	1590	1.45
6.4	2200	1.05	221.4	"	"	15300	43300	7.6	1880	1.2
5.8	2450	0.94	245.6	"	"	15300	43300	6.9	2050	1.1
9.1	1570	3.3	154.0	BF70Z-../D09LA4	227	16100	47700	11	1300	4.0
7.8	1830	2.8	179.7	"	"	16100	47700	9.4	1520	3.4
7.1	2000	2.6	199.7	"	"	16100	47700	8.5	1680	3.1
6.1	2300	2.3	233.0	"	"	16100	47700	7.3	1960	2.7
5.5	2600	2.0	258.7	"	"	16100	47700	6.5	2200	2.4
4.7	3000	1.75	301.8	"	"	16100	47700	5.6	2550	2.0
4.1	3450	1.5	341.7	"	"	16100	47700	5.0	2850	1.8
3.6	3950	1.3	398.7	"	"	16100	47700	4.3	3300	1.6
3.2	4450	1.15	439.2	"	"	16100	47700	3.9	3650	1.4
2.8	5100	1.0	512.4	"	"	16100	47700	3.3	4300	1.2
2.7	5000	1.15	524.1	BF70G20-../D09LA4	225	16100	47700	3.3	4100	1.4
2.5	5400	1.05	577.5	"	"	16100	47700	3.0	4500	1.25
2.1	6500	0.88	673.6	"	"	16100	47700	2.5	5400	1.05
4.1	3450	3.0	347.3	BF80Z-../D09LA4	344	39600	75000	4.9	2900	3.6
3.6	3950	2.7	394.2	"	"	39600	75000	4.3	3300	3.2
3.2	4450	2.4	450.4	"	"	39600	75000	3.8	3750	2.8
2.8	5100	2.1	511.2	"	"	39600	75000	3.3	4300	2.4
2.4	5900	1.8	583.4	"	"	39600	75000	2.9	4900	2.1
2.2	6500	1.6	662.1	"	"	39600	75000	2.6	5500	1.9
1.9	7500	1.4	770.6	"	"	39600	75000	2.2	6500	1.6
1.7	8400	1.25	874.6	"	"	39600	75000	2.0	7100	1.5
1.5	9500	1.1	990.4	"	"	39600	75000	1.7	8400	1.25
1.3	11000	0.95	1124	"	"	39600	75000	1.5	9500	1.1
1.1	11500	0.91	1329	BF80G40-../D09LA4	349	39600	75000	1.3	9500	1.1
2.4	5900	3.1	591.1	BF90Z-../D09LA4	608	42800	120000	2.9	4900	3.8
2.2	6500	2.8	658.1	"	"	42800	120000	2.6	5500	3.4
1.9	7500	2.5	759.0	"	"	42800	120000	2.3	6200	3.0
1.7	8400	2.2	845.1	"	"	42800	120000	2.0	7100	2.6
1.5	7900	2.3	976.1	BF90G50-../D09LA4	620	42800	120000	1.8	6300	2.9
1.4	8800	2.1	1043	"	"	42800	120000	1.7	7000	2.6
1.2	10300	1.8	1204	"	"	42800	120000	1.4	8600	2.2
1.0	12900	1.45	1444	"	"	42800	120000	1.2	10500	1.75
0.85	15200	1.2	1678	"	"	42800	120000	1.1	11400	1.6
0.75	17300	1.05	1867	"	"	42800	120000	0.9	14100	1.3

P = 2.2 kW



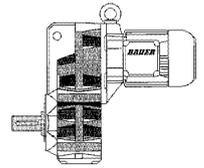
50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
250	84	1.65	5.60	BF10-../D09XA4	40	1980	-	300	70	1.95
185	113	1.35	7.58	"	"	2200	-	225	93	1.65
145	144	1.25	9.69	"	"	2350	-	174	120	1.5
119	176	1.05	11.84	"	"	2500	-	142	147	1.25
94	220	0.83	15.04	"	"	2800	-	112	187	0.98
77	270	0.89	18.23	"	"	2900	-	93	225	1.05
70	300	0.8	20.05	"	"	3000	-	84	250	0.96
235	89	2.2	6.04	BF20-../D09XA4	46	2550	-	280	75	2.7
175	120	1.85	8.00	"	"	2850	-	210	100	2.2
134	156	1.65	10.51	"	"	3100	-	160	131	1.95
107	196	1.45	13.18	"	"	3300	-	128	164	1.75
91	230	1.35	15.54	"	"	3450	-	109	192	1.6
84	250	1.45	16.77	"	"	3500	-	101	205	1.75
76	275	1.35	18.45	"	"	3600	-	92	225	1.65
64	325	1.2	22.04	"	"	3800	-	77	270	1.45
58	360	1.1	24.25	"	"	3950	-	70	300	1.35
51	410	1.0	27.62	"	"	4150	-	61	340	1.25
46.5	450	0.93	30.40	"	"	4400	-	56	375	1.1
43	485	0.87	32.58	"	"	4450	-	52	400	1.05
225	93	2.8	6.34	BF30-../D09XA4	57	2400	-	265	79	3.3
174	120	2.4	8.07	"	"	2650	-	210	100	2.9
141	149	2.1	9.99	"	"	2850	-	169	124	2.6
109	192	1.9	12.91	"	"	3050	-	131	160	2.3
88	235	1.75	16.00	"	"	3250	-	105	200	2.0
80	260	1.85	17.65	"	"	3300	-	96	215	2.2
73	285	1.75	19.41	"	"	3400	-	87	240	2.1
65	320	1.65	21.85	"	"	3500	-	77	270	1.95
59	355	1.55	24.03	"	"	3600	-	70	300	1.85
50	420	1.35	28.23	"	"	3800	-	60	350	1.65
45.5	460	1.25	31.05	"	"	4000	-	55	380	1.5
40	520	1.1	35.00	"	"	4200	-	48	435	1.3
36.5	570	1.0	38.49	"	"	4400	-	44	475	1.2
34.5	600	0.96	41.01	"	"	4500	-	41	510	1.15
31.5	660	0.87	45.10	"	"	4700	-	37.5	560	1.05
184	114	3.2	7.62	BF40-../D09XA4	66	3900	-	225	93	4.0
148	141	2.9	9.48	"	"	4150	-	178	118	3.5
119	176	2.6	11.79	"	"	4450	-	143	146	3.2
94	220	2.4	15.02	"	"	4800	-	112	187	2.8
81	255	2.5	17.35	"	"	4950	-	97	215	3.0
74	280	2.4	19.09	"	"	5100	-	89	235	2.8
65	320	2.2	21.60	"	"	5200	-	78	265	2.7
59	355	2.1	23.77	"	"	5400	-	71	295	2.5
53	395	1.95	26.86	"	"	5600	-	63	330	2.3
47.5	440	1.85	29.55	"	"	5800	-	57	365	2.2
41	510	1.7	34.21	"	"	6000	-	49.5	420	2.0
37.5	560	1.6	37.64	"	"	6200	-	45	465	1.9
34	610	1.5	41.42	"	"	6500	-	41	510	1.75
31	670	1.35	45.56	"	"	6800	-	37	560	1.6
29	720	1.25	48.92	"	"	7000	-	34.5	600	1.5
26.5	790	1.15	53.82	"	"	7200	-	31.5	660	1.35
23	910	0.99	61.25	"	"	7600	-	27.5	760	1.2
21	1000	0.9	67.38	"	"	8000	-	25	840	1.05
20	1050	0.86	71.40	"	"	8100	-	24	870	1.05
61	340	3.3	23.14	BF50-../D09XA4	94	6800	-	73	285	3.9
55	380	3.1	25.88	"	"	7100	-	65	320	3.6
44.5	470	2.7	31.73	"	"	7500	-	53	395	3.2
39.5	530	2.5	35.49	"	"	7800	-	47.5	440	3.0
33.5	620	2.1	42.15	"	"	8500	-	40	520	2.5
30	700	1.85	47.14	"	"	8900	-	36	580	2.2

P = 2.2 kW



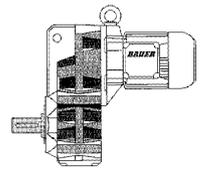
50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
25	840	1.55	56.86	BF50-../D09XA4	"	9300	-	30	700	1.85
22.5	930	1.4	63.59	"	"	9800	-	26.5	790	1.65
19.5	1070	1.2	72.72	"	"	10700	-	23.5	890	1.45
17.5	1200	1.1	81.33	"	"	11300	-	21	1000	1.3
16	1310	0.99	90.24	"	"	11800	-	19	1100	1.2
14	1500	0.87	100.9	"	"	12300	-	17	1230	1.05
30.5	680	3.3	46.16	BF60-../D09XA4	124	9900	28000	36.5	570	3.9
26	800	2.9	54.44	"	"	10500	29700	31	670	3.4
23.5	890	2.6	60.40	"	"	11100	31400	28	750	3.1
19.5	1070	2.1	72.15	"	"	12000	34000	23.5	890	2.6
17.5	1200	1.9	80.05	"	"	12600	35600	21	1000	2.3
15	1400	1.65	93.44	"	"	13500	38200	18	1160	2.0
14	1500	1.55	103.7	"	"	14100	39900	16.5	1270	1.8
12.5	1680	1.35	113.1	"	"	14600	41300	15	1400	1.65
11.5	1820	1.25	125.5	"	"	15300	43300	13.5	1550	1.5
10	2100	1.1	140.8	BF60Z-../D09XA4	143	15300	43300	12	1750	1.3
8.3	2500	0.92	169.2	"	"	15300	43300	10	2100	1.1
7.5	2800	0.82	187.7	"	"	15300	43300	9.0	2300	1.0
11.5	1820	2.9	122.7	BF70-../D09XA4	210	16100	47700	14	1500	3.5
11	1910	2.7	133.0	BF70Z-../D09XA4	231	16100	47700	13	1610	3.2
9.1	2300	2.3	154.0	"	"	16100	47700	11	1910	2.7
7.8	2650	1.95	179.7	"	"	16100	47700	9.4	2200	2.4
7.1	2950	1.75	199.7	"	"	16100	47700	8.5	2450	2.1
6.1	3400	1.55	233.0	"	"	16100	47700	7.3	2850	1.8
5.5	3800	1.35	258.7	"	"	16100	47700	6.5	3200	1.65
4.7	4450	1.15	301.8	"	"	16100	47700	5.6	3750	1.4
4.1	5100	1.0	341.7	"	"	16100	47700	5.0	4200	1.25
3.6	5800	0.9	398.7	"	"	16100	47700	4.3	4850	1.05
3.2	6500	0.8	439.2	"	"	16100	47700	3.9	5300	0.98
6.7	3100	3.1	209.4	BF80-../D09XA4	307	34300	75000	8.1	2550	3.7
6.0	3500	2.7	237.1	"	"	36900	75000	7.1	2950	3.2
5.3	3950	2.4	269.1	"	"	39600	75000	6.3	3300	2.9
4.8	4350	2.4	291.7	BF80Z-../D09XA4	348	39600	75000	5.8	3600	2.9
4.1	5100	2.1	347.3	"	"	39600	75000	4.9	4250	2.5
3.6	5800	1.8	394.2	"	"	39600	75000	4.3	4850	2.2
3.2	6500	1.6	450.4	"	"	39600	75000	3.8	5500	1.9
2.8	7500	1.4	511.2	"	"	39600	75000	3.3	6300	1.65
2.4	8700	1.2	583.4	"	"	39600	75000	2.9	7200	1.45
2.2	9500	1.1	662.1	"	"	39600	75000	2.6	8000	1.3
1.9	11000	0.95	770.6	"	"	39600	75000	2.2	9500	1.1
1.7	12300	0.85	874.6	"	"	39600	75000	2.0	10500	1.0
3.7	5600	3.3	382.6	BF90Z-../D09XA4	612	42800	120000	4.4	4750	3.9
3.1	6700	2.8	456.7	"	"	42800	120000	3.7	5600	3.3
2.8	7500	2.5	508.5	"	"	42800	120000	3.4	6100	3.0
2.4	8700	2.1	591.1	"	"	42800	120000	2.9	7200	2.6
2.2	9500	1.95	658.1	"	"	42800	120000	2.6	8000	2.3
1.9	11000	1.7	759.0	"	"	42800	120000	2.3	9100	2.0
1.7	12300	1.5	845.1	"	"	42800	120000	2.0	10500	1.75
1.5	12400	1.5	976.1	BF90G50-../D09XA4	624	42800	120000	1.8	10000	1.85
1.4	13600	1.35	1043	"	"	42800	120000	1.7	10900	1.7
1.2	15800	1.15	1204	"	"	42800	120000	1.4	13300	1.4
1.0	19600	0.94	1444	"	"	42800	120000	1.2	16100	1.15

P = 3 kW



50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
225	127	2.1	6.34	BF30-../D11SA4	60	2400	-	270	106	2.5
176	162	1.75	8.07	"	"	2650	-	215	133	2.2
143	200	1.6	9.99	"	"	2850	-	172	166	1.95
110	260	1.4	12.91	"	"	3050	-	133	215	1.7
89	320	1.3	16.00	"	"	3250	-	107	265	1.55
81	350	1.35	17.65	"	"	3300	-	97	295	1.6
74	385	1.3	19.41	"	"	3400	-	89	320	1.55
65	440	1.2	21.85	"	"	3500	-	79	360	1.45
60	475	1.15	24.03	"	"	3600	-	72	395	1.4
51	560	1.05	28.23	"	"	3800	-	61	465	1.25
46	620	0.93	31.05	"	"	4000	-	56	510	1.15
41	690	0.83	35.00	"	"	4200	-	49	580	0.99
245	116	2.9	5.87	BF40-../D11SA4	74	3550	-	295	97	3.5
187	153	2.4	7.62	"	"	3900	-	225	127	2.9
150	191	2.2	9.48	"	"	4150	-	181	158	2.6
121	235	2.0	11.79	"	"	4450	-	146	196	2.4
95	300	1.75	15.02	"	"	4800	-	114	250	2.1
82	345	1.85	17.35	"	"	4950	-	99	285	2.2
75	380	1.75	19.09	"	"	5100	-	90	315	2.1
66	430	1.65	21.60	"	"	5200	-	80	355	2.0
60	475	1.55	23.77	"	"	5400	-	72	395	1.85
53	540	1.45	26.86	"	"	5600	-	64	445	1.75
48.5	590	1.35	29.55	"	"	5800	-	58	490	1.65
42	680	1.25	34.21	"	"	6000	-	50	570	1.5
38	750	1.2	37.64	"	"	6200	-	45.5	620	1.45
34.5	830	1.1	41.42	"	"	6500	-	41.5	690	1.3
31.5	900	1.0	45.56	"	"	6800	-	38	750	1.2
29.5	970	0.93	48.92	"	"	7000	-	35	810	1.1
26.5	1080	0.83	53.82	"	"	7200	-	32	890	1.0
133	215	3.1	10.68	BF50-../D11SA4	104	5600	-	161	177	3.8
97	295	2.7	14.65	"	"	6100	-	117	240	3.3
86	330	2.9	16.70	"	"	6200	-	103	275	3.5
77	370	2.7	18.68	"	"	6400	-	92	310	3.2
62	460	2.4	23.14	"	"	6800	-	74	385	2.9
55	520	2.2	25.88	"	"	7100	-	67	425	2.7
45	630	2.0	31.73	"	"	7500	-	54	530	2.4
40.5	700	1.85	35.49	"	"	7800	-	48.5	590	2.2
34	840	1.55	42.15	"	"	8500	-	41	690	1.9
30.5	930	1.4	47.14	"	"	8900	-	36.5	780	1.65
25	1140	1.15	56.86	"	"	9300	-	30.5	930	1.4
22.5	1270	1.0	63.59	"	"	9800	-	27	1060	1.25
20	1430	0.91	72.72	"	"	10700	-	24	1190	1.1
17.5	1630	0.8	81.33	"	"	11300	-	21.5	1330	0.98
46	620	3.1	31.20	BF60-../D11SA4	135	8800	24900	55	520	3.7
41.5	690	2.9	34.62	"	"	9100	25700	49.5	570	3.5
34.5	830	2.6	41.60	"	"	9600	27100	41.5	690	3.1
31	920	2.4	46.16	"	"	9900	28000	37.5	760	2.9
26.5	1080	2.1	54.44	"	"	10500	29700	31.5	900	2.6
24	1190	1.95	60.40	"	"	11100	31400	28.5	1000	2.3
20	1430	1.6	72.15	"	"	12000	34000	24	1190	1.95
18	1590	1.45	80.05	"	"	12600	35600	21.5	1330	1.75
15.5	1840	1.25	93.44	"	"	13500	38200	18.5	1540	1.5
14	2000	1.15	103.7	"	"	14100	39900	16.5	1730	1.35
13	2200	1.05	113.1	"	"	14600	41300	15.5	1840	1.25
11.5	2450	0.94	125.5	"	"	15300	43300	14	2000	1.15
10.5	2700	0.85	140.8	BF60Z-../D11SA4	151	15300	43300	12.5	2250	1.0
17.5	1630	3.2	81.82	BF70-../D11SA4	214	12800	41300	21	1360	3.8
15	1910	2.7	95.46	"	"	14000	43700	18	1590	3.3
13.5	2100	2.5	105.2	"	"	14700	45100	16.5	1730	3.0

P = 3 kW

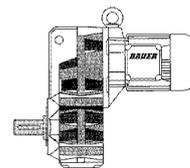


50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
12	2350	2.2	122.7	BF70-../D11SA4	"	16100	47700	14	2000	2.6
11	2600	2.0	133.0	BF70Z-../D11SA4	241	16100	47700	13	2200	2.4
9.3	3050	1.7	154.0	"	"	16100	47700	11.5	2450	2.1
8.0	3550	1.45	179.7	"	"	16100	47700	9.6	2950	1.75
7.2	3950	1.3	199.7	"	"	16100	47700	8.6	3300	1.6
6.1	4650	1.1	233.0	"	"	16100	47700	7.4	3850	1.35
5.5	5200	1.0	258.7	"	"	16100	47700	6.7	4250	1.2
4.8	5900	0.88	301.8	"	"	16100	47700	5.7	5000	1.05
9.0	3150	3.0	158.5	BF80-../D11SA4	310	29000	75000	11	2600	3.7
7.7	3700	2.6	184.5	"	"	31800	75000	9.3	3050	3.1
6.8	4200	2.3	209.4	"	"	34300	75000	8.2	3450	2.8
6.0	4750	2.0	237.1	"	"	36900	75000	7.3	3900	2.4
5.3	5400	1.75	269.1	"	"	39600	75000	6.4	4450	2.1
4.9	5800	1.8	291.7	BF80Z-../D11SA4	357	39600	75000	5.9	4850	2.2
4.1	6900	1.5	347.3	"	"	39600	75000	5.0	5700	1.85
3.7	7700	1.35	394.2	"	"	39600	75000	4.4	6500	1.6
3.2	8900	1.2	450.4	"	"	39600	75000	3.8	7500	1.4
2.8	10200	1.05	511.2	"	"	39600	75000	3.4	8400	1.25
2.5	11400	0.92	583.4	"	"	39600	75000	3.0	9500	1.1
2.2	13000	0.81	662.1	"	"	39600	75000	2.6	11000	0.95
5.5	5200	3.2	259.0	BF90-../D11SA4	563	42800	120000	6.7	4250	4.0
4.8	5900	3.1	300.4	BF90Z-../D11SA4	623	42800	120000	5.7	5000	3.7
4.2	6800	2.7	343.6	"	"	42800	120000	5.0	5700	3.2
3.8	7500	2.5	382.6	"	"	42800	120000	4.5	6300	2.9
3.2	8900	2.1	456.7	"	"	42800	120000	3.8	7500	2.5
2.8	10200	1.8	508.5	"	"	42800	120000	3.4	8400	2.2
2.5	11400	1.6	591.1	"	"	42800	120000	2.9	9800	1.9
2.2	13000	1.4	658.1	"	"	42800	120000	2.6	11000	1.7
1.9	15000	1.25	759.0	"	"	42800	120000	2.3	12400	1.5
1.7	16800	1.1	845.1	"	"	42800	120000	2.1	13600	1.35
1.5	17500	1.05	976.1	BF90G50-../D11SA4	633	42800	120000	1.8	14300	1.3
1.4	19000	0.97	1043	"	"	42800	120000	1.7	15400	1.2
1.2	22200	0.83	1204	"	"	42800	120000	1.5	17400	1.05

P = 4 kW

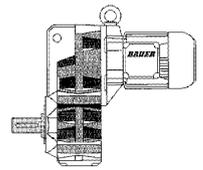
50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
225	169	1.55	6.34	BF30-../D11MA4	66	2400	-	270	141	1.85
176	215	1.35	8.07	"	"	2650	-	215	177	1.6
143	265	1.2	9.99	"	"	2850	-	172	220	1.45
110	345	1.05	12.91	"	"	3050	-	133	285	1.3
89	425	0.96	16.00	"	"	3250	-	107	355	1.15
81	470	1.0	17.65	"	"	3300	-	97	390	1.25
74	510	0.98	19.41	"	"	3400	-	89	425	1.2
65	580	0.91	21.85	"	"	3500	-	79	480	1.1
60	630	0.88	24.03	"	"	3600	-	72	530	1.05
245	155	2.2	5.87	BF40-../D11MA4	80	3550	-	295	129	2.6
187	200	1.85	7.62	"	"	3900	-	225	169	2.2
150	250	1.65	9.48	"	"	4150	-	181	210	2.0
121	315	1.5	11.79	"	"	4450	-	146	260	1.8
95	400	1.3	15.02	"	"	4800	-	114	335	1.55
82	465	1.35	17.35	"	"	4950	-	99	385	1.65
75	500	1.35	19.09	"	"	5100	-	90	420	1.6
66	570	1.25	21.60	"	"	5200	-	80	475	1.5
60	630	1.15	23.77	"	"	5400	-	72	530	1.4
53	720	1.1	26.86	"	"	5600	-	64	590	1.3
48.5	780	1.05	29.55	"	"	5800	-	58	650	1.25

P = 4 kW



50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
42	900	0.95	34.21	BF40-../D11MA4	"	6000	-	50	760	1.15
38	1000	0.89	37.64	"	"	6200	-	45.5	830	1.1
34.5	1100	0.82	41.42	"	"	6500	-	41.5	920	0.98
185	205	2.8	7.71	BF50-../D11MA4	110	5100	-	225	169	3.3
133	285	2.4	10.68	"	"	5600	-	161	235	2.9
97	390	2.0	14.65	"	"	6100	-	117	325	2.4
86	440	2.2	16.70	"	"	6200	-	103	370	2.6
77	495	2.0	18.68	"	"	6400	-	92	415	2.4
62	610	1.8	23.14	"	"	6800	-	74	510	2.2
55	690	1.7	25.88	"	"	7100	-	67	570	2.0
45	840	1.5	31.73	"	"	7500	-	54	700	1.8
40.5	940	1.4	35.49	"	"	7800	-	48.5	780	1.65
34	1120	1.15	42.15	"	"	8500	-	41	930	1.4
30.5	1250	1.05	47.14	"	"	8900	-	36.5	1040	1.25
25	1520	0.86	56.86	"	"	9300	-	30.5	1250	1.05
100	380	3.1	14.24	BF60-../D11MA4	141	7100	20000	121	315	3.8
84	450	3.2	16.96	"	"	7300	20600	101	375	3.9
76	500	3.0	18.81	"	"	7600	21500	91	415	3.7
63	600	2.8	22.58	"	"	8000	22600	76	500	3.3
57	670	2.6	25.05	"	"	8200	23200	69	550	3.2
46	830	2.3	31.20	"	"	8800	24900	55	690	2.8
41.5	920	2.2	34.62	"	"	9100	25700	49.5	770	2.6
34.5	1100	1.95	41.60	"	"	9600	27100	41.5	920	2.3
31	1230	1.8	46.16	"	"	9900	28000	37.5	1010	2.2
26.5	1440	1.6	54.44	"	"	10500	29700	31.5	1210	1.9
24	1590	1.45	60.40	"	"	11100	31400	28.5	1340	1.7
20	1910	1.2	72.15	"	"	12000	34000	24	1590	1.45
18	2100	1.1	80.05	"	"	12600	35600	21.5	1770	1.3
15.5	2450	0.94	93.44	"	"	13500	38200	18.5	2050	1.1
14	2700	0.85	103.7	"	"	14100	39900	16.5	2300	1.0
23	1660	3.1	61.94	BF70-../D11MA4	220	10800	37400	28	1360	3.8
20	1910	2.7	72.26	"	"	12000	39600	24	1590	3.3
17.5	2150	2.4	81.82	"	"	12800	41300	21	1810	2.9
15	2500	2.1	95.46	"	"	14000	43700	18	2100	2.5
13.5	2800	1.85	105.2	"	"	14700	45100	16.5	2300	2.3
12	3150	1.65	122.7	"	"	16100	47700	14	2700	1.95
11	3450	1.5	133.0	BF70Z-../D11MA4	247	16100	47700	13	2900	1.8
9.3	4100	1.25	154.0	"	"	16100	47700	11.5	3300	1.6
8.0	4750	1.1	179.7	"	"	16100	47700	9.6	3950	1.3
7.2	5300	0.98	199.7	"	"	16100	47700	8.6	4400	1.2
6.1	6200	0.84	233.0	"	"	16100	47700	7.4	5100	1.0
12	3150	3.0	122.4	BF80-../D11MA4	316	24500	75000	14	2700	3.5
10.5	3600	2.6	139.7	"	"	26700	75000	12.5	3050	3.1
9.0	4200	2.3	158.5	"	"	29000	75000	11	3450	2.8
7.7	4950	1.9	184.5	"	"	31800	75000	9.3	4100	2.3
6.8	5600	1.7	209.4	"	"	34300	75000	8.2	4650	2.0
6.0	6300	1.5	237.1	"	"	36900	75000	7.3	5200	1.85
5.3	7200	1.3	269.1	"	"	39600	75000	6.4	5900	1.6
4.9	7700	1.35	291.7	BF80Z-../D11MA4	363	39600	75000	5.9	6400	1.65
4.1	9300	1.15	347.3	"	"	39600	75000	5.0	7600	1.4
3.7	10300	1.0	394.2	"	"	39600	75000	4.4	8600	1.2
3.2	11900	0.88	450.4	"	"	39600	75000	3.8	10000	1.05
7.2	5300	3.2	198.8	BF90-../D11MA4	569	36000	111300	8.7	4350	3.9
6.2	6100	2.8	232.6	"	"	39900	118300	7.4	5100	3.3
5.5	6900	2.4	259.0	"	"	42800	120000	6.7	5700	2.9
5.3	7200	2.6	269.8	BF90Z-../D11MA4	629	42800	120000	6.4	5900	3.1
4.8	7900	2.3	300.4	"	"	42800	120000	5.7	6700	2.8
4.2	9000	2.1	343.6	"	"	42800	120000	5.0	7600	2.4

P = 4 kW

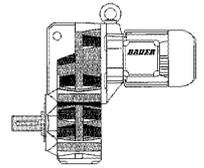


50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
3.8	10000	1.85	382.6	BF90Z-../D11MA4	kg	42800	120000	4.5	8400	2.2
3.2	11900	1.55	456.7	"	"	42800	120000	3.8	10000	1.85
2.8	13600	1.35	508.5	"	"	42800	120000	3.4	11200	1.65
2.5	15200	1.2	591.1	"	"	42800	120000	2.9	13100	1.4
2.2	17300	1.05	658.1	"	"	42800	120000	2.6	14600	1.25
1.9	20100	0.92	759.0	"	"	42800	120000	2.3	16600	1.1
1.7	22400	0.83	845.1	"	"	42800	120000	2.1	18100	1.0

P = 5.5 kW

50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
225	230	1.15	6.34	BF30-../D11LA4	78	2400	-	270	194	1.35
176	295	0.97	8.07	"	"	2650	-	215	240	1.2
143	365	0.88	9.99	"	"	2850	-	172	305	1.05
245	210	1.6	5.87	BF40-../D11LA4	92	3550	-	295	178	1.9
187	280	1.3	7.62	"	"	3900	-	225	230	1.6
150	350	1.2	9.48	"	"	4150	-	181	290	1.45
121	430	1.1	11.79	"	"	4450	-	146	355	1.3
95	550	0.95	15.02	"	"	4800	-	114	460	1.15
82	640	0.99	17.35	"	"	4950	-	99	530	1.2
75	700	0.95	19.09	"	"	5100	-	90	580	1.15
66	790	0.89	21.60	"	"	5200	-	80	650	1.1
60	870	0.85	23.77	"	"	5400	-	72	720	1.0
265	198	2.5	5.38	BF50-../D11LA4	122	4500	-	320	164	3.0
185	280	2.0	7.71	"	"	5100	-	225	230	2.5
133	390	1.75	10.68	"	"	5600	-	161	325	2.1
97	540	1.45	14.65	"	"	6100	-	117	445	1.8
86	610	1.55	16.70	"	"	6200	-	103	500	1.9
77	680	1.5	18.68	"	"	6400	-	92	570	1.75
62	840	1.3	23.14	"	"	6800	-	74	700	1.6
55	950	1.25	25.88	"	"	7100	-	67	780	1.5
45	1160	1.1	31.73	"	"	7500	-	54	970	1.3
40.5	1290	1.0	35.49	"	"	7800	-	48.5	1080	1.2
34	1540	0.84	42.15	"	"	8500	-	41	1280	1.0
184	285	3.0	7.74	BF60-../D11LA4	153	6000	16900	225	230	3.8
138	380	2.7	10.31	"	"	6500	18400	166	315	3.2
100	520	2.3	14.24	"	"	7100	20000	121	430	2.8
84	620	2.3	16.96	"	"	7300	20600	101	520	2.8
76	690	2.2	18.81	"	"	7600	21500	91	570	2.7
63	830	2.0	22.58	"	"	8000	22600	76	690	2.4
57	920	1.9	25.05	"	"	8200	23200	69	760	2.3
46	1140	1.65	31.20	"	"	8800	24900	55	950	2.0
41.5	1260	1.6	34.62	"	"	9100	25700	49.5	1060	1.85
34.5	1520	1.4	41.60	"	"	9600	27100	41.5	1260	1.7
31	1690	1.3	46.16	"	"	9900	28000	37.5	1400	1.6
26.5	1980	1.15	54.44	"	"	10500	29700	31.5	1660	1.4
24	2150	1.05	60.40	"	"	11100	31400	28.5	1840	1.25
20	2600	0.88	72.15	"	"	12000	34000	24	2150	1.05
33.5	1560	3.3	43.02	BF70-../D11LA4	232	8700	32800	40	1310	4.0
30	1750	3.0	47.82	"	"	9100	34000	36	1450	3.6
25.5	2050	2.5	55.79	"	"	10200	36000	31	1690	3.1
23	2250	2.3	61.94	"	"	10800	37400	28	1870	2.8
20	2600	2.0	72.26	"	"	12000	39600	24	2150	2.4
17.5	3000	1.75	81.82	"	"	12800	41300	21	2500	2.1
15	3500	1.5	95.46	"	"	14000	43700	18	2900	1.8
13.5	3850	1.35	105.2	"	"	14700	45100	16.5	3150	1.65
12	4350	1.2	122.7	"	"	16100	47700	14	3750	1.4

P = 5.5 kW

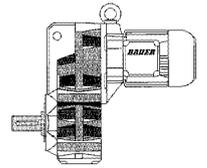


50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
11	4750	1.1	133.0	BF70Z-../D11LA4	258	16100	47700	13	4000	1.3
9.3	5600	0.93	154.0	"	"	16100	47700	11.5	4550	1.15
8.0	6500	0.8	179.7	"	"	16100	47700	9.6	5400	0.96
17.5	3000	3.2	83.16	BF80-../D11LA4	328	18400	65100	21	2500	3.8
15.5	3350	2.8	94.38	"	"	20300	68500	18.5	2800	3.4
13.5	3850	2.5	107.9	"	"	22400	72300	16	3250	2.9
12	4350	2.2	122.4	"	"	24500	75000	14	3750	2.5
10.5	5000	1.9	139.7	"	"	26700	75000	12.5	4200	2.3
9.0	5800	1.65	158.5	"	"	29000	75000	11	4750	2.0
7.7	6800	1.4	184.5	"	"	31800	75000	9.3	5600	1.7
6.8	7700	1.25	209.4	"	"	34300	75000	8.2	6400	1.5
6.0	8700	1.1	237.1	"	"	36900	75000	7.3	7100	1.35
5.3	9900	0.96	269.1	"	"	39600	75000	6.4	8200	1.15
4.9	10700	0.98	291.7	BF80Z-../D11LA4	375	39600	75000	5.9	8900	1.2
4.1	12800	0.82	347.3	"	"	39600	75000	5.0	10500	1.0
9.2	5700	2.9	154.8	BF90-../D11LA4	581	30100	100800	11.5	4550	3.7
8.0	6500	2.6	178.6	"	"	33400	106700	9.6	5400	3.1
7.2	7200	2.3	198.8	"	"	36000	111300	8.7	6000	2.8
6.2	8400	2.0	232.6	"	"	39900	118300	7.4	7000	2.4
5.5	9500	1.75	259.0	"	"	42800	120000	6.7	7800	2.2
5.3	9900	1.85	269.8	BF90Z-../D11LA4	641	42800	120000	6.4	8200	2.3
4.8	10900	1.7	300.4	"	"	42800	120000	5.7	9200	2.0
4.2	12500	1.5	343.6	"	"	42800	120000	5.0	10500	1.75
3.8	13800	1.35	382.6	"	"	42800	120000	4.5	11600	1.6
3.2	16400	1.15	456.7	"	"	42800	120000	3.8	13800	1.35
2.8	18700	0.99	508.5	"	"	42800	120000	3.4	15400	1.2
2.5	21000	0.88	591.1	"	"	42800	120000	2.9	18100	1.0

