Orientation

SIMOGEAR parallel shaft geared motor F

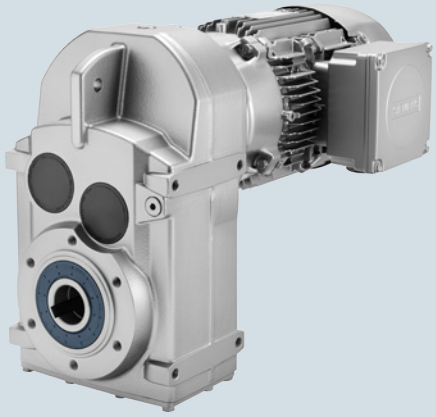

Fig. 4/1 Parallel shaft geared motor F

Gearbox designation	Number of sizes	Maximum output torque	Transmission ratio	Maximum motor power
		T_{2N}	i	P_1
		Nm	-	kW
FZ29 … FZ189 (2-stage)	11	150 … 19 000	3.5 … 70	55
FD29 … FD189 (3-stage)	11	150 … 19 000	32 … 413	55
FZ.29-Z19 ... FD.189-D69 (4-stage to 6-stage)	11	150 … 19 000	274 … 29 900	7.5

SIMOGEAR parallel shaft geared motors are available in the following versions:

Transmission stages

- 2-stage or 3-stage parallel shaft geared motors
- 4-stage to 6-stage parallel shaft geared motors for very low output speeds

Versions

- Shaft-mounted design
- Flange-mounted design
- Design with integrated housing flange
- Foot-mounted design

Mounting

- Hollow shaft design with feather key
- Hollow shaft design with splined shaft
- Hollow shaft design with shrink disk
- Hollow shaft design with SIMOLOC assembly system
- Solid shaft design with and without feather key

Selection and ordering data

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.09	**FD.69-LA63MF6**							
	2.4	350	348.40	11 400	1.7	30	**2KJ3404 - ■ BD11 - ■ ■ S1**	**P01**
	2.7	310	309.78	11 500	1.9	30	**2KJ3404 - ■ BD11 - ■ ■ R1**	**P01**
	FD.49-LA63MF6							
	2.6	335	330.98	8 460	1.4	25	**2KJ3403 - ■ BD11 - ■ ■ S1**	**P01**
	2.9	295	294.29	8 570	1.6	25	**2KJ3403 - ■ BD11 - ■ ■ R1**	**P01**
	3.3	260	258.40	8 670	1.8	25	**2KJ3403 - ■ BD11 - ■ ■ Q1**	**P01**
	3.6	235	234.91	8 750	2.0	25	**2KJ3403 - ■ BD11 - ■ ■ P1**	**P01**
	FD.39-LA63MF6							
	3.1	275	274.26	5 870	1.0	16	**2KJ3402 - ■ BD11 - ■ ■ R1**	**P01**
	3.5	245	243.26	5 980	1.2	16	**2KJ3402 - ■ BD11 - ■ ■ Q1**	**P01**
	4.0	210	211.06	6 110	1.4	16	**2KJ3402 - ■ BD11 - ■ ■ P1**	**P01**
	4.4	194	191.87	6 170	1.5	16	**2KJ3402 - ■ BD11 - ■ ■ N1**	**P01**
	FD.39-LA63MD4							
	5.1	168	274.26	6 270	1.7	15	**2KJ3402 - ■ BB11 - ■ ■ R1**	
	5.8	149	243.26	6 340	1.9	15	**2KJ3402 - ■ BB11 - ■ ■ Q1**	
	FD.29-LA63MD4							
	4.7	183	298.58	5 220	0.82	9	**2KJ3401 - ■ BB11 - ■ ■ Q1**	
	5.3	162	264.39	5 220	0.92	9	**2KJ3401 - ■ BB11 - ■ ■ P1**	
	6.1	141	229.72	5 220	1.1	9	**2KJ3401 - ■ BB11 - ■ ■ N1**	
	6.7	128	208.83	5 220	1.2	9	**2KJ3401 - ■ BB11 - ■ ■ M1**	
	7.9	109	177.71	5 220	1.4	9	**2KJ3401 - ■ BB11 - ■ ■ L1**	
	8.7	99	161.55	5 220	1.5	9	**2KJ3401 - ■ BB11 - ■ ■ K1**	
	9.9	86	140.86	5 220	1.7	9	**2KJ3401 - ■ BB11 - ■ ■ J1**	
	11	77	126.09	5 220	1.9	9	**2KJ3401 - ■ BB11 - ■ ■ H1**	
	13	69	111.97	5 220	2.2	9	**2KJ3401 - ■ BB11 - ■ ■ G1**	
	FD.29-LA63MD4							
	14	64	103.36	5 220	2.4	9	**2KJ3401 - ■ BB11 - ■ ■ F1**	
	16	55	89.78	5 220	2.7	9	**2KJ3401 - ■ BB11 - ■ ■ E1**	
	18	48	78.02	5 220	3.1	9	**2KJ3401 - ■ BB11 - ■ ■ D1**	
	20	43	70.43	5 220	3.5	9	**2KJ3401 - ■ BB11 - ■ ■ C1**	
	21	41	66.29	5 220	3.7	9	**2KJ3401 - ■ BB11 - ■ ■ B1**	
	24	36	57.79	5 220	4.2	9	**2KJ3401 - ■ BB11 - ■ ■ A1**	
	FZ.29-LA63MD4							
	25	35	56.73	5 220	4.3	9	**2KJ3301 - ■ BB11 - ■ ■ C2**	
	28	31	50.32	5 220	4.9	9	**2KJ3301 - ■ BB11 - ■ ■ B2**	
	32	27	43.66	5 220	5.6	9	**2KJ3301 - ■ BB11 - ■ ■ A2**	
	35	24	39.69	5 220	6.2	9	**2KJ3301 - ■ BB11 - ■ ■ X1**	
	41	21	34.04	5 220	7.2	9	**2KJ3301 - ■ BB11 - ■ ■ W1**	
	45	19	30.95	5 220	7.9	9	**2KJ3301 - ■ BB11 - ■ ■ V1**	
	52	17	27.13	5 220	9.0	9	**2KJ3301 - ■ BB11 - ■ ■ U1**	
	58	15	24.22	5 220	10	9	**2KJ3301 - ■ BB11 - ■ ■ T1**	
	65	13	21.58	5 220	11	9	**2KJ3301 - ■ BB11 - ■ ■ S1**	
	70	12	19.92	5 120	12	9	**2KJ3301 - ■ BB11 - ■ ■ R1**	
	80	11	17.44	4 900	14	9	**2KJ3301 - ■ BB11 - ■ ■ Q1**	
	92	9.4	15.29	4 700	16	9	**2KJ3301 - ■ BB11 - ■ ■ P1**	
	101	8.5	13.88	4 550	18	9	**2KJ3301 - ■ BB11 - ■ ■ N1**	
	107	8	13.06	4 470	19	9	**2KJ3301 - ■ BB11 - ■ ■ M1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 10/44
Frequency and voltage	**2 or 9**	➞ page 11/2
Gearbox mounting type	**A, D, F or H**	➞ page 10/37

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.09	**FZ.29-LA63MD4**							
	122	7.1	11.51	4 290	20	9	**2KJ3301 - ■ BB11 - ■ ■ L1**	
	140	6.1	9.99	4 090	22	9	**2KJ3301 - ■ BB11 - ■ ■ K1**	
	144	5.9	9.69	4 050	24	9	**2KJ3301 - ■ BB11 - ■ ■ J1**	
	162	5.3	8.63	3 900	24	9	**2KJ3301 - ■ BB11 - ■ ■ H1**	
	176	4.9	7.97	3 800	24	9	**2KJ3301 - ■ BB11 - ■ ■ G1**	
0.12	**FD.69-LA63MG6**							
	2.9	395	348.40	11 300	1.5	30	**2KJ3404 - ■ BE11 - ■ ■ S1**	**P01**
	3.2	355	309.78	11 400	1.7	30	**2KJ3404 - ■ BE11 - ■ ■ R1**	**P01**
	3.7	310	272.00	11 500	1.9	30	**2KJ3404 - ■ BE11 - ■ ■ Q1**	**P01**
	FD.69-LA63ME4							
	3.9	295	348.40	11 500	2.0	29	**2KJ3404 - ■ BC11 - ■ ■ S1**	
	FD.49-LA63MG6							
	3.0	375	330.98	8 340	1.3	25	**2KJ3403 - ■ BE11 - ■ ■ S1**	**P01**
	3.4	335	294.29	8 460	1.4	25	**2KJ3403 - ■ BE11 - ■ ■ R1**	**P01**
	FD.49-LA63MG6							
	3.9	295	258.40	8 570	1.6	25	**2KJ3403 - ■ BE11 - ■ ■ Q1**	**P01**
	FD.49-LA63ME4							
	4.1	280	330.98	8 610	1.7	24	**2KJ3403 - ■ BC11 - ■ ■ S1**	
	4.6	250	294.29	8 700	1.9	24	**2KJ3403 - ■ BC11 - ■ ■ R1**	
	FD.39-LA63MG6							
	3.6	310	274.26	5 740	0.92	16	**2KJ3402 - ■ BE11 - ■ ■ R1**	**P01**
	4.1	275	243.26	5 870	1.0	16	**2KJ3402 - ■ BE11 - ■ ■ Q1**	**P01**
	4.7	240	211.06	6 000	1.2	16	**2KJ3402 - ■ BE11 - ■ ■ P1**	**P01**
	FD.39-LA63ME4							
	4.9	230	274.26	6 040	1.2	15	**2KJ3402 - ■ BC11 - ■ ■ R1**	
	5.5	205	243.26	6 130	1.4	15	**2KJ3402 - ■ BC11 - ■ ■ Q1**	
	6.4	179	211.06	6 230	1.6	15	**2KJ3402 - ■ BC11 - ■ ■ P1**	
	7.0	163	191.87	6 290	1.8	15	**2KJ3402 - ■ BC11 - ■ ■ N1**	
	8.2	140	164.56	6 370	2.1	15	**2KJ3402 - ■ BC11 - ■ ■ M1**	
	FD.29-LA63MG6							
	6.2	185	161.55	5 220	0.81	9	**2KJ3401 - ■ BE11 - ■ ■ K1**	**P01**
	FD.29-LA63ME4							
	6.5	177	208.83	5 220	0.85	9	**2KJ3401 - ■ BC11 - ■ ■ M1**	
	7.6	151	177.71	5 220	0.99	9	**2KJ3401 - ■ BC11 - ■ ■ L1**	
	8.4	137	161.55	5 220	1.1	9	**2KJ3401 - ■ BC11 - ■ ■ K1**	
	9.6	120	140.86	5 220	1.3	9	**2KJ3401 - ■ BC11 - ■ ■ J1**	
	11	107	126.09	5 220	1.4	9	**2KJ3401 - ■ BC11 - ■ ■ H1**	
	12	95	111.97	5 220	1.6	9	**2KJ3401 - ■ BC11 - ■ ■ G1**	
	13	88	103.36	5 220	1.7	9	**2KJ3401 - ■ BC11 - ■ ■ F1**	
	15	76	89.78	5 220	2.0	9	**2KJ3401 - ■ BC11 - ■ ■ E1**	
	17	66	78.02	5 220	2.3	9	**2KJ3401 - ■ BC11 - ■ ■ D1**	
	19	60	70.43	5 220	2.5	9	**2KJ3401 - ■ BC11 - ■ ■ C1**	
	20	56	66.29	5 220	2.7	9	**2KJ3401 - ■ BC11 - ■ ■ B1**	
	23	49	57.79	5 220	3.1	9	**2KJ3401 - ■ BC11 - ■ ■ A1**	
	FZ.29-LA63ME4							
	24	48	56.73	5 220	3.1	9	**2KJ3301 - ■ BC11 - ■ ■ C2**	
	27	43	50.32	5 220	3.5	9	**2KJ3301 - ■ BC11 - ■ ■ B2**	
	31	37	43.66	5 220	4.0	9	**2KJ3301 - ■ BC11 - ■ ■ A2**	
	34	34	39.69	5 220	4.5	9	**2KJ3301 - ■ BC11 - ■ ■ X1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 10/44
Frequency and voltage	**2 or 9**	➞ page 11/2
Gearbox mounting type	**A, D, F or H**	➞ page 10/37

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.12	**FZ.29-LA63ME4**							
	40	29	34.04	5 220	5.2	9	**2KJ3301 - ■ BC11 - ■ ■ W1**	
	44	26	30.95	5 220	5.7	9	**2KJ3301 - ■ BC11 - ■ ■ V1**	
	50	23	27.13	5 220	6.5	9	**2KJ3301 - ■ BC11 - ■ ■ U1**	
	56	21	24.22	5 220	7.3	9	**2KJ3301 - ■ BC11 - ■ ■ T1**	
	63	18	21.58	5 220	8.2	9	**2KJ3301 - ■ BC11 - ■ ■ S1**	
	68	17	19.92	5 140	8.9	9	**2KJ3301 - ■ BC11 - ■ ■ R1**	
	77	15	17.44	4 930	10	9	**2KJ3301 - ■ BC11 - ■ ■ Q1**	
	88	13	15.29	4 730	12	9	**2KJ3301 - ■ BC11 - ■ ■ P1**	
	97	12	13.88	4 580	13	9	**2KJ3301 - ■ BC11 - ■ ■ N1**	
	103	11	13.06	4 500	14	9	**2KJ3301 - ■ BC11 - ■ ■ M1**	
	117	9.8	11.51	4 320	15	9	**2KJ3301 - ■ BC11 - ■ ■ L1**	
	135	8.5	9.99	4 130	16	9	**2KJ3301 - ■ BC11 - ■ ■ K1**	
	139	8.2	9.69	4 070	17	9	**2KJ3301 - ■ BC11 - ■ ■ J1**	
	156	7.3	8.63	3 930	18	9	**2KJ3301 - ■ BC11 - ■ ■ H1**	
	169	6.8	7.97	3 830	18	9	**2KJ3301 - ■ BC11 - ■ ■ G1**	
	193	5.9	6.98	3 660	21	9	**2KJ3301 - ■ BC11 - ■ ■ F1**	
	221	5.2	6.12	3 510	22	9	**2KJ3301 - ■ BC11 - ■ ■ E1**	
	243	4.7	5.55	3 400	23	9	**2KJ3301 - ■ BC11 - ■ ■ D1**	
	259	4.4	5.22	3 340	24	9	**2KJ3301 - ■ BC11 - ■ ■ C1**	
	293	3.9	4.60	3 200	25	9	**2KJ3301 - ■ BC11 - ■ ■ B1**	
0.18	**FD.79-LA71MG6**							
	2.4	720	357.00	14 100	1.4	38	**2KJ3405 - ■ CD11 - ■ ■ S1**	**P01**
	2.6	655	324.62	14 300	1.5	38	**2KJ3405 - ■ CD11 - ■ ■ R1**	**P01**
	3.1	555	276.09	14 500	1.8	38	**2KJ3405 - ■ CD11 - ■ ■ Q1**	**P01**
	3.4	505	250.99	14 500	2.0	38	**2KJ3405 - ■ CD11 - ■ ■ P1**	**P01**
	FD.69-LA71MG6							
	2.4	705	348.40	10 600	0.85	31	**2KJ3404 - ■ CD11 - ■ ■ S1**	**P01**
	2.7	625	309.78	10 800	0.96	31	**2KJ3404 - ■ CD11 - ■ ■ R1**	**P01**
	3.1	550	272.00	10 900	1.1	31	**2KJ3404 - ■ CD11 - ■ ■ Q1**	**P01**
	3.4	500	247.27	11 000	1.2	31	**2KJ3404 - ■ CD11 - ■ ■ P1**	**P01**
	FD.69-LA63MF4							
	3.9	440	348.40	11 200	1.4	30	**2KJ3404 - ■ BD11 - ■ ■ S1**	
	4.4	390	309.78	11 300	1.5	30	**2KJ3404 - ■ BD11 - ■ ■ R1**	
	5.0	345	272.00	11 400	1.7	30	**2KJ3404 - ■ BD11 - ■ ■ Q1**	
	5.5	315	247.27	11 500	1.9	30	**2KJ3404 - ■ BD11 - ■ ■ P1**	
	FD.49-LA71MG6							
	2.9	595	294.29	7 200	0.81	26	**2KJ3403 - ■ CD11 - ■ ■ R1**	**P01**
	3.3	520	258.40	7 700	0.92	26	**2KJ3403 - ■ CD11 - ■ ■ Q1**	**P01**
	3.6	475	234.91	7 990	1.0	26	**2KJ3403 - ■ CD11 - ■ ■ P1**	**P01**
	FD.49-LA63MF4							
	4.1	420	330.98	8 210	1.1	25	**2KJ3403 - ■ BD11 - ■ ■ S1**	
	4.6	375	294.29	8 340	1.3	25	**2KJ3403 - ■ BD11 - ■ ■ R1**	
	5.2	325	258.40	8 480	1.5	25	**2KJ3403 - ■ BD11 - ■ ■ Q1**	
	5.7	295	234.91	8 570	1.6	25	**2KJ3403 - ■ BD11 - ■ ■ P1**	
	6.7	255	200.98	8 690	1.9	25	**2KJ3403 - ■ BD11 - ■ ■ N1**	
	7.4	230	182.71	8 760	2.1	25	**2KJ3403 - ■ BD11 - ■ ■ M1**	
	FD.39-LA63MF4							
	4.9	345	274.26	5 610	0.83	16	**2KJ3402 - ■ BD11 - ■ ■ R1**	
	5.5	310	243.26	5 740	0.94	16	**2KJ3402 - ■ BD11 - ■ ■ Q1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 10/44
Frequency and voltage	**2 or 9**	➞ page 11/2
Gearbox mounting type	**A, D, F or H**	➞ page 10/37

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.18	**FD.39-LA63MF4**							
	6.4	265	211.06	5 910	1.1	16	**2KJ3402 - ■ BD11 - ■ ■ P1**	
	7.0	240	191.87	6 000	1.2	16	**2KJ3402 - ■ BD11 - ■ ■ N1**	
	8.2	210	164.56	6 110	1.4	16	**2KJ3402 - ■ BD11 - ■ ■ M1**	
	9.0	190	149.60	6 190	1.5	16	**2KJ3402 - ■ BD11 - ■ ■ L1**	
	10	167	131.17	6 270	1.7	16	**2KJ3402 - ■ BD11 - ■ ■ K1**	
	12	149	117.08	6 340	1.9	16	**2KJ3402 - ■ BD11 - ■ ■ J1**	
	13	133	104.34	6 400	2.2	16	**2KJ3402 - ■ BD11 - ■ ■ H1**	
	FD.29-LA63MF4							
	9.6	179	140.86	5 220	0.84	9	**2KJ3401 - ■ BD11 - ■ ■ J1**	
	11	161	126.09	5 220	0.93	9	**2KJ3401 - ■ BD11 - ■ ■ H1**	
	12	143	111.97	5 220	1.1	9	**2KJ3401 - ■ BD11 - ■ ■ G1**	
	13	132	103.36	5 220	1.1	9	**2KJ3401 - ■ BD11 - ■ ■ F1**	
	15	114	89.78	5 220	1.3	9	**2KJ3401 - ■ BD11 - ■ ■ E1**	
	17	99	78.02	5 220	1.5	9	**2KJ3401 - ■ BD11 - ■ ■ D1**	
	19	90	70.43	5 220	1.7	9	**2KJ3401 - ■ BD11 - ■ ■ C1**	
	20	84	66.29	5 220	1.8	9	**2KJ3401 - ■ BD11 - ■ ■ B1**	
	23	74	57.79	5 220	2.0	9	**2KJ3401 - ■ BD11 - ■ ■ A1**	
	FZ.29-LA63MF4							
	24	72	56.73	5 220	2.1	9	**2KJ3301 - ■ BD11 - ■ ■ C2**	
	27	64	50.32	5 220	2.3	9	**2KJ3301 - ■ BD11 - ■ ■ B2**	
	31	56	43.66	5 220	2.7	9	**2KJ3301 - ■ BD11 - ■ ■ A2**	
	34	50	39.69	5 220	3.0	9	**2KJ3301 - ■ BD11 - ■ ■ X1**	
	40	43	34.04	5 220	3.5	9	**2KJ3301 - ■ BD11 - ■ ■ W1**	
	44	39	30.95	5 220	3.8	9	**2KJ3301 - ■ BD11 - ■ ■ V1**	
	50	34	27.13	5 220	4.3	9	**2KJ3301 - ■ BD11 - ■ ■ U1**	
	56	31	24.22	5 220	4.9	9	**2KJ3301 - ■ BD11 - ■ ■ T1**	
	63	28	21.58	5 190	5.5	9	**2KJ3301 - ■ BD11 - ■ ■ S1**	
	68	25	19.92	5 070	5.9	9	**2KJ3301 - ■ BD11 - ■ ■ R1**	
	77	22	17.44	4 870	6.8	9	**2KJ3301 - ■ BD11 - ■ ■ Q1**	
	88	20	15.29	4 670	7.7	9	**2KJ3301 - ■ BD11 - ■ ■ P1**	
	97	18	13.88	4 530	8.5	9	**2KJ3301 - ■ BD11 - ■ ■ N1**	
	103	17	13.06	4 450	9.0	9	**2KJ3301 - ■ BD11 - ■ ■ M1**	
	117	15	11.51	4 270	9.8	9	**2KJ3301 - ■ BD11 - ■ ■ L1**	
	135	13	9.99	4 090	11	9	**2KJ3301 - ■ BD11 - ■ ■ K1**	
	139	12	9.69	4 040	12	9	**2KJ3301 - ■ BD11 - ■ ■ J1**	
	156	11	8.63	3 890	12	9	**2KJ3301 - ■ BD11 - ■ ■ H1**	
	169	10	7.97	3 790	12	9	**2KJ3301 - ■ BD11 - ■ ■ G1**	
	193	8.9	6.98	3 640	14	9	**2KJ3301 - ■ BD11 - ■ ■ F1**	
	221	7.8	6.12	3 490	15	9	**2KJ3301 - ■ BD11 - ■ ■ E1**	
	243	7.1	5.55	3 380	15	9	**2KJ3301 - ■ BD11 - ■ ■ D1**	
	259	6.6	5.22	3 320	16	9	**2KJ3301 - ■ BD11 - ■ ■ C1**	
	293	5.9	4.60	3 180	17	9	**2KJ3301 - ■ BD11 - ■ ■ B1**	
	338	5.1	4.00	3 040	18	9	**2KJ3301 - ■ BD11 - ■ ■ A1**	
	FZ.29-LA63ME2							
	162	11	17.44	3 860	14	9	**2KJ3301 - ■ BC11 - ■ ■ Q1**	**P00**
	184	9.3	15.29	3 710	16	9	**2KJ3301 - ■ BC11 - ■ ■ P1**	**P00**
	203	8.5	13.88	3 590	18	9	**2KJ3301 - ■ BC11 - ■ ■ N1**	**P00**
	216	8.0	13.06	3 520	19	9	**2KJ3301 - ■ BC11 - ■ ■ M1**	**P00**