P = 7.5 kW

50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
265	270	1.85	5.38	BF50-../D13MA4	133	4500	-	320	220	2.3
185	385	1.45	7.71	"	"	5100	-	225	315	1.8
133	530	1.3	10.68	"	"	5600	-	161	440	1.55
97	730	1.1	14.65	"	"	6100	-	117	610	1.3
86	830	1.15	16.70	"	"	6200	-	103	690	1.4
77	930	1.1	18.68	"	"	6400	-	92	770	1.3
62	1150	0.96	23.14	"	"	6800	-	74	960	1.15
55	1300	0.9	25.88	"	"	7100	-	67	1060	1.1
45	1590	0.8	31.73	"	"	7500	-	54	1320	0.96
275	260	2.9	5.22	BF60-../D13MA4	166	5200	14800	330	215	3.5
184	385	2.3	7.74	"	"	6000	16900	225	315	2.8
138	510	2.0	10.31	"	"	6500	18400	166	430	2.4
100	710	1.7	14.24	"	"	7100	20000	121	590	2.0
84	850	1.7	16.96	"	"	7300	20600	101	700	2.1
76	940	1.6	18.81	"	"	7600	21500	91	780	1.95
63	1130	1.45	22.58	"	"	8000	22600	76	940	1.75
57	1250	1.4	25.05	"	"	8200	23200	69	1030	1.7
46	1550	1.25	31.20	"	"	8800	24900	55	1300	1.45
41.5	1720	1.15	34.62	"	"	9100	25700	49.5	1440	1.4
34.5	2050	1.05	41.60	"	"	9600	27100	41.5	1720	1.25
31	2300	0.97	46.16	"	"	9900	28000	37.5	1910	1.15
26.5	2700	0.85	54.44	"	"	10500	29700	31.5	2250	1.0
45	1590	3.3	31.84	BF70-../D13MA4	245	7700	30000	54	1320	3.9
39	1830	2.8	36.88	"	"	7900	31100	46.5	1540	3.4
33.5	2100	2.5	43.02	"	"	8700	32800	40	1790	2.9

P = 7.5 kW

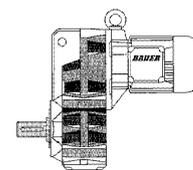


50 Hz			i	Type	m kg	F _{RN} N	F _{RV} N	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
30	2350	2.2	47.82	BF70-../D13MA4	"	9100	34000	36	1980	2.6
25.5	2800	1.85	55.79	"	"	10200	36000	31	2300	2.3
23	3100	1.7	61.94	"	"	10800	37400	28	2550	2.0
20	3550	1.45	72.26	"	"	12000	39600	24	2950	1.75
17.5	4050	1.3	81.82	"	"	12800	41300	21	3400	1.55
15	4750	1.1	95.46	"	"	14000	43700	18	3950	1.3
13.5	5300	0.98	105.2	"	"	14700	45100	16.5	4300	1.2
12	5900	0.88	122.7	"	"	16100	47700	14	5100	1.0
11	6500	0.8	133.0	BF70Z-../D13MA4	270	16100	47700	13	5500	0.95
26.5	2700	3.3	53.86	BF80-../D13MA4	341	14000	55800	32	2200	4.1
23.5	3000	3.1	61.55	"	"	14800	58100	28	2550	3.6
20.5	3450	2.8	69.86	"	"	15900	60600	24.5	2900	3.3
17.5	4050	2.3	83.16	"	"	18400	65100	21	3400	2.8
15.5	4600	2.1	94.38	"	"	20300	68500	18.5	3850	2.5
13.5	5300	1.8	107.9	"	"	22400	72300	16	4450	2.1
12	5900	1.6	122.4	"	"	24500	75000	14	5100	1.85
10.5	6800	1.4	139.7	"	"	26700	75000	12.5	5700	1.65
9.0	7900	1.2	158.5	"	"	29000	75000	11	6500	1.45
7.7	9300	1.0	184.5	"	"	31800	75000	9.3	7700	1.25
6.8	10500	0.9	209.4	"	"	34300	75000	8.2	8700	1.1
6.0	11900	0.8	237.1	"	"	36900	75000	7.3	9800	0.97
13.5	5300	3.2	107.5	BF90-../D13MA4	593	22300	86900	16	4450	3.8
12	5900	2.8	119.7	"	"	24500	90800	14.5	4900	3.4
10.5	6800	2.5	139.1	"	"	27700	96300	12.5	5700	2.9
9.2	7700	2.2	154.8	"	"	30100	100800	11.5	6200	2.7
8.0	8900	1.9	178.6	"	"	33400	106700	9.6	7400	2.3
7.2	9900	1.7	198.8	"	"	36000	111300	8.7	8200	2.0
6.2	11500	1.45	232.6	"	"	39900	118300	7.4	9600	1.75
5.5	13000	1.3	259.0	"	"	42800	120000	6.7	10600	1.6
5.3	13500	1.35	269.8	BF90Z-../D13MA4	654	42800	120000	6.4	11100	1.65
4.8	14900	1.25	300.4	"	"	42800	120000	5.7	12500	1.5
4.2	17000	1.1	343.6	"	"	42800	120000	5.0	14300	1.3
3.8	18800	0.98	382.6	"	"	42800	120000	4.5	15900	1.15
3.2	22300	0.83	456.7	"	"	42800	120000	3.8	18800	0.98

P = 9.5 kW

50 Hz			i	Type	m kg	F _{RN} N	F _{RV} N	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
265	340	1.45	5.38	BF50-../D13LA4	136	4500	-	320	280	1.8
185	490	1.15	7.71	"	"	5100	-	225	400	1.4
133	680	0.99	10.68	"	"	5600	-	161	560	1.2
97	930	0.85	14.65	"	"	6100	-	117	770	1.05
86	1050	0.9	16.70	"	"	6200	-	103	880	1.1
77	1170	0.86	18.68	"	"	6400	-	92	980	1.0
275	325	2.3	5.22	BF60-../D13LA4	169	5200	14800	330	270	2.8
184	490	1.75	7.74	"	"	6000	16900	225	400	2.2
138	650	1.55	10.31	"	"	6500	18400	166	540	1.9
100	900	1.3	14.24	"	"	7100	20000	121	740	1.6
84	1080	1.35	16.96	"	"	7300	20600	101	890	1.65
76	1190	1.3	18.81	"	"	7600	21500	91	990	1.55
63	1440	1.15	22.58	"	"	8000	22600	76	1190	1.4
57	1590	1.1	25.05	"	"	8200	23200	69	1310	1.3
46	1970	0.96	31.20	"	"	8800	24900	55	1640	1.15
41.5	2150	0.92	34.62	"	"	9100	25700	49.5	1830	1.1
34.5	2600	0.82	41.60	"	"	9600	27100	41.5	2150	0.99
58	1560	3.2	24.55	BF70-../D13LA4	248	7000	27700	70	1290	3.9
53	1710	3.0	27.29	"	"	7000	28400	63	1440	3.6

P = 9.5 kW

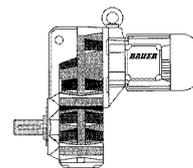


50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
45	2000	2.6	31.84	BF70-../D13LA4	"	7700	30000	54	1680	3.1
39	2300	2.3	36.88	"	"	7900	31100	46.5	1950	2.7
33.5	2700	1.95	43.02	"	"	8700	32800	40	2250	2.3
30	3000	1.75	47.82	"	"	9100	34000	36	2500	2.1
25.5	3550	1.45	55.79	"	"	10200	36000	31	2900	1.8
23	3900	1.35	61.94	"	"	10800	37400	28	3200	1.65
20	4500	1.15	72.26	"	"	12000	39600	24	3750	1.4
17.5	5100	1.0	81.82	"	"	12800	41300	21	4300	1.2
15	6000	0.87	95.46	"	"	14000	43700	18	5000	1.05
30	3000	2.9	47.46	BF80-../D13LA4	344	13400	53700	36.5	2450	3.5
26.5	3400	2.6	53.86	"	"	14000	55800	32	2800	3.2
23.5	3850	2.4	61.55	"	"	14800	58100	28	3200	2.9
20.5	4400	2.2	69.86	"	"	15900	60600	24.5	3700	2.6
17.5	5100	1.85	83.16	"	"	18400	65100	21	4300	2.2
15.5	5800	1.65	94.38	"	"	20300	68500	18.5	4900	1.95
13.5	6700	1.4	107.9	"	"	22400	72300	16	5600	1.7
12	7500	1.25	122.4	"	"	24500	75000	14	6400	1.5
10.5	8600	1.1	139.7	"	"	26700	75000	12.5	7200	1.3
9.0	10000	0.95	158.5	"	"	29000	75000	11	8200	1.15
7.7	11700	0.81	184.5	"	"	31800	75000	9.3	9700	0.98
18	5000	3.3	80.85	BF90-../D13LA4	596	17500	77500	21.5	4200	3.9
16	5600	3.0	90.02	"	"	18900	80600	19	4750	3.5
13.5	6700	2.5	107.5	"	"	22300	86900	16	5600	3.0
12	7500	2.2	119.7	"	"	24500	90800	14.5	6200	2.7
10.5	8600	1.95	139.1	"	"	27700	96300	12.5	7200	2.3
9.2	9800	1.7	154.8	"	"	30100	100800	11.5	7800	2.2
8.0	11300	1.5	178.6	"	"	33400	106700	9.6	9400	1.8
7.2	12600	1.35	198.8	"	"	36000	111300	8.7	10400	1.6
6.2	14600	1.15	232.6	"	"	39900	118300	7.4	12200	1.4
5.5	16400	1.0	259.0	"	"	42800	120000	6.7	13500	1.25
5.3	17100	1.1	269.8	BF90Z-../D13LA4	657	42800	120000	6.4	14100	1.3
4.8	18900	0.98	300.4	"	"	42800	120000	5.7	15900	1.15
4.2	21600	0.86	343.6	"	"	42800	120000	5.0	18100	1.0

P = 11 kW

50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
275	380	1.3	5.38	BF50-../D16MA4	181	4500	-	330	315	1.6
190	550	1.05	7.71	"	"	5100	-	230	455	1.25
137	760	0.89	10.68	"	"	5600	-	165	630	1.05
88	1190	0.8	16.70	"	"	6200	-	106	990	0.96
280	375	2.0	5.22	BF60-../D16MA4	214	5200	14800	340	305	2.5
189	550	1.6	7.74	"	"	6000	16900	230	455	1.9
142	730	1.4	10.31	"	"	6500	18400	171	610	1.65
103	1010	1.2	14.24	"	"	7100	20000	124	840	1.4
87	1200	1.2	16.96	"	"	7300	20600	104	1010	1.45
78	1340	1.15	18.81	"	"	7600	21500	94	1110	1.35
65	1610	1.05	22.58	"	"	8000	22600	78	1340	1.25
59	1780	0.97	25.05	"	"	8200	23200	71	1470	1.2
47	2200	0.86	31.20	"	"	8800	24900	57	1840	1.05
42.5	2450	0.81	34.62	"	"	9100	25700	51	2050	0.97
70	1500	3.1	21.04	BF70-../D16MA4	297	6400	26300	84	1250	3.7
60	1750	2.9	24.55	"	"	7000	27700	72	1450	3.5
54	1940	2.7	27.29	"	"	7000	28400	65	1610	3.2
46	2250	2.3	31.84	"	"	7700	30000	56	1870	2.8
40	2600	2.0	36.88	"	"	7900	31100	48	2150	2.4

P = 11 kW

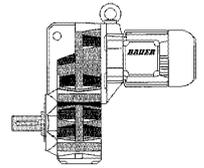


50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
34	3050	1.7	43.02	BF70-../D16MA4	"	8700	32800	41	2550	2.0
31	3350	1.55	47.82	"	"	9100	34000	37	2800	1.85
26.5	3950	1.3	55.79	"	"	10200	36000	32	3250	1.6
24	4350	1.2	61.94	"	"	10800	37400	28.5	3650	1.4
20.5	5100	1.0	72.26	"	"	12000	39600	24.5	4250	1.2
18	5800	0.9	81.82	"	"	12800	41300	22	4750	1.1
48.5	2150	3.3	30.21	BF80-../D16MA4	393	12300	47900	59	1780	4.0
43.5	2400	3.2	33.61	"	"	11700	48400	53	1980	3.9
38.5	2700	3.0	38.14	"	"	12200	50300	46.5	2250	3.6
31	3350	2.6	47.46	"	"	13400	53700	37.5	2800	3.1
27.5	3800	2.4	53.86	"	"	14000	55800	33	3150	2.8
24	4350	2.1	61.55	"	"	14800	58100	29	3600	2.6
21	5000	1.9	69.86	"	"	15900	60600	25.5	4100	2.3
18	5800	1.65	83.16	"	"	18400	65100	21.5	4850	1.95
15.5	6700	1.4	94.38	"	"	20300	68500	19	5500	1.75
14	7500	1.25	107.9	"	"	22400	72300	16.5	6300	1.5
12	8700	1.1	122.4	"	"	24500	75000	14.5	7200	1.3
10.5	10000	0.95	139.7	"	"	26700	75000	13	8000	1.2
9.3	11200	0.85	158.5	"	"	29000	75000	11.5	9100	1.05
21	5000	3.2	70.69	BF90-../D16MA4	640	16800	74700	25	4200	3.8
18.5	5600	3.0	80.85	"	"	17500	77500	22	4750	3.5
16.5	6300	2.7	90.02	"	"	18900	80600	20	5200	3.2
14	7500	2.2	107.5	"	"	22300	86900	16.5	6300	2.7
12.5	8400	2.0	119.7	"	"	24500	90800	15	7000	2.4
10.5	10000	1.7	139.1	"	"	27700	96300	13	8000	2.1
9.5	11000	1.55	154.8	"	"	30100	100800	11.5	9100	1.85
8.2	12800	1.3	178.6	"	"	33400	106700	9.9	10600	1.6
7.4	14100	1.2	198.8	"	"	36000	111300	8.9	11800	1.4
6.3	16600	1.0	232.6	"	"	39900	118300	7.6	13800	1.2
5.7	18400	0.91	259.0	"	"	42800	120000	6.8	15400	1.1
5.5	19100	0.97	269.8	BF90Z-../D16MA4	702	42800	120000	6.6	15900	1.15
4.9	21400	0.86	300.4	"	"	42800	120000	5.9	17800	1.05

P = 15 kW

50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
275	520	0.96	5.38	BF50-../D16LA4	194	4500	-	330	430	1.15
280	510	1.5	5.22	BF60-../D16LA4	227	5200	14800	340	420	1.8
189	750	1.15	7.74	"	"	6000	16900	230	620	1.4
142	1000	1.0	10.31	"	"	6500	18400	171	830	1.2
103	1390	0.86	14.24	"	"	7100	20000	124	1150	1.05
87	1640	0.88	16.96	"	"	7300	20600	104	1370	1.05
78	1830	0.83	18.81	"	"	7600	21500	94	1520	1.0
98	1460	2.5	14.90	BF70-../D16LA4	310	5900	24000	119	1200	3.0
84	1700	2.5	17.39	"	"	6200	25000	102	1400	3.0
70	2000	2.3	21.04	"	"	6400	26300	84	1700	2.7
60	2350	2.1	24.55	"	"	7000	27700	72	1980	2.5
54	2650	1.95	27.29	"	"	7000	28400	65	2200	2.4
46	3100	1.7	31.84	"	"	7700	30000	56	2550	2.0
40	3550	1.45	36.88	"	"	7900	31100	48	2950	1.75
34	4200	1.25	43.02	"	"	8700	32800	41	3450	1.5
31	4600	1.15	47.82	"	"	9100	34000	37	3850	1.35
26.5	5400	0.96	55.79	"	"	10200	36000	32	4450	1.15
24	5900	0.88	61.94	"	"	10800	37400	28.5	5000	1.05

P = 15 kW

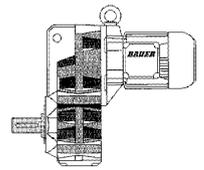


50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
89	1600	3.3	16.49	BF80-../D16LA4	406	11400	41400	107	1330	4.0
63	2250	2.8	23.29	"	"	11800	44900	76	1880	3.4
48.5	2950	2.4	30.21	"	"	12300	47900	59	2400	3.0
43.5	3250	2.4	33.61	"	"	11700	48400	53	2700	2.9
38.5	3700	2.2	38.14	"	"	12200	50300	46.5	3050	2.6
31	4600	1.85	47.46	"	"	13400	53700	37.5	3800	2.3
27.5	5200	1.7	53.86	"	"	14000	55800	33	4300	2.1
24	5900	1.6	61.55	"	"	14800	58100	29	4900	1.9
21	6800	1.4	69.86	"	"	15900	60600	25.5	5600	1.7
18	7900	1.2	83.16	"	"	18400	65100	21.5	6600	1.45
15.5	9200	1.05	94.38	"	"	20300	68500	19	7500	1.25
14	10200	0.93	107.9	"	"	22400	72300	16.5	8600	1.1
12	11900	0.8	122.4	"	"	24500	75000	14.5	9800	0.97
31.5	4500	3.1	46.43	BF90-../D16LA4	654	13800	65500	38	3750	3.8
28.5	5000	2.9	51.70	"	"	14600	67800	34.5	4150	3.5
23	6200	2.5	63.49	"	"	15800	72000	28	5100	3.0
21	6800	2.3	70.69	"	"	16800	74700	25	5700	2.8
18.5	7700	2.1	80.85	"	"	17500	77500	22	6500	2.5
16.5	8600	1.95	90.02	"	"	18900	80600	20	7100	2.4
14	10200	1.65	107.5	"	"	22300	86900	16.5	8600	1.95
12.5	11400	1.45	119.7	"	"	24500	90800	15	9500	1.75
10.5	13600	1.25	139.1	"	"	27700	96300	13	11000	1.55
9.5	15000	1.1	154.8	"	"	30100	100800	11.5	12400	1.35
8.2	17400	0.97	178.6	"	"	33400	106700	9.9	14400	1.15
7.4	19300	0.87	198.8	"	"	36000	111300	8.9	16000	1.05

P = 18.5 kW

50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
280	630	1.2	5.22	BF60-../D16XA4	237	5200	14800	340	510	1.5
189	930	0.93	7.74	"	"	6000	16900	230	760	1.15
142	1240	0.82	10.31	"	"	6500	18400	171	1030	0.98
98	1800	2.0	14.90	BF70-../D16XA4	320	5900	24000	119	1480	2.5
84	2100	2.0	17.39	"	"	6200	25000	102	1730	2.5
70	2500	1.85	21.04	"	"	6400	26300	84	2100	2.2
60	2900	1.75	24.55	"	"	7000	27700	72	2450	2.1
54	3250	1.6	27.29	"	"	7000	28400	65	2700	1.95
46	3800	1.35	31.84	"	"	7700	30000	56	3150	1.65
40	4400	1.2	36.88	"	"	7900	31100	48	3650	1.4
34	5100	1.0	43.02	"	"	8700	32800	41	4300	1.2
31	5600	0.93	47.82	"	"	9100	34000	37	4750	1.1
89	1980	2.7	16.49	BF80-../D16XA4	416	11400	41400	107	1650	3.2
63	2800	2.3	23.29	"	"	11800	44900	76	2300	2.7
48.5	3600	2.0	30.21	"	"	12300	47900	59	2950	2.4
43.5	4050	1.9	33.61	"	"	11700	48400	53	3300	2.4
38.5	4550	1.75	38.14	"	"	12200	50300	46.5	3750	2.2
31	5600	1.55	47.46	"	"	13400	53700	37.5	4700	1.85
27.5	6400	1.4	53.86	"	"	14000	55800	33	5300	1.7
24	7300	1.25	61.55	"	"	14800	58100	29	6000	1.55
21	8400	1.15	69.86	"	"	15900	60600	25.5	6900	1.4
18	9800	0.97	83.16	"	"	18400	65100	21.5	8200	1.15
15.5	11300	0.84	94.38	"	"	20300	68500	19	9200	1.05
31.5	5600	2.5	46.43	BF90-../D16XA4	664	13800	65500	38	4600	3.1
28.5	6100	2.4	51.70	"	"	14600	67800	34.5	5100	2.8
23	7600	2.0	63.49	"	"	15800	72000	28	6300	2.4
21	8400	1.9	70.69	"	"	16800	74700	25	7000	2.3

P = 18.5 kW

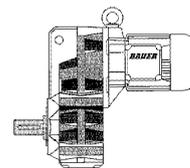


50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
18.5	9500	1.75	80.85	BF90-../D16XA4	"	17500	77500	22	8000	2.1
16.5	10700	1.55	90.02	"	"	18900	80600	20	8800	1.9
14	12600	1.35	107.5	"	"	22300	86900	16.5	10700	1.55
12.5	14100	1.2	119.7	"	"	24500	90800	15	11700	1.45
10.5	16800	1.0	139.1	"	"	27700	96300	13	13500	1.25
9.5	18500	0.91	154.8	"	"	30100	100800	11.5	15300	1.1

P = 22 kW

50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
142	1470	1.7	10.32	BF70-../D18LA4	377	4600	18700	171	1220	2.1
122	1720	1.7	12.04	"	"	4900	19700	147	1420	2.1
98	2100	1.75	14.90	"	"	5900	24000	119	1760	2.1
84	2500	1.7	17.39	"	"	6200	25000	102	2050	2.1
70	3000	1.55	21.04	"	"	6400	26300	84	2500	1.85
60	3500	1.45	24.55	"	"	7000	27700	72	2900	1.75
54	3850	1.35	27.29	"	"	7000	28400	65	3200	1.65
46	4550	1.15	31.84	"	"	7700	30000	56	3750	1.4
40	5200	1.0	36.88	"	"	7900	31100	48	4350	1.2
34	6100	0.85	43.02	"	"	8700	32800	41	5100	1.0
128	1640	2.2	11.42	BF80-../D18LA4	473	8900	32200	155	1350	2.7
89	2350	2.3	16.49	"	"	11400	41400	107	1960	2.7
63	3300	1.9	23.29	"	"	11800	44900	76	2750	2.3
48.5	4300	1.65	30.21	"	"	12300	47900	59	3550	2.0
43.5	4800	1.6	33.61	"	"	11700	48400	53	3950	1.95
38.5	5400	1.5	38.14	"	"	12200	50300	46.5	4500	1.8
31	6700	1.3	47.46	"	"	13400	53700	37.5	5600	1.55
27.5	7600	1.2	53.86	"	"	14000	55800	33	6300	1.4
24	8700	1.05	61.55	"	"	14800	58100	29	7200	1.3
21	10000	0.95	69.86	"	"	15900	60600	25.5	8200	1.15
18	11600	0.82	83.16	"	"	18400	65100	21.5	9700	0.98
61	3400	3.3	23.95	BF90-../D18LA4	725	11100	54300	74	2800	4.0
43.5	4800	2.7	33.71	"	"	11900	59300	53	3950	3.3
39	5300	2.5	37.54	"	"	12700	61500	47	4450	3.0
31.5	6600	2.1	46.43	"	"	13800	65500	38	5500	2.6
28.5	7300	2.0	51.70	"	"	14600	67800	34.5	6000	2.4
23	9100	1.7	63.49	"	"	15800	72000	28	7500	2.1
21	10000	1.6	70.69	"	"	16800	74700	25	8400	1.9
18.5	11300	1.45	80.85	"	"	17500	77500	22	9500	1.75
16.5	12700	1.3	90.02	"	"	18900	80600	20	10500	1.6
14	15000	1.1	107.5	"	"	22300	86900	16.5	12700	1.3
12.5	16800	1.0	119.7	"	"	24500	90800	15	14000	1.2
10.5	20000	0.84	139.1	"	"	27700	96300	13	16100	1.05

P = 30 kW

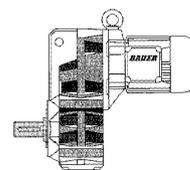


50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
142	2000	1.25	10.32	BF70-../D18XA4	395	4600	18700	171	1670	1.5
122	2300	1.3	12.04	"	"	4900	19700	147	1940	1.5
98	2900	1.25	14.90	"	"	5900	24000	119	2400	1.5
84	3400	1.25	17.39	"	"	6200	25000	102	2800	1.5
70	4050	1.15	21.04	"	"	6400	26300	84	3400	1.35
60	4750	1.05	24.55	"	"	7000	27700	72	3950	1.25
54	5300	0.98	27.29	"	"	7000	28400	65	4400	1.2
46	6200	0.84	31.84	"	"	7700	30000	56	5100	1.0
128	2200	1.65	11.42	BF80-../D18XA4	491	8900	32200	155	1840	2.0
89	3200	1.65	16.49	"	"	11400	41400	107	2650	2.0
63	4500	1.4	23.29	"	"	11800	44900	76	3750	1.7
48.5	5900	1.2	30.21	"	"	12300	47900	59	4850	1.45
43.5	6500	1.2	33.61	"	"	11700	48400	53	5400	1.45
38.5	7400	1.1	38.14	"	"	12200	50300	46.5	6100	1.3
31	9200	0.94	47.46	"	"	13400	53700	37.5	7600	1.15
27.5	10400	0.86	53.86	"	"	14000	55800	33	8600	1.05
118	2400	3.0	12.45	BF90-../D18XA4	743	8000	39700	142	2000	3.6
84	3400	3.0	17.39	"	"	10000	49500	102	2800	3.6
61	4650	2.4	23.95	"	"	11100	54300	74	3850	2.9
43.5	6500	2.0	33.71	"	"	11900	59300	53	5400	2.4
39	7300	1.8	37.54	"	"	12700	61500	47	6000	2.2
31.5	9000	1.55	46.43	"	"	13800	65500	38	7500	1.9
28.5	10000	1.45	51.70	"	"	14600	67800	34.5	8300	1.75
23	12400	1.25	63.49	"	"	15800	72000	28	10200	1.5
21	13600	1.15	70.69	"	"	16800	74700	25	11400	1.4
18.5	15400	1.05	80.85	"	"	17500	77500	22	13000	1.25
16.5	17300	0.97	90.02	"	"	18900	80600	20	14300	1.15
14	20400	0.82	107.5	"	"	22300	86900	16.5	17300	0.97

P = 37 kW

50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
142	2450	1.05	10.32	BF70-...-K/DNF22SB4	604	4600	18700	171	2050	1.25
122	2850	1.05	12.04	"	"	4900	19700	147	2400	1.25
98	3600	1.0	14.90	"	"	5900	24000	119	2950	1.25
84	4200	1.0	17.39	"	"	6200	25000	102	3450	1.25
128	2750	1.35	11.42	BF80-...-K/DNF22SB4	700	8900	32200	155	2250	1.65
89	3950	1.35	16.49	"	"	11400	41400	107	3300	1.6
63	5600	1.15	23.29	"	"	11800	44900	76	4600	1.35
118	2950	2.4	12.45	BF90-...-K/DNF22SB4	958	8000	39700	142	2450	2.9
84	4200	2.4	17.39	"	"	10000	49500	102	3450	2.9
61	5700	1.95	23.95	"	"	11100	54300	74	4750	2.4
43.5	8100	1.6	33.71	"	"	11900	59300	53	6600	1.95
39	9000	1.45	37.54	"	"	12700	61500	47	7500	1.75
31.5	11200	1.25	46.43	"	"	13800	65500	38	9200	1.55
28.5	12300	1.15	51.70	"	"	14600	67800	34.5	10200	1.4
23	15300	1.0	63.49	"	"	15800	72000	28	12600	1.2

P = 45 kW



50 Hz			i	Type	m	F _{RN}	F _{RV}	60 Hz		
n ₂ 1/min	M ₂ Nm	f _B						n ₂ 1/min	M ₂ Nm	f _B
128	3350	1.1	11.42	BF80-...-K/DNF22MB4	730	8900	32200	155	2750	1.35
89	4800	1.1	16.49	"	"	11400	41400	107	4000	1.35
118	3600	2.0	12.45	BF90-...-K/DNF22MB4	988	8000	39700	142	3000	2.4
84	5100	2.0	17.39	"	"	10000	49500	102	4200	2.4
61	7000	1.6	23.95	"	"	11100	54300	74	5800	1.95
43.5	9800	1.3	33.71	"	"	11900	59300	53	8100	1.6
39	11000	1.2	37.54	"	"	12700	61500	47	9100	1.45
31.5	13600	1.05	46.43	"	"	13800	65500	38	11300	1.25

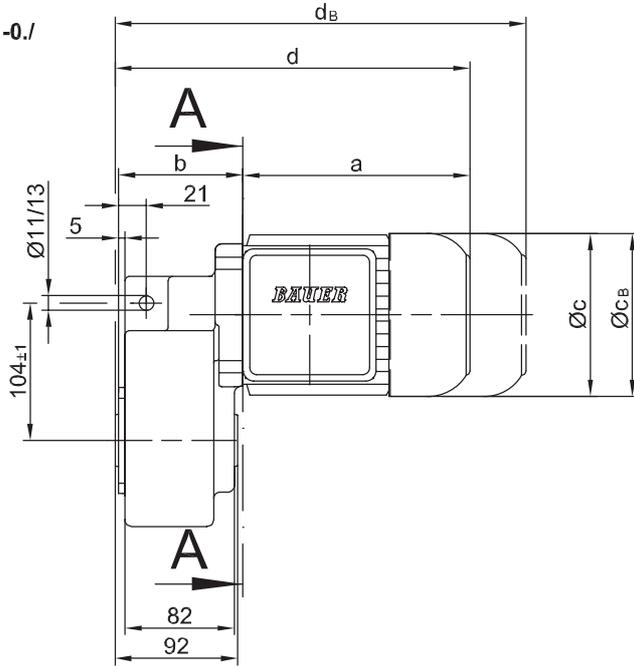
11.3 Dimensional drawings, shaft-mounted geared motors

Three-phase Shaft Mounted Geared Motors
Drehstrom-Flach-Getriebemotoren
Motoréducteurs triphasés plaats

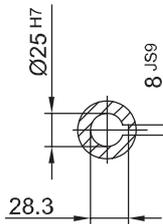
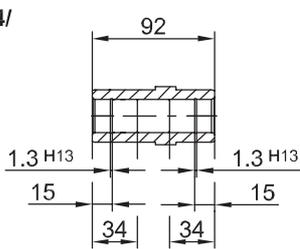
BF06

mit Drehmomentstütze/ with torque arm/ avec bras de réaction

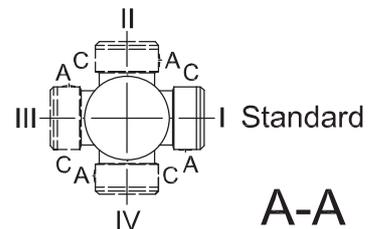
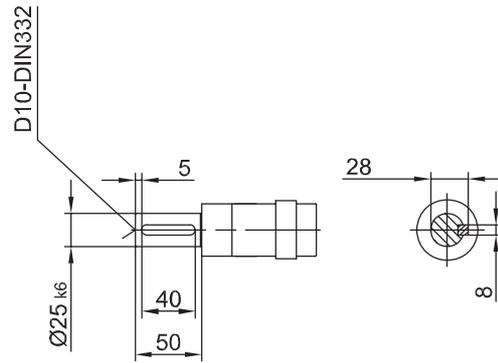
Code -0./



Code -4/



Code -1/



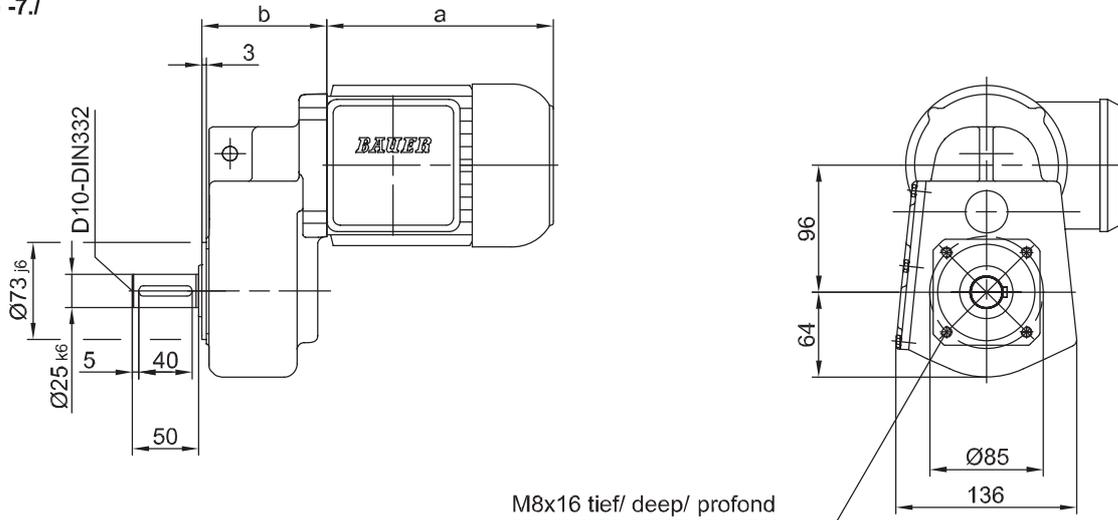
Typ/ Type/ Type	a	b	c	d	i	Ausführung mit Bremse/ with brake/ avec frein							
						i _B	E003		E004		E008		
							c _B	d _B	c _B	d _B	c _B	d _B	
BF06-../D05..	170	93.5	123	267.5	100	100	123	310					
BF06-../D06..	170	93.5	123	267.5	100	100	123	310					
BF06-../D07..	190	94.5	123	287.5	100	100	123	330	123	330			
BF06-../D08..	200	141	156	344	115	115					166	424	

Three-phase Shaft Mounted Geared Motors
 Drehstrom-Flach-Getriebemotoren
 Motorréducteurs triphasés plaats