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 10/44
Frequency and voltage	**2 or 9**	➞ page 11/2
Gearbox mounting type	**A, D, F or H**	➞ page 10/37

Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.18	**FZ.29-LA63ME2**							
	245	7.0	11.51	3 380	20	9	**2KJ3301 - ■ BC11 - ■ ■ L1**	**P00**
	282	6.1	9.99	3 230	22	9	**2KJ3301 - ■ BC11 - ■ ■ K1**	**P00**
	291	5.9	9.69	3 190	24	9	**2KJ3301 - ■ BC11 - ■ ■ J1**	**P00**
	327	5.3	8.63	3 070	25	9	**2KJ3301 - ■ BC11 - ■ ■ H1**	**P00**
	354	4.9	7.97	3 000	25	9	**2KJ3301 - ■ BC11 - ■ ■ G1**	**P00**
0.25	**FD.79-LA71MH6**							
	2.4	990	357.00	13 600	1.0	39	**2KJ3405 - ■ CE11 - ■ ■ S1**	**P01**
	2.6	900	324.62	13 800	1.1	39	**2KJ3405 - ■ CE11 - ■ ■ R1**	**P01**
	3.1	765	276.09	14 000	1.3	39	**2KJ3405 - ■ CE11 - ■ ■ Q1**	**P01**
	3.4	695	250.99	14 200	1.4	39	**2KJ3405 - ■ CE11 - ■ ■ P1**	**P01**
	FD.79-LA71MG4							
	3.8	630	357.00	14 300	1.6	38	**2KJ3405 - ■ CD11 - ■ ■ S1**	
	4.2	570	324.62	14 400	1.7	38	**2KJ3405 - ■ CD11 - ■ ■ R1**	
	4.9	485	276.09	14 500	2.0	38	**2KJ3405 - ■ CD11 - ■ ■ Q1**	
	FD.69-LA71MH6							
	3.5	685	247.27	10 600	0.87	32	**2KJ3404 - ■ CE11 - ■ ■ P1**	**P01**
	FD.69-LA71MG4							
	3.9	615	348.40	10 800	0.97	31	**2KJ3404 - ■ CD11 - ■ ■ S1**	
	4.4	545	309.78	10 900	1.1	31	**2KJ3404 - ■ CD11 - ■ ■ R1**	
	5.0	480	272.00	11 100	1.2	31	**2KJ3404 - ■ CD11 - ■ ■ Q1**	
	5.5	435	247.27	11 200	1.4	31	**2KJ3404 - ■ CD11 - ■ ■ P1**	
	6.4	370	211.56	11 400	1.6	31	**2KJ3404 - ■ CD11 - ■ ■ N1**	
	7.0	340	192.32	11 400	1.8	31	**2KJ3404 - ■ CD11 - ■ ■ M1**	
	7.9	300	170.00	11 500	2.0	31	**2KJ3404 - ■ CD11 - ■ ■ L1**	
	FD.49-LA71MG4							
	4.1	585	330.98	7 270	0.82	26	**2KJ3403 - ■ CD11 - ■ ■ S1**	
	4.6	520	294.29	7 700	0.92	26	**2KJ3403 - ■ CD11 - ■ ■ R1**	
	5.2	455	258.40	8 110	1.1	26	**2KJ3403 - ■ CD11 - ■ ■ Q1**	
	5.7	415	234.91	8 220	1.2	26	**2KJ3403 - ■ CD11 - ■ ■ P1**	
	6.7	355	200.98	8 400	1.4	26	**2KJ3403 - ■ CD11 - ■ ■ N1**	
	7.4	320	182.71	8 500	1.5	26	**2KJ3403 - ■ CD11 - ■ ■ M1**	
	8.4	285	161.50	8 600	1.7	26	**2KJ3403 - ■ CD11 - ■ ■ L1**	
	9.2	260	146.82	8 670	1.8	26	**2KJ3403 - ■ CD11 - ■ ■ K1**	
	10	225	128.60	8 770	2.1	26	**2KJ3403 - ■ CD11 - ■ ■ J1**	
	FD.39-LA71MG4							
	7.0	335	191.87	5 650	0.85	17	**2KJ3402 - ■ CD11 - ■ ■ N1**	
	8.2	290	164.56	5 820	1.0	17	**2KJ3402 - ■ CD11 - ■ ■ M1**	
	9.0	265	149.60	5 910	1.1	17	**2KJ3402 - ■ CD11 - ■ ■ L1**	
	10	230	131.17	6 040	1.3	17	**2KJ3402 - ■ CD11 - ■ ■ K1**	
	12	205	117.08	6 130	1.4	17	**2KJ3402 - ■ CD11 - ■ ■ J1**	
	13	185	104.34	6 210	1.6	17	**2KJ3402 - ■ CD11 - ■ ■ H1**	
	14	170	96.31	6 260	1.7	17	**2KJ3402 - ■ CD11 - ■ ■ G1**	
	16	149	84.32	6 340	1.9	17	**2KJ3402 - ■ CD11 - ■ ■ F1**	
	18	131	73.93	6 410	2.2	17	**2KJ3402 - ■ CD11 - ■ ■ E1**	
	FZ.39-LA71MG4							
	23	103	57.99	6 510	2.2	17	**2KJ3302 - ■ CD11 - ■ ■ A2**	
	FD.29-LA71MG4							
	13	183	103.36	5 220	0.82	10	**2KJ3401 - ■ CD11 - ■ ■ F1**	
	15	159	89.78	5 220	0.94	10	**2KJ3401 - ■ CD11 - ■ ■ E1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 10/44
Frequency and voltage	**2 or 9**	➞ page 11/2
Gearbox mounting type	**A, D, F or H**	➞ page 10/37

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.25	**FD.29-LA71MG4**							
	17	138	78.02	5 220	1.1	10	**2KJ3401 - ■ CD11 - ■ ■ D1**	
	19	125	70.43	5 220	1.2	10	**2KJ3401 - ■ CD11 - ■ ■ C1**	
	20	117	66.29	5 220	1.3	10	**2KJ3401 - ■ CD11 - ■ ■ B1**	
	23	102	57.79	5 220	1.5	10	**2KJ3401 - ■ CD11 - ■ ■ A1**	
	FZ.29-LA71MG4							
	24	100	56.73	5 220	1.5	10	**2KJ3301 - ■ CD11 - ■ ■ C2**	
	27	89	50.32	5 220	1.7	10	**2KJ3301 - ■ CD11 - ■ ■ B2**	
	31	77	43.66	5 220	1.9	10	**2KJ3301 - ■ CD11 - ■ ■ A2**	
	34	70	39.69	5 220	2.1	10	**2KJ3301 - ■ CD11 - ■ ■ X1**	
	40	60	34.04	5 220	2.5	10	**2KJ3301 - ■ CD11 - ■ ■ W1**	
	44	55	30.95	5 220	2.7	10	**2KJ3301 - ■ CD11 - ■ ■ V1**	
	50	48	27.13	5 220	3.1	10	**2KJ3301 - ■ CD11 - ■ ■ U1**	
	56	43	24.22	5 220	3.5	10	**2KJ3301 - ■ CD11 - ■ ■ T1**	
	63	38	21.58	5 110	3.9	10	**2KJ3301 - ■ CD11 - ■ ■ S1**	
	68	35	19.92	4 990	4.3	10	**2KJ3301 - ■ CD11 - ■ ■ R1**	
	77	31	17.44	4 800	4.9	10	**2KJ3301 - ■ CD11 - ■ ■ Q1**	
	88	27	15.29	4 610	5.5	10	**2KJ3301 - ■ CD11 - ■ ■ P1**	
	97	24	13.88	4 480	6.1	10	**2KJ3301 - ■ CD11 - ■ ■ N1**	
	103	23	13.06	4 400	6.5	10	**2KJ3301 - ■ CD11 - ■ ■ M1**	
	117	20	11.51	4 230	7.0	10	**2KJ3301 - ■ CD11 - ■ ■ L1**	
	135	18	9.99	4 050	7.7	10	**2KJ3301 - ■ CD11 - ■ ■ K1**	
	139	17	9.69	3 990	8.3	10	**2KJ3301 - ■ CD11 - ■ ■ J1**	
	156	15	8.63	3 850	8.5	10	**2KJ3301 - ■ CD11 - ■ ■ H1**	
	169	14	7.97	3 750	8.5	10	**2KJ3301 - ■ CD11 - ■ ■ G1**	
	193	12	6.98	3 610	10	10	**2KJ3301 - ■ CD11 - ■ ■ F1**	
	221	11	6.12	3 460	10	10	**2KJ3301 - ■ CD11 - ■ ■ E1**	
	243	9.8	5.55	3 350	11	10	**2KJ3301 - ■ CD11 - ■ ■ D1**	
	259	9.2	5.22	3 290	12	10	**2KJ3301 - ■ CD11 - ■ ■ C1**	
	293	8.1	4.60	3 160	12	10	**2KJ3301 - ■ CD11 - ■ ■ B1**	
	338	7.1	4.00	3 020	13	10	**2KJ3301 - ■ CD11 - ■ ■ A1**	
	FZ.29-LA63MF2							
	162	15	17.44	3 820	10	9	**2KJ3301 - ■ BD11 - ■ ■ Q1**	**P00**
	185	13	15.29	3 670	12	9	**2KJ3301 - ■ BD11 - ■ ■ P1**	**P00**
	204	12	13.88	3 560	13	9	**2KJ3301 - ■ BD11 - ■ ■ N1**	**P00**
	217	11	13.06	3 490	14	9	**2KJ3301 - ■ BD11 - ■ ■ M1**	**P00**
	246	9.7	11.51	3 360	15	9	**2KJ3301 - ■ BD11 - ■ ■ L1**	**P00**
0.37	**FD.79-LA71MH4**							
	3.8	920	357.00	13 700	1.1	39	**2KJ3405 - ■ CE11 - ■ ■ S1**	
	4.2	835	324.62	13 900	1.2	39	**2KJ3405 - ■ CE11 - ■ ■ R1**	
	5.0	710	276.09	14 100	1.4	39	**2KJ3405 - ■ CE11 - ■ ■ Q1**	
	5.5	645	250.99	14 300	1.5	39	**2KJ3405 - ■ CE11 - ■ ■ P1**	
	6.1	575	223.94	14 400	1.7	39	**2KJ3405 - ■ CE11 - ■ ■ N1**	
	6.8	515	200.80	14 500	1.9	39	**2KJ3405 - ■ CE11 - ■ ■ M1**	
	7.6	465	180.99	14 500	2.1	39	**2KJ3405 - ■ CE11 - ■ ■ L1**	
	FD.69-LA71MH4							
	5.0	700	272.00	10 600	0.86	32	**2KJ3404 - ■ CE11 - ■ ■ Q1**	
	5.5	635	247.27	10 700	0.94	32	**2KJ3404 - ■ CE11 - ■ ■ P1**	
	6.5	545	211.56	10 900	1.1	32	**2KJ3404 - ■ CE11 - ■ ■ N1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 10/44
Frequency and voltage	**2 or 9**	➞ page 11/2
Gearbox mounting type	**A, D, F or H**	➞ page 10/37