BF06

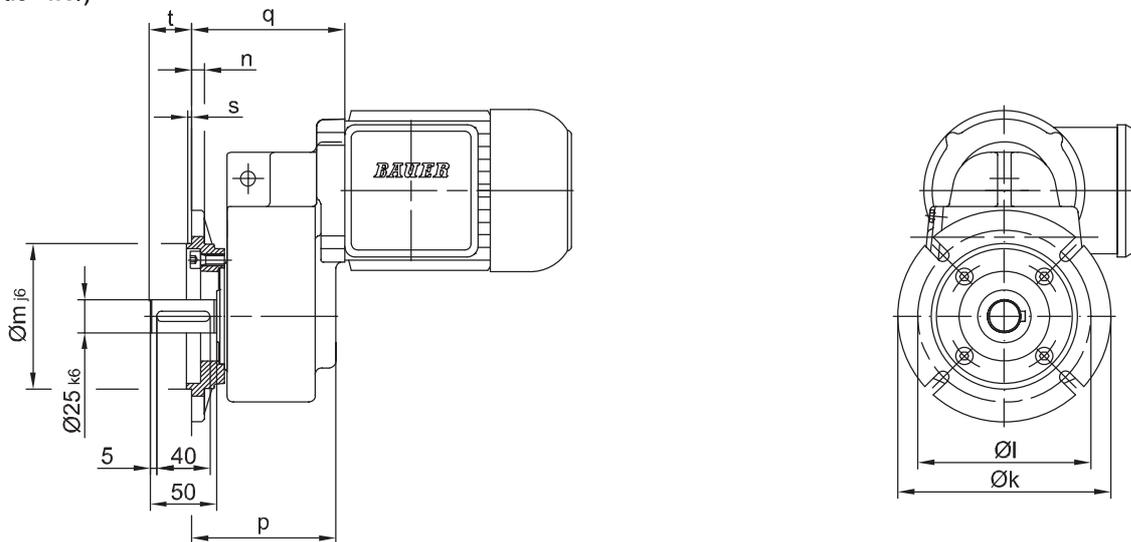
Flansch mit Gewindelöchern/ flange with tapped holes/ bride avec trous taraudés

Code -7./



Flansch mit Durchgangslöchern/ flange with clearance holes/ bride avec trous débouchants

Code -3.V/
 (Code -4.V/)



Flanschmasse/ Flange dimensions/ cotes de la bride

BF06	k	l	m	n	o	p	q ₁₎	q ₂₎	s	t
Standard/ -3./	140	115	95	10	9	108.5	115	163	3	31.5
gross/ big/ grande -4./	160	130	110	10	9	108.5	115	163	3.5	31.5

1) nur bei Motorgrößen D05; D06; D07/ only for motor sizes D05; D06; D07/ seulement pour taille moteur D05, D06; D07

2) nur bei Motorgröße D08/ only at motor size D08/ seulement pour taille moteur D08

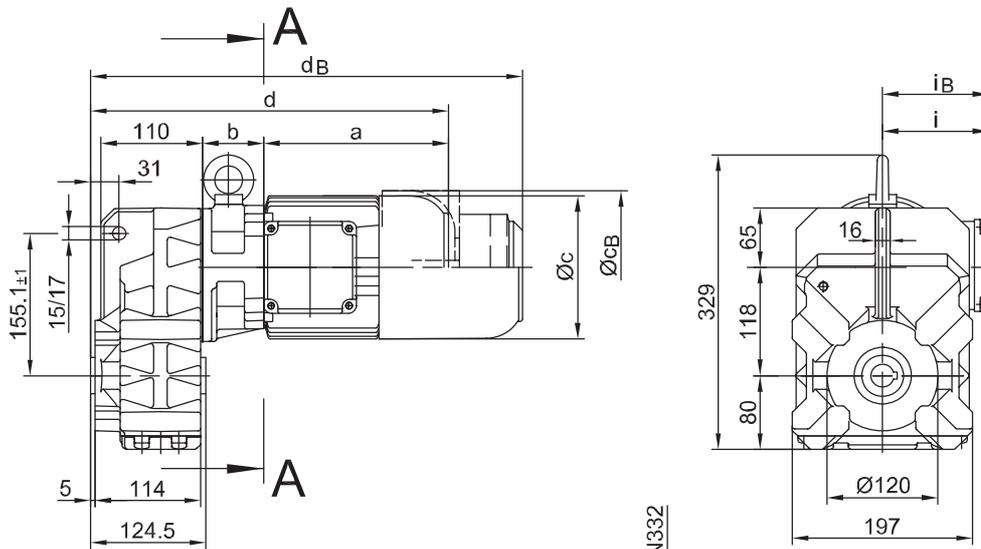
Series BF

Three-phase Shaft Mounted Geared Motors
 Drehstrom-Flach-Getriebemotoren
 Motoréducteurs triphasés plaats

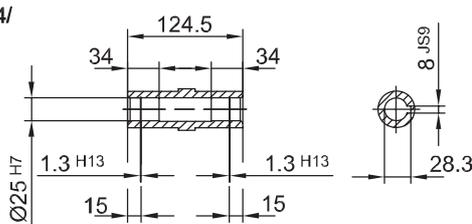
BF10 - BF10Z

mit Drehmomentstütze/ with torque arm/ avec bras de réaction

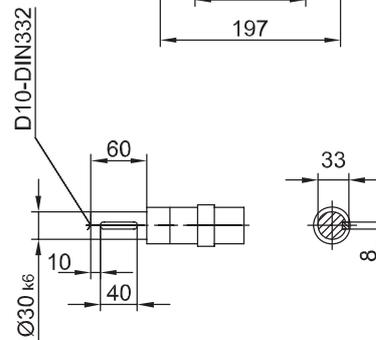
Code -0/



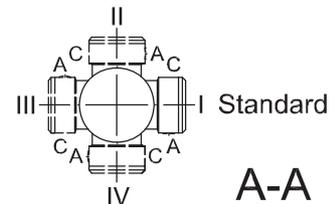
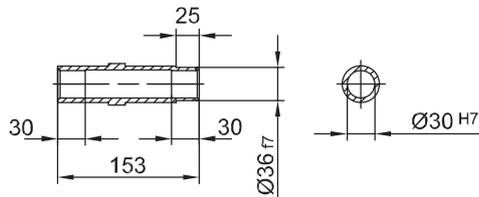
Code -4/



Code -1/



Code -5/



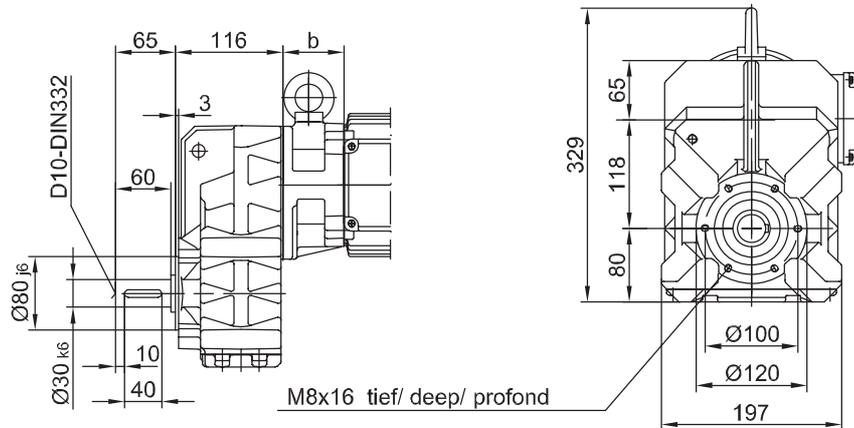
Typ/ Type/ Type	a	b	c	d	i	Ausführung mit Bremse/ with brake/ avec frein											
						i_B	E003		E004		E008		Z008		Z015		
							c_B	d_B									
BF10Z-../D04..	143	86	111	350	90	90	111	393									
BF10-../D05..	170	62	123	354	100	100	123	396									
BF10Z-../D05..	170	88	123	380	100	100	123	422									
BF10-../D06..	170	62	123	354	100	100	123	396									
BF10Z-../D06..	170	88	123	380	100	100	123	422									
BF10-../D07..	190	62	123	374	100	100	123	416	123	416							
BF10Z-../D07..	190	88	123	400	100	100	123	442	123	442							
BF10-../D08..	200	66	156	387	115	115					166	462					
BF10Z-../D08..	200	132	156	448	115	115					166	528					
BF10-../D09..	251	80.5	181	453	124	124					192	532	192	546	192	552	

Three-phase Shaft Mounted Geared Motors
 Drehstrom-Flach-Getriebemotoren
 Motoréducteurs triphasés plaats

BF10 - BF10Z

Flansch mit Gewindelöchern/ flange with tapped holes/ bride avec trous taraudés

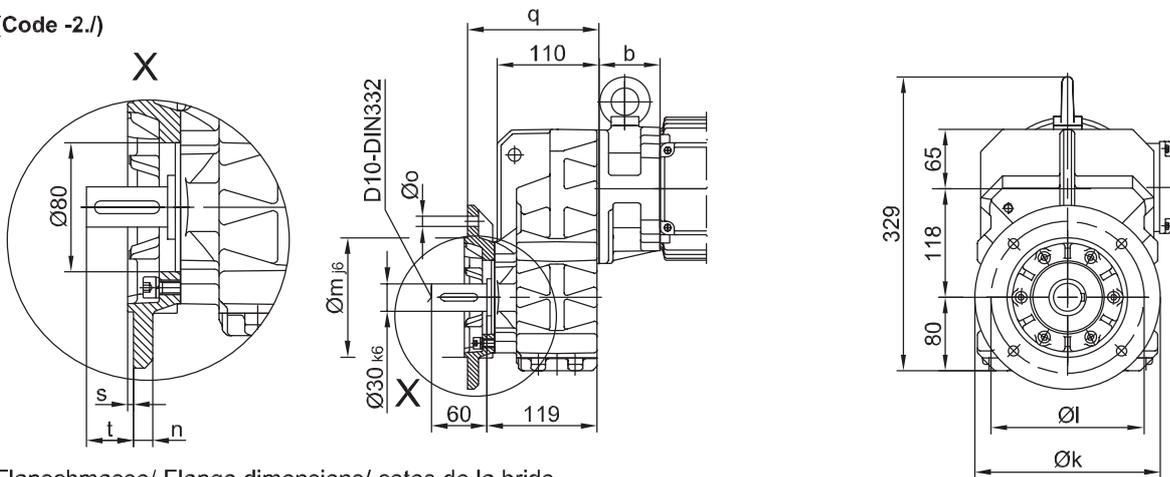
Code -7./



Flansch mit Durchgangslöchern/ flange with clearance holes/ bride avec trous débouchants

Code -3./

(Code -2./)

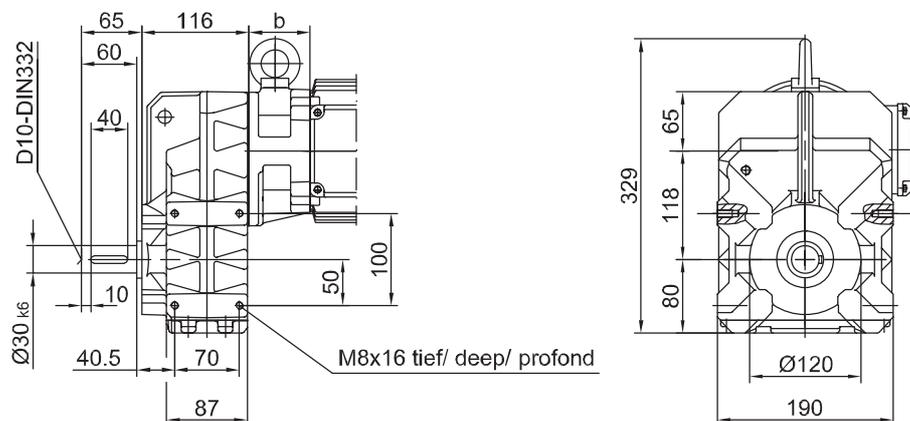


Flanschmasse/ Flange dimensions/ cotes de la bride

BF10(Z)	k	l	m	n	o	q	s	t
Standard/ -3./	200	165	130	12	11	142	3.5	39
klein/ small/ petit -2./	160	130	110	10	9	135	3.5	46

Fuss mit Gewindelöchern links und rechts/ foot with tapped holes left and right/
 fixation à pied avec trous taraudés à gauche et à droite

Code -6.LR/



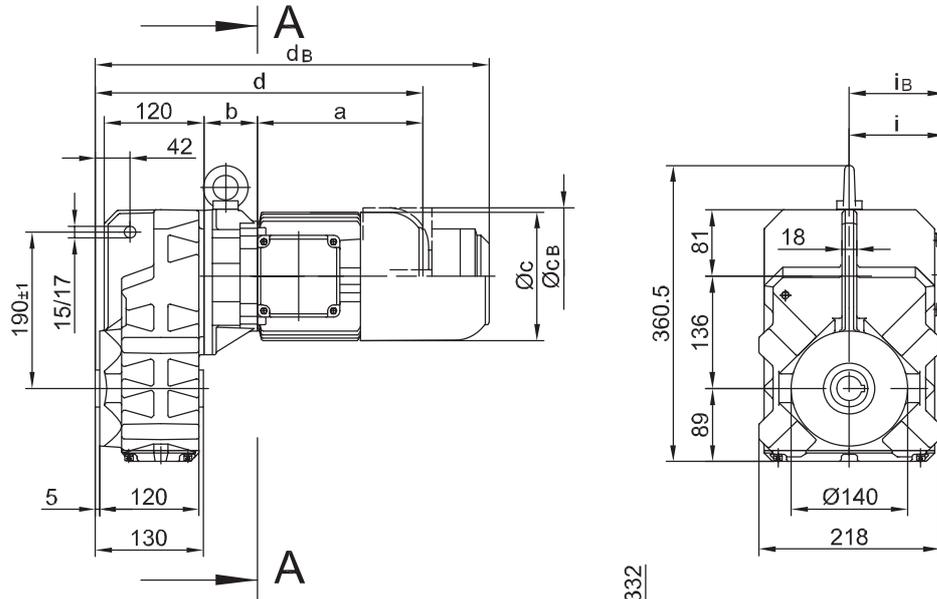
Series BF

Three-phase Shaft Mounted Geared Motors
 Drehstrom-Flach-Getriebemotoren
 Motoréducteurs triphasés plaats

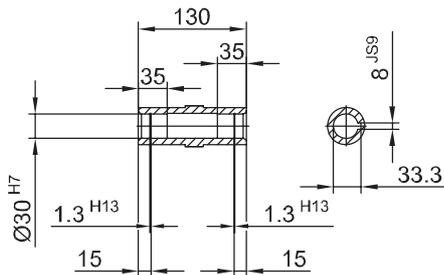
BF20 - BF20Z

mit Drehmomentstütze/ with torque arm/ avec bras de réaction

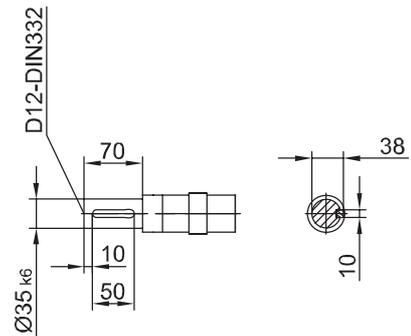
Code -0./



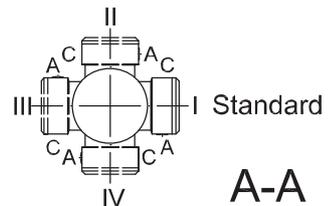
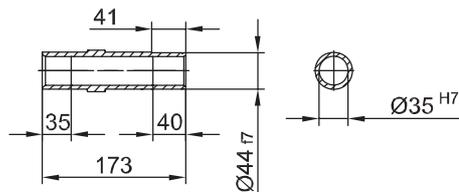
Code -4/



Code -1/



Code -5/



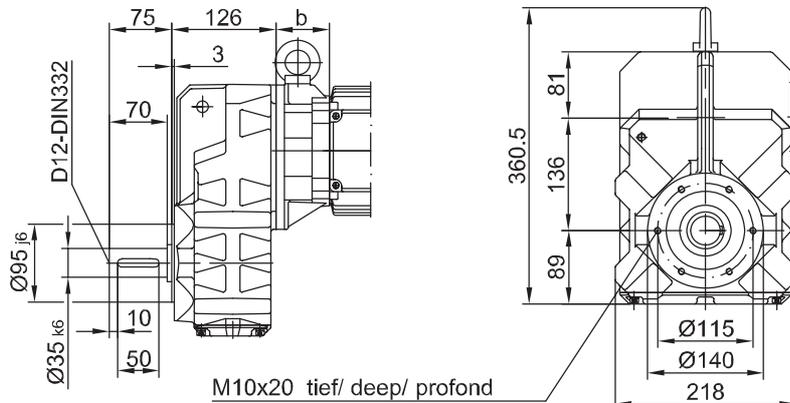
Typ/ Type/ Type	a	b	c	d	i	Ausführung mit Bremse/ with brake/ avec frein												
						i _B	E003		E004		E008		Z008		Z015			
							c _B	d _B										
BF20Z-../D04..	143	100	111	374	90	90	111	417										
BF20-../D05..	170	60	123	362	100	100	123	404										
BF20Z-../D05..	170	102	123	404	100	100	123	446										
BF20-../D06..	170	60	123	362	100	100	123	404										
BF20Z-../D06..	170	102	123	404	100	100	123	446										
BF20-../D07..	190	60	123	382	100	100	123	424	123	424								
BF20Z-../D07..	190	102	123	424	100	100	123	466	123	466								
BF20-../D08..	200	64	156	395	115	115					166	470						
BF20Z-../D08..	200	146	156	477	115	115					166	552						
BF20-../D09..	251	78.5	181	460	124	124					192	540	192	554	192	560		

Three-phase Shaft Mounted Geared Motors
 Drehstrom-Flach-Getriebemotoren
 Motoréducteurs triphasés plaats

BF20 - BF20Z

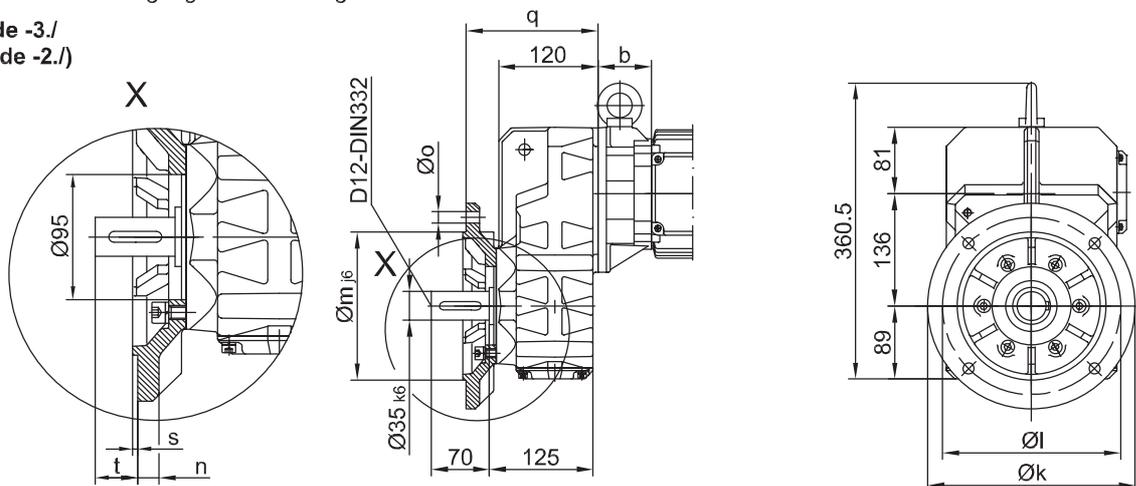
Flansch mit Gewindelöchern/ flange with tapped holes/ bride avec trous taraudés

Code -7./



Flansch mit Durchgangslöchern/ flange with clearance holes/ bride avec trous débouchants

Code -3./
 (Code -2./)

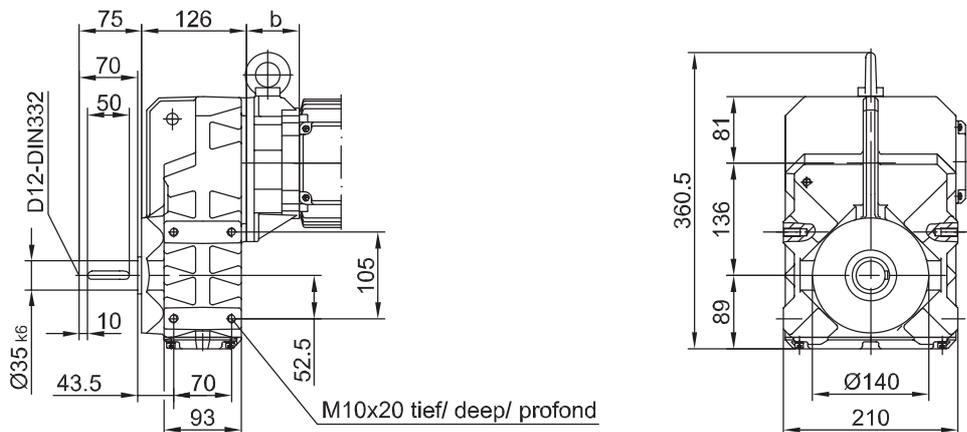


Flanschmasse/ Flange dimensions/ cotes de la bride

BF20(Z)	k	l	m	n	o	q	s	t
Standard/ -3./	250	215	180	16	13.5	159	4	42
Klein/ small/ petit-2./	200	165	130	12	11	150	3.5	51

Fuss mit Gewindelöchern links und rechts/ foot with tapped holes left and right/
 fixation à pied avec trous taraudés à gauche et à droite

Code -6.LR/

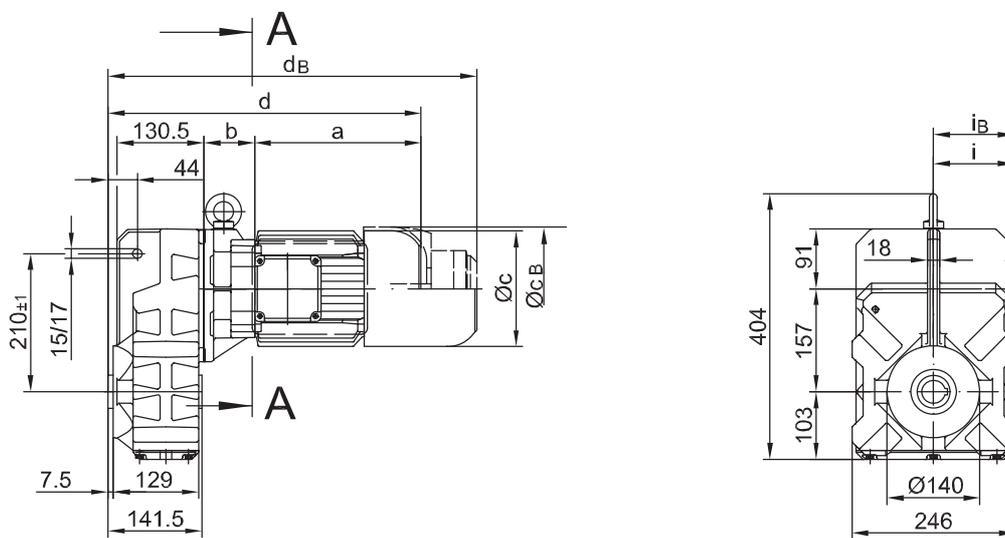


Three-phase Shaft Mounted Geared Motors
 Drehstrom-Flach-Getriebemotoren
 Motoréducteurs triphasés plaats

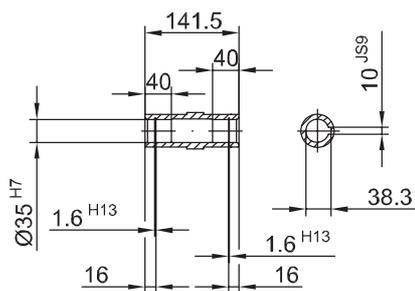
BF30 - BF30Z

mit Drehmomentstütze/ with torque arm/ avec bras de réaction

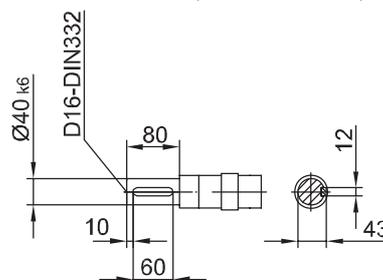
Code -0./



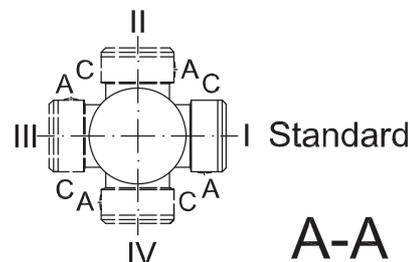
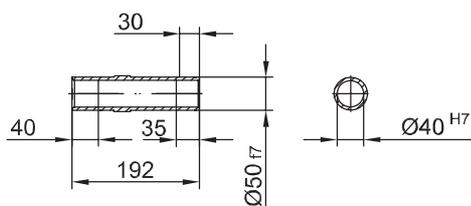
Code -4/



Code -1/



Code -5/



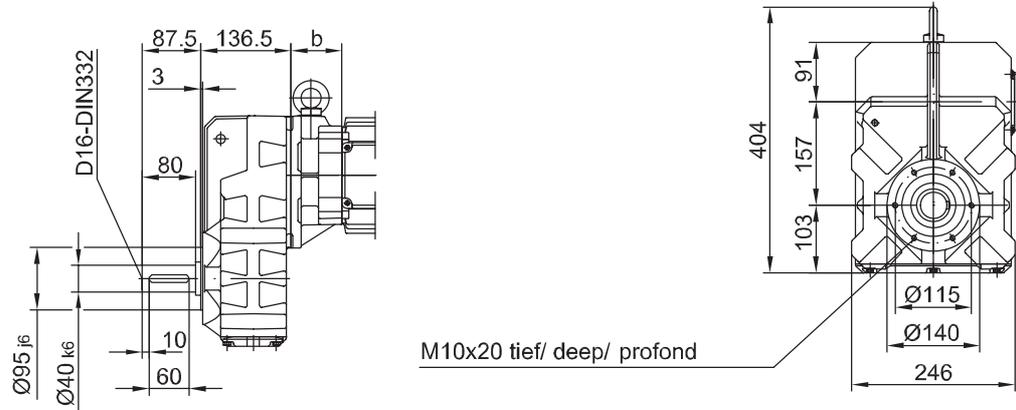
Typ/ Type/ Type	a	b	c	d	i	Ausführung mit Bremse/ with brake /											
						E003		E004		E008		Z008		Z015		E075	
						c _B	d _B	c _B	d _B	c _B	d _B	c _B	d _B	c _B	d _B	c _B	d _B
BF30-../D05..	170	58	123	373	100	100	123	415									
BF30Z-../D05..	170	133.5	123	448	100	100	123	490									
BF30-../D06..	170	58	123	373	100	100	123	415									
BF30Z-../D06..	170	133.5	123	448	100	100	123	490									
BF30-../D07..	190	58	123	393	100	100	123	435	123	435							
BF30Z-../D07..	190	133.5	123	468	100	100	123	510	123	510							
BF30-../D08..	200	62	156	406	115	115			166	481							
BF30Z-../D08..	200	137.5	156	481	115	115			166	556							
BF30-../D09..	251	76.5	181	471	124	124			192	551	192	565	192	571			
BF30Z-../D09..	251	152	181	547	124	124			192	626	192	640	192	646			
BF30-../D11..	319	83	228	546	181	181							231	648.5	231	678.5	

Three-phase Shaft Mounted Geared Motors
 Drehstrom-Flach-Getriebemotoren
 Motoréducteurs triphasés plaats

BF30 - BF30Z

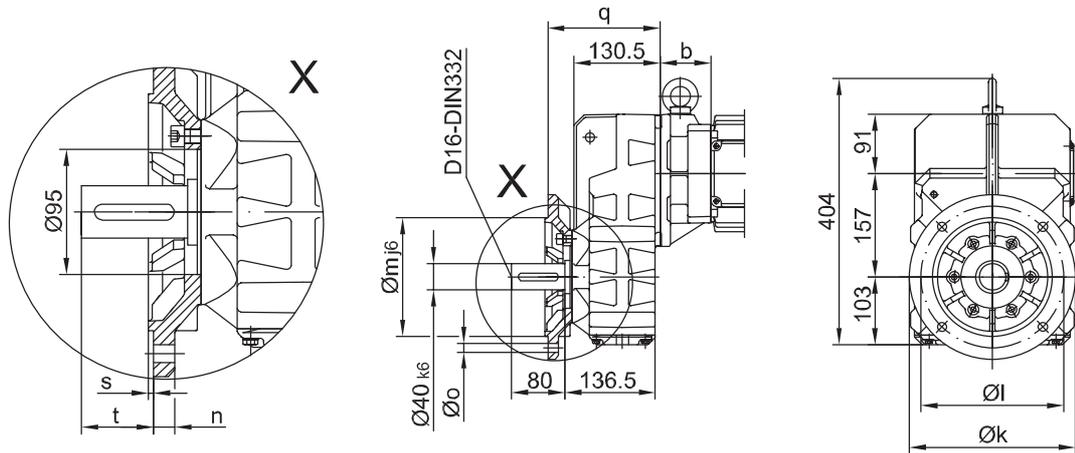
Flansch mit Gewindelöchern/ flange with tapped holes/ bride avec trous taraudés

Code -7./



Flansch mit Durchgangslöchern/ flange with clearance holes/ bride avec trous débouchants

Code -3./
 (Code -2./)

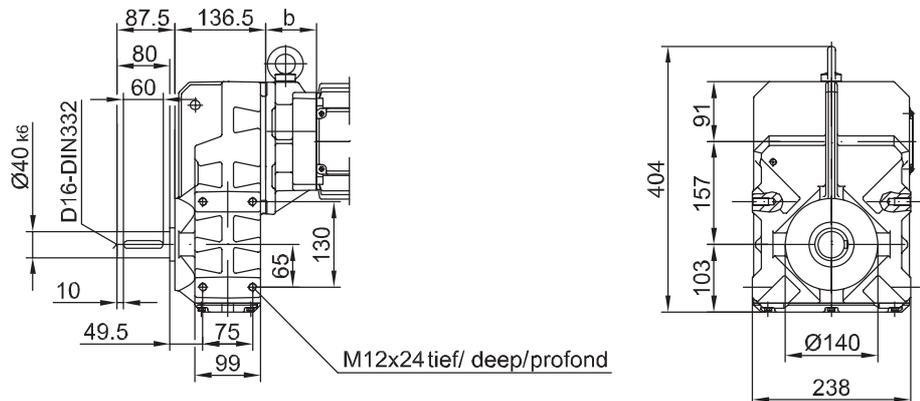


Flanschmasse/ Flange dimensions/ cotes de la bride

BF30(Z)	k	l	m	n	o	q	s	t
Standard/ -3./	250	215	80	16	13.5	169.5	4	54.5
klein/ small/ petit-2./	200	165	130	12	11	160.5	3.5	63.5

Fuss mit Gewindelöchern links und rechts/ Foot with tapped holes left and right/
 fixation à pied avec trous taraudés à gauche et à droite

Code -6.LR/

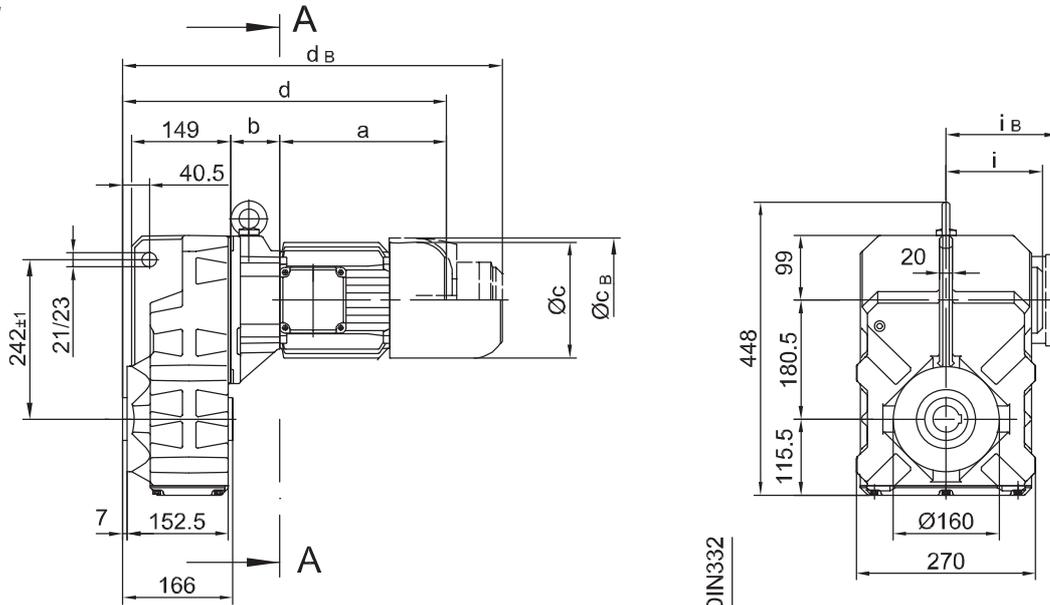


Three-phase Shaft Mounted Geared Motors
 Drehstrom-Flach-Getriebemotoren
 Motoréducteurs triphasés plaats

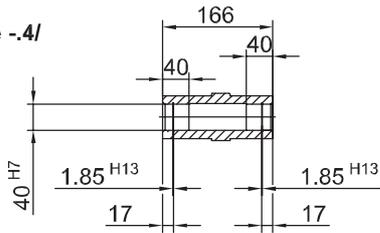
BF40 - BF40Z

mit Drehmomentstütze/ with torque arm/ avec bras de réaction

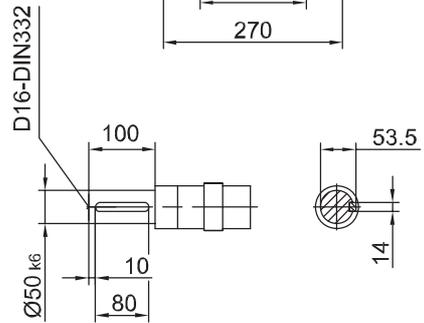
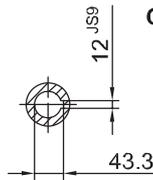
Code -0./



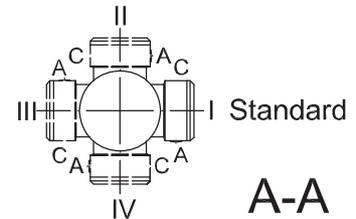
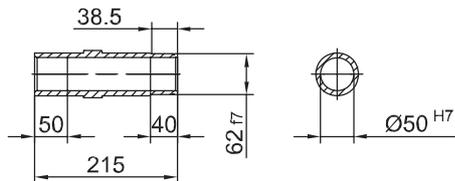
Code -4/