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.37	**FD.69-LA71MH4**							
	7.1	495	192.32	11 100	1.2	32	**2KJ3404 - ■ CE11 - ■ ■ M1**	
	8.1	435	170.00	11 200	1.4	32	**2KJ3404 - ■ CE11 - ■ ■ L1**	
	8.9	395	154.55	11 300	1.5	32	**2KJ3404 - ■ CE11 - ■ ■ K1**	
	10	345	135.37	11 400	1.7	32	**2KJ3404 - ■ CE11 - ■ ■ J1**	
	11	320	124.96	11 500	1.9	32	**2KJ3404 - ■ CE11 - ■ ■ H1**	
	12	285	110.63	11 600	2.1	32	**2KJ3404 - ■ CE11 - ■ ■ G1**	
	FD.49-LA71MH4							
	6.8	515	200.98	7 720	0.93	27	**2KJ3403 - ■ CE11 - ■ ■ N1**	
	7.5	470	182.71	8 020	1.0	27	**2KJ3403 - ■ CE11 - ■ ■ M1**	
	8.5	415	161.50	8 220	1.2	27	**2KJ3403 - ■ CE11 - ■ ■ L1**	
	9.3	375	146.82	8 340	1.3	27	**2KJ3403 - ■ CE11 - ■ ■ K1**	
	11	330	128.60	8 470	1.4	27	**2KJ3403 - ■ CE11 - ■ ■ J1**	
	12	305	118.71	8 540	1.6	27	**2KJ3403 - ■ CE11 - ■ ■ H1**	
	13	270	105.10	8 640	1.8	27	**2KJ3403 - ■ CE11 - ■ ■ G1**	
	16	225	87.48	8 770	2.1	27	**2KJ3403 - ■ CE11 - ■ ■ F1**	
	17	210	82.33	8 820	2.3	27	**2KJ3403 - ■ CE11 - ■ ■ E1**	
	FD.39-LA71MH4							
	10	335	131.17	5 650	0.86	18	**2KJ3402 - ■ CE11 - ■ ■ K1**	
	12	300	117.08	5 780	0.96	18	**2KJ3402 - ■ CE11 - ■ ■ J1**	
	13	265	104.34	5 910	1.1	18	**2KJ3402 - ■ CE11 - ■ ■ H1**	
	14	245	96.31	5 980	1.2	18	**2KJ3402 - ■ CE11 - ■ ■ G1**	
	16	215	84.32	6 100	1.3	18	**2KJ3402 - ■ CE11 - ■ ■ F1**	
	19	191	73.93	6 180	1.5	18	**2KJ3402 - ■ CE11 - ■ ■ E1**	
	20	173	67.07	6 250	1.7	18	**2KJ3402 - ■ CE11 - ■ ■ D1**	
	22	163	63.13	6 290	1.8	18	**2KJ3402 - ■ CE11 - ■ ■ C1**	
	25	144	55.65	6 360	2.0	18	**2KJ3402 - ■ CE11 - ■ ■ B1**	
	28	125	48.29	6 430	2.3	18	**2KJ3402 - ■ CE11 - ■ ■ A1**	
	FZ.39-LA71MH4							
	21	168	65.21	6 270	1.7	18	**2KJ3302 - ■ CE11 - ■ ■ B2**	
	24	150	57.99	6 340	1.5	18	**2KJ3302 - ■ CE11 - ■ ■ A2**	
	27	131	50.91	6 410	1.8	18	**2KJ3302 - ■ CE11 - ■ ■ X1**	
	30	119	46.29	6 450	2.1	18	**2KJ3302 - ■ CE11 - ■ ■ W1**	
	FD.29-LA71MH4							
	19	182	70.43	5 220	0.83	12	**2KJ3401 - ■ CE11 - ■ ■ C1**	
	21	171	66.29	5 220	0.88	12	**2KJ3401 - ■ CE11 - ■ ■ B1**	
	24	149	57.79	5 220	1.0	12	**2KJ3401 - ■ CE11 - ■ ■ A1**	
	FZ.29-LA71MH4							
	24	146	56.73	5 220	1.0	11	**2KJ3301 - ■ CE11 - ■ ■ C2**	
	27	130	50.32	5 220	1.2	11	**2KJ3301 - ■ CE11 - ■ ■ B2**	
	31	113	43.66	5 220	1.3	11	**2KJ3301 - ■ CE11 - ■ ■ A2**	
	35	102	39.69	5 220	1.5	11	**2KJ3301 - ■ CE11 - ■ ■ X1**	
	40	88	34.04	5 220	1.7	11	**2KJ3301 - ■ CE11 - ■ ■ W1**	
	44	80	30.95	5 220	1.9	11	**2KJ3301 - ■ CE11 - ■ ■ V1**	
	50	70	27.13	5 220	2.1	11	**2KJ3301 - ■ CE11 - ■ ■ U1**	
	57	62	24.22	5 100	2.4	11	**2KJ3301 - ■ CE11 - ■ ■ T1**	
	63	56	21.58	4 930	2.7	11	**2KJ3301 - ■ CE11 - ■ ■ S1**	
	69	51	19.92	4 830	2.9	11	**2KJ3301 - ■ CE11 - ■ ■ R1**	
	79	45	17.44	4 650	3.3	11	**2KJ3301 - ■ CE11 - ■ ■ Q1**	

Article No. supplement		
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Gearbox mounting type	**A, D, F or H**	➞ page 10/37

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.37	**FZ.29-LA71MH4**							
	90	39	15.29	4 490	3.8	11	**2KJ3301 - ■ CE11 - ■ ■ P1**	
	99	36	13.88	4 360	4.2	11	**2KJ3301 - ■ CE11 - ■ ■ N1**	
	105	34	13.06	4 280	4.5	11	**2KJ3301 - ■ CE11 - ■ ■ M1**	
	119	30	11.51	4 130	4.8	11	**2KJ3301 - ■ CE11 - ■ ■ L1**	
	137	26	9.99	3 960	5.3	11	**2KJ3301 - ■ CE11 - ■ ■ K1**	
	141	25	9.69	3 890	5.7	11	**2KJ3301 - ■ CE11 - ■ ■ J1**	
	159	22	8.63	3 760	5.8	11	**2KJ3301 - ■ CE11 - ■ ■ H1**	
	172	21	7.97	3 670	5.8	11	**2KJ3301 - ■ CE11 - ■ ■ G1**	
	196	18	6.98	3 530	6.8	11	**2KJ3301 - ■ CE11 - ■ ■ F1**	
	224	16	6.12	3 390	7.2	11	**2KJ3301 - ■ CE11 - ■ ■ E1**	
	247	14	5.55	3 300	7.5	11	**2KJ3301 - ■ CE11 - ■ ■ D1**	
	262	14	5.22	3 230	7.9	11	**2KJ3301 - ■ CE11 - ■ ■ C1**	
	298	12	4.60	3 110	8.2	11	**2KJ3301 - ■ CE11 - ■ ■ B1**	
	342	10	4.00	2 980	8.8	11	**2KJ3301 - ■ CE11 - ■ ■ A1**	
	FZ.29-LA71MG2							
	157	22	17.44	3 810	6.7	10	**2KJ3301 - ■ CD11 - ■ ■ Q1**	**P00**
	179	20	15.29	3 650	7.6	10	**2KJ3301 - ■ CD11 - ■ ■ P1**	**P00**
	197	18	13.88	3 550	8.4	10	**2KJ3301 - ■ CD11 - ■ ■ N1**	**P00**
	210	17	13.06	3 480	8.9	10	**2KJ3301 - ■ CD11 - ■ ■ M1**	**P00**
	238	15	11.51	3 350	9.6	10	**2KJ3301 - ■ CD11 - ■ ■ L1**	**P00**
	274	13	9.99	3 200	11	10	**2KJ3301 - ■ CD11 - ■ ■ K1**	**P00**
	283	12	9.69	3 160	11	10	**2KJ3301 - ■ CD11 - ■ ■ J1**	**P00**
	317	11	8.63	3 050	12	10	**2KJ3301 - ■ CD11 - ■ ■ H1**	**P00**
	344	10	7.97	2 980	12	10	**2KJ3301 - ■ CD11 - ■ ■ G1**	**P00**
	393	9	6.98	2 850	14	10	**2KJ3301 - ■ CD11 - ■ ■ F1**	**P00**
	448	7.9	6.12	2 740	14	10	**2KJ3301 - ■ CD11 - ■ ■ E1**	**P00**
	494	7.2	5.55	2 650	15	10	**2KJ3301 - ■ CD11 - ■ ■ D1**	**P00**
0.55	**FD.89-LE80MB4**							
	4.3	1 220	335.30	17 400	1.5	73	**2KJ3406 - ■ DB21 - ■ ■ S1**	
	4.7	1 110	304.82	17 400	1.7	73	**2KJ3406 - ■ DB21 - ■ ■ R1**	
	5.3	995	273.41	17 400	1.9	73	**2KJ3406 - ■ DB21 - ■ ■ Q1**	
	5.9	895	245.82	17 400	2.1	73	**2KJ3406 - ■ DB21 - ■ ■ P1**	
	FD.79-LE80MB4							
	4.4	1 180	324.62	13 200	0.84	42	**2KJ3405 - ■ DB21 - ■ ■ R1**	
	5.2	1 000	276.09	13 600	0.99	42	**2KJ3405 - ■ DB21 - ■ ■ Q1**	
	5.7	915	250.99	13 700	1.1	42	**2KJ3405 - ■ DB21 - ■ ■ P1**	
	6.4	815	223.94	13 900	1.2	42	**2KJ3405 - ■ DB21 - ■ ■ N1**	
	7.2	730	200.80	14 100	1.4	42	**2KJ3405 - ■ DB21 - ■ ■ M1**	
	8.0	660	180.99	14 200	1.5	42	**2KJ3405 - ■ DB21 - ■ ■ L1**	
	8.6	605	167.07	14 400	1.6	42	**2KJ3405 - ■ DB21 - ■ ■ K1**	
	9.4	555	152.51	14 500	1.8	42	**2KJ3405 - ■ DB21 - ■ ■ J1**	
	11	460	126.54	14 500	2.2	42	**2KJ3405 - ■ DB21 - ■ ■ H1**	
	FD.79-LA71ZML4							
	4.2	1 240	324.62	13 100	0.80	39	**2KJ3405 - ■ CH11 - ■ ■ R1**	
	5.0	1 050	276.09	13 500	0.94	39	**2KJ3405 - ■ CH11 - ■ ■ Q1**	
	5.5	960	250.99	13 700	1.0	39	**2KJ3405 - ■ CH11 - ■ ■ P1**	
	6.1	855	223.94	13 900	1.2	39	**2KJ3405 - ■ CH11 - ■ ■ N1**	
	6.8	770	200.80	14 000	1.3	39	**2KJ3405 - ■ CH11 - ■ ■ M1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 10/44
Frequency and voltage	**2 or 9**	➞ page 11/2
Gearbox mounting type	**A, D, F or H**	➞ page 10/37