Code -1/



Code -5/



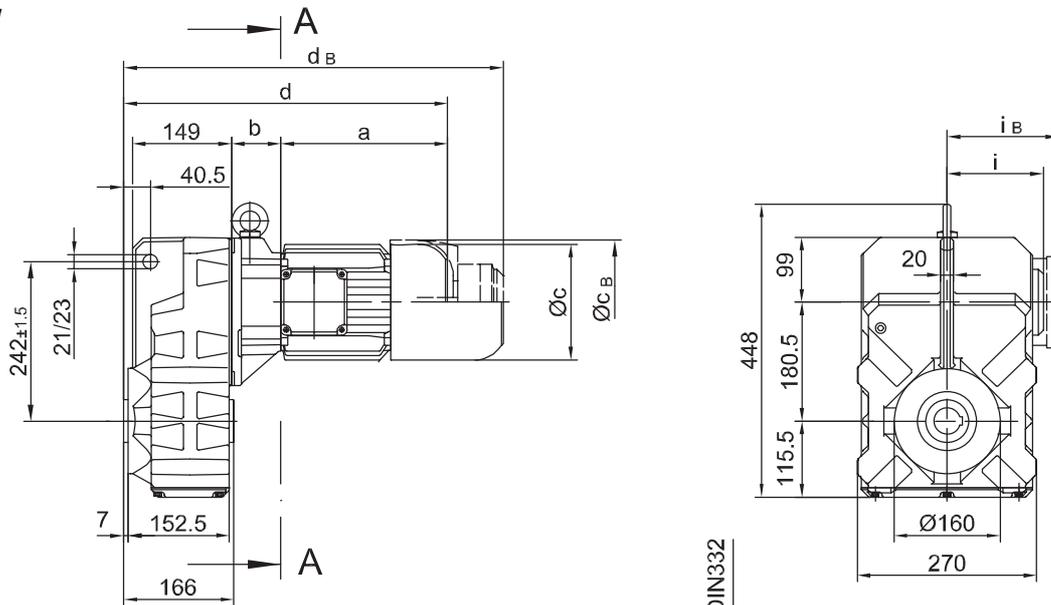
Typ/ Type/ Type	a	b	c	d	i	Ausführung mit Bremse/ with brake/ avec frein												
						i _B	E003		E004		E008		Z008		Z015		E075	
							c _B	d _B										
BF40Z-../D05..	170	138.5	123	472	100	100	123	514										
BF40Z-../D06..	170	138.5	123	472	100	100	123	514										
BF40Z-../D07..	190	138.5	123	492	100	100	123	534	123	534								
BF40-../D08..	200	60	156	422	115	115					166	497						
BF40Z-../D08..	200	142.5	156	506	115	115					166	581						
BF40-../D09..	251	74.5	181	489	124	124					192	568	192	582	192	588		
BF40Z-../D09..	251	157	181	570	124	124					192	650	192	664	192	670		
BF40-../D11..	319	81	228	563	181	181									231	665	231	695

Three-phase Shaft Mounted Geared Motors
 Drehstrom-Flach-Getriebemotoren
 Motoréducteurs triphasés plaats

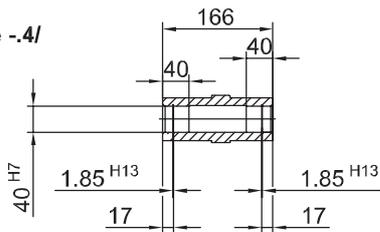
BF40 - BF40Z

mit Drehmomentstütze/ with torque arm/ avec bras de réaction

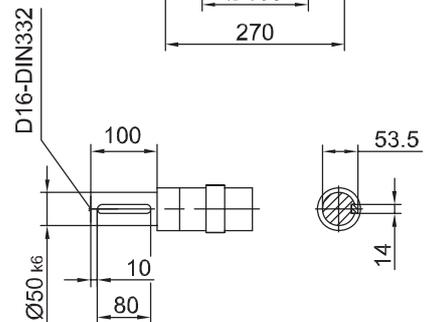
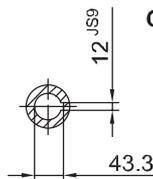
Code -0./



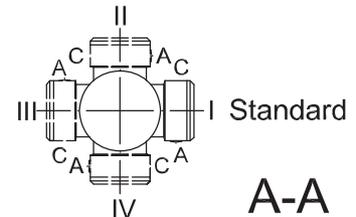
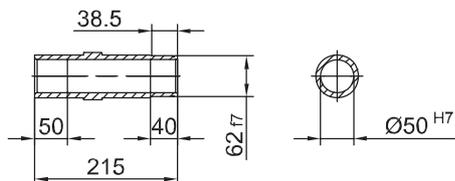
Code -4/



Code -1/



Code -5/



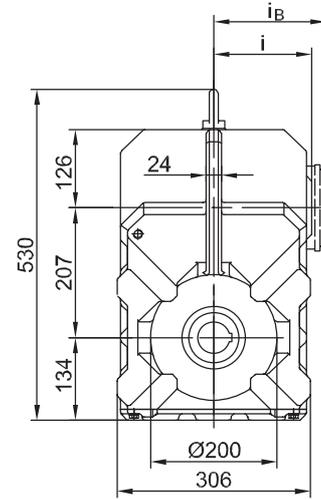
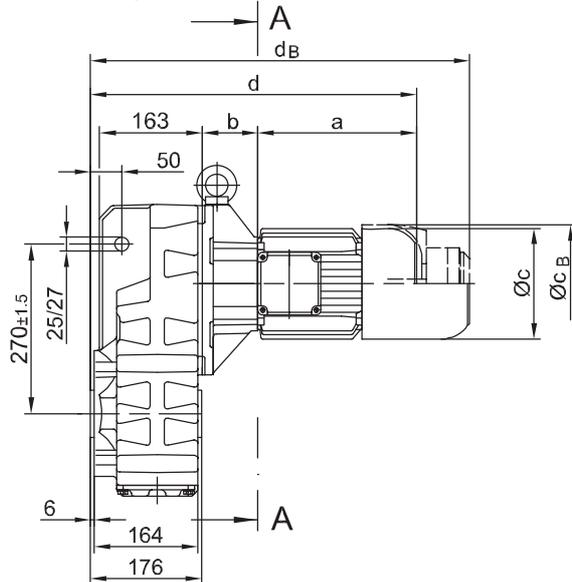
Typ/ Type/ Type	a	b	c	d	i	Ausführung mit Bremse/ with brake/ avec frein												
						i _B	E003		E004		E008		Z008		Z015		E075	
							c _B	d _B										
BF40Z-../D05..	170	138.5	123	472	100	100	123	514										
BF40Z-../D06..	170	138.5	123	472	100	100	123	514										
BF40Z-../D07..	190	138.5	123	492	100	100	123	534	123	534								
BF40-../D08..	200	60	156	422	115	115					166	497						
BF40Z-../D08..	200	142.5	156	506	115	115					166	581						
BF40-../D09..	251	74.5	181	489	124	124					192	568	192	582	192	588		
BF40Z-../D09..	251	157	181	570	124	124					192	650	192	664	192	670		
BF40-../D11..	319	81	228	563	181	181								231	665	231	695	

Three-phase Shaft Mounted Geared Motors
 Drehstrom-Flach-Getriebemotoren
 Motoréducteurs triphasés plaats

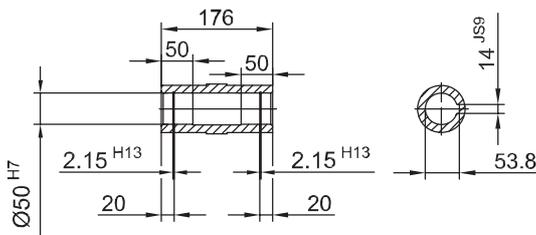
BF50 - BF50Z

mit Drehmomentstütze/ with torque arm/ avec bras de réaction

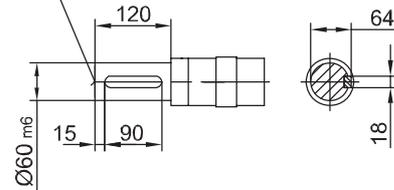
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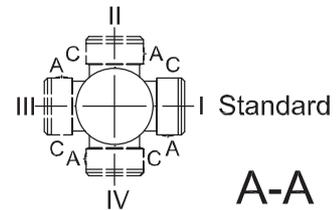
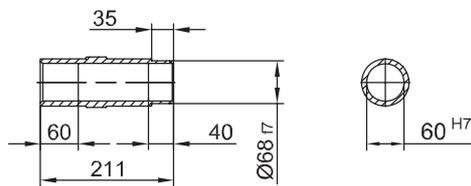
Code -4/



Code -1/



Code -5/



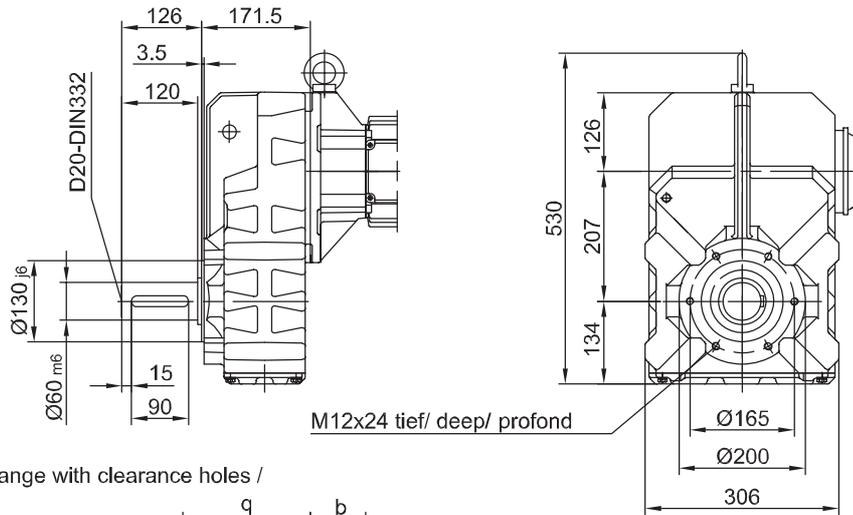
Typ/ Type/ Type	a	b	c	d	i	i _B	Ausführung mit Bremse/ with brake/ avec frein											
							E003		E004		E008		Z008		Z015			
							c _B	d _B	c _B	d _B	c _B	d _B	c _B	d _B	c _B	d _B	c _B	d _B
BF50Z-../D05..	170	155	123	503	100	100	123	545										
BF50Z-../D06..	170	155	123	503	100	100	123	545										
BF50Z-../D07..	190	155	123	523	100	100	123	565	123	565								
BF50-../D08..	200	73	156	450	115	115					166	525						
BF50Z-../D08..	200	159	156	536	115	115					166	611						
BF50-../D09..	251	87.5	181	516	124	124					192	595	192	609	192	615		
BF50Z-../D09..	251	173.5	181	602	124	124					192	681	192	695	192	701		
Typ/ Type/ Type	a	b	c	d	i	i _B	Z015		E075		Z075		Z100					
							c _B	d _B	c _B	d _B	c _B	d _B	c _B	d _B				
BF50-../D11..	319	94	228	591	181	181	231	693	231	723								
BF50-../D13..	393	107	266	678	217	217			277	812	277	832						
BF50-../D16..	429	121	322	728	243	243			310	860	310	880	310	899				

Three-phase Shaft Mounted Geared Motors
 Drehstrom-Flach-Getriebemotoren
 Motoréducteurs triphasés plaats

BF50 - BF50Z

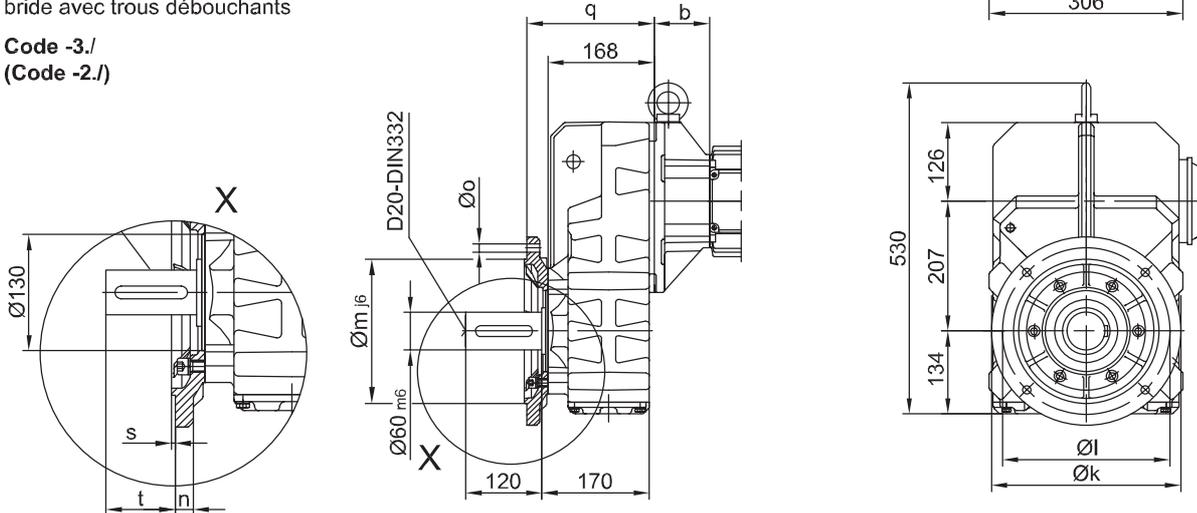
Flansch mit Gewindelöchern/
 flange with tapped holes/
 bride avec trous taraudés

Code -7./



Flansch mit Durchgangslöchern / flange with clearance holes /
 bride avec trous débouchants

Code -3./
 (Code -2./)

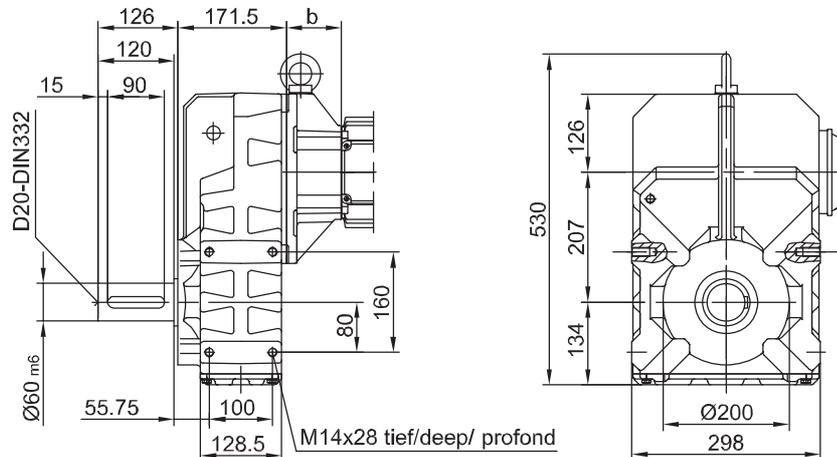


Flanschmasse/ Flange dimensions/ cotes de la bride

BF50(Z)	k	l	m	n	o	q	s	t
Standard/ -3./	300	265	230	20	13.5	201	4	96.5
Klein/ small/ petit -2./	250	215	180	16	13.5	198	4	99.5

Fuss mit Gewindelöchern links und rechts / foot with tapped holes left and right /
 fixation à pied avec trous taraudés à gauche et à droite

Code -6.LR/



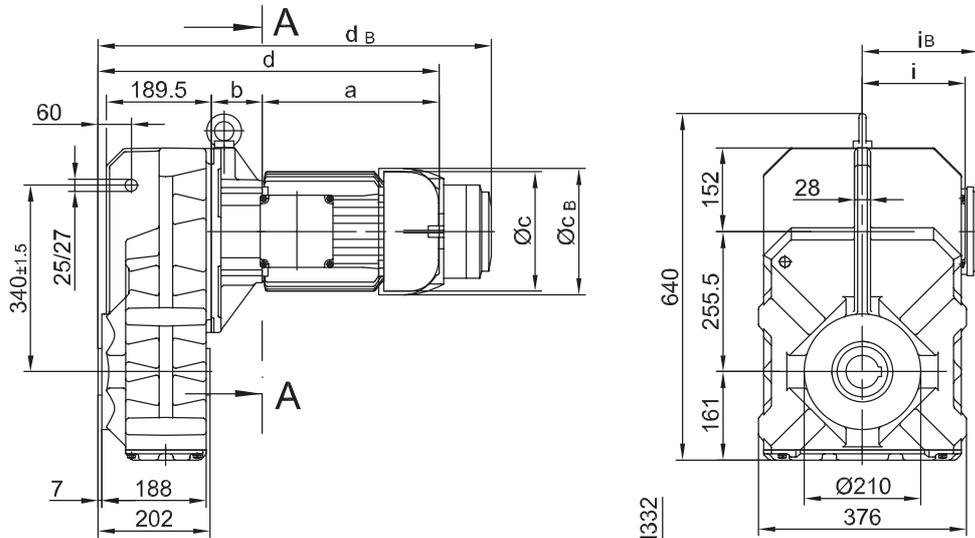
Series BF

Three-phase Shaft Mounted Geared Motors
Drehstrom-Flach-Getriebemotoren
Motoréducteurs triphasés plaats

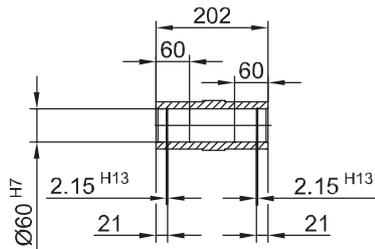
BF60 - BF60Z

mit Drehmomentstütze/ with torque arm/ avec bras de réaction

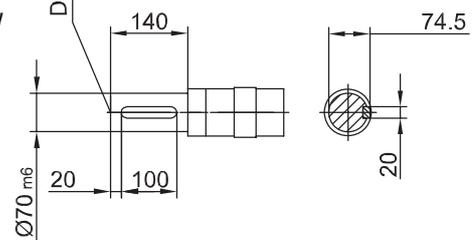
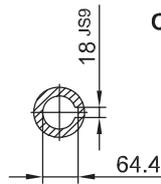
Code -0./



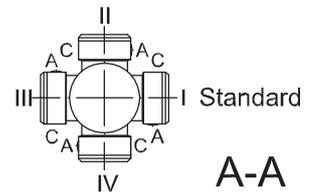
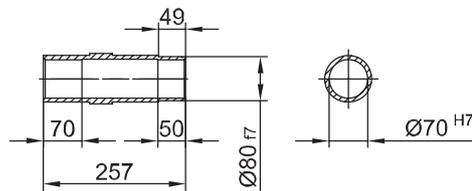
Code -4/



Code -1/



Code -5/



Flanschmasse/ Flange dimensions/ cotes de la bride

BF60(Z)	k	l	m	n	o	q	s	t
Standard/ -3./	350	300	250 _{h6}	20	17.5	234.5	5	110.5
klein/ small/ petit -2./	300	265	230 _{j6}	20	13.5	242.5	4	102.5

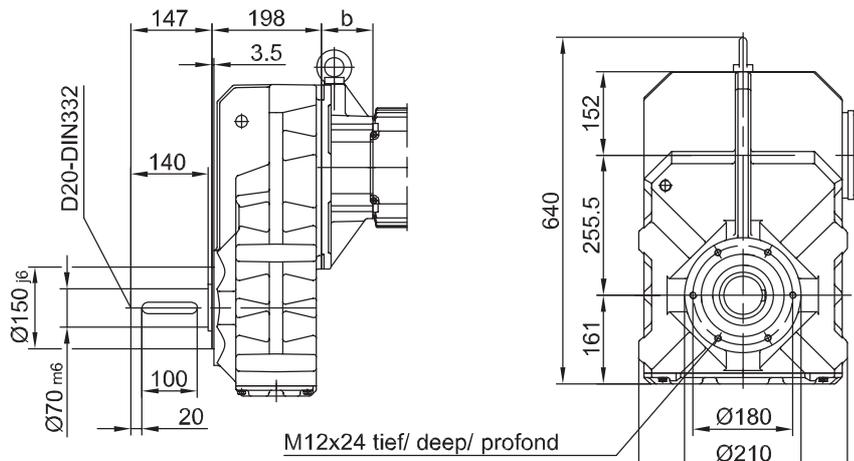
Typ/ Type/ Type	a	b	c	d	i	Ausführung mit Bremse/ with brake/ avec frein												
						i _B	E008		Z008		Z015		E075		Z075		Z100	
							c _B	d _B										
BF60Z-../D08..	200	181	156	586	115	115	166	661										
BF60-../D09..	251	85.5	181	540	124	124	192	621	192	635	192	641						
BF60Z-../D09..	251	195.5	181	651	124	124	192	731	192	745	192	751						
BF60-../D11..	319	92	228	616	181	181					231	719	231	749				
BF60Z-../D11..	319	202	228	726	181	181					231	829	231	859				
BF60-../D13..	393	105	266	703	217	217							277	838	277	857		
BF60-../D16..	429	119	322	753	243	243							326	886	326	905	326	925

Three-phase Shaft Mounted Geared Motors
 Drehstrom-Flach-Getriebemotoren
 Motoréducteurs triphasés plaats

BF60 - BF60Z

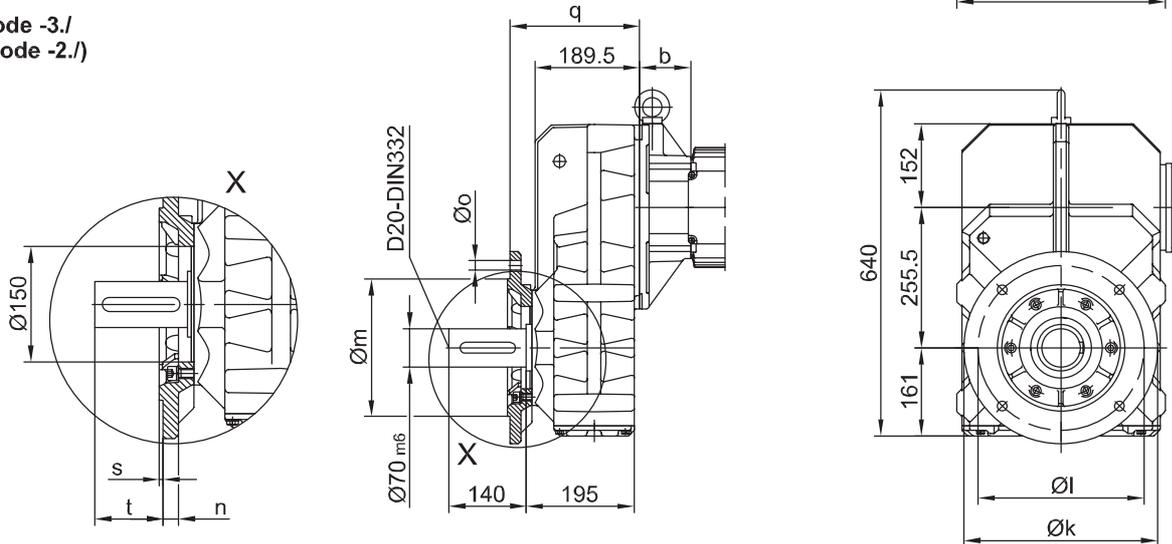
Flansch mit Gewindelöchern/
 flange with tapped holes/
 bride avec trous taraudés

Code -7./



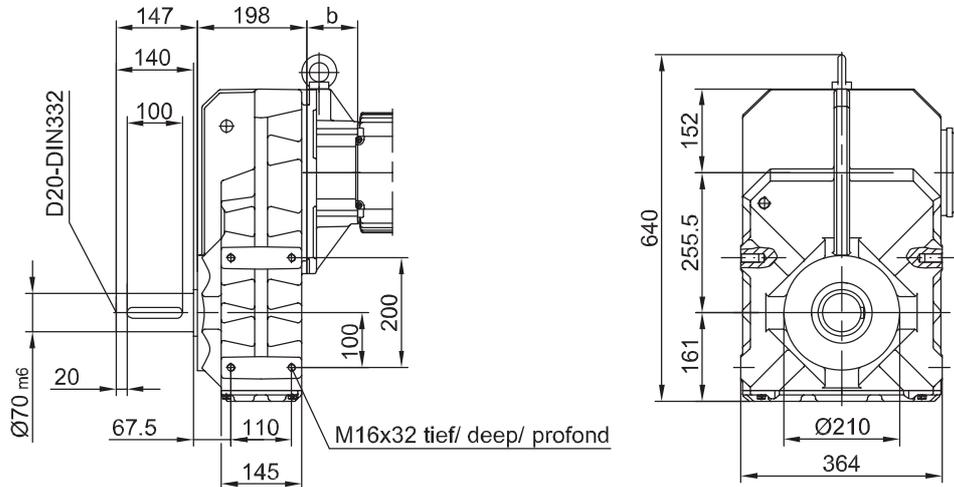
Flansch mit Durchgangslöchern/ flange with clearance holes/ bride avec trous débouchants

Code -3./
 (Code -2./)



Fuss mit Gewindelöchern links und rechts/ foot with tapped holes left and right/
 fixation à pied avec trous taraudés à gauche et à droite

Code -6.LR/

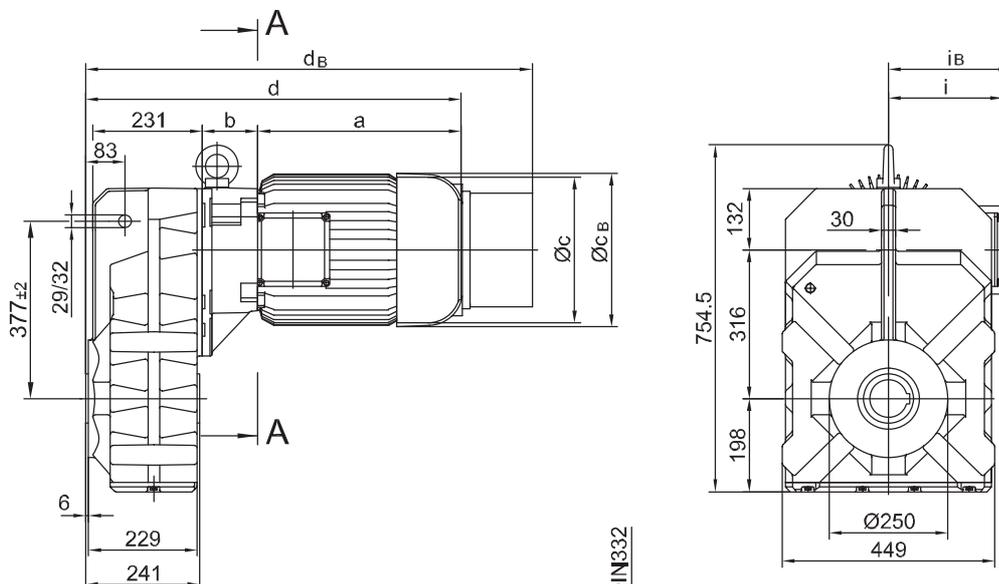


Three-phase Shaft Mounted Geared Motors
 Drehstrom-Flach-Getriebemotoren
 Motoréducteurs triphasés plaats

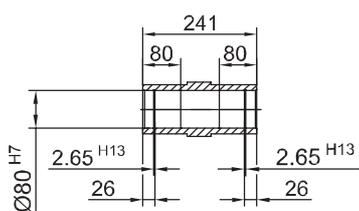
BF70 - BF70Z

mit Drehmomentstütze/
 with torque arm/
 avec bras de réaction

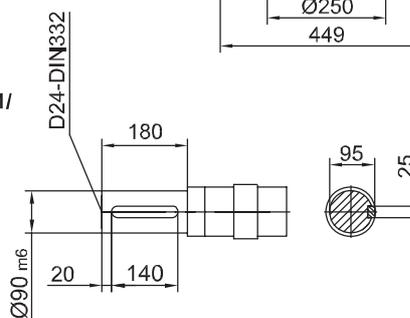
Code -0./



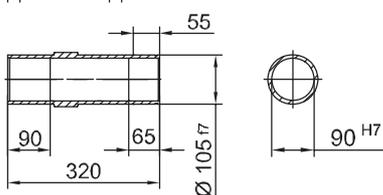
Code -4/



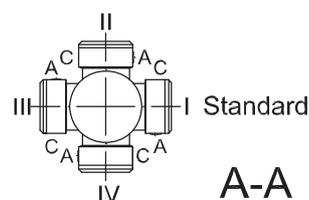
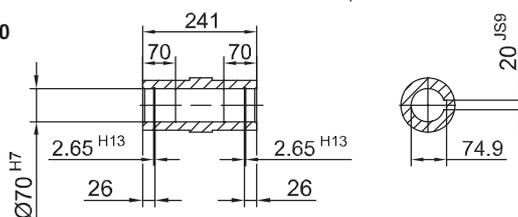
Code -1/



Code -5/



Code -4/K70



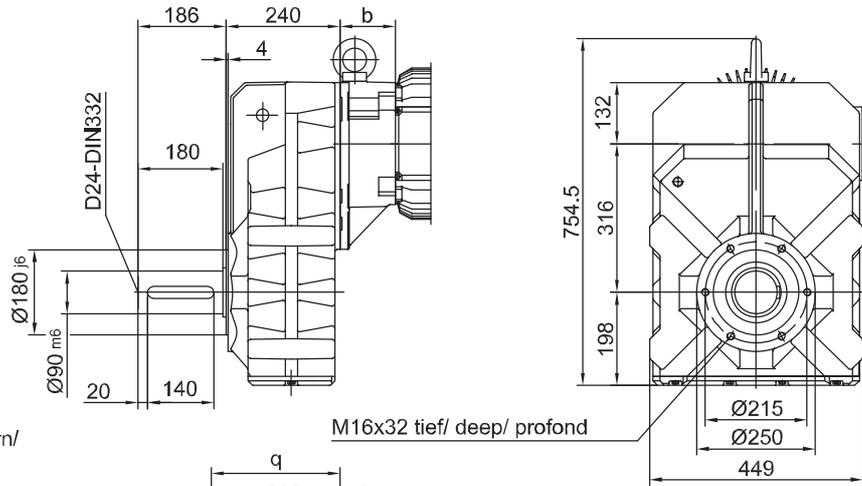
Typ/ Type/ Type	a	b	c	d	i	Ausführung mit Bremse/ with brake/ avec frein														
						E008		Z008		Z015		E075		Z075		Z100		E500		
						c _B	d _B	c _B	d _B	c _B	d _B	c _B	d _B	c _B	d _B	c _B	d _B	c _B	d _B	
BF70Z-../D08..	200	202	156	648	115	115	166	723												
BF70-../D09..	251	83.5	181	580	124	124	192	660	192	674	192	680								
BF70Z-../D09..	251	216.5	181	713	124	124	192	793	192	807	192	813								
BF70-../D11..	319	90	228	655	181	181					231	758	231	788						
BF70Z-../D11..	319	223	228	788	181	181					231	891	231	921						
BF70-../D13..	393	103	266	742	217	217							277	877	277	896				
BF70Z-../D13..	393	236	266	875	217	217							277	1010	277	1029				
BF70-../D16..	429	117	322	792	243	243							326	925	326	944	326	964		
BF70Z-../D16..	429	250	322	925	243	243							326	1058	326	1077	326	1097		
BF70-../D18..	528	139	368	913	288	288											366	1093	366	1074

Three-phase Shaft Mounted Geared Motors
 Drehstrom-Flach-Getriebemotoren
 Motoréducteurs triphasés plaats

BF70 - BF70Z

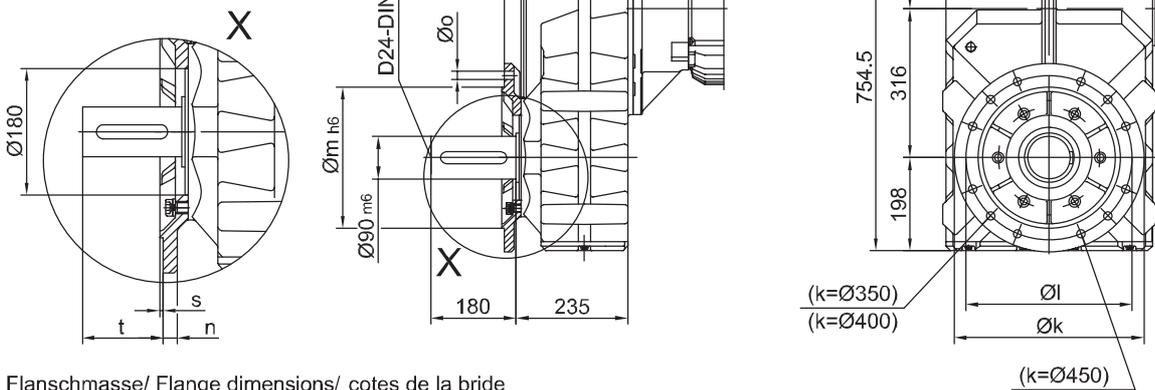
Flansch mit Gewindelöchern/
 flange with tapped holes/
 bride avec trous taraudés

Code -7./



Flansch mit Durchgangslöchern/
 flange with clearance holes/
 bride avec trous débouchants

Code -3./
 (Code -2./)
 (Code -4./)

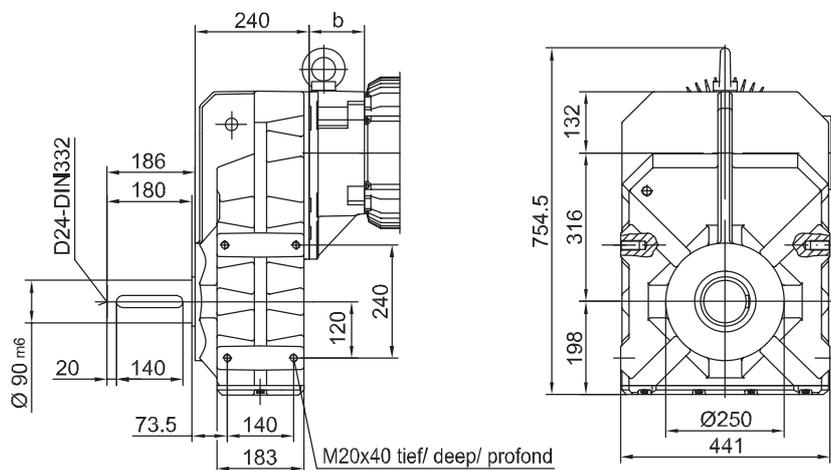


Flanschmasse/ Flange dimensions/ cotes de la bride

BF70(Z)	k	l	m	n	o	q	s	t
Standard/ -3./	400	350	300	20	4xØ17.5	271	5	155
klein/ small/ petit -2./	350	300	250	20	4xØ17.5	271	5	155
gross/ big/ grande -4./	450	400	350	22	8xØ17.5	281	5	145