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
0.55	**FD.79-LA71ZML4**							
	7.6	690	180.99	14 200	1.4	39	**2KJ3405 - ■ CH11 - ■ ■ L1**	
	8.2	640	167.07	14 300	1.6	39	**2KJ3405 - ■ CH11 - ■ ■ K1**	
	9.0	585	152.51	14 400	1.7	39	**2KJ3405 - ■ CH11 - ■ ■ J1**	
	11	485	126.54	14 500	2.1	39	**2KJ3405 - ■ CH11 - ■ ■ H1**	
	12	455	119.10	14 500	2.2	39	**2KJ3405 - ■ CH11 - ■ ■ G1**	
	FD.69-LE80MB4							
	7.5	700	192.32	10 600	0.86	35	**2KJ3404 - ■ DB21 - ■ ■ M1**	
	8.5	620	170.00	10 800	0.97	35	**2KJ3404 - ■ DB21 - ■ ■ L1**	
	9.3	560	154.55	10 900	1.1	35	**2KJ3404 - ■ DB21 - ■ ■ K1**	
	11	490	135.37	11 100	1.2	35	**2KJ3404 - ■ DB21 - ■ ■ J1**	
	12	455	124.96	11 200	1.3	35	**2KJ3404 - ■ DB21 - ■ ■ H1**	
	13	400	110.63	11 300	1.5	35	**2KJ3404 - ■ DB21 - ■ ■ G1**	
	16	335	92.08	11 400	1.8	35	**2KJ3404 - ■ DB21 - ■ ■ F1**	
	17	315	86.67	11 500	1.9	35	**2KJ3404 - ■ DB21 - ■ ■ E1**	
	19	280	77.65	11 600	2.1	35	**2KJ3404 - ■ DB21 - ■ ■ D1**	
	FD.69-LA71ZML4							
	7.1	735	192.32	10 500	0.81	32	**2KJ3404 - ■ CH11 - ■ ■ M1**	
	8.1	650	170.00	10 700	0.92	32	**2KJ3404 - ■ CH11 - ■ ■ L1**	
	8.9	590	154.55	10 800	1.0	32	**2KJ3404 - ■ CH11 - ■ ■ K1**	
	10	515	135.37	11 000	1.2	32	**2KJ3404 - ■ CH11 - ■ ■ J1**	
	11	475	124.96	11 100	1.3	32	**2KJ3404 - ■ CH11 - ■ ■ H1**	
	12	420	110.63	11 200	1.4	32	**2KJ3404 - ■ CH11 - ■ ■ G1**	
	15	350	92.08	11 400	1.7	32	**2KJ3404 - ■ CH11 - ■ ■ F1**	
	16	330	86.67	11 400	1.8	32	**2KJ3404 - ■ CH11 - ■ ■ E1**	
	18	295	77.65	11 500	2.0	32	**2KJ3404 - ■ CH11 - ■ ■ D1**	
	21	250	66.11	11 600	2.4	32	**2KJ3404 - ■ CH11 - ■ ■ C1**	
	FZ.69-LA71ZML4							
	21	245	64.67	11 600	2.4	32	**2KJ3304 - ■ CH11 - ■ ■ X1**	
	FD.49-LA71ZML4							
	9.3	560	146.82	7 430	0.85	27	**2KJ3403 - ■ CH11 - ■ ■ K1**	
	11	490	128.60	7 890	0.97	27	**2KJ3403 - ■ CH11 - ■ ■ J1**	
	12	455	118.71	8 110	1.1	27	**2KJ3403 - ■ CH11 - ■ ■ H1**	
	13	400	105.10	8 270	1.2	27	**2KJ3403 - ■ CH11 - ■ ■ G1**	
	16	335	87.48	8 460	1.4	27	**2KJ3403 - ■ CH11 - ■ ■ F1**	
	17	315	82.33	8 510	1.5	27	**2KJ3403 - ■ CH11 - ■ ■ E1**	
	19	280	73.77	8 610	1.7	27	**2KJ3403 - ■ CH11 - ■ ■ D1**	
	22	240	62.81	8 730	2.0	27	**2KJ3403 - ■ CH11 - ■ ■ C1**	
	FD.49-LE80MB4							
	8.9	585	161.50	7 270	0.81	30	**2KJ3403 - ■ DB21 - ■ ■ L1**	
	9.8	535	146.82	7 600	0.90	30	**2KJ3403 - ■ DB21 - ■ ■ K1**	
	11	465	128.60	8 060	1.0	30	**2KJ3403 - ■ DB21 - ■ ■ J1**	
	12	430	118.71	8 180	1.1	30	**2KJ3403 - ■ DB21 - ■ ■ H1**	
	14	380	105.10	8 330	1.3	30	**2KJ3403 - ■ DB21 - ■ ■ G1**	
	16	315	87.48	8 510	1.5	30	**2KJ3403 - ■ DB21 - ■ ■ F1**	
	17	300	82.33	8 560	1.6	30	**2KJ3403 - ■ DB21 - ■ ■ E1**	
	20	265	73.77	8 660	1.8	30	**2KJ3403 - ■ DB21 - ■ ■ D1**	
	23	225	62.81	8 770	2.1	30	**2KJ3403 - ■ DB21 - ■ ■ C1**	
	27	196	53.83	8 450	2.4	30	**2KJ3403 - ■ DB21 - ■ ■ B1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.55	**FZ.49-LA71ZML4**							
	22	235	61.43	8 750	2.0	27	**2KJ3303 - ■ CH11 - ■ ■ X1**	
	25	210	55.85	8 640	2.2	27	**2KJ3303 - ■ CH11 - ■ ■ W1**	
	FZ.49-LE80MB4							
	23	220	61.43	8 730	2.1	29	**2KJ3303 - ■ DB21 - ■ ■ X1**	
	26	200	55.85	8 540	2.4	29	**2KJ3303 - ■ DB21 - ■ ■ W1**	
	FD.39-LA71ZML4							
	16	320	84.32	5 700	0.9	18	**2KJ3402 - ■ CH11 - ■ ■ F1**	
	19	280	73.93	5 850	1.0	18	**2KJ3402 - ■ CH11 - ■ ■ E1**	
	20	255	67.07	5 950	1.1	18	**2KJ3402 - ■ CH11 - ■ ■ D1**	
	22	240	63.13	6 000	1.2	18	**2KJ3402 - ■ CH11 - ■ ■ C1**	
	25	210	55.65	6 110	1.4	18	**2KJ3402 - ■ CH11 - ■ ■ B1**	
	28	185	48.29	6 210	1.6	18	**2KJ3402 - ■ CH11 - ■ ■ A1**	
	FD.39-LE80MB4							
	15	350	96.31	5 590	0.83	20	**2KJ3402 - ■ DB21 - ■ ■ G1**	
	17	305	84.32	5 760	0.94	20	**2KJ3402 - ■ DB21 - ■ ■ F1**	
	19	270	73.93	5 890	1.1	20	**2KJ3402 - ■ DB21 - ■ ■ E1**	
	21	245	67.07	5 980	1.2	20	**2KJ3402 - ■ DB21 - ■ ■ D1**	
	23	230	63.13	6 040	1.3	20	**2KJ3402 - ■ DB21 - ■ ■ C1**	
	26	200	55.65	6 150	1.4	20	**2KJ3402 - ■ DB21 - ■ ■ B1**	
	30	176	48.29	6 240	1.6	20	**2KJ3402 - ■ DB21 - ■ ■ A1**	
	FZ.39-LA71ZML4							
	21	250	65.21	5 970	1.2	18	**2KJ3302 - ■ CH11 - ■ ■ B2**	
	24	220	57.99	6 080	1.0	18	**2KJ3302 - ■ CH11 - ■ ■ A2**	
	27	195	50.91	6 170	1.2	18	**2KJ3302 - ■ CH11 - ■ ■ X1**	
	30	177	46.29	6 240	1.4	18	**2KJ3302 - ■ CH11 - ■ ■ W1**	
	35	152	39.60	6 330	1.9	18	**2KJ3302 - ■ CH11 - ■ ■ V1**	
	38	138	36.00	6 380	1.8	18	**2KJ3302 - ■ CH11 - ■ ■ U1**	
	43	122	31.82	6 440	2.3	18	**2KJ3302 - ■ CH11 - ■ ■ T1**	
	47	111	28.93	6 480	2.5	18	**2KJ3302 - ■ CH11 - ■ ■ S1**	
	54	97	25.34	6 470	2.7	18	**2KJ3302 - ■ CH11 - ■ ■ R1**	
	59	90	23.39	6 340	2.9	18	**2KJ3302 - ■ CH11 - ■ ■ Q1**	
	66	79	20.71	6 140	3.1	18	**2KJ3302 - ■ CH11 - ■ ■ P1**	
	FZ.39-LE80MB4							
	25	210	57.99	6 110	1.1	20	**2KJ3302 - ■ DB21 - ■ ■ A2**	
	28	186	50.91	6 200	1.3	20	**2KJ3302 - ■ DB21 - ■ ■ X1**	
	31	169	46.29	6 270	1.5	20	**2KJ3302 - ■ DB21 - ■ ■ W1**	
	36	144	39.60	6 360	2.0	20	**2KJ3302 - ■ DB21 - ■ ■ V1**	
	40	131	36.00	6 410	1.9	20	**2KJ3302 - ■ DB21 - ■ ■ U1**	
	45	116	31.82	6 460	2.5	20	**2KJ3302 - ■ DB21 - ■ ■ T1**	
	50	106	28.93	6 500	2.6	20	**2KJ3302 - ■ DB21 - ■ ■ S1**	
	57	92	25.34	6 390	2.9	20	**2KJ3302 - ■ DB21 - ■ ■ R1**	
	62	85	23.39	6 260	3.0	20	**2KJ3302 - ■ DB21 - ■ ■ Q1**	
	FZ.29-LE80MB4							
	29	184	50.32	5 220	0.82	14	**2KJ3301 - ■ DB21 - ■ ■ B2**	
	33	159	43.66	5 220	0.94	14	**2KJ3301 - ■ DB21 - ■ ■ A2**	
	36	145	39.69	5 220	1.0	14	**2KJ3301 - ■ DB21 - ■ ■ X1**	
	42	124	34.04	5 150	1.2	14	**2KJ3301 - ■ DB21 - ■ ■ W1**	
	47	113	30.95	5 050	1.3	14	**2KJ3301 - ■ DB21 - ■ ■ V1**	
	53	99	27.13	4 910	1.5	14	**2KJ3301 - ■ DB21 - ■ ■ U1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.55	**FZ.29-LE80MB4**							
	59	88	24.22	4 790	1.7	14	**2KJ3301 - ■ DB21 - ■ ■ T1**	
	67	79	21.58	4 650	1.9	14	**2KJ3301 - ■ DB21 - ■ ■ S1**	
	72	73	19.92	4 560	2.1	14	**2KJ3301 - ■ DB21 - ■ ■ R1**	
	83	64	17.44	4 410	2.4	14	**2KJ3301 - ■ DB21 - ■ ■ Q1**	
	94	56	15.29	4 270	2.7	14	**2KJ3301 - ■ DB21 - ■ ■ P1**	
	104	51	13.88	4 160	3.0	14	**2KJ3301 - ■ DB21 - ■ ■ N1**	
	110	48	13.06	4 090	3.1	14	**2KJ3301 - ■ DB21 - ■ ■ M1**	
	125	42	11.51	3 960	3.4	14	**2KJ3301 - ■ DB21 - ■ ■ L1**	
	144	36	9.99	3 810	3.7	14	**2KJ3301 - ■ DB21 - ■ ■ K1**	
	149	35	9.69	3 720	4.0	14	**2KJ3301 - ■ DB21 - ■ ■ J1**	
	167	32	8.63	3 600	4.1	14	**2KJ3301 - ■ DB21 - ■ ■ H1**	
	181	29	7.97	3 530	4.1	14	**2KJ3301 - ■ DB21 - ■ ■ G1**	
	FZ.29-LA71ZML4							
	31	167	43.66	5 220	0.90	11	**2KJ3301 - ■ CH11 - ■ ■ A2**	
	35	152	39.69	5 220	0.99	11	**2KJ3301 - ■ CH11 - ■ ■ X1**	
	40	131	34.04	5 200	1.1	11	**2KJ3301 - ■ CH11 - ■ ■ W1**	
	44	119	30.95	5 100	1.3	11	**2KJ3301 - ■ CH11 - ■ ■ V1**	
	50	104	27.13	4 960	1.4	11	**2KJ3301 - ■ CH11 - ■ ■ U1**	
	57	93	24.22	4 840	1.6	11	**2KJ3301 - ■ CH11 - ■ ■ T1**	
	63	83	21.58	4 710	1.8	11	**2KJ3301 - ■ CH11 - ■ ■ S1**	
	69	76	19.92	4 620	2.0	11	**2KJ3301 - ■ CH11 - ■ ■ R1**	
	79	67	17.44	4 470	2.2	11	**2KJ3301 - ■ CH11 - ■ ■ Q1**	
	90	59	15.29	4 320	2.6	11	**2KJ3301 - ■ CH11 - ■ ■ P1**	
	99	53	13.88	4 220	2.8	11	**2KJ3301 - ■ CH11 - ■ ■ N1**	
	105	50	13.06	4 150	3.0	11	**2KJ3301 - ■ CH11 - ■ ■ M1**	
	119	44	11.51	4 010	3.2	11	**2KJ3301 - ■ CH11 - ■ ■ L1**	
	137	38	9.99	3 860	3.6	11	**2KJ3301 - ■ CH11 - ■ ■ K1**	
	141	37	9.69	3 770	3.8	11	**2KJ3301 - ■ CH11 - ■ ■ J1**	
	159	33	8.63	3 660	3.9	11	**2KJ3301 - ■ CH11 - ■ ■ H1**	
	172	31	7.97	3 570	3.9	11	**2KJ3301 - ■ CH11 - ■ ■ G1**	
0.75	**FD.129-LE90SQ6P**							
	2.2	3 190	413	37 500	1.5	171	**2KJ3408 - ■ EC23 - ■ ■ T1**	**P01**
	2.4	2 950	381	37 500	1.6	171	**2KJ3408 - ■ EC23 - ■ ■ S1**	**P01**
	2.6	2 710	351	37 500	1.8	171	**2KJ3408 - ■ EC23 - ■ ■ R1**	**P01**
	FD.109-LE90SQ6P							
	2.3	3 170	410.00	25 000	0.98	118	**2KJ3407 - ■ EC23 - ■ ■ T1**	**P01**
	2.5	2 860	370.00	25 000	1.1	118	**2KJ3407 - ■ EC23 - ■ ■ S1**	**P01**
	2.8	2 590	335.70	25 000	1.2	118	**2KJ3407 - ■ EC23 - ■ ■ R1**	**P01**
	3.0	2 390	309.87	25 000	1.3	118	**2KJ3407 - ■ EC23 - ■ ■ Q1**	**P01**
	3.3	2 180	281.68	25 000	1.4	118	**2KJ3407 - ■ EC23 - ■ ■ P1**	**P01**
	FD.89-LE90SQ6P							
	3.4	2 110	273.41	17 400	0.87	78	**2KJ3406 - ■ EC23 - ■ ■ Q1**	**P01**
	3.8	1 900	245.82	17 400	0.97	78	**2KJ3406 - ■ EC23 - ■ ■ P1**	**P01**
	FD.89-LE80ZMQ4P							
	4.3	1 650	335.30	17 400	1.1	75	**2KJ3406 - ■ DF23 - ■ ■ S1**	
	4.8	1 500	304.82	17 400	1.2	75	**2KJ3406 - ■ DF23 - ■ ■ R1**	
	5.3	1 350	273.41	17 400	1.4	75	**2KJ3406 - ■ DF23 - ■ ■ Q1**	
	5.9	1 210	245.82	17 400	1.5	75	**2KJ3406 - ■ DF23 - ■ ■ P1**	
	6.5	1 090	222.33	17 400	1.7	75	**2KJ3406 - ■ DF23 - ■ ■ N1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.75	**FD.89-LE80ZMQ4P**							
	7.1	1 010	205.23	17 400	1.8	75	**2KJ3406 - ■ DF23 - ■ ■ M1**	
	7.7	925	188.00	17 400	2.0	75	**2KJ3406 - ■ DF23 - ■ ■ L1**	
	FD.79-LE80ZMQ4P							
	5.8	1 240	250.99	13 100	0.81	44	**2KJ3405 - ■ DF23 - ■ ■ P1**	
	6.5	1 100	223.94	13 400	0.90	44	**2KJ3405 - ■ DF23 - ■ ■ N1**	
	7.2	990	200.80	13 600	1.0	44	**2KJ3405 - ■ DF23 - ■ ■ M1**	
	8.0	890	180.99	13 800	1.1	44	**2KJ3405 - ■ DF23 - ■ ■ L1**	
	8.7	825	167.07	13 900	1.2	44	**2KJ3405 - ■ DF23 - ■ ■ K1**	
	9.5	750	152.51	14 100	1.3	44	**2KJ3405 - ■ DF23 - ■ ■ J1**	
	11	625	126.54	14 300	1.6	44	**2KJ3405 - ■ DF23 - ■ ■ H1**	
	12	585	119.10	14 400	1.7	44	**2KJ3405 - ■ DF23 - ■ ■ G1**	
	13	555	112.48	14 500	1.8	44	**2KJ3405 - ■ DF23 - ■ ■ F1**	
	15	470	95.71	14 500	2.1	44	**2KJ3405 - ■ DF23 - ■ ■ E1**	
	FD.69-LE80ZMQ4P							
	11	665	135.37	10 700	0.90	37	**2KJ3404 - ■ DF23 - ■ ■ J1**	
	12	615	124.96	10 800	0.97	37	**2KJ3404 - ■ DF23 - ■ ■ H1**	
	13	545	110.63	10 900	1.1	37	**2KJ3404 - ■ DF23 - ■ ■ G1**	
	16	455	92.08	11 200	1.3	37	**2KJ3404 - ■ DF23 - ■ ■ F1**	
	17	425	86.67	11 200	1.4	37	**2KJ3404 - ■ DF23 - ■ ■ E1**	
	19	380	77.65	11 300	1.6	37	**2KJ3404 - ■ DF23 - ■ ■ D1**	
	22	325	66.11	11 400	1.8	37	**2KJ3404 - ■ DF23 - ■ ■ C1**	
	26	280	56.67	11 000	2.1	37	**2KJ3404 - ■ DF23 - ■ ■ B1**	
	30	240	48.80	10 600	2.5	37	**2KJ3404 - ■ DF23 - ■ ■ A1**	
	FZ.69-LE80ZMQ4P							
	22	315	64.67	11 400	1.9	36	**2KJ3304 - ■ DF23 - ■ ■ X1**	
	25	290	58.79	11 100	2.1	36	**2KJ3304 - ■ DF23 - ■ ■ W1**	
	29	245	50.00	10 700	2.4	36	**2KJ3304 - ■ DF23 - ■ ■ V1**	
	FD.49-LE80ZMQ4P							
	12	585	118.71	7 270	0.82	32	**2KJ3403 - ■ DF23 - ■ ■ H1**	
	14	515	105.10	7 720	0.92	32	**2KJ3403 - ■ DF23 - ■ ■ G1**	
	17	430	87.48	8 180	1.1	32	**2KJ3403 - ■ DF23 - ■ ■ F1**	
	18	405	82.33	8 250	1.2	32	**2KJ3403 - ■ DF23 - ■ ■ E1**	
	20	360	73.77	8 380	1.3	32	**2KJ3403 - ■ DF23 - ■ ■ D1**	
	23	310	62.81	8 190	1.5	32	**2KJ3403 - ■ DF23 - ■ ■ C1**	
	27	265	53.83	7 970	1.8	32	**2KJ3403 - ■ DF23 - ■ ■ B1**	
	31	225	46.36	7 760	2.1	32	**2KJ3403 - ■ DF23 - ■ ■ A1**	
	FZ.49-LE80ZMQ4P							
	24	300	61.43	8 180	1.6	31	**2KJ3303 - ■ DF23 - ■ ■ X1**	
	26	275	55.85	8 030	1.7	31	**2KJ3303 - ■ DF23 - ■ ■ W1**	
	31	235	47.50	7 770	2.0	31	**2KJ3303 - ■ DF23 - ■ ■ V1**	
	34	210	43.18	7 640	2.3	31	**2KJ3303 - ■ DF23 - ■ ■ U1**	
	38	190	38.53	7 440	2.5	31	**2KJ3303 - ■ DF23 - ■ ■ T1**	
	FD.39-LE80ZMQ4P							
	22	330	67.07	5 670	0.88	22	**2KJ3402 - ■ DF23 - ■ ■ D1**	
	23	310	63.13	5 740	0.93	22	**2KJ3402 - ■ DF23 - ■ ■ C1**	
	26	275	55.65	5 870	1.1	22	**2KJ3402 - ■ DF23 - ■ ■ B1**	
	30	235	48.29	6 020	1.2	22	**2KJ3402 - ■ DF23 - ■ ■ A1**	
	FZ.39-LE80ZMQ4P							
	25	285	57.99	5 830	0.80	22	**2KJ3302 - ■ DF23 - ■ ■ A2**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
0.75	**FZ.39-LE80ZMQ4P**							
	28	250	50.91	5 970	0.95	22	**2KJ3302 - ■ DF23 - ■ ■ X1**	
	31	225	46.29	6 060	1.1	22	**2KJ3302 - ■ DF23 - ■ ■ W1**	
	37	196	39.60	6 170	1.5	22	**2KJ3302 - ■ DF23 - ■ ■ V1**	
	40	178	36.00	6 230	1.4	22	**2KJ3302 - ■ DF23 - ■ ■ U1**	
	46	157	31.82	6 310	1.8	22	**2KJ3302 - ■ DF23 - ■ ■ T1**	
	50	143	28.93	6 310	1.9	22	**2KJ3302 - ■ DF23 - ■ ■ S1**	
	57	125	25.34	6 130	2.1	22	**2KJ3302 - ■ DF23 - ■ ■ R1**	
	62	116	23.39	6 010	2.3	22	**2KJ3302 - ■ DF23 - ■ ■ Q1**	
	70	102	20.71	5 840	2.4	22	**2KJ3302 - ■ DF23 - ■ ■ P1**	
	84	85	17.24	5 580	2.8	22	**2KJ3302 - ■ DF23 - ■ ■ N1**	
	89	80	16.22	5 490	2.9	22	**2KJ3302 - ■ DF23 - ■ ■ M1**	
	100	72	14.54	5 330	3.1	22	**2KJ3302 - ■ DF23 - ■ ■ L1**	
	117	61	12.38	5 100	3.4	22	**2KJ3302 - ■ DF23 - ■ ■ K1**	
	137	52	10.61	4 890	3.8	22	**2KJ3302 - ■ DF23 - ■ ■ J1**	
	179	40	8.10	4 490	4.2	22	**2KJ3302 - ■ DF23 - ■ ■ G1**	
	FZ.29-LE80ZMQ4P							
	43	168	34.04	4 770	0.89	16	**2KJ3301 - ■ DF23 - ■ ■ W1**	
	47	153	30.95	4 700	0.98	16	**2KJ3301 - ■ DF23 - ■ ■ V1**	
	53	134	27.13	4 600	1.1	16	**2KJ3301 - ■ DF23 - ■ ■ U1**	
	60	120	24.22	4 510	1.3	16	**2KJ3301 - ■ DF23 - ■ ■ T1**	
	67	107	21.58	4 410	1.4	16	**2KJ3301 - ■ DF23 - ■ ■ S1**	
	73	98	19.92	4 340	1.5	16	**2KJ3301 - ■ DF23 - ■ ■ R1**	
	83	86	17.44	4 220	1.7	16	**2KJ3301 - ■ DF23 - ■ ■ Q1**	
	95	76	15.29	4 090	2.0	16	**2KJ3301 - ■ DF23 - ■ ■ P1**	
	104	69	13.88	4 000	2.2	16	**2KJ3301 - ■ DF23 - ■ ■ N1**	
	111	64	13.06	3 950	2.3	16	**2KJ3301 - ■ DF23 - ■ ■ M1**	
	126	57	11.51	3 820	2.5	16	**2KJ3301 - ■ DF23 - ■ ■ L1**	
	145	49	9.99	3 690	2.8	16	**2KJ3301 - ■ DF23 - ■ ■ K1**	
	150	48	9.69	3 590	3.0	16	**2KJ3301 - ■ DF23 - ■ ■ J1**	
	168	43	8.63	3 490	3.0	16	**2KJ3301 - ■ DF23 - ■ ■ H1**	
	182	39	7.97	3 420	3.0	16	**2KJ3301 - ■ DF23 - ■ ■ G1**	
	208	34	6.98	3 300	3.6	16	**2KJ3301 - ■ DF23 - ■ ■ F1**	
	237	30	6.12	3 190	3.8	16	**2KJ3301 - ■ DF23 - ■ ■ E1**	
	261	27	5.55	3 110	3.9	16	**2KJ3301 - ■ DF23 - ■ ■ D1**	
	278	26	5.22	3 050	4.1	16	**2KJ3301 - ■ DF23 - ■ ■ C1**	
	315	23	4.60	2 940	4.3	16	**2KJ3301 - ■ DF23 - ■ ■ B1**	
	362	20	4.00	2 820	4.6	16	**2KJ3301 - ■ DF23 - ■ ■ A1**	
	FZ.29-LE80ME2P							
	161	44	17.44	3 590	3.4	15	**2KJ3301 - ■ DB23 - ■ ■ Q1**	**P00**
	183	39	15.29	3 460	3.8	15	**2KJ3301 - ■ DB23 - ■ ■ P1**	**P00**
	202	35	13.88	3 380	4.2	15	**2KJ3301 - ■ DB23 - ■ ■ N1**	**P00**
	215	33	13.06	3 320	4.5	15	**2KJ3301 - ■ DB23 - ■ ■ M1**	**P00**
1.1	**FD.129-LE90ZLR6P**							
	2.3	4 640	413.00	37 400	1.0	174	**2KJ3408 - ■ EM23 - ■ ■ T1**	**P01**
	2.5	4 280	381.00	37 500	1.1	174	**2KJ3408 - ■ EM23 - ■ ■ S1**	**P01**
	2.7	3 940	351.00	37 500	1.2	174	**2KJ3408 - ■ EM23 - ■ ■ R1**	**P01**
	3.1	3 360	299.31	37 500	1.4	174	**2KJ3408 - ■ EM23 - ■ ■ Q1**	**P01**
	3.3	3 160	281.70	37 500	1.5	174	**2KJ3408 - ■ EM23 - ■ ■ P1**	**P01**