Fuss mit Gewindelöchern links und rechts/ foot with tapped holes left and right/
 fixation à pied avec trous taraudés à gauche et à droite

Code -6.LR/



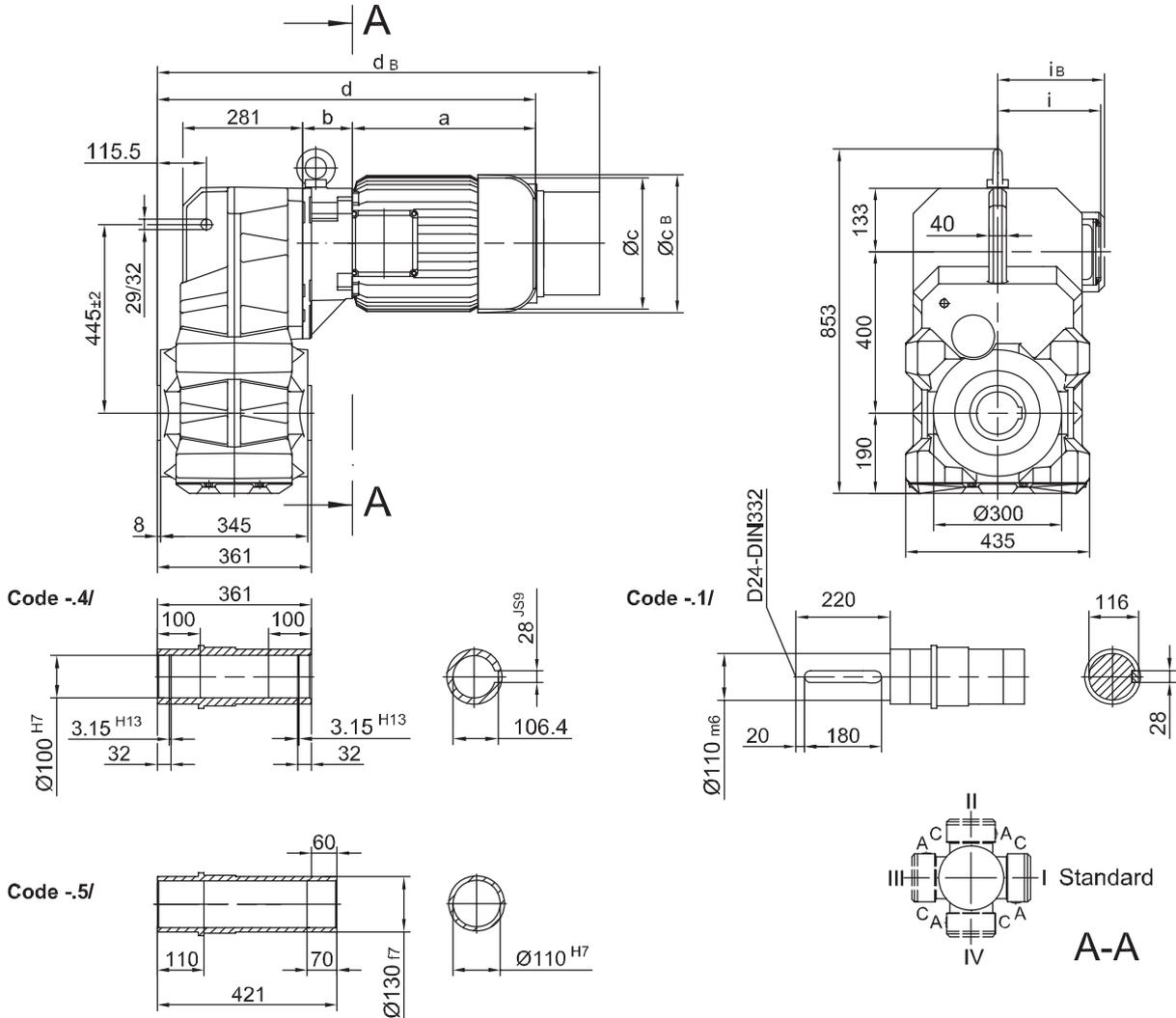
Series BF

Three-phase Shaft Mounted Geared Motors
Drehstrom-Flach-Getriebemotoren
Motoréducteurs triphasés plaats

BF80 - BF80Z

mit Drehmomentstütze/ with torque arm/ avec bras de réaction

Code -0/



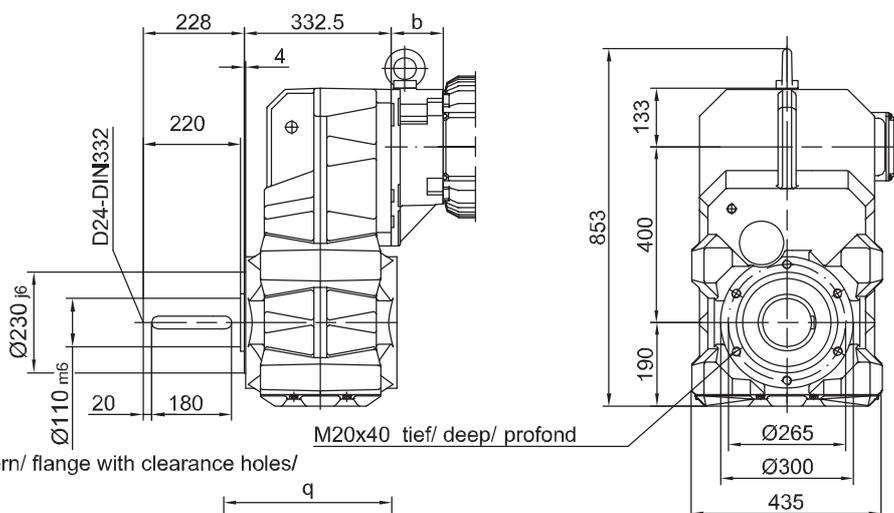
Typ/ Type/ Type	a	b	c	d	i	Ausführung mit Bremse/ with brake/ avec frein								
						i _B	E008		Z008		Z015		E075	
							c _B	d _B						
BF80Z-../D08..	200	202	156	742	115	115	166	817						
BF80-../D09..	251	83.5	181	675	124	124	192	754	192	768	192	774		
BF80Z-../D09..	251	216.5	181	808	124	124	192	887	192	901	192	907		
BF80-../D11..	319	90	228	750	181	181					231	852	231	882
BF80Z-../D11..	319	223	228	883	181	181					231	985	231	1015
Typ/ Type/ Type	a	b	c	d	i	i _B	E075		Z075		Z100		E500	
							c _B	d _B						
							BF80-../D13..	393	100	266	834	217	217	277
BF80Z-../D13..	393	236	266	970	217	217	277	1104	277	1124				
BF80-../D16..	429	114	322	887	243	243	326	1019	326	1039	326	1058		
BF80Z-../D16..	429	250	322	1020	243	243	326	1152	326	1172	326	1191		
BF80-../D18..	528	139	368	1007	288	288					366	1188	366	1168

Three-phase Shaft Mounted Geared Motors
 Drehstrom-Flach-Getriebemotoren
 Motoréducteurs triphasés plaats

BF80 - BF80Z

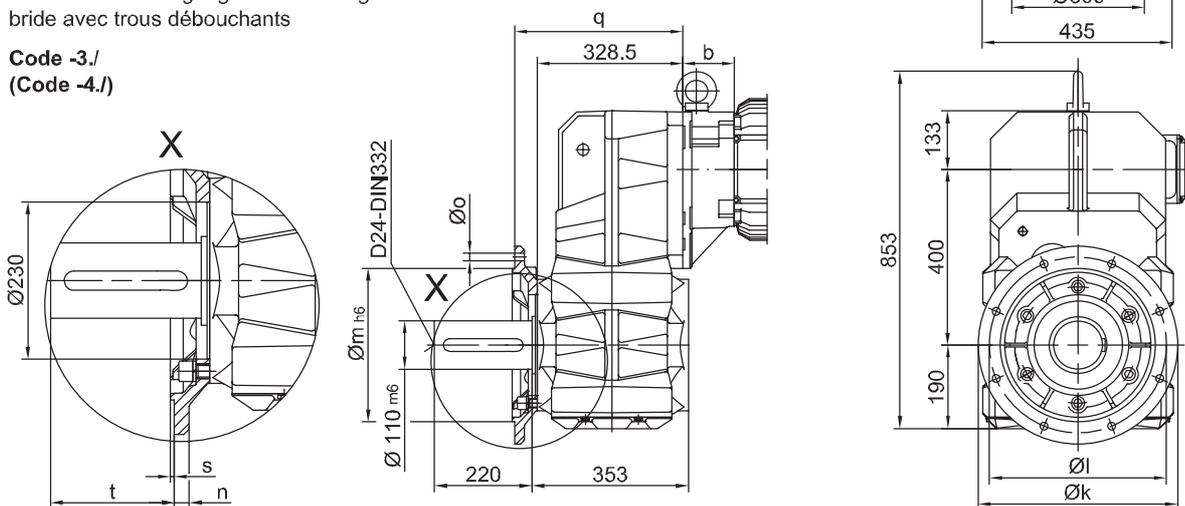
Flansch mit Gewindelöchern/
 flange with tapped holes/
 bride avec trous taraudés

Code -7./



Flansch mit Durchgangslöchern/ flange with clearance holes/
 bride avec trous débouchants

Code -3./
 (Code -4./)

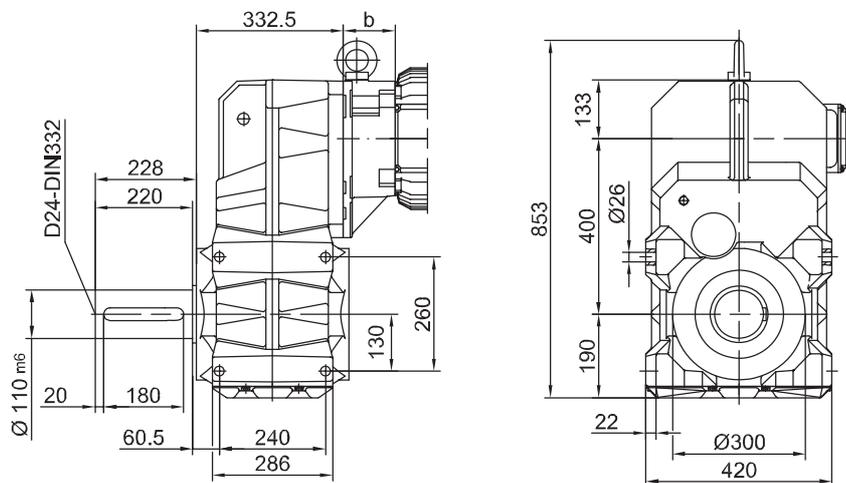


Flanschmasse/ flange dimensions/ cotes de la bride

BF80(Z)	k	l	m	n	o	q	s	t
Standard/ -3./	450	400	350	22	17.5	383.5	5	177
gross/ big/ grande -4./	550	500	450	22	17.5	388.5	5	172

Fuss mit Durchgangslöchern links und rechts/ foot with clearance holes left and right/
 fixation à pied avec trous débouchants à gauche et à droite

Code -1.LR/



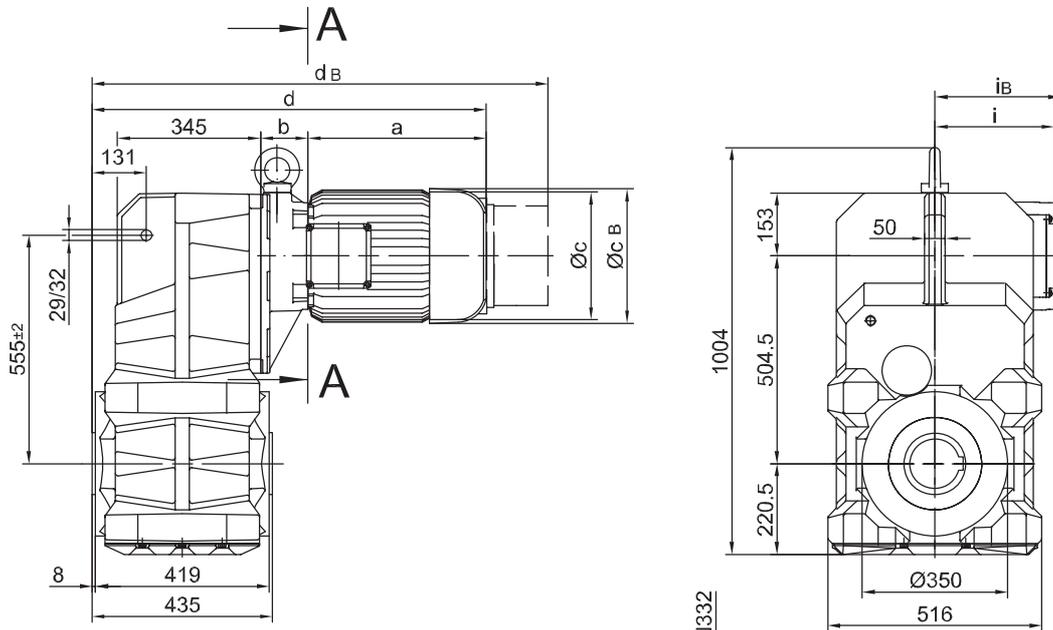
Series BF

Three-phase Shaft Mounted Geared Motors
Drehstrom-Flach-Getriebemotoren
Motoréducteurs triphasés plaats

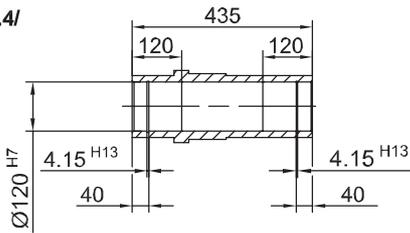
BF90 - BF90Z

mit Drehmomentstütze/ with torque arm/ avec bras de réaction

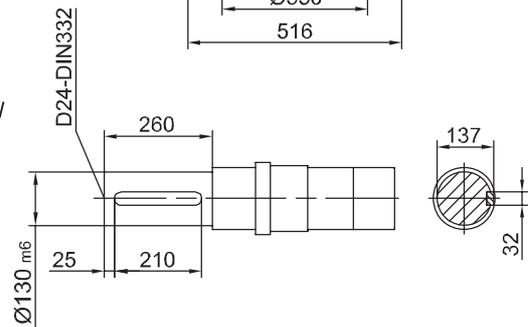
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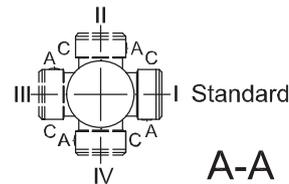
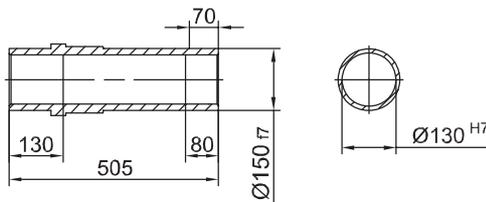
Code -4/



Code -1/



Code -5/



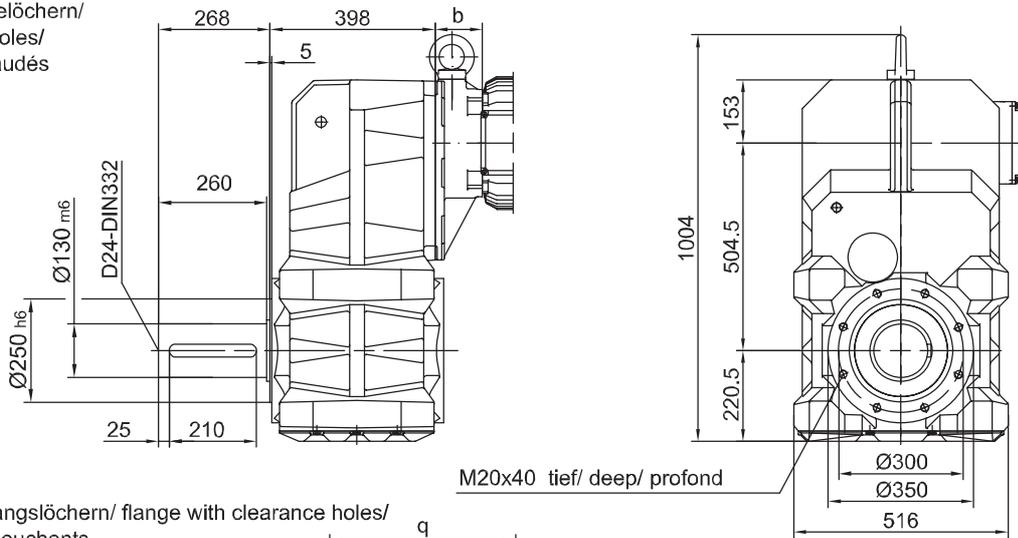
Typ/ Type/ Type	a	b	c	d	i	Ausführung mit Bremse/ with brake/ avec frein								
						i _B	E008		Z008		Z015		E075	
							c _B	d _B						
BF90Z-../D09..	251	252.5	181	909	124	124	192	989	192	1003	192	1009		
BF90-../D11..	319	87	228	812	181	181					231	915	231	945
BF90Z-../D11..	319	259	228	984	181	181					231	1087	231	1117
Typ/ Type/ Type	a	b	c	d	i	i _B	E075		Z075		Z100		E500	
							c _B	d _B						
BF90-../D13..	393	100	266	899	217	217	277	1034	277	1053				
BF90Z-../D13..	393	272	266	1071	217	217	277	1206	277	1225				
BF90-../D16..	429	114	322	949	243	243	326	1082	326	1101	326	1121		
BF90Z-../D16..	429	286	322	1121	243	243	326	1254	326	1273	326	1293		
BF90-../D18..	528	136	368	1060	288	288					366	1250	366	1231
BF90-../C-DNF22S	612	281	390	1299	314									
BF90-../C-DNF22M	652	281	390	1339	314									

Three-phase Shaft Mounted Geared Motors
 Drehstrom-Flach-Getriebemotoren
 Motoréducteurs triphasés plaats

BF90 - BF90Z

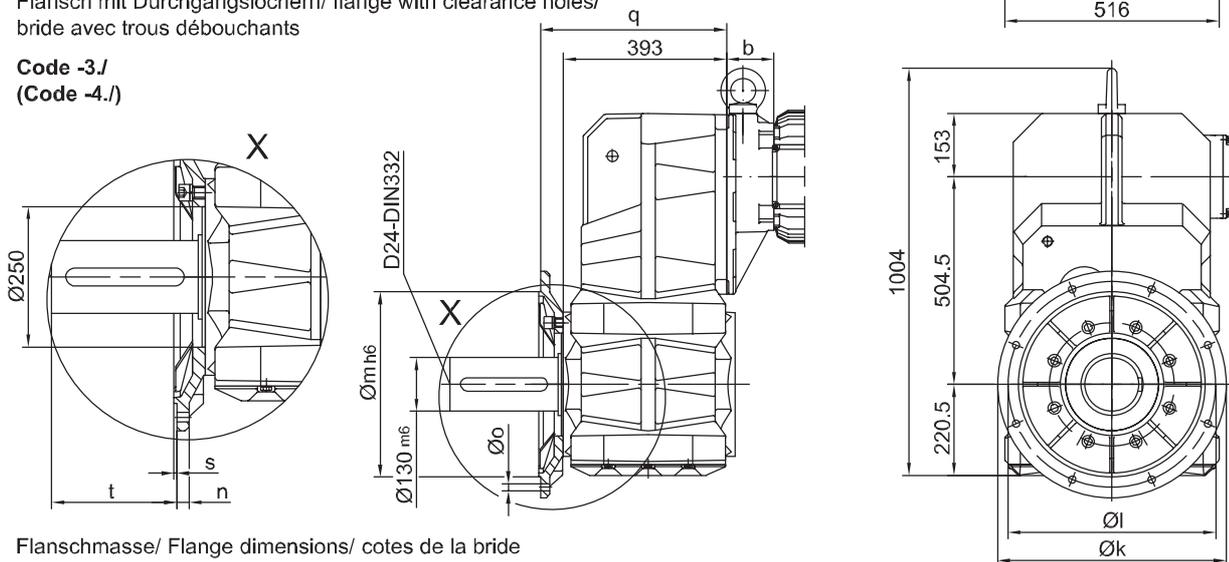
Flansch mit Gewindelöchern/
 flange with tapped holes/
 bride avec trous taraudés

Code -7./



Flansch mit Durchgangslöchern/ flange with clearance holes/
 bride avec trous débouchants

Code -3./
 (Code -4./)

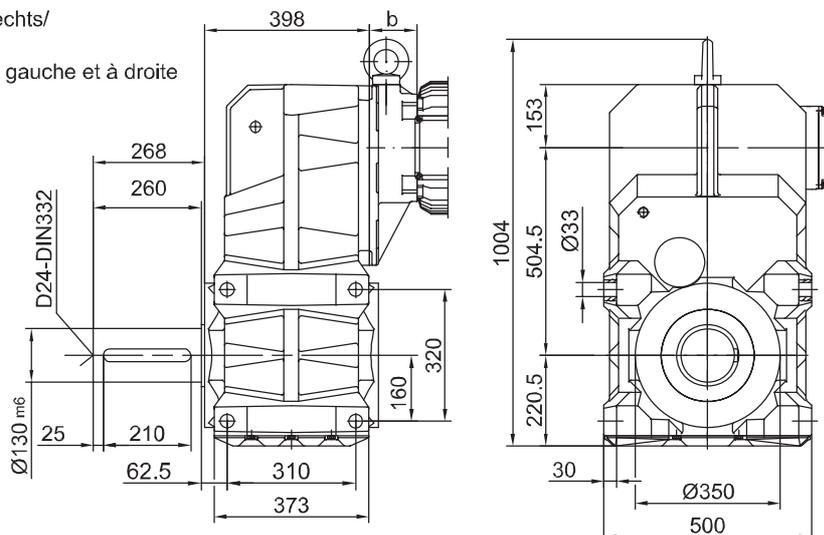


Flanschmaße/ Flange dimensions/ cotes de la bride

BF90(Z)	k	l	m	n	o	q	s	t
Standard/ -3./	550	500	450	22	17.5	448	5	218
gross/ big/ grande -4./	660	600	550	25	22	442	6	224

Fuss mit Durchgangslöchern links und rechts/
 foot with clearance holes left and right/
 fixation à pied avec trous débouchants à gauche et à droite

Code -1.LR/



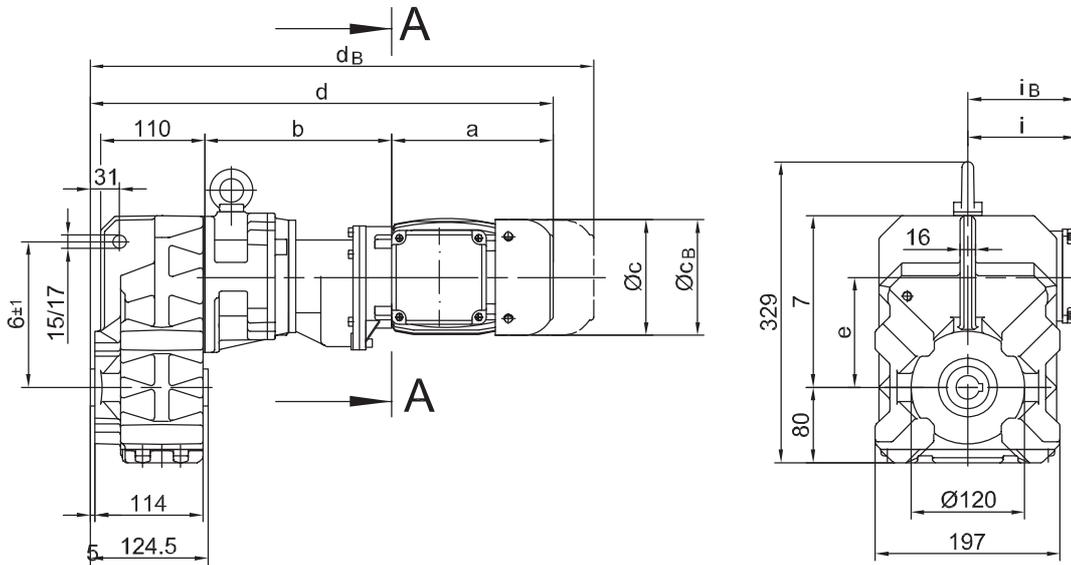
Series BF

Three-phase Shaft Mounted Geared Motors
 Drehstrom-Flach-Getriebemotoren
 Motoréducteurs triphasés plaats

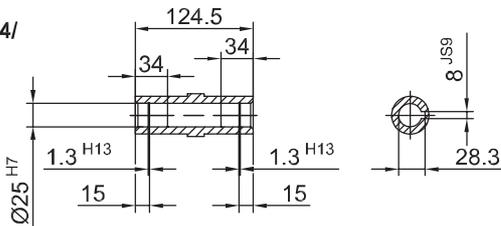
BF10G06

mit Drehmomentstütze/ with torque arm/ avec bras de réaction

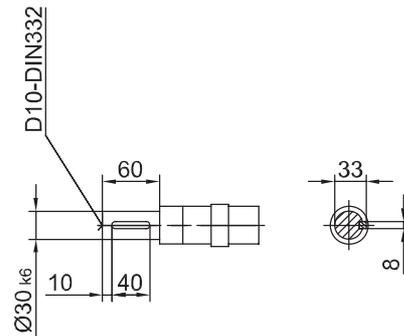
Code -0./



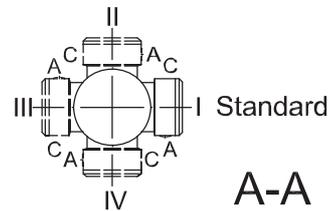
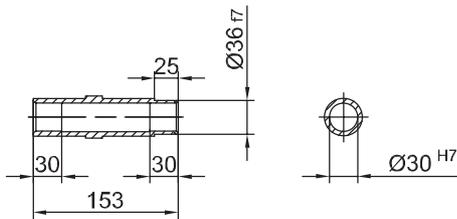
Code -4/



Code -1/



Code -5/



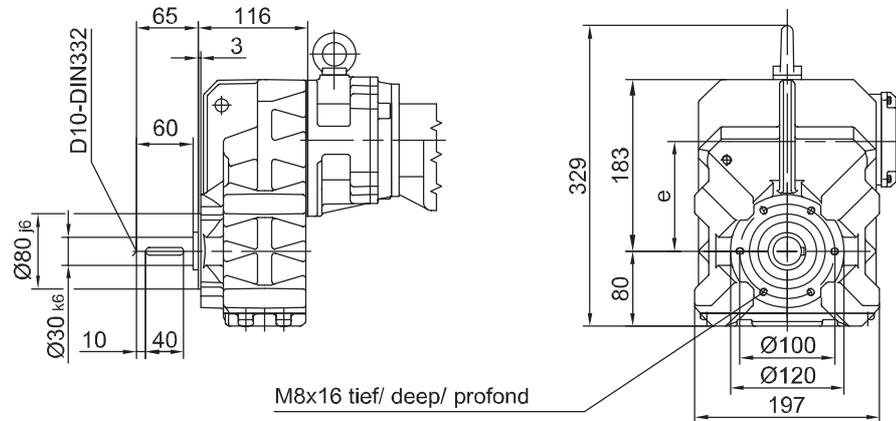
Typ/ Type/ Type	a	b	c	d	e	i	Ausführung mit Bremse/ with brake/ avec frein									
							i _B	E003		E004		E008				
								c _B	d _B	c _B	d _B	c _B	d _B			
BF10G06-../D04..	143	195	111	459	117	90	90	111	502							
BF10G06-../D05..	170	197	123	489	117	100	100	123	531							
BF10G06-../D06..	170	197	123	489	117	100	100	123	531							
BF10G06-../D07..	190	197	123	509	117	100	100	123	551	123	551					
BF10G06-../D08..	200	241	156	562	117	115	115					166	637			

Three-phase Shaft Mounted Geared Motors
 Drehstrom-Flach-Getriebemotoren
 Motoréducteurs triphasés plaats

BF10G06

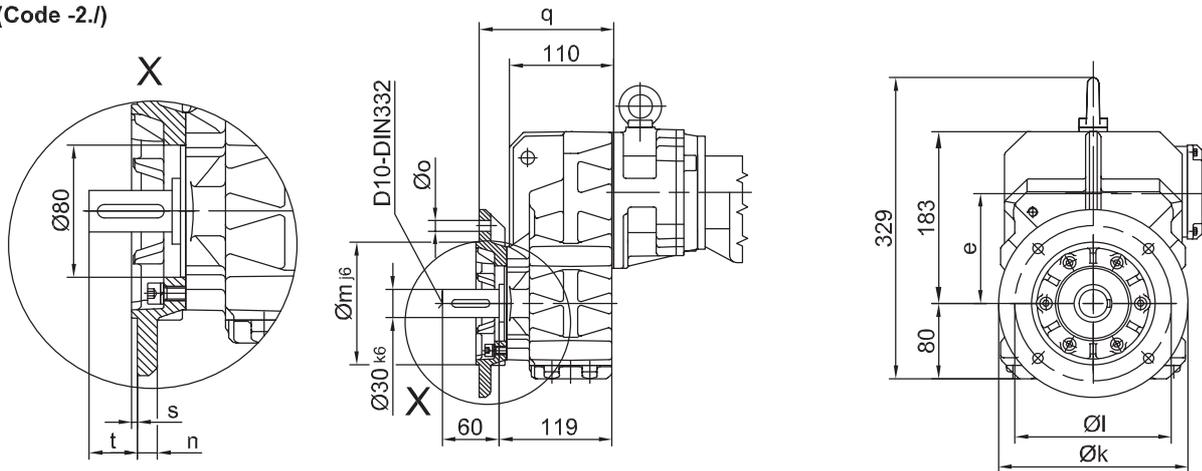
Flansch mit Gewindelöchern/ flange with tapped holes/ bride avec trous taraudés

Code -7./



Flansch mit Durchgangslöchern/ flange with clearance holes/ bride avec trous débouchants

Code -3./
 (Code -2./)

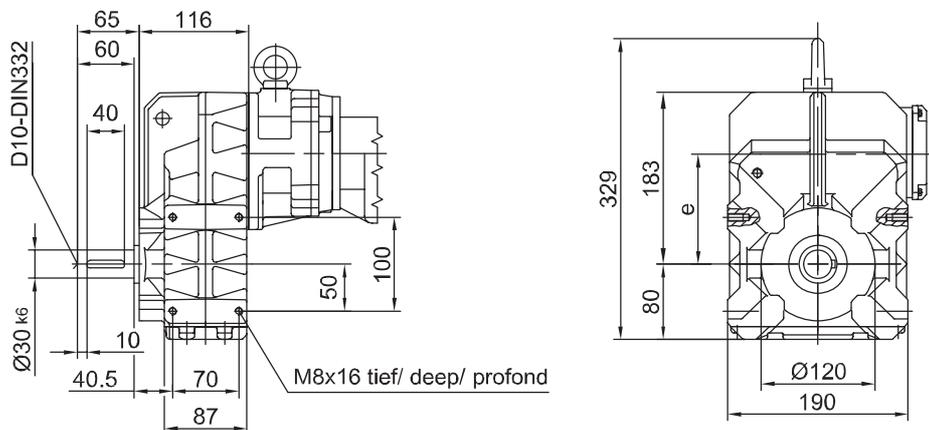


Flanschmasse/ Flange dimensions/ cotes de la bride

BF10G..	k	l	m	n	o	q	s	t
Standard/ -3./	200	165	130	12	11	142	3.5	39
klein/ small/ petit -2./	160	130	110	10	9	135	3.5	46

Fuss mit Gewindelöchern links und rechts/ foot with tapped holes left and right/
 fixation à pied avec trous taraudés à gauche et à droite

Code -6.LR/

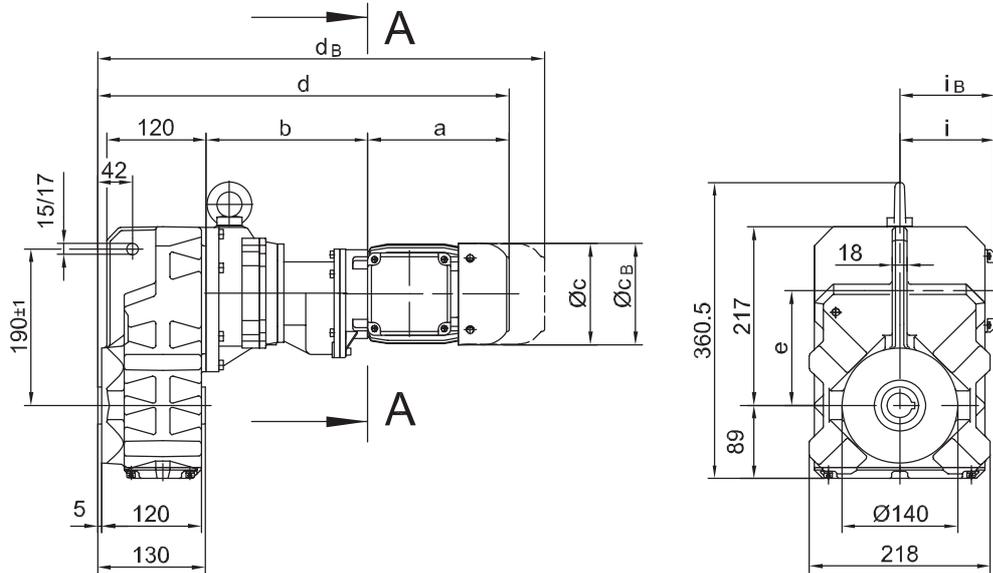


Three-phase Shaft Mounted Geared Motors
 Drehstrom-Flach-Getriebemotoren
 Motoréducteurs triphasés plaats