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 10/44
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Gearbox mounting type	**A, D, F or H**	➞ page 10/37

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
1.1	**FD.129-LE90SM4P**							
	3.5	3 040	413.00	37 500	1.6	171	**2KJ3408 - ■ EK23 - ■ ■ T1**	
	3.7	2 800	381.00	37 500	1.7	171	**2KJ3408 - ■ EK23 - ■ ■ S1**	
	4.1	2 580	351.00	37 500	1.9	171	**2KJ3408 - ■ EK23 - ■ ■ R1**	
	FD.109-LE90ZLR6P							
	2.8	3 770	335.70	25 000	0.82	121	**2KJ3407 - ■ EM23 - ■ ■ R1**	**P01**
	3.0	3 480	309.87	25 000	0.89	121	**2KJ3407 - ■ EM23 - ■ ■ Q1**	**P01**
	3.3	3 160	281.68	25 000	0.98	121	**2KJ3407 - ■ EM23 - ■ ■ P1**	**P01**
	FD.109-LE90SM4P							
	3.5	3 020	410.00	25 000	1.0	118	**2KJ3407 - ■ EK23 - ■ ■ T1**	
	3.9	2 720	370.00	25 000	1.1	118	**2KJ3407 - ■ EK23 - ■ ■ S1**	
	4.2	2 470	335.70	25 000	1.3	118	**2KJ3407 - ■ EK23 - ■ ■ R1**	
	4.6	2 280	309.87	25 000	1.4	118	**2KJ3407 - ■ EK23 - ■ ■ Q1**	
	5.1	2 070	281.68	25 000	1.5	118	**2KJ3407 - ■ EK23 - ■ ■ P1**	
	6.0	1 750	238.52	25 000	1.8	118	**2KJ3407 - ■ EK23 - ■ ■ N1**	
	6.3	1 650	224.49	25 000	1.9	118	**2KJ3407 - ■ EK23 - ■ ■ M1**	
	6.9	1 520	207.31	25 000	2.00	118	**2KJ3407 - ■ EK23 - ■ ■ L1**	
	FD.89-LE90SM4P							
	4.7	2 240	304.82	17 400	0.82	78	**2KJ3406 - ■ EK23 - ■ ■ R1**	
	5.2	2 010	273.41	17 400	0.92	78	**2KJ3406 - ■ EK23 - ■ ■ Q1**	
	5.8	1 810	245.82	17 400	1.0	78	**2KJ3406 - ■ EK23 - ■ ■ P1**	
	6.4	1 630	222.33	17 400	1.1	78	**2KJ3406 - ■ EK23 - ■ ■ N1**	
	6.9	1 510	205.23	17 400	1.2	78	**2KJ3406 - ■ EK23 - ■ ■ M1**	
	7.6	1 380	188.00	17 400	1.3	78	**2KJ3406 - ■ EK23 - ■ ■ L1**	
	9.0	1 160	157.74	17 400	1.6	78	**2KJ3406 - ■ EK23 - ■ ■ K1**	
	9.6	1 090	148.46	17 400	1.7	78	**2KJ3406 - ■ EK23 - ■ ■ J1**	
	10	1 000	136.21	17 400	1.8	78	**2KJ3406 - ■ EK23 - ■ ■ H1**	
	12	875	118.98	17 400	2.1	78	**2KJ3406 - ■ EK23 - ■ ■ G1**	
	FD.79-LE90SM4P							
	8.5	1 230	167.07	13 100	0.81	46	**2KJ3405 - ■ EK23 - ■ ■ K1**	
	9.3	1 120	152.51	13 300	0.89	46	**2KJ3405 - ■ EK23 - ■ ■ J1**	
	11	930	126.54	13 700	1.1	46	**2KJ3405 - ■ EK23 - ■ ■ H1**	
	12	875	119.10	13 800	1.1	46	**2KJ3405 - ■ EK23 - ■ ■ G1**	
	13	825	112.48	13 900	1.2	46	**2KJ3405 - ■ EK23 - ■ ■ F1**	
	15	705	95.71	14 200	1.4	46	**2KJ3405 - ■ EK23 - ■ ■ E1**	
	17	600	81.99	14 400	1.7	46	**2KJ3405 - ■ EK23 - ■ ■ D1**	
	20	530	72.09	14 500	1.9	46	**2KJ3405 - ■ EK23 - ■ ■ C1**	
	23	445	60.82	14 500	2.2	46	**2KJ3405 - ■ EK23 - ■ ■ B1**	
	FZ.79-LE90SM4P							
	27	395	53.55	14 500	2.5	45	**2KJ3305 - ■ EK23 - ■ ■ X1**	
	FD.69-LE90SM4P							
	15	675	92.08	10 600	0.88	37	**2KJ3404 - ■ EK23 - ■ ■ F1**	
	16	635	86.67	10 700	0.94	37	**2KJ3404 - ■ EK23 - ■ ■ E1**	
	18	570	77.65	10 700	1.0	37	**2KJ3404 - ■ EK23 - ■ ■ D1**	
	22	485	66.11	10 500	1.2	37	**2KJ3404 - ■ EK23 - ■ ■ C1**	
	25	415	56.67	10 200	1.4	37	**2KJ3404 - ■ EK23 - ■ ■ B1**	
	29	360	48.80	9 990	1.7	37	**2KJ3404 - ■ EK23 - ■ ■ A1**	
	FZ.69-LE90SM4P							
	22	475	64.67	10 400	1.3	37	**2KJ3304 - ■ EK23 - ■ ■ X1**	
	24	430	58.79	10 300	1.4	37	**2KJ3304 - ■ EK23 - ■ ■ W1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.1	**FZ.69-LE90SM4P**							
	28	365	50.00	10 000	1.6	37	**2KJ3304 - ■ EK23 - ■ ■ V1**	
	31	335	45.45	9 860	1.8	37	**2KJ3304 - ■ EK23 - ■ ■ U1**	
	35	295	40.56	9 660	2.0	37	**2KJ3304 - ■ EK23 - ■ ■ T1**	
	39	265	36.36	9 440	2.2	37	**2KJ3304 - ■ EK23 - ■ ■ S1**	
	43	240	32.78	9 220	2.5	37	**2KJ3304 - ■ EK23 - ■ ■ R1**	
	47	220	30.26	9 060	2.7	37	**2KJ3304 - ■ EK23 - ■ ■ Q1**	
	52	200	27.62	8 870	2.9	37	**2KJ3304 - ■ EK23 - ■ ■ P1**	
	FD.49-LE90SM4P							
	19	540	73.77	7 310	0.88	32	**2KJ3403 - ■ EK23 - ■ ■ D1**	
	23	460	62.81	7 270	1.0	32	**2KJ3403 - ■ EK23 - ■ ■ C1**	
	26	395	53.83	7 180	1.2	32	**2KJ3403 - ■ EK23 - ■ ■ B1**	
	31	340	46.36	7 060	1.4	32	**2KJ3403 - ■ EK23 - ■ ■ A1**	
	FZ.49-LE90SM4P							
	23	450	61.43	7 260	1.1	32	**2KJ3303 - ■ EK23 - ■ ■ X1**	
	26	410	55.85	7 200	1.2	32	**2KJ3303 - ■ EK23 - ■ ■ W1**	
	30	350	47.50	7 070	1.4	32	**2KJ3303 - ■ EK23 - ■ ■ V1**	
	33	315	43.18	7 010	1.5	32	**2KJ3303 - ■ EK23 - ■ ■ U1**	
	37	280	38.53	6 900	1.7	32	**2KJ3303 - ■ EK23 - ■ ■ T1**	
	41	255	34.55	6 750	1.9	32	**2KJ3303 - ■ EK23 - ■ ■ S1**	
	46	230	31.14	6 630	2.1	32	**2KJ3303 - ■ EK23 - ■ ■ R1**	
	50	210	28.74	6 550	2.3	32	**2KJ3303 - ■ EK23 - ■ ■ Q1**	
	54	193	26.24	6 420	2.5	32	**2KJ3303 - ■ EK23 - ■ ■ P1**	
	65	160	21.77	6 170	3.0	32	**2KJ3303 - ■ EK23 - ■ ■ N1**	
	FD.39-LE90SM4P							
	30	355	48.29	5 570	0.81	25	**2KJ3402 - ■ EK23 - ■ ■ A1**	
	FZ.39-LE90SM4P							
	36	290	39.60	5 820	0.99	24	**2KJ3302 - ■ EK23 - ■ ■ V1**	
	40	265	36.00	5 910	0.96	24	**2KJ3302 - ■ EK23 - ■ ■ U1**	
	45	235	31.82	5 910	1.2	24	**2KJ3302 - ■ EK23 - ■ ■ T1**	
	49	210	28.93	5 860	1.3	24	**2KJ3302 - ■ EK23 - ■ ■ S1**	
	56	187	25.34	5 710	1.4	24	**2KJ3302 - ■ EK23 - ■ ■ R1**	
	61	172	23.39	5 630	1.5	24	**2KJ3302 - ■ EK23 - ■ ■ Q1**	
	69	153	20.71	5 500	1.6	24	**2KJ3302 - ■ EK23 - ■ ■ P1**	
	83	127	17.24	5 300	1.8	24	**2KJ3302 - ■ EK23 - ■ ■ N1**	
	88	120	16.22	5 230	1.9	24	**2KJ3302 - ■ EK23 - ■ ■ M1**	
	98	107	14.54	5 100	2.1	24	**2KJ3302 - ■ EK23 - ■ ■ L1**	
	115	91	12.38	4 910	2.3	24	**2KJ3302 - ■ EK23 - ■ ■ K1**	
	134	78	10.61	4 730	2.5	24	**2KJ3302 - ■ EK23 - ■ ■ J1**	
	156	67	9.13	4 550	2.8	24	**2KJ3302 - ■ EK23 - ■ ■ H1**	
	176	60	8.10	4 350	2.8	24	**2KJ3302 - ■ EK23 - ■ ■ G1**	
	211	50	6.74	4 150	3.1	24	**2KJ3302 - ■ EK23 - ■ ■ F1**	
	224	47	6.35	4 080	3.2	24	**2KJ3302 - ■ EK23 - ■ ■ E1**	
	250	42	5.69	3 960	3.3	24	**2KJ3302 - ■ EK23 - ■ ■ D1**	
	294	36	4.84	3 790	3.6	24	**2KJ3302 - ■ EK23 - ■ ■ C1**	
	343	31	4.15	3 630	3.9	24	**2KJ3302 - ■ EK23 - ■ ■ B1**	
	399	26	3.57	3 480	4.1	24	**2KJ3302 - ■ EK23 - ■ ■ A1**	
	FZ.39-LE80ZMJ2P							
	164	64	17.24	4 490	3.7	22	**2KJ3302 - ■ DM23 - ■ ■ N1**	**P00**
	175	60	16.22	4 420	3.8	22	**2KJ3302 - ■ DM23 - ■ ■ M1**	**P00**