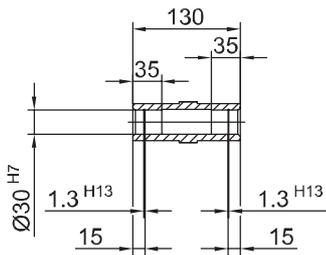
BF20G06

mit Drehmomentstütze/ with torque arm/ avec bras de réaction

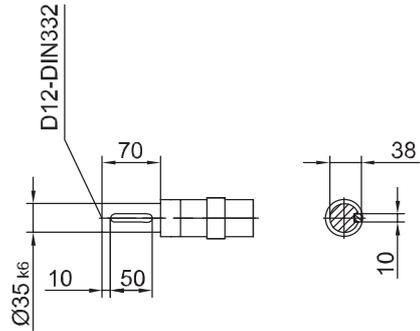
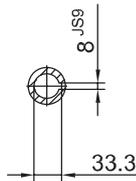
Code -0./



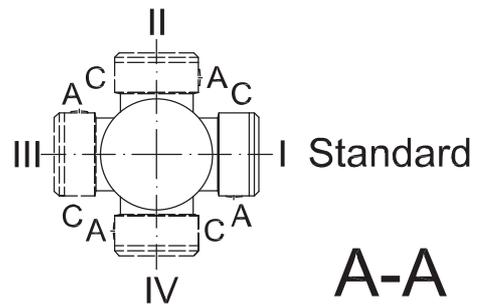
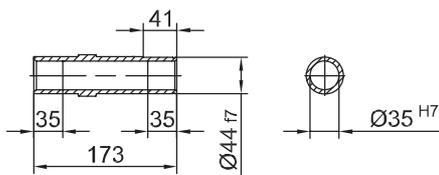
Code -4/



Code -1/



Code -5/



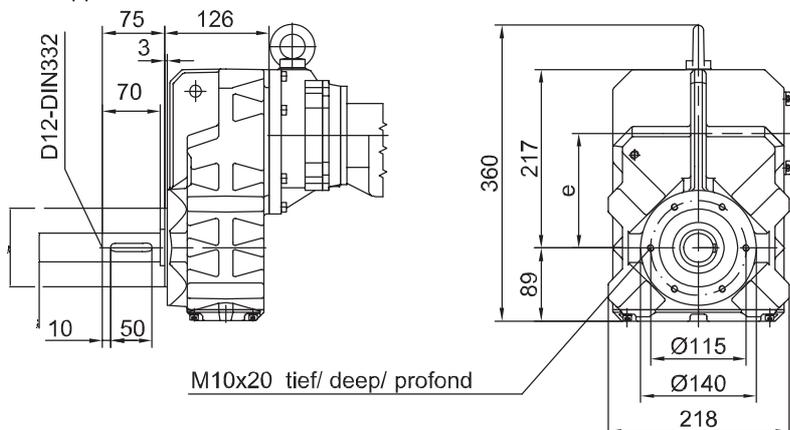
Typ/ Type/ Type	a	b	c	d	e	i	Ausführung mit Bremse/ with brake/ avec frein						
							i _B	E003		E004		E008	
								c _B	d _B	c _B	d _B	c _B	d _B
BF20G06-../D04..	143	193	111	467	135	90	90	111	510				
BF20G06-../D05..	170	195	123	497	135	100	100	123	539				
BF20G06-../D06..	170	195	123	497	135	100	100	123	539				
BF20G06-../D07..	190	195	123	517	135	100	100	123	559	123	559		
BF20G06-../D08..	200	239	156	570	135	115	115					166	645

Three-phase Shaft Mounted Geared Motors
 Drehstrom-Flach-Getriebemotoren
 Motoréducteurs triphasés plaats

BF20G06

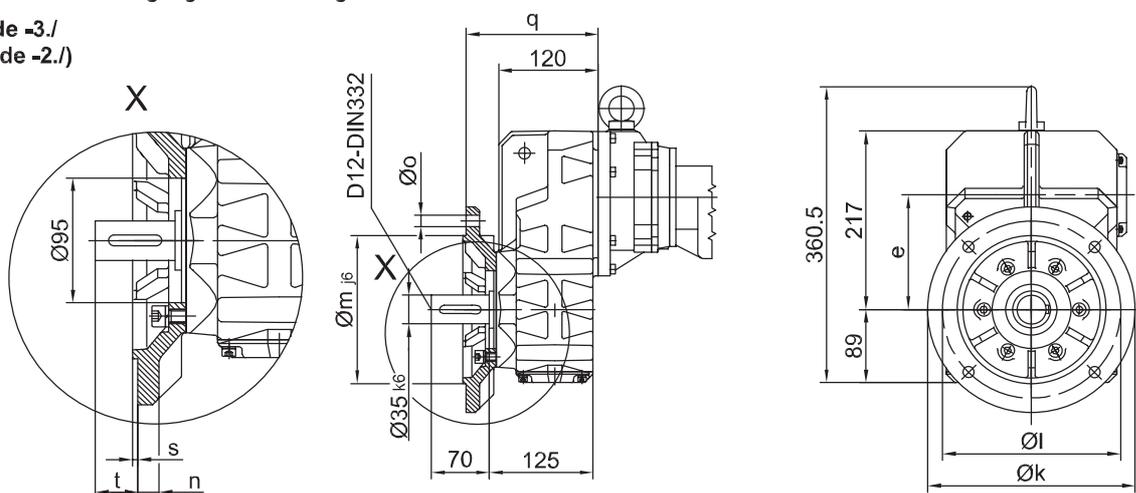
Flansch mit Gewindelöchern/ flange with tapped holes/ bride avec trous taraudés

Code -7./



Flansch mit Durchgangslöchern/ flange with clearance holes/ bride avec trous débouchants

Code -3./
 (Code -2./)

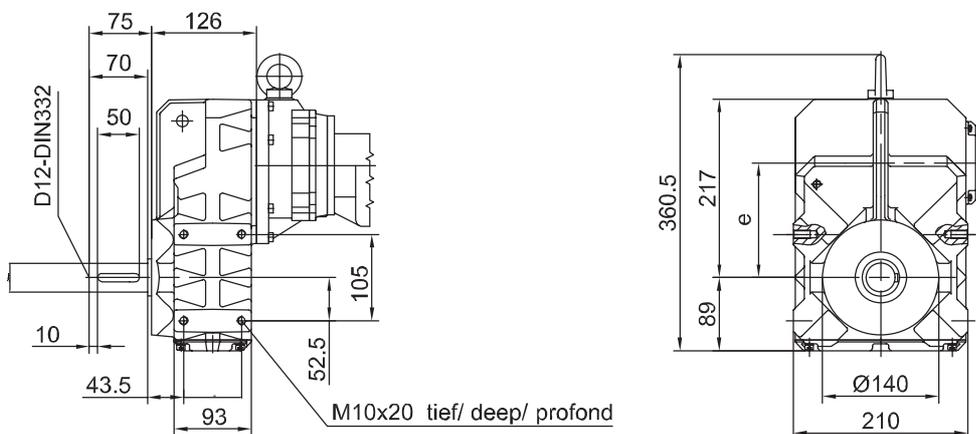


Flanschmasse/ Flange dimensions/ cotes de la bride

BF20G..	k	l	m	n	o	q	s	t
Standard/ -3./	250	215	180	16	13.5	159	4	42
klein/ small/ petit -2./	200	165	130	12	11	150	3.5	51

Fuss mit Gewindelöchern links und rechts/ foot with tapped holes left and right/
 fixation à pied avec trous taraudés à gauche et à droite

Code -6.LR/

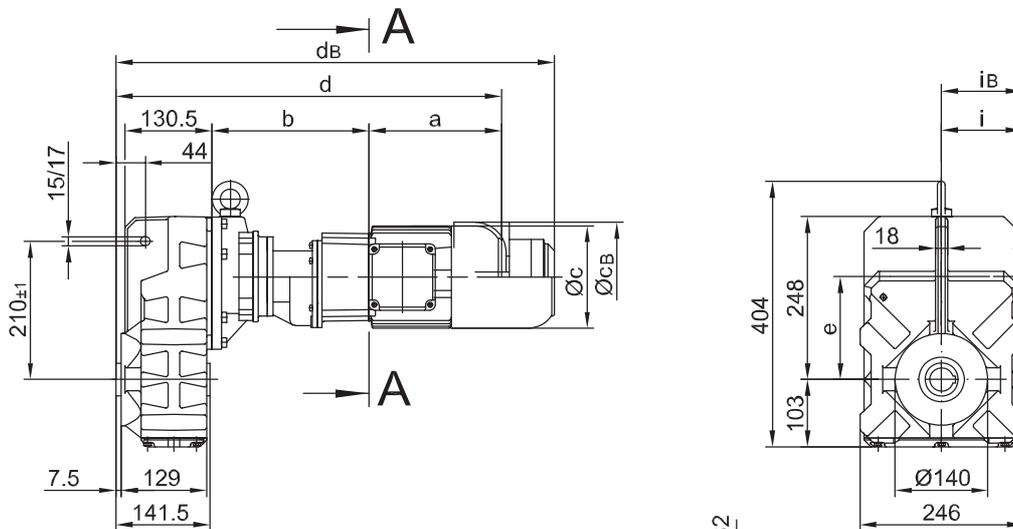


Three-phase Shaft Mounted Geared Motors
 Drehstrom-Flach-Getriebemotoren
 Motoréducteurs triphasés plaats

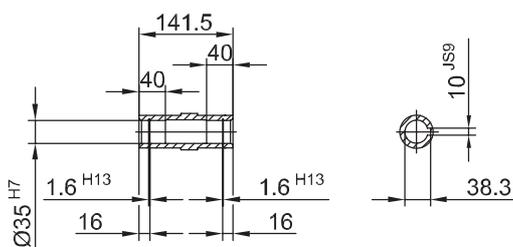
BF30G06

mit Drehmomentstütze/ with torque arm/ avec bras de réaction

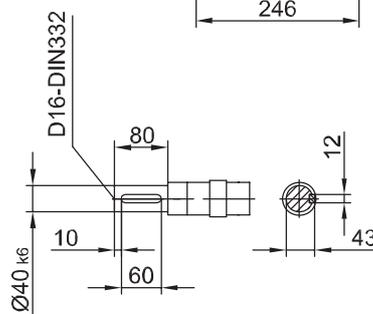
Code -0./



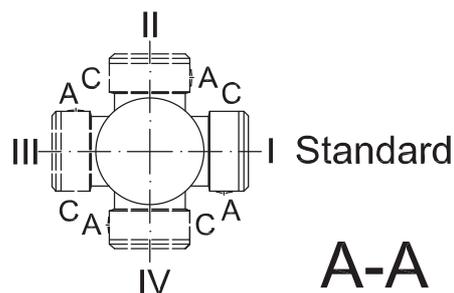
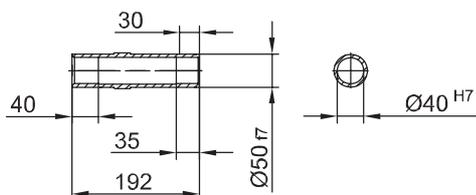
Code -4/



Code -1/



Code -5/



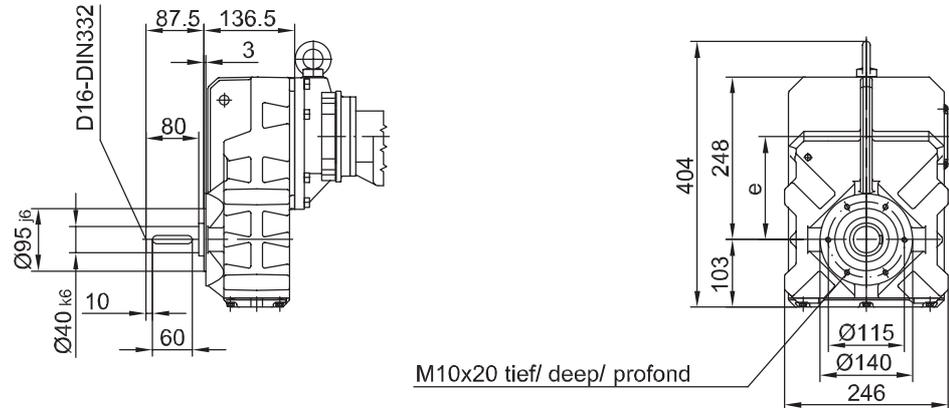
Typ/ Type/ Type	a	b	c	d	e	i	Ausführung mit Bremse/ with brake/ avec frein								
							i _B	E003		E004		E008			
								c _B	d _B	c _B	d _B	c _B	d _B		
BF30G06-../D04..	143	191	111	478	156	90	90	111	521						
BF30G06-../D05..	170	193	123	508	156	100	100	123	550						
BF30G06-../D06..	170	193	123	508	156	100	100	123	550						
BF30G06-../D07..	190	193	123	528	156	100	100	123	570	123	570				
BF30G06-../D08..	200	237	156	581	156	115	115					166	656		

Three-phase Shaft Mounted Geared Motors
 Drehstrom-Flach-Getriebemotoren
 Motoréducteurs triphasés plaats

BF30G06

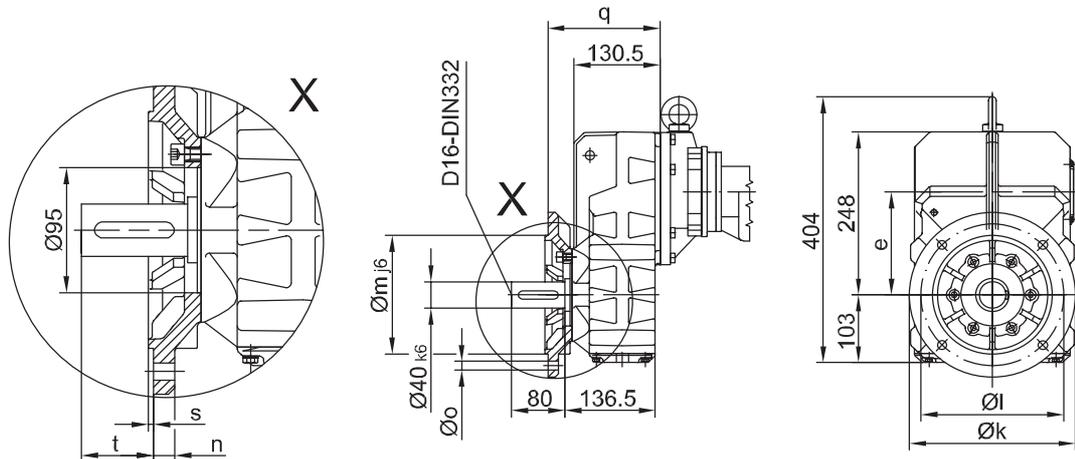
Flansch mit Gewindelöchern/ flange with tapped holes/ bride avec trous taraudés

Code -7./



Flansch mit Durchgangslöchern/ flange with clearance holes/ bride avec trous débouchants

Code -3./
 (Code -2./)

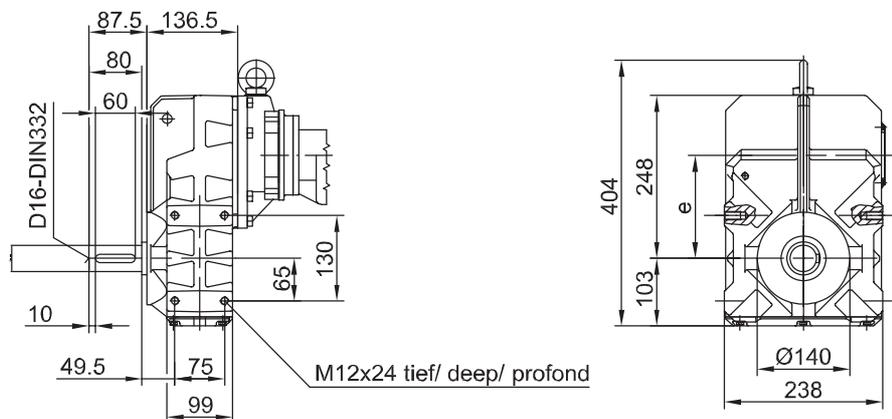


Flanschmasse/ Flange dimensions/ cotes de la bride

BF30G..	k	l	m	n	o	q	s	t
Standard/ -3./	250	215	180	16	13.5	169.5	4	54.5
klein/ small/ petit-2./	200	165	130	12	11	160.5	3.5	63.5

Fuss mit Gewindelöchern links und rechts/ foot with tapped holes left and right/
 fixation à pied avec trous taraudés à gauche et à droite

Code -6.LR/

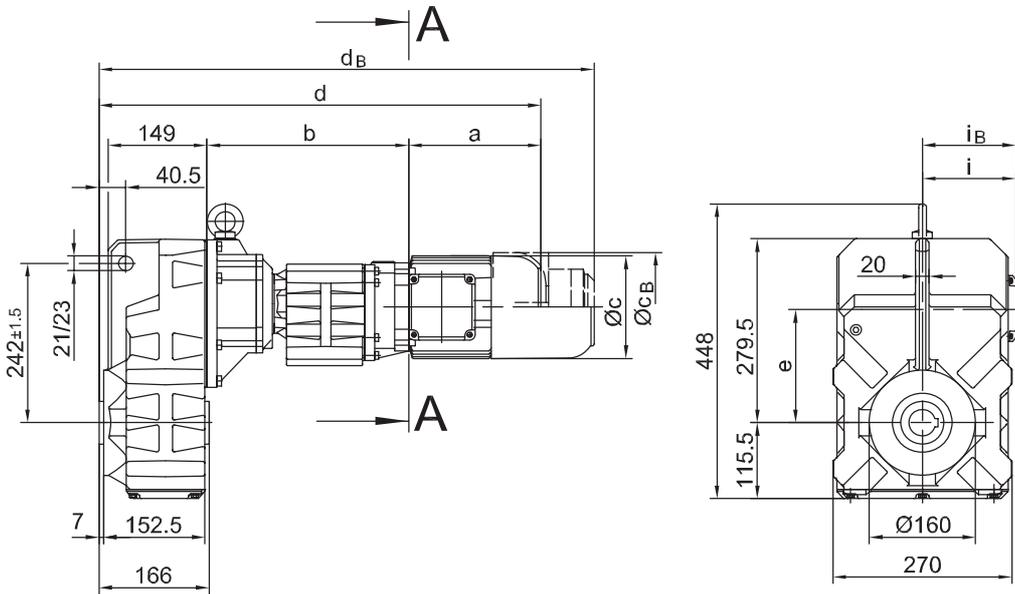


Three-phase Shaft Mounted Geared Motors
 Drehstrom-Flach-Getriebemotoren
 Motoréducteurs triphasés plaats

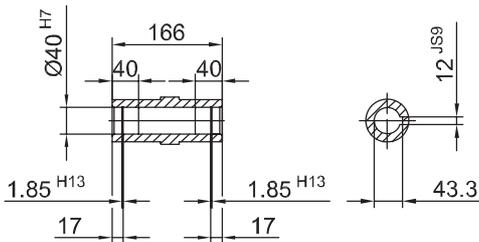
BF40G10

mit Drehmomentstütze/ with torque arm/ avec bras de réaction

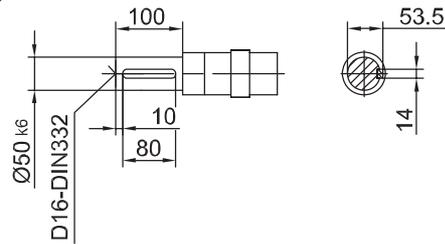
Code -0/



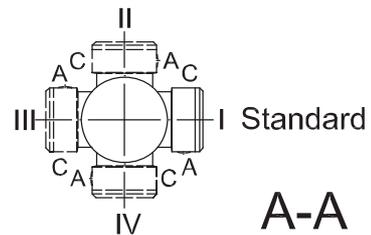
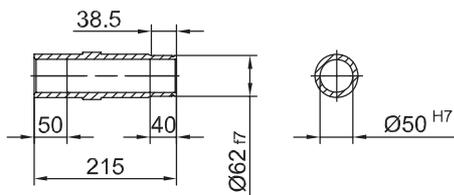
Code -4/



Code -1/



Code -5/



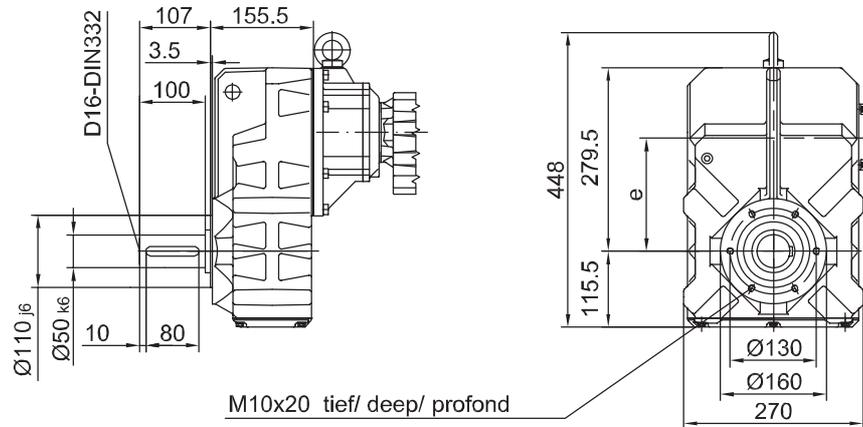
Typ/ Type/ Type	a	b	c	d	e	i	Ausführung mit Bremse/ with brake/ avec frein											
							i _B	E003		E004		E008		Z008		Z015		
								c _B	d _B									
BF40G10-../D05..	170	300	123	633	176	100	100	123	675									
BF40G10-../D06..	170	300	123	633	176	100	100	123	675									
BF40G10-../D07..	190	300	123	653	176	100	100	123	695	123	695							
BF40G10-../D08..	200	304	156	666	176	115	115					166	741					
BF40G10-../D09..	251	318.5	181	732	176	124	124					192	811	192	825	192	831	

Three-phase Shaft Mounted Geared Motors
 Drehstrom-Flach-Getriebemotoren
 Motoréducteurs triphasés plaats

BF40G10

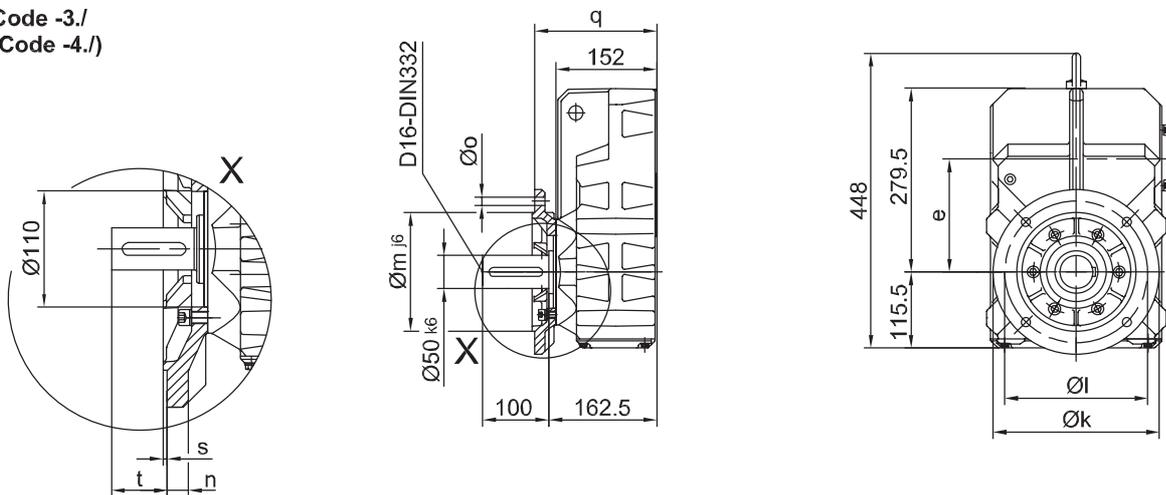
Flansch mit Gewindelöchern/ flange with tapped holes/ bride avec trous taraudés

Code -7./



Flansch mit Durchgangslöchern/ flange with clearance holes/ bride avec trous débouchants

Code -3./
 (Code -4./)

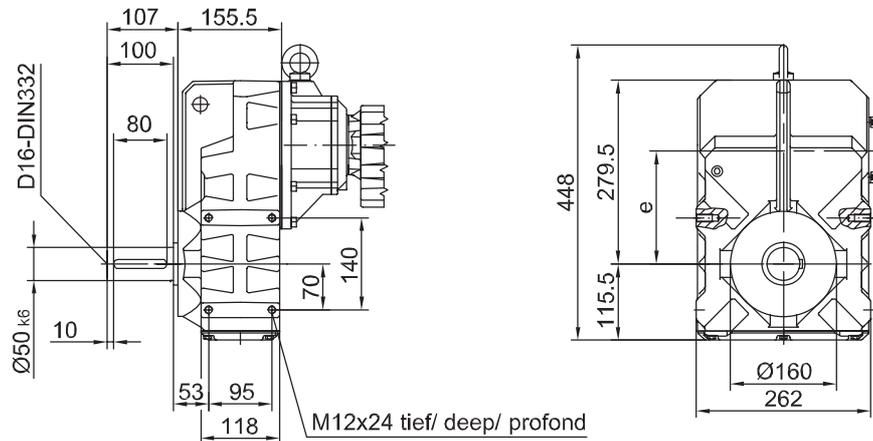


Flanschmasse/ Flange dimensions/ cotes de la bride

BF40G..	k	l	m	n	o	q	s	t
Standard/ -3./	250	215	180	16	13.5	184	4	78.5
gross/ big/ grande -4./	300	265	230	20	13.5	190	4	72.5

Fuss mit Gewindelöchern links und rechts/ foot with tapped holes left and right/
 fixation à pied avec trous taraudés à gauche et à droite

Code -6.LR/



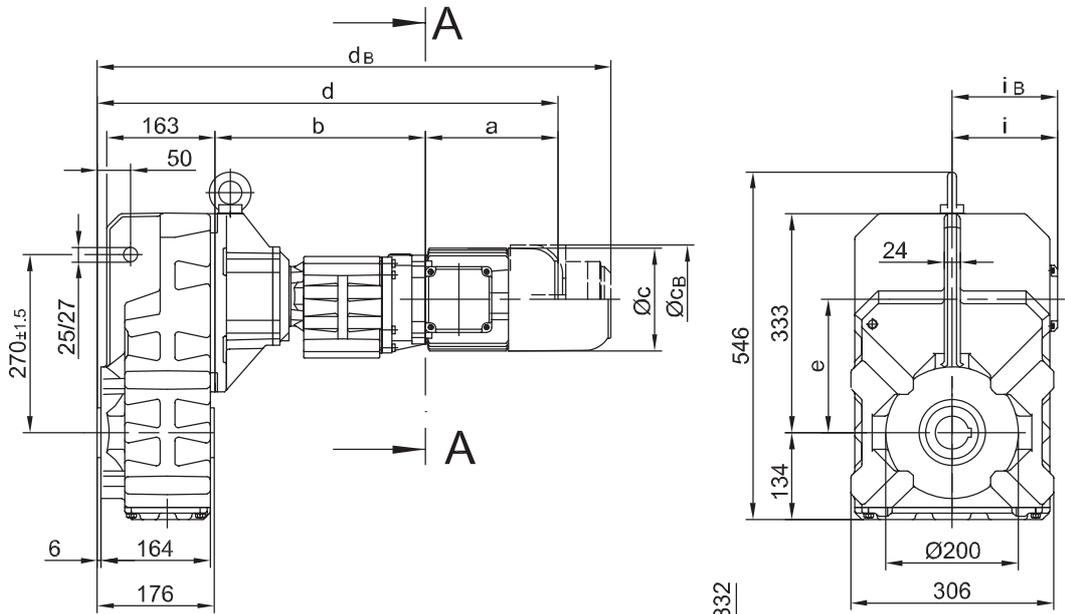
Series BF

Three-phase Shaft Mounted Geared Motors
 Drehstrom-Flach-Getriebemotoren
 Motoréducteurs triphasés plaats

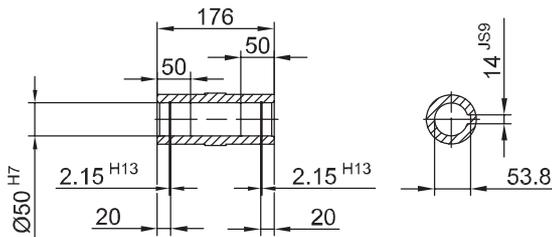
BF50G10

mit Drehmomentstütze/ with torque arm/ avec bras de réaction

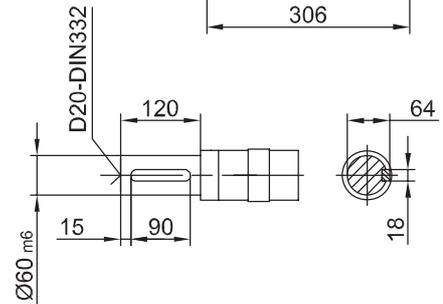
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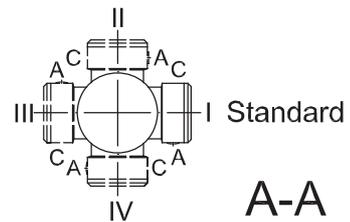
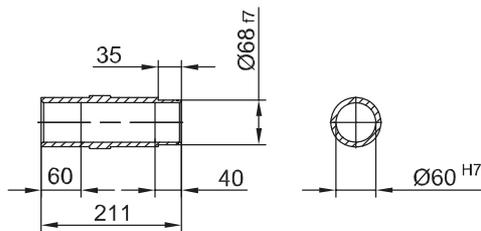
Code -4/



Code -1/



Code -5/



A-A

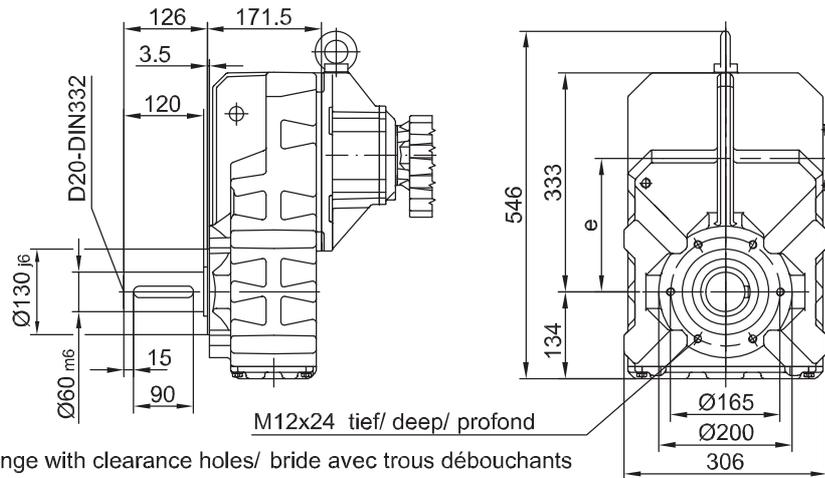
Typ/ Type/ Type	a	b	c	d	e	i	Ausführung mit Bremse/ with brake/ avec frein												
							E003		E004		E008		Z008		Z015				
							c _B	d _B	c _B	d _B	c _B	d _B	c _B	d _B	c _B	d _B			
BF50G10-../D05..	170	313	123	661	202	100	100	123	703										
BF50G10-../D06..	170	313	123	661	202	100	100	123	703										
BF50G10-../D07..	190	313	123	681	202	100	100	123	723	123	723								
BF50G10-../D08..	200	317	156	694	202	115	115					166	769						
BF50G10-../D09..	251	332	181	760	202	124	124					192	840	192	854	192	860		

Three-phase Shaft Mounted Geared Motors
 Drehstrom-Flach-Getriebemotoren
 Motoréducteurs triphasés plaats

BF50G10

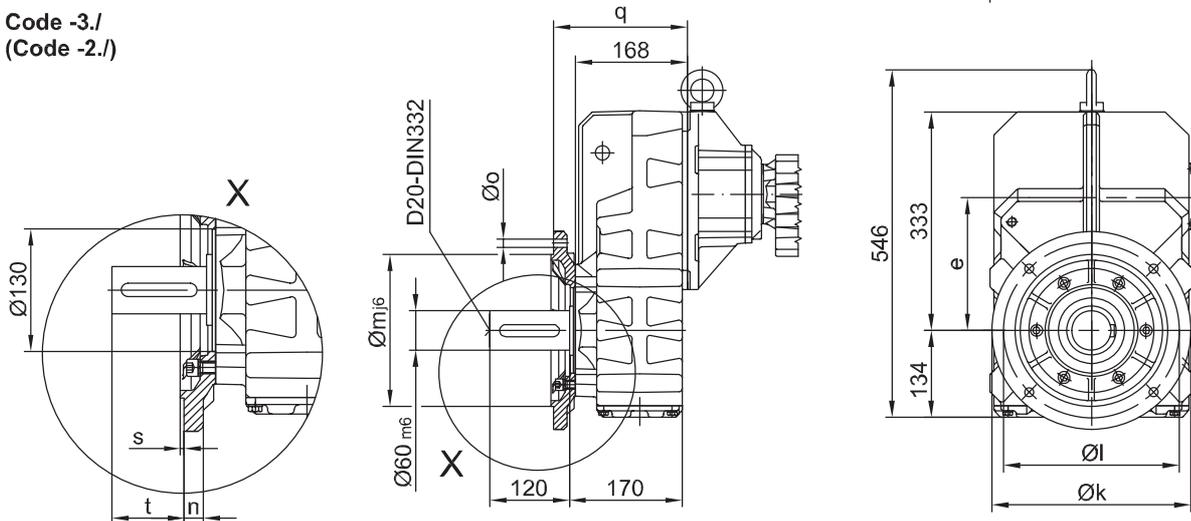
Flansch mit Gewindelöchern/
 flange with tapped holes/
 bride avec trous taraudés

Code -7./



Flansch mit Durchgangslöchern/ flange with clearance holes/ bride avec trous débouchants

Code -3./
 (Code -2./)

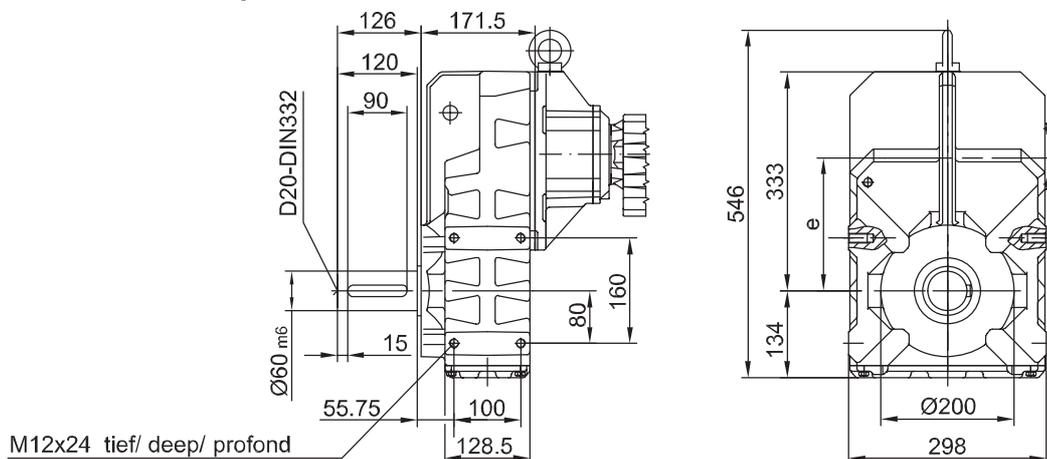


Flanschmasse/ Flange dimensions/ cotes de la bride

BF50G..	k	l	m	n	o	q	s	t
Standard/ -3./	300	265	230	20	13.5	201	4	96.5
klein/ small/ petit -2./	250	215	180	16	13.5	198	4	99.5

Fuss mit Gewindelöchern links und rechts/ foot with tapped holes left and right/
 fixation à pied avec trous taraudés à gauche et à droite

Code -6.LR/

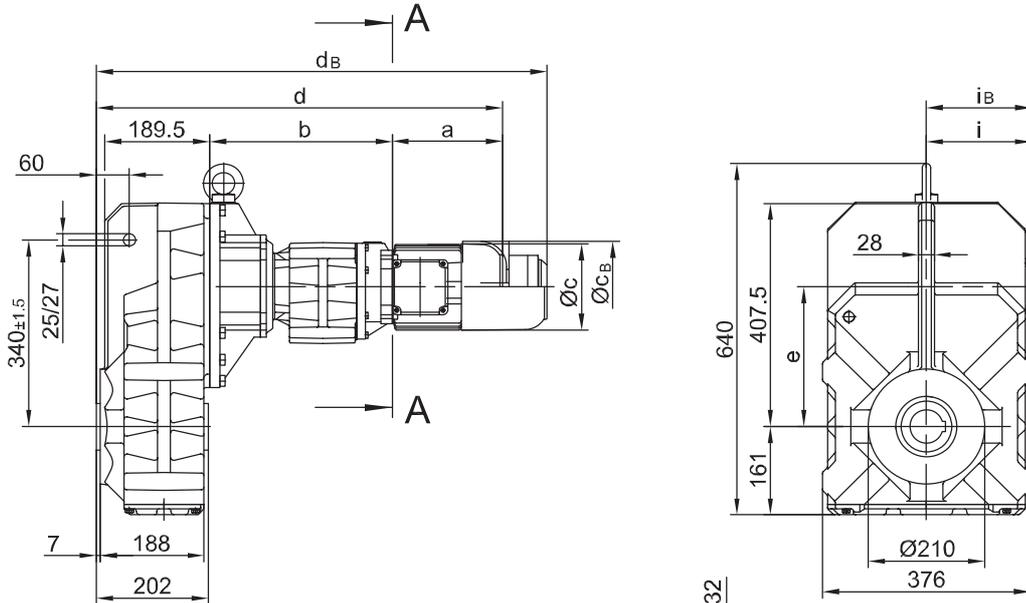


Three-phase Shaft Mounted Geared Motors
 Drehstrom-Flach-Getriebemotoren
 Motoréducteurs triphasés plaats

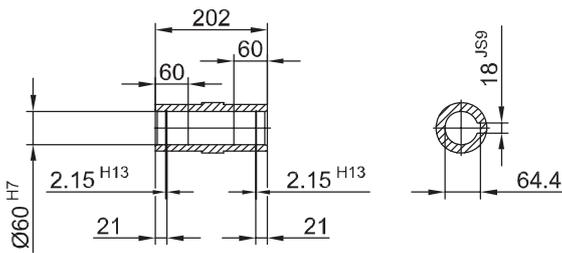
BF60G20

mit Drehmomentstütze/ with torque arm/ avec bras de réaction

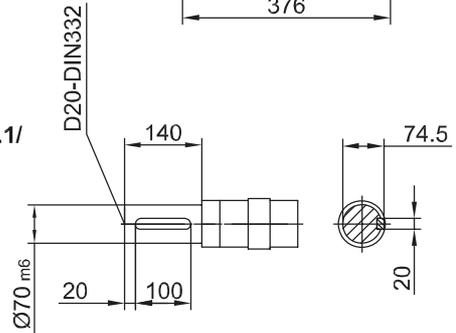
Code -0./



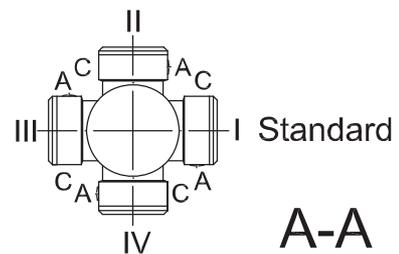
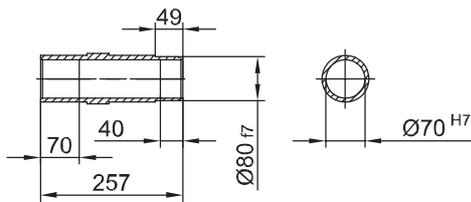
Code -4/



Code -1/



Code -5/



A-A

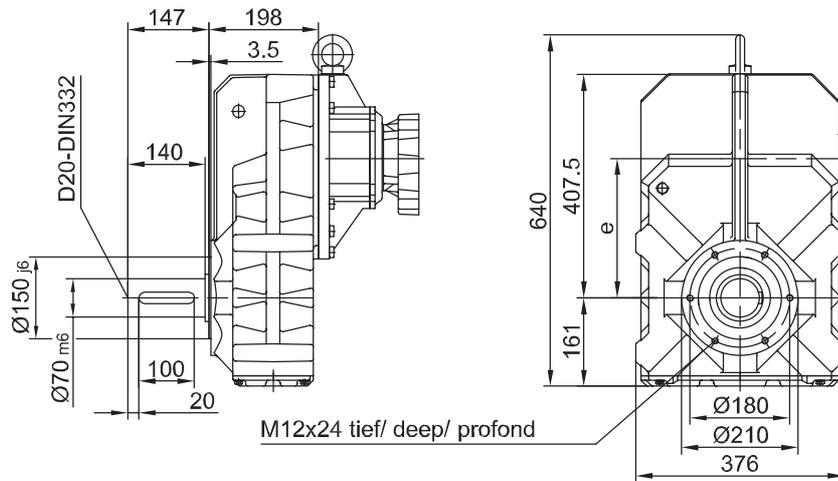
Typ/ Type/ Type	a	b	c	d	e	i	Ausführung mit Bremse/ with brake/ avec frein													
							i _B	E003		E004		E008		Z008		Z015				
								c _B	d _B											
BF60G20-../D05..	170	326	123	702	254	100	100	123	744											
BF60G20-../D06..	170	326	123	702	254	100	100	123	744											
BF60G20-../D07..	190	326	123	722	254	100	100	123	764	123	764									
BF60G20-../D08..	200	330	156	735	254	115	115					166	810							
BF60G20-../D09..	251	344.5	181	800	254	124	124					192	880	192	894	192	900			

Three-phase Shaft Mounted Geared Motors
 Drehstrom-Flach-Getriebemotoren
 Motoréducteurs triphasés plaats

BF60G20

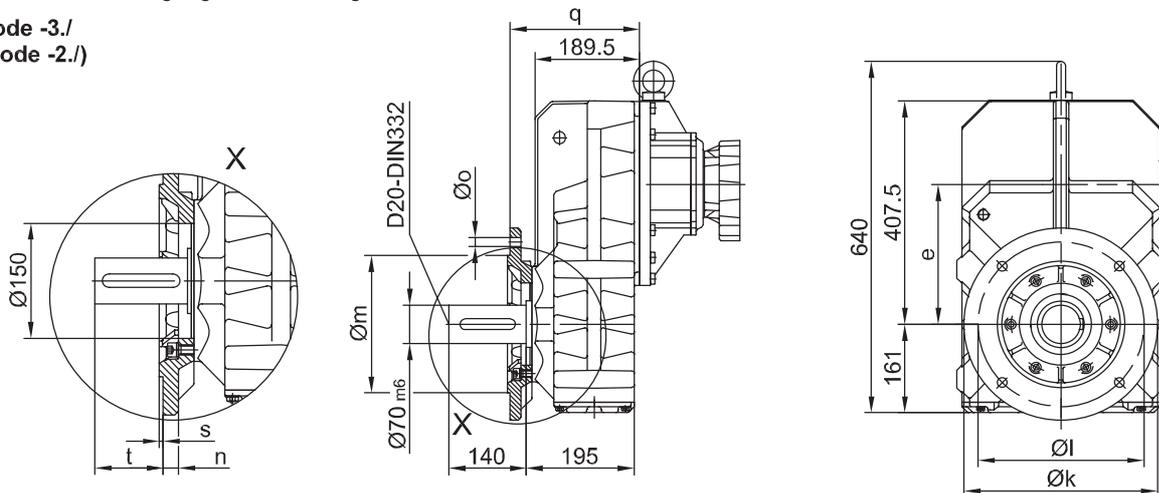
Flansch mit Gewindelöchern/
 flange with tapped holes/
 bride avec trous taraudés

Code -7./



Flansch mit Durchgangslöchern/ flange with clearance holes/ bride avec trous débouchants

Code -3./
 (Code -2./)

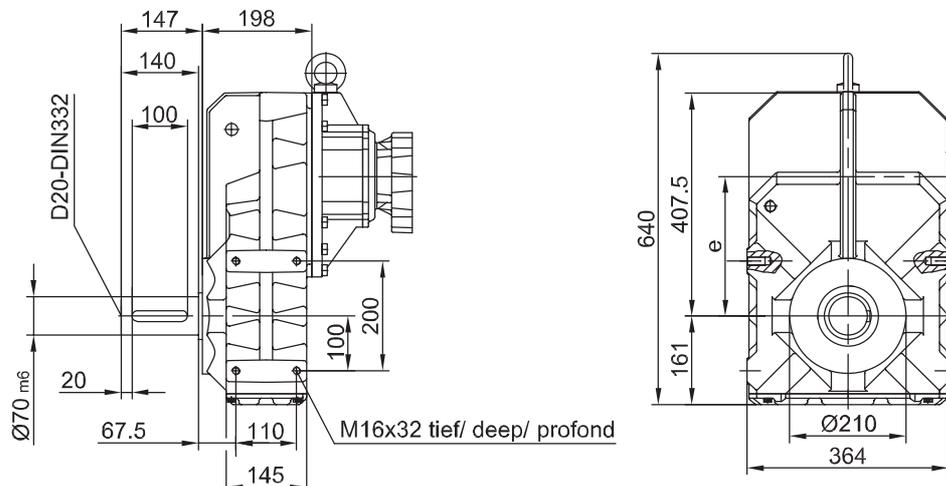


Flanschmasse/ Flange dimensions/ cotes de la bride

BF60G..	k	l	m	n	o	q	s	t
Standard/ -3./	350	300	250h6	20	17.5	234.5	5	110.5
klein/ small/ petit -2./	300	265	230j6	20	13.5	242.5	4	102.5

Fuss mit Gewindelöchern links und rechts/ foot with tapped holes left and right/
 fixation à pied avec trous taraudés à gauche et à droite

Code -6.LR/



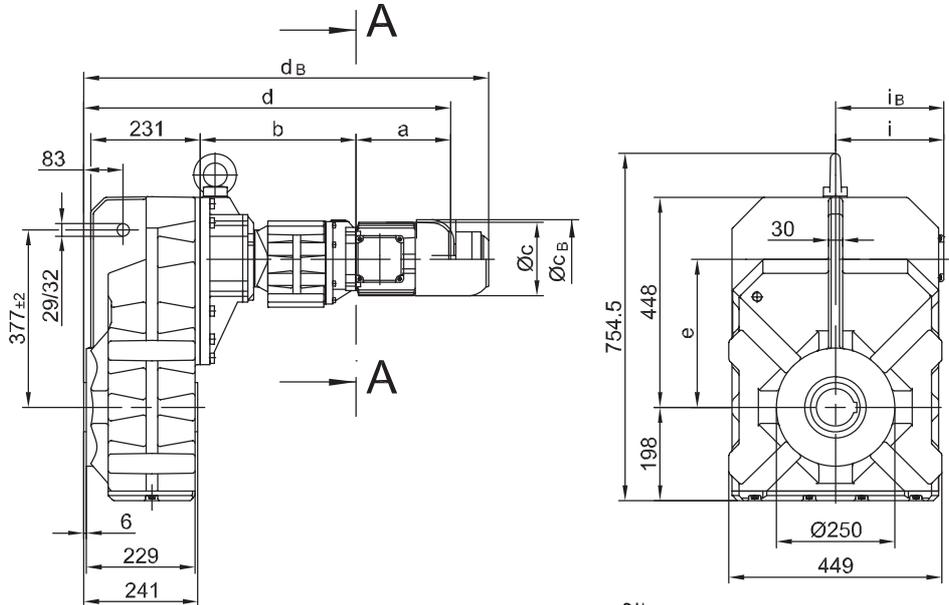
Series BF

Three-phase Shaft Mounted Geared Motors
 Drehstrom-Flach-Getriebemotoren
 Motoréducteurs triphasés plaats

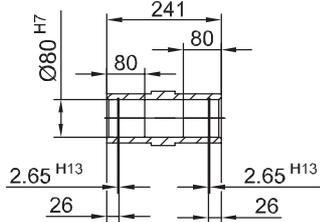
BF70G20

mit Drehmomentstütze/ with torque arm/ avec bras de réaction

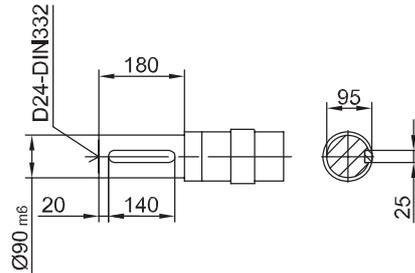
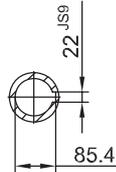
Code -0./



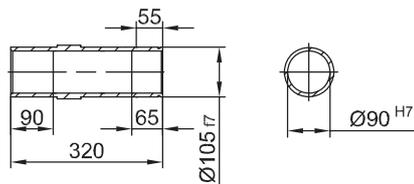
Code -4/



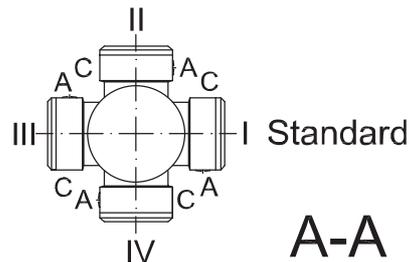
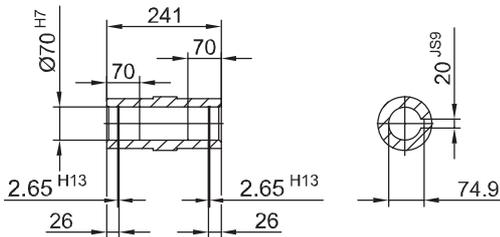
Code -1/



Code -5/



Code -4/K70



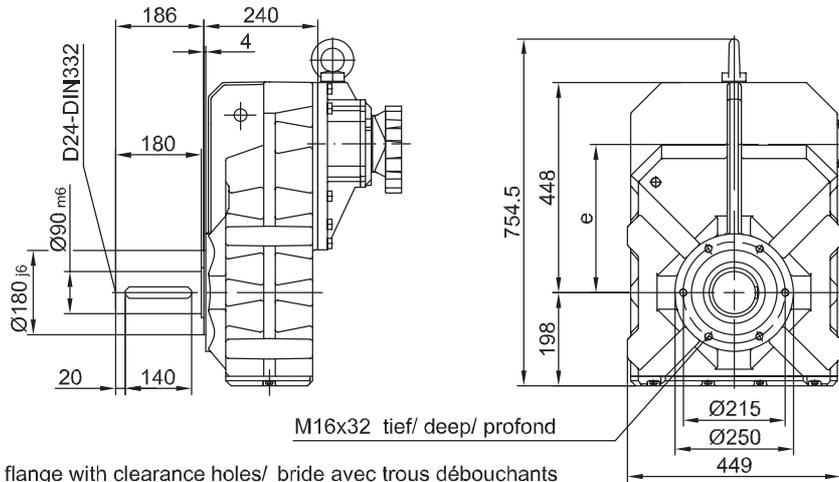
Typ/ Type/ Type	a	b	c	d	e	i	Ausführung mit Bremse/ with brake/ avec frein													
							i _B	E003		E004	E008		Z008		Z015					
								c _B	d _B											
BF70G20-../D05..	170	324	123	741	315	100	100	123	783											
BF70G20-../D06..	170	324	123	741	315	100	100	123	783											
BF70G20-../D07..	190	324	123	761	335	100	100	123	803	123	803									
BF70G20-../D08..	200	328	156	775	315	115	115					166	849							
BF70G20-../D09..	251	342.5	181	839	315	124	124					192	919	192	933	192	939			

Three-phase Shaft Mounted Geared Motors
 Drehstrom-Flach-Getriebemotoren
 Motorréducteurs triphasés plaats

BF70G20

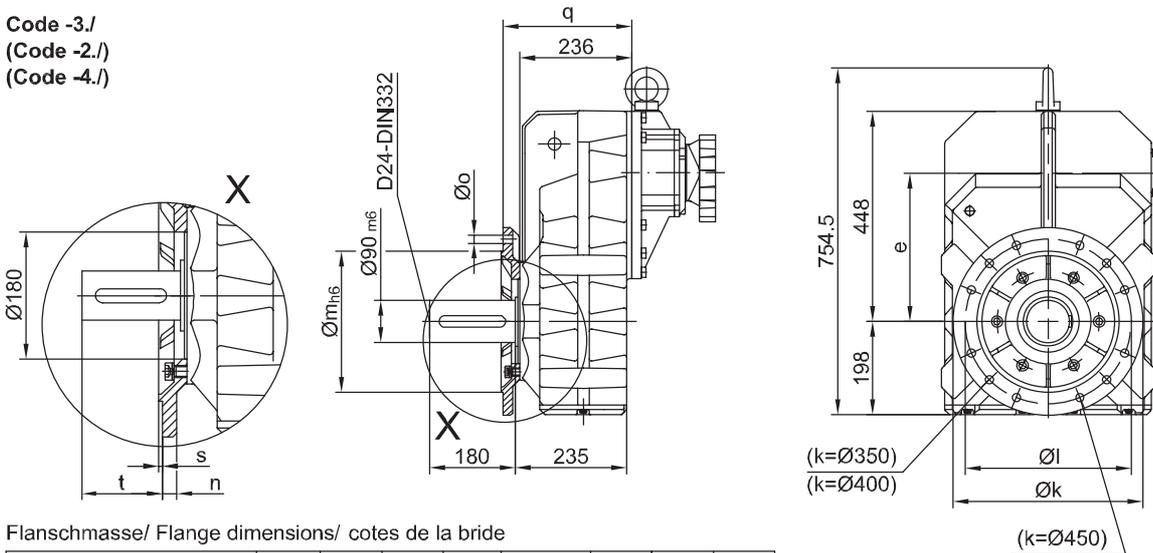
Flansch mit Gewindelöchern/
 flange with tapped holes/
 bride avec trous taraudés

Code -7./



Flansch mit Durchgangslöchern/ flange with clearance holes/ bride avec trous débouchants

Code -3./
 (Code -2./)
 (Code -4./)

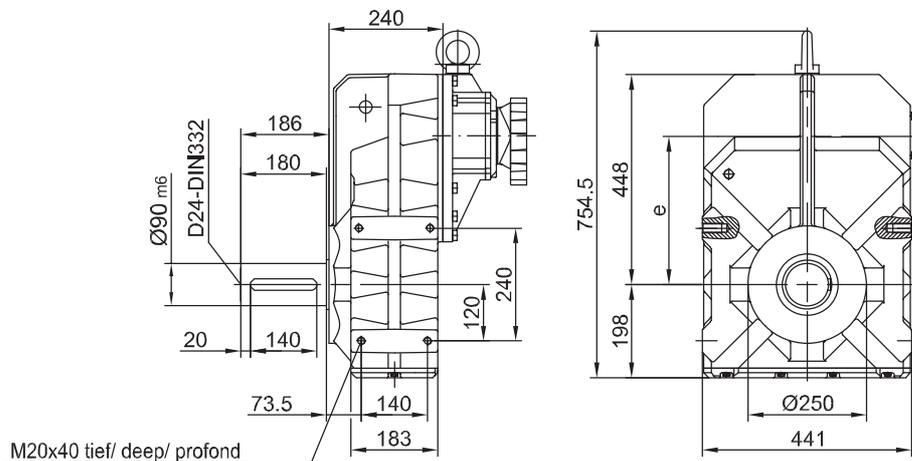


Flanschmasse/ Flange dimensions/ cotes de la bride

BF70G..	k	l	m	n	o	q	s	t
Standard/ -3./	400	350	300	20	4x17.5	271	5	155
klein/ small/ petit -2./	350	300	250	20	4x17.5	271	5	155
gross/ big/ grande -4./	450	400	350	22	8x17.5	281	5	145

Fuss mit Gewindelöchern links und rechts/ foot with tapped holes left and right/
 fixation à pied avec trous taraudés à gauche et à droite

Code -6.LR/

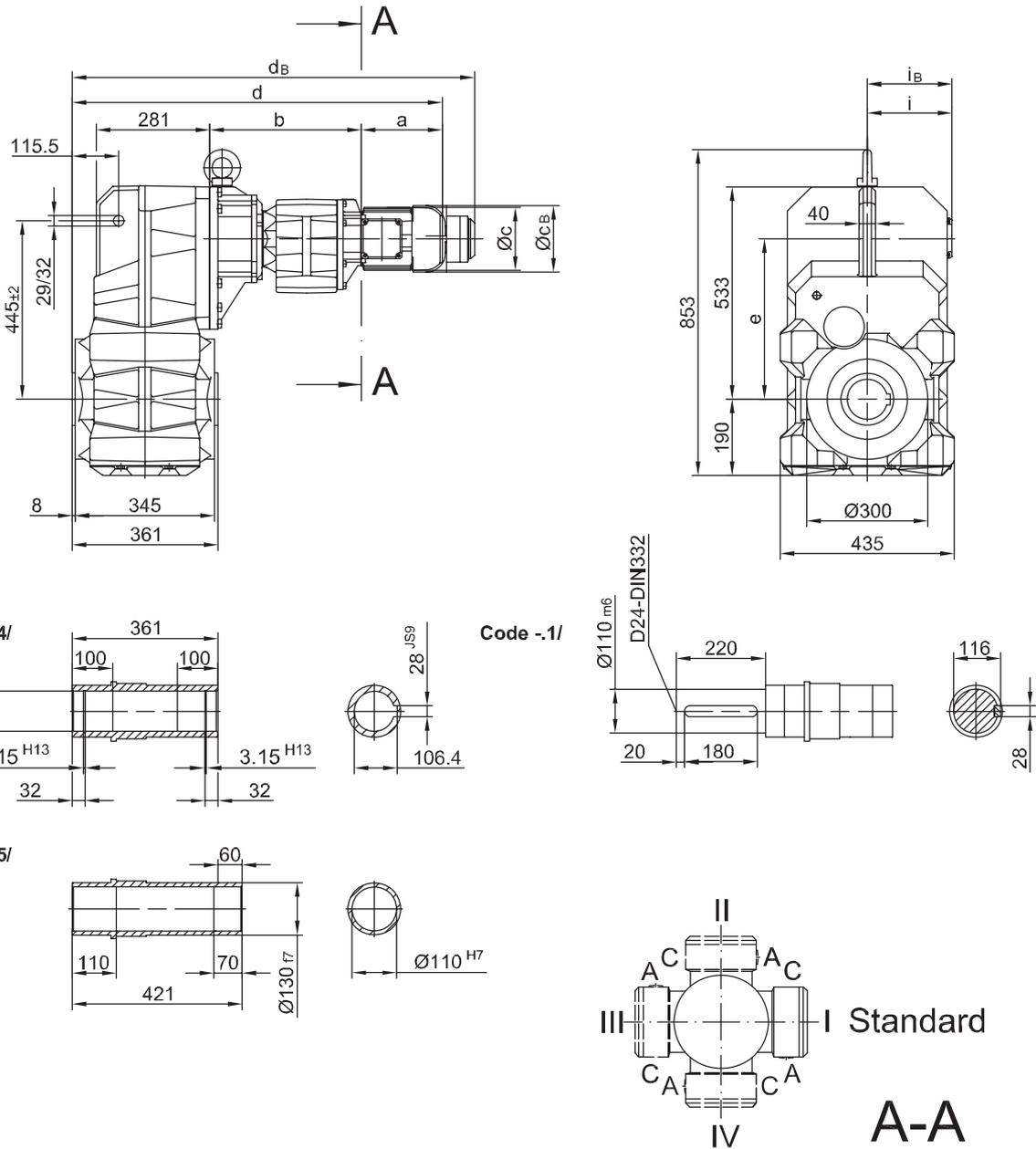


Three-phase Shaft Mounted Geared Motors
 Drehstrom-Flach-Getriebemotoren
 Motoréducteurs triphasés plaats

BF80G40

mit Drehmomentstütze/ with torque arm/ avec bras de réaction

Code -0./



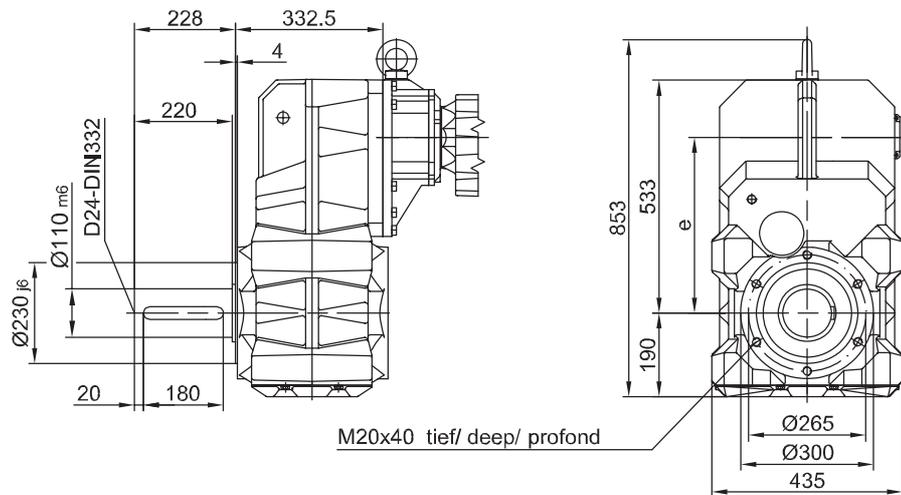
Typ/ Type/ Type	a	b	c	d	e	i	Ausführung mit Bremse/ with brake/ avec frein										
							i_B	E008		Z008		Z015		E075			
								c_B	d_B	c_B	d_B	c_B	d_B	c_B	d_B		
BF80G40-.../D08..	200	376	156	916	400	115	115	166	991								
BF80G40-.../D09..	251	390.5	181	982	400	124	124	192	1061	192	1075	192	1081				
BF80G40-.../D11..	319	397	228	1057	400	181	181					231	1159	231	1188		

Three-phase Shaft Mounted Geared Motors
 Drehstrom-Flach-Getriebemotoren
 Motoréducteurs triphasés plaats

BF80G40

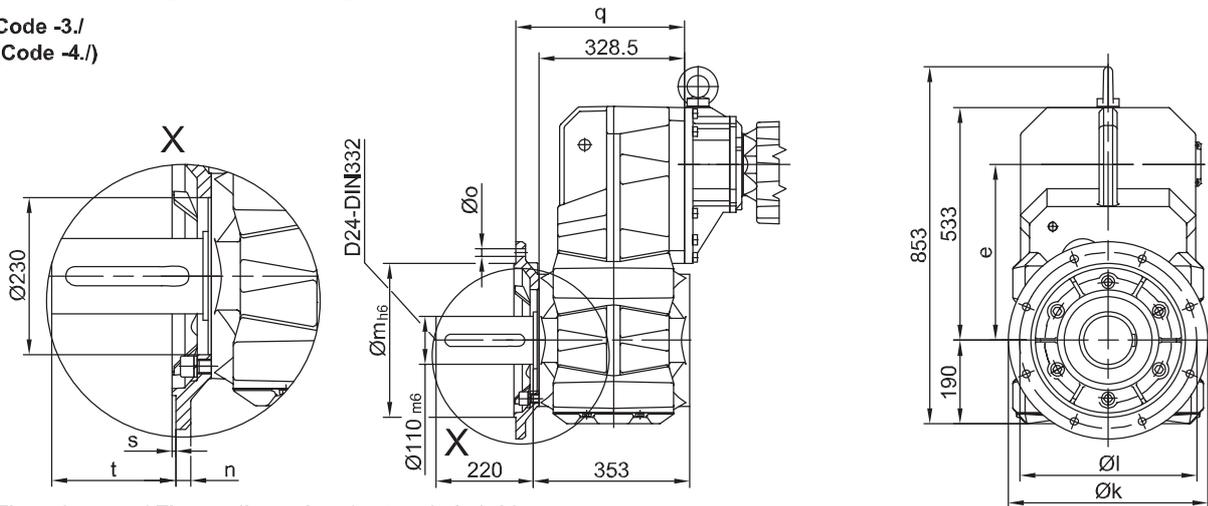
Flansch mit Gewindelöchern/
 flange with tapped holes/
 bride avec trous taraudés

Code -7./



Flansch mit Durchgangslöchern/ flange with clearance holes/ bride avec trous débouchants

Code -3./
 (Code -4./)

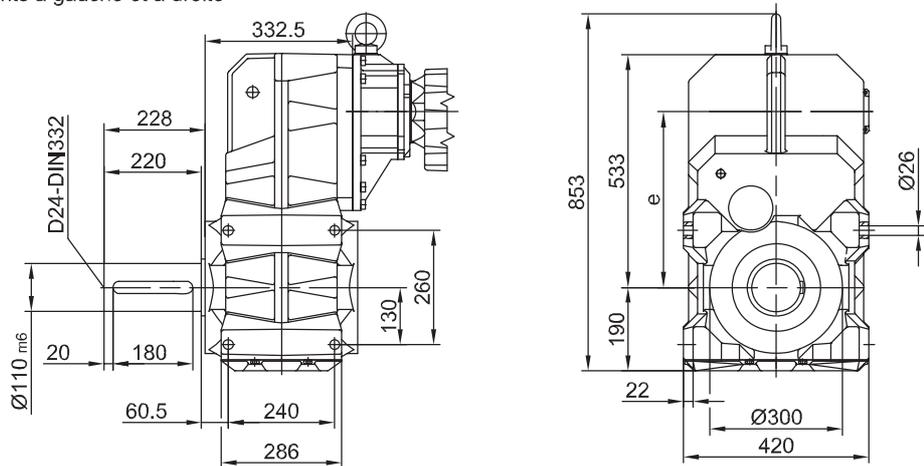


Flanschmasse/ Flange dimensions/ cotes de la bride

BF80G..	k	l	m	n	o	q	s	t
Standard/ -3./	450	400	350	22	17.5	383.5	5	177
gross/ big/ grande -4./	550	500	450	22	17.5	388.5	5	172

Fuss mit Durchgangslöchern links und rechts/ foot with clearance holes left and right/
 fixation à pied avec trous débouchants à gauche et à droite

Code -1.LR/

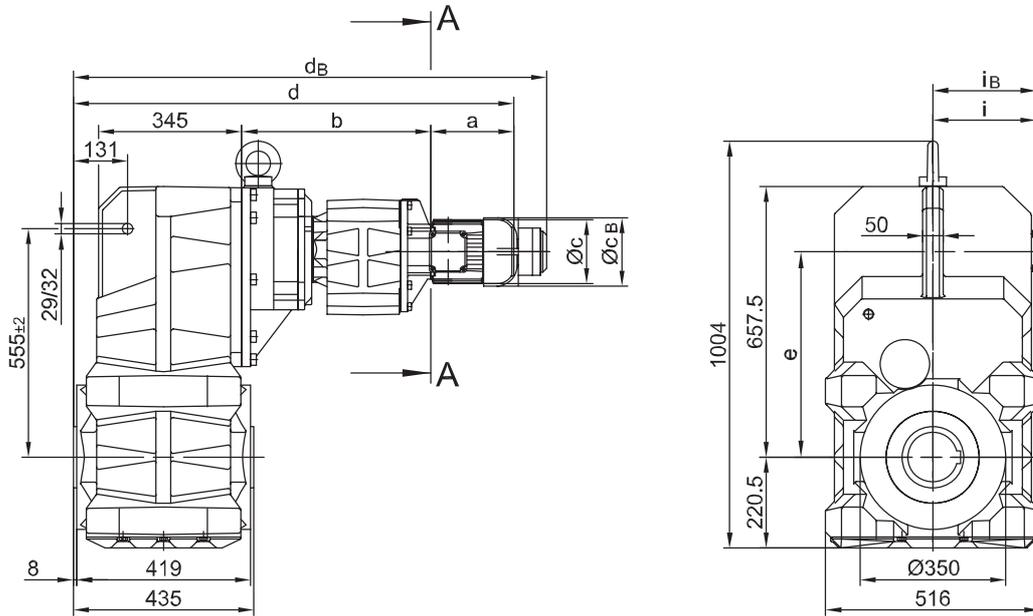


Three-phase Shaft Mounted Geared Motors
 Drehstrom-Flach-Getriebemotoren
 Motoréducteurs triphasés plaats

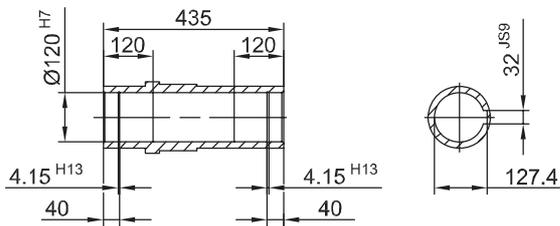
BF90G50

mit Drehmomentstütze/ with torque arm/ avec bras de réaction

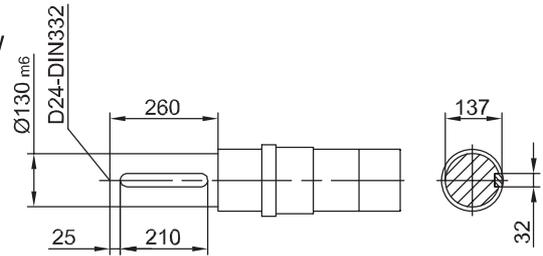
Code -0/



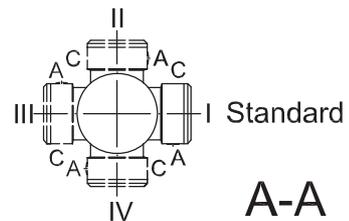
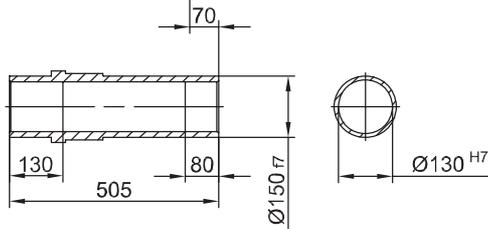
Code -4/



Code -1/



Code -5/



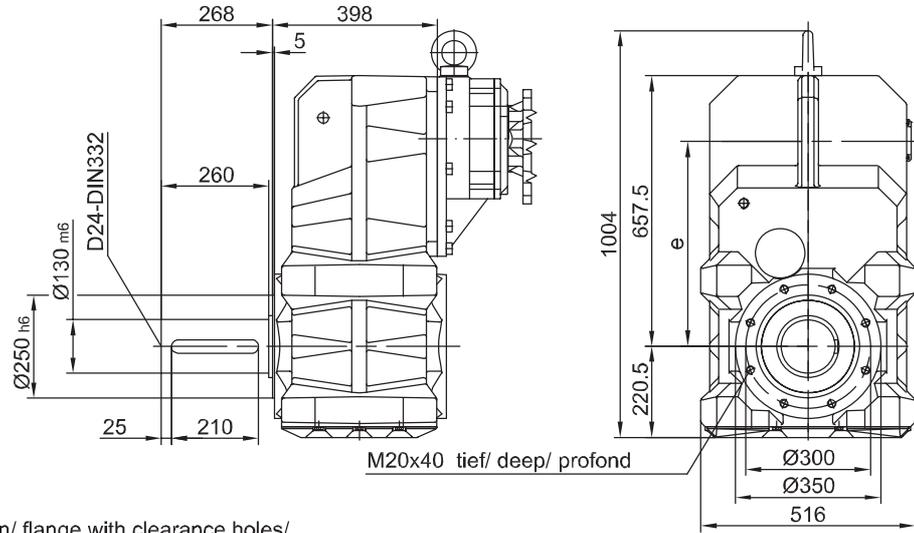
Typ/ Type/ Type	a	b	c	d	e	i	Ausführung mit Bremse/ with brake/ avec frein													
							i _B	E008		Z008		Z015		E075		Z075		Z100		
								c _B	d _B											
BF90G50-../D08..	200	456	156	1062	503	136	150	166	1137											
BF90G50-../D09..	251	470.5	181	1127	499	164	167	192	1207	192	1221	192	1227							
BF90G50-../D11..	319	477	228	1202	499	181	181					231	1305	231	1335					
BF90G50-../D13..	393	490	266	1289	499	217	217							277	1424	277	1443			
BF90G50-../D16..	429	504	322	1339	499	243	243							326	1472	326	1491	326	1511	

Three-phase Shaft Mounted Geared Motors
 Drehstrom-Flach-Getriebemotoren
 Motoréducteurs triphasés plaats

BF90G50

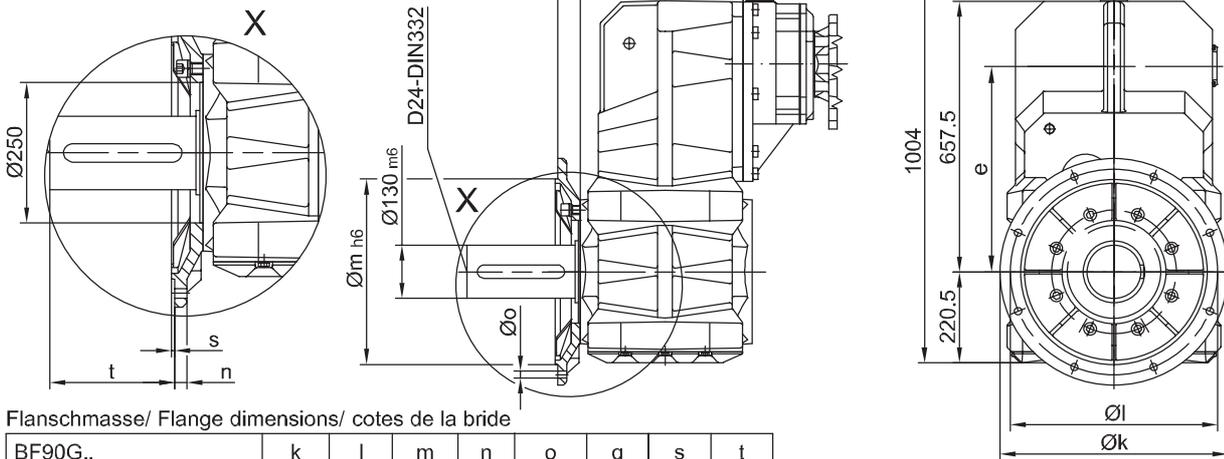
Flansch mit Gewindelöchern/
 flange with tapped holes/
 bride avec trous taraudés

Code -7./



Flansch mit Durchgangslöchern/ flange with clearance holes/
 bride avec trous débouchants

Code -3./
 (Code -4./)

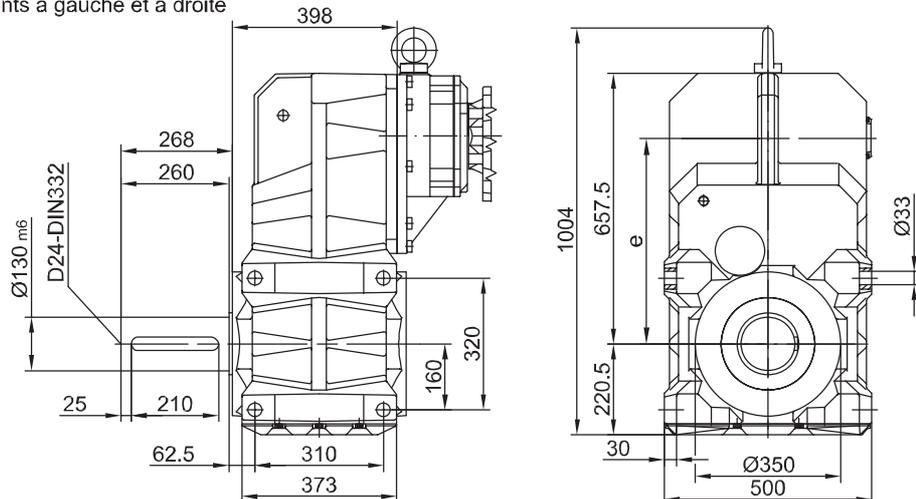


Flanschmasse/ Flange dimensions/ cotes de la bride

BF90G..	k	l	m	n	o	q	s	t
Standard/ -3./	550	500	450	22	17.5	448	5	218
gross/ big/ grande -4./	660	600	550	25	22	442	6	224

Fuss mit Durchgangslöchern links und rechts/ foot with clearance holes left and right/
 fixation à pied avec trous débouchants à gauche et à droite

Code -1.LR/



Series BF

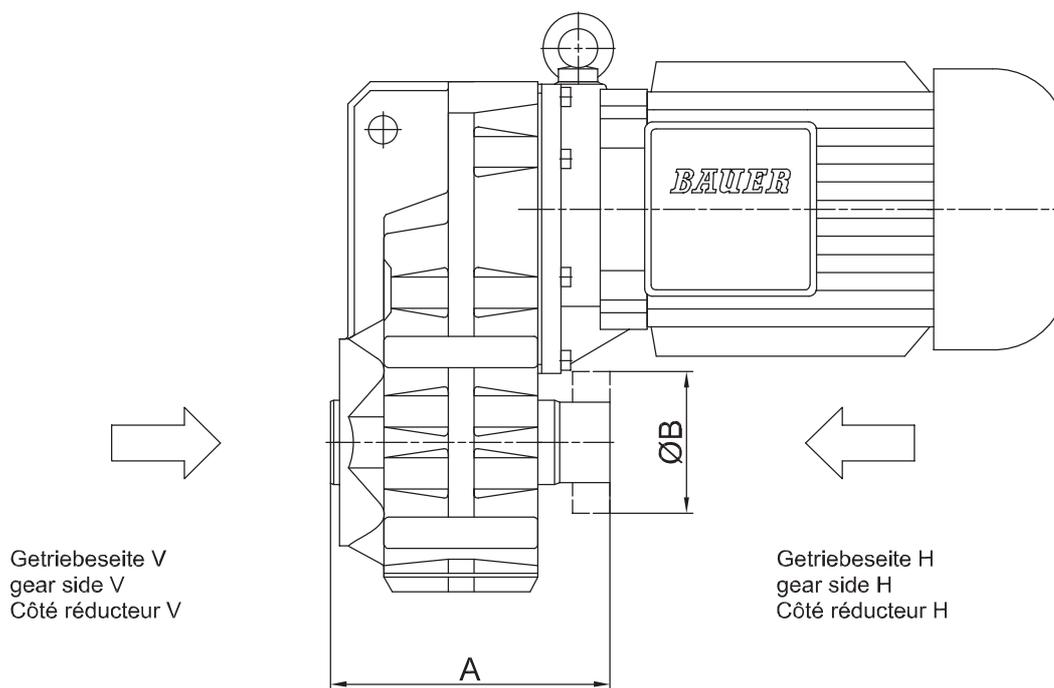
11.4 Accessories for shaft-mounted geared motors

11.4.1 Shrink disc couplings

11.4.1.1

Geared motor with SSV shrink disc

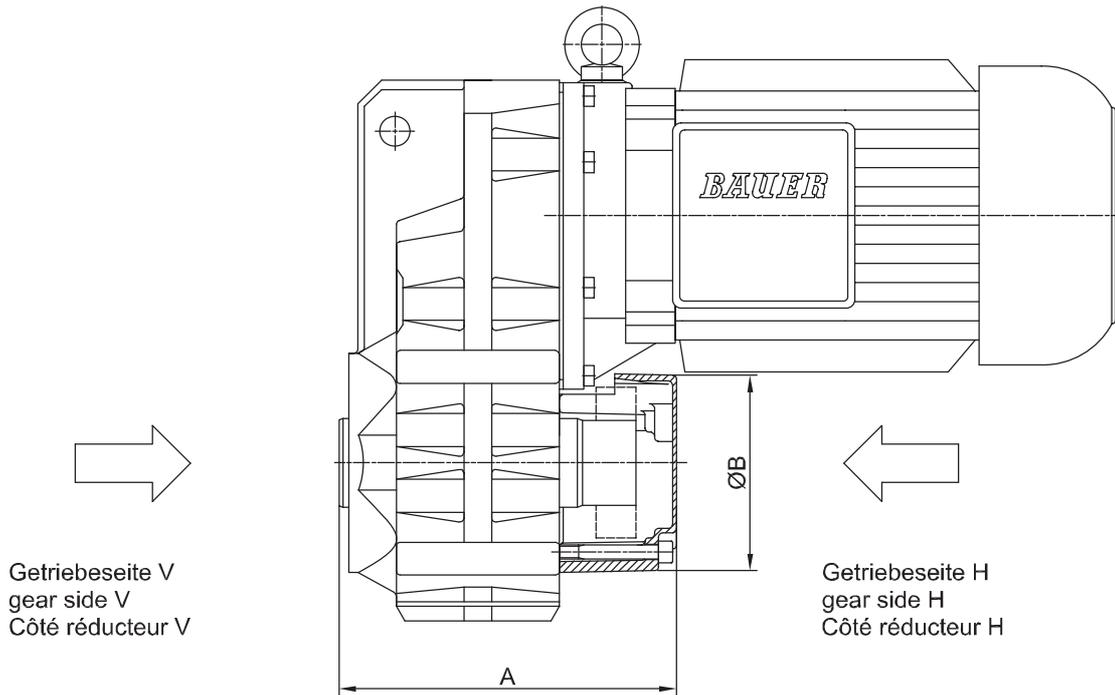
(Code BF10-.5/...)
(Code BF10Z-.5/...)



Typ/ Type/ Type	SSV Gerwah	SSV STÜWE	A	B
BF10	PSV5001 36x72	HSD 36-22x36	153	72
BF20	PSV5001 44x80	HSD 44-22x44	173	80
BF30	PSV5001 50x90	HSD 50-22x50	192	90
BF40	PSV5001 62x110	HSD 62-22x62	215	110
BF50	PSV5001 68x115	HSD 68-22x68	211	115
BF60	PSV5001 80x141	HSD 80-22x80	257	140
BF70	PSV5001 110x185	HSD 110-22x105	320	185
BF80	PSV5001 125x215	HSD 125-22x130	421	215
BF90	PSV5001 155x263	HSD 155-22x150	505	263

11.4.1.2
Geared motor with SSV cover

(Code BF10-.5A/...)
(Code BF10Z-.5A/...)

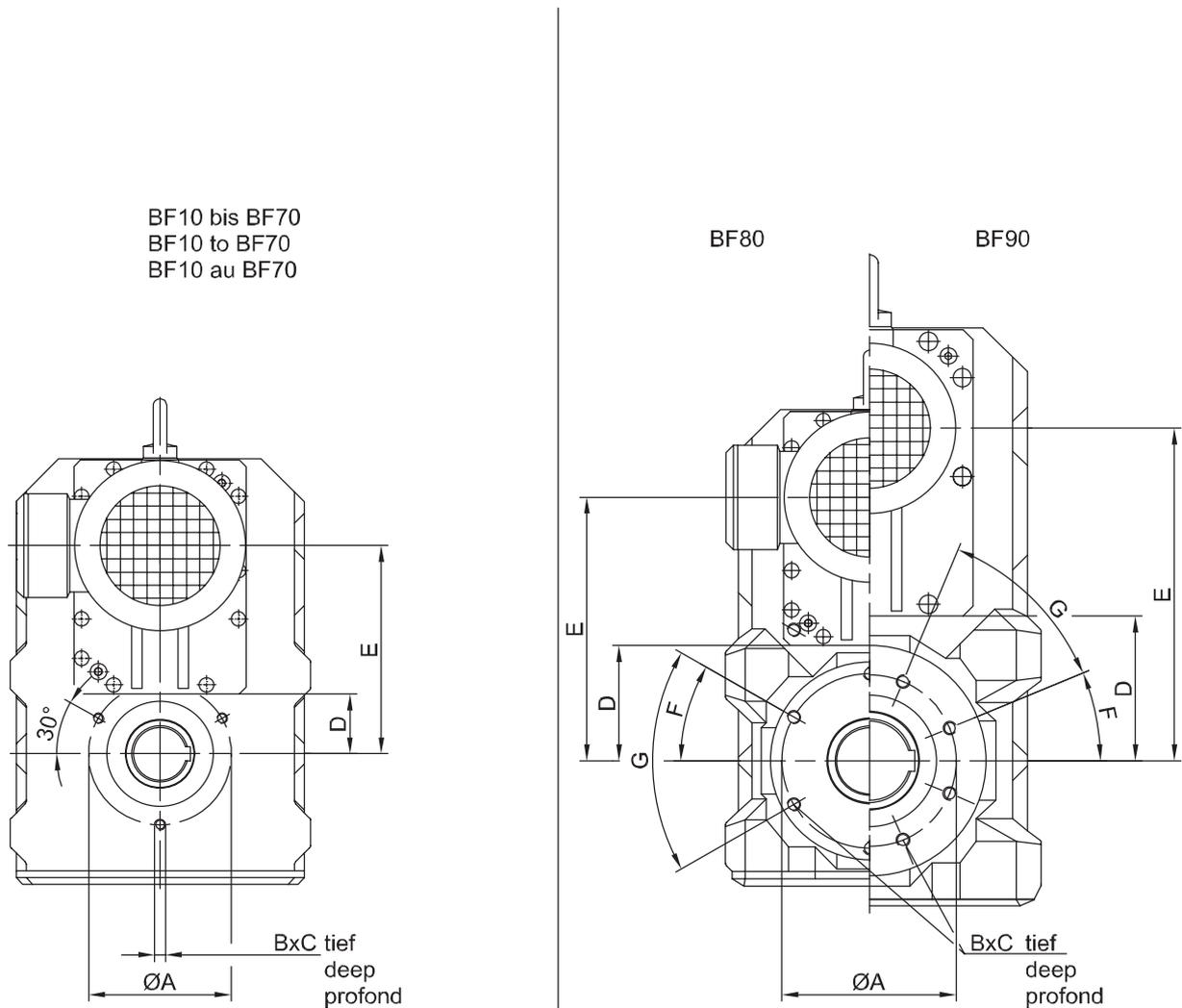


Typ/ Type/ Type	SSV Gerwah	SSV STÜWE	A	B
BF10	PSV5001 36x72	HSD 36-22x36	174	120
BF20	PSV5001 44x80	HSD 44-22x44	211	140
BF30	PSV5001 50x90	HSD 50-22x50	223	140
BF40	PSV5001 62x110	HSD 62-22x62	245	160
BF50	PSV5001 68x115	HSD 68-22x68	227	200
BF60	PSV5001 80x141	HSD 80-22x80	290	210
BF70	PSV5001 110x185	HSD 110-22x105	359	250
BF80	PSV5001 125x215	HSD 125-22x130	463	300
BF90	PSV5001 155x263	HSD 155-22x150	557	350

Series BF

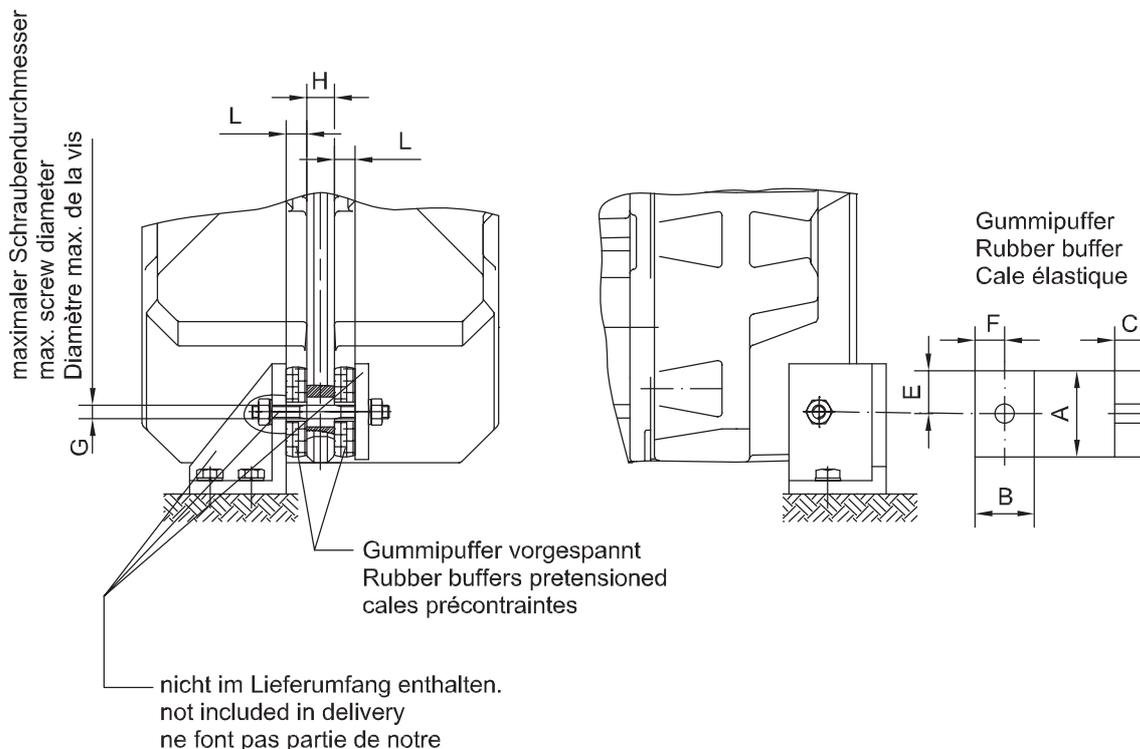
11.4.1.3

Geared motor with SSV shrink disc,
bore illustration gear side H



Getriebe Gear Réducteur	Maße (mm) Dimensions (mm) Dimensions (mm)						
	A	B	C	D	E	F	G
BF10	100	M8	16	35	118	-	-
BF20	115	M10	20	39	136	-	-
BF30	115	M10	20	44	157	-	-
BF40	130	M10	20	52	180.5	-	-
BF50	165	M12	24	60	207	-	-
BF60	180	M12	24	69	255.5	-	-
BF70	215	M16	32	89	316	-	-
BF80	265	M20	40	173	400	30°	6x60°
BF90	300	M20	40	219	504.5	22.5°	8x45°

11.4.2 Rubber buffer for torque restraint



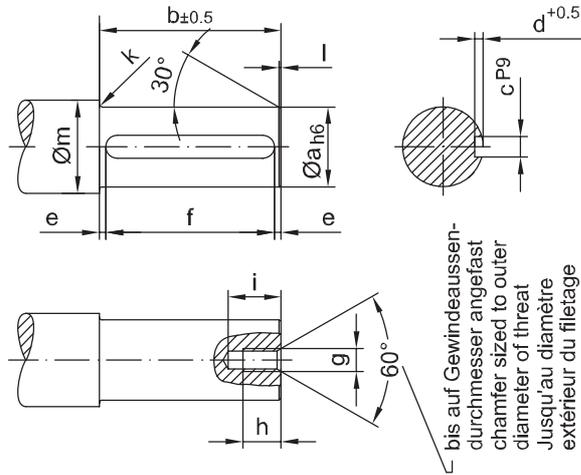
Werkstoff: Naturkautschuk
 Härte 50 ±5 Shore A
 Material: Natural rubber
 Hardness 50 ±5 Shore A
 Matière: Caoutchouc naturel
 Dureté 50 ±5 Shore A

Abmessungen des Querlochs:
 Siehe Maßbild des jeweiligen Getriebes
 Dimensions of the transverse hole:
 see dimensioned sketch of the respective
 shaft mounted gearbox
 Dimensions du trou transversal
 consulter les croquis cotés
 des réducteurs respectifs

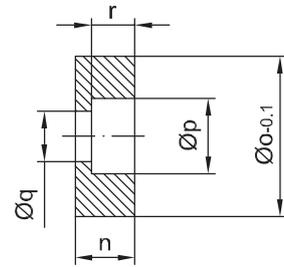
Getriebe Gear Réducteur	Pos.	Maße (mm) Dimensions (mm) Dimensions (mm)								
		A	B	C	D	E	F	G	H	L
BF06	Pos.0	30	30	12	12	15	15	M10	16	10
BF10	Pos.1	48	32	15	14	24	16	M10	16	13.5
BF20	Pos.1	48	32	15	14	24	16	M10	18	13
BF30	Pos.2	63	43	20	14	31.5	21.5	M10	18	17
BF40	Pos.2	63	43	20	14	31.5	21.5	M10	20	16.5
BF50	Pos.3	88	60	25	22	44	30	M18	24	21.5
BF60	Pos.3	88	60	25	22	44	30	M18	28	21
BF70	Pos.4	123	88	30	26	61.5	44	M20	30	25.5
BF80	Pos.5	133	103	35	26	66.5	51.5	M20	40	30
BF90	Pos.5	133	103	35	26	66.5	51.5	M20	50	29.5

11.4.3 Tools for fitting shaft-mounted gear with hollow shaft and keyway

Pos.1 Wellenzapfen/ shaft/ arbre



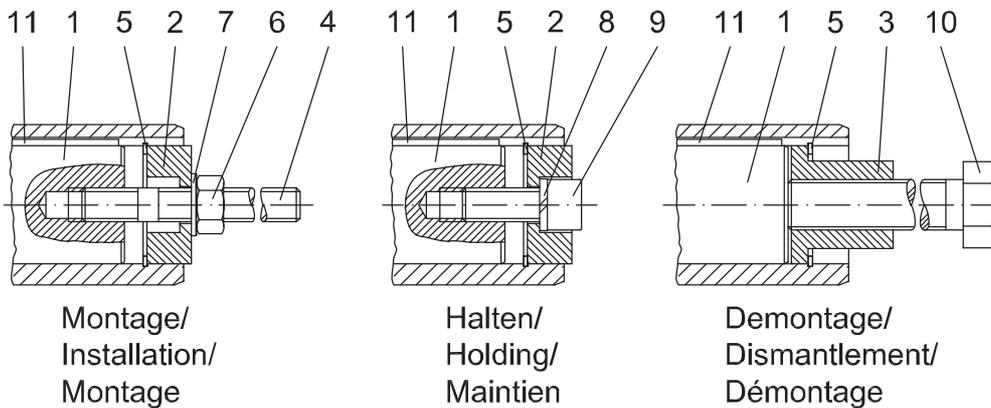
* Pos.2 Scheibe/ disc/ rondelle



✓^x, Kanten gebrochen/ edges cut/ chanfrein

Werkstoff/ material/ Matière :
C45 DIN 17200

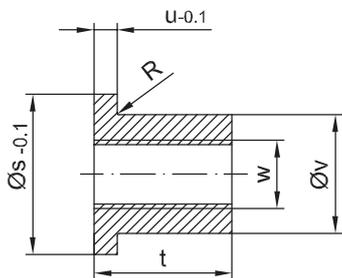
Typ Type Type	Masse/ dimensions/ cotes																
	Pos.1 Wellenzapfen/ shaft/ arbre												Pos.2 Scheibe/ disc/ rondelle				
	a	b	c	d	e	f	g	h	i	k	l	m	n	o	p	q	r
BF06	25	70	8	4	3.5	63 ^{+0.5}	M8	18	24	2	1.5	33	13.5	24.8	15	9	8.5
BF10	25	102	8	4	6	90 ^{+0.5}	M8	18	24	2.5	1.5	33	13.5	24.8	15	9	8.5
BF20	30	108	8	4	9	90 ^{+0.5}	M10	20	26	3	1.5	38	15	29.8	18	11	10
BF30	35	118	10	5	9	100 ^{+0.5}	M10	20	26	3	1.5	43	16	34.8	18	11	10
BF40	40	141	12	5	8	125 ^{+0.5}	M12	22	29	3	2	48	18	39.8	20	13.5	12
BF50	50	148	14	5.5	11.5	125 ^{+0.5}	M16	30	37	3.5	2	58	21	49.8	26	17.5	15
BF60	60	173	18	7	6.5	160 ^{+0.5}	M20	38	46	3.5	2	68	24	59.8	33	22	18
BF70	80	205	22	9	12.5	180 ^{+0.5}	M20	38	46	4	2	90	27	79.8	33	22	20
BF70-K70	70	205	20	7.5	12.5	180 ^{+0.5}	M20	38	46	4	2	90	27	69.8	33	22	20
BF80	100	317	28	10	18.5	280 ^{+0.5}	M24	45	54	4	3	110	32	99.8	40	26	25
BF90	120	383	32	11	11.5	360 ^{+0.5}	M24	45	54	4.5	3	130	35	119.8	40	26	28



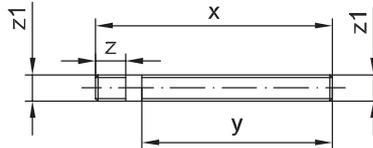
Die dargestellten Teile werden zur Montage benötigt. NUR *gekennzeichnete Teile sind im Montagehilfeset enthalten.
The parts shown are necessary for assembly. ONLY * specified parts are enclosed in the assembly kit.

Les pièces montrées ne sont pas de notre fourniture. SEULES celles marquées * sont disponibles dans le kit de montage.

Pos.3 Hülse/ sleeve/ Entretoise



Pos.4 Gewindebolzen/ stud bolt
Tige filetée



Werkstoff: Stahl, Zugfestigkeit $\geq 1000\text{N/mm}^2$
 Gewinde gerollt
 Material: Steel, tensile strength $\geq 1000\text{N/mm}^2$
 threads rolled
 Matière: acier, résistant à la traction $\geq 1000\text{N/mm}^2$
 Filetage roulé

✓, Kanten gebrochen/ edges cut/ chanfrein
 Werkstoff/ material/ Matière: C45 DIN 17200

Typ Type Type	Masse/ dimensions/ Dimensions(mm)										* Sicherungsring DIN 472 retainer ring circularis	Sechskantmutter DIN 934-8 hexagon nut Ecou 6 parts	Scheibe DIN 125-St disc Rondelle	Federring DIN 7980 lock washer Rondelle élastique	* Zylinderschraube DIN 912-8.8 Fillister head screw V/s	Sechskantschraube DIN EN 24017-8.8 hexagon bolt V/s tête hexagonale	Passfedern DIN 6885 key Clavette							
	Pos.3 Hülse/ sleeve/ Entretoise						Pos.4 Gewindebolzen stud bolt / Tige filetée											Pos.5	Pos.6	Pos.7	Pos.8	Pos.9	Pos.10	Pos.11
	s	t	u	v	w	R	x	y	z	z1														
BF06	24.8	24	5	15.4	M12	0.8	160	130	20	M8	25x1.2	M8	8.4	8	M8x30	M12x110	A 8x7x63							
BF10	24.8	24	5	15.4	M12	0.8	160	130	20	M8	25x1.2	M8	8.4	8	M8x30	M12x140	A 8x7x90							
BF20	29.8	28	5	19.8	M14	0.8	170	135	23	M10	30x1.2	M10	10.5	10	M10x30	M14x150	A 8x7x90							
BF30	34.8	28	5	23	M14	-	180	145	23	M10	35x1.5	M10	10.5	10	M10x35	M14x160	A 10x8x100							
BF40	39.8	40	6	27.7	M20	0.8	210	170	28	M12	40x1.75	M12	13	12	M12x35	M20x200	A 12x8x125							
BF50	49.8	48	6	36	M24	-	230	175	37	M16	50x2.0	M16	17	16	M16x40	M24x210	A 14x9x125							
BF60	59.8	60	6	44	M30	-	270	205	45	M20	60x2.0	M20	21	20	M20x50	M30x250	A 18x11x160							
BF70	79.8	60	8	55	M30	-	310	240	45	M20	80x2.5	M20	21	20	M20x50	M30x280	A 22x14x180							
BF70-K70	69.8	60	8	53	M30	-	310	240	45	M20	70x2.5	M20	21	20	M20x50	M30x280	A 20x12x180							
BF80	99.8	72	10	75	M36	-	440	360	55	M24	100x3.0	M24	25	24	M24x60	M36x410	A 28x16x280							
BF90	119.8	72	10	80	M36	-	510	430	55	M24	120x4.0	M24	25	24	M24x60	M36x480	A 32x18x360							

Die dargestellten Teile werden zur Montage benötigt. NUR *gekennzeichnete Teile sind im Montagehilfset enthalten.
 The parts shown are necessary for assembly. ONLY *specified parts are enclosed in the assembly kit.
 Les pièces montrées ne sont pas de notre fourniture. SEULES celles marquées * sont disponibles dans le kit de montage.

Optional/ En option:

Typ / Type	Ø s	Bestelltext / Order Text / Texte de commande
BF06	25	Id.Nr.4103921 Montagehilfe "halten"/ Assembly tool "holding"/ Kit de montage "maintien"
BF10	25	Id.Nr.4103921 Montagehilfe "halten"/ Assembly tool "holding"/ Kit de montage "maintien"
BF20	30	Id.Nr.4103939 Montagehilfe "halten"/ Assembly tool "holding"/ Kit de montage "maintien"
BF30	35	Id.Nr.4103947 Montagehilfe "halten"/ Assembly tool "holding"/ Kit de montage "maintien"
BF40	40	Id.Nr.4103955 Montagehilfe "halten"/ Assembly tool "holding"/ Kit de montage "maintien"
BF50	50	Id.Nr.4103963 Montagehilfe "halten"/ Assembly tool "holding"/ Kit de montage "maintien"
BF60	60	Id.Nr.4103971 Montagehilfe "halten"/ Assembly tool "holding"/ Kit de montage "maintien"
BF70	80	Id.Nr.4103980 Montagehilfe "halten"/ Assembly tool "holding"/ Kit de montage "maintien"
BF70-K70	70	Id.Nr.4104765 Montagehilfe "halten"/ Assembly tool "holding"/ Kit de montage "maintien"
BF80	100	Id.Nr.4103998 Montagehilfe "halten"/ Assembly tool "holding"/ Kit de montage "maintien"
BF90	120	Id.Nr.4104005 Montagehilfe "halten"/ Assembly tool "holding"/ Kit de montage "maintien"