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
1.1	**FZ.39-LE80ZMJ2P**							
	195	54	14.54	4 290	4.1	22	**2KJ3302 - ■ DM23 - ■ ■ L1**	**P00**
	229	46	12.38	4 100	4.6	22	**2KJ3302 - ■ DM23 - ■ ■ K1**	**P00**
	FZ.29-LE90SM4P							
	59	179	24.22	4 050	0.84	18	**2KJ3301 - ■ EK23 - ■ ■ T1**	
	66	159	21.58	4 010	0.94	18	**2KJ3301 - ■ EK23 - ■ ■ S1**	
	72	147	19.92	3 970	1.0	18	**2KJ3301 - ■ EK23 - ■ ■ R1**	
	82	129	17.44	3 890	1.2	18	**2KJ3301 - ■ EK23 - ■ ■ Q1**	
	93	113	15.29	3 810	1.3	18	**2KJ3301 - ■ EK23 - ■ ■ P1**	
	103	102	13.88	3 750	1.5	18	**2KJ3301 - ■ EK23 - ■ ■ N1**	
	109	96	13.06	3 710	1.6	18	**2KJ3301 - ■ EK23 - ■ ■ M1**	
	124	85	11.51	3 610	1.7	18	**2KJ3301 - ■ EK23 - ■ ■ L1**	
	143	74	9.99	3 510	1.8	18	**2KJ3301 - ■ EK23 - ■ ■ K1**	
	147	71	9.69	3 390	2.0	18	**2KJ3301 - ■ EK23 - ■ ■ J1**	
	165	64	8.63	3 300	2.0	18	**2KJ3301 - ■ EK23 - ■ ■ H1**	
	179	59	7.97	3 250	2.0	18	**2KJ3301 - ■ EK23 - ■ ■ G1**	
	204	52	6.98	3 150	2.4	18	**2KJ3301 - ■ EK23 - ■ ■ F1**	
	233	45	6.12	3 060	2.5	18	**2KJ3301 - ■ EK23 - ■ ■ E1**	
	257	41	5.55	2 990	2.6	18	**2KJ3301 - ■ EK23 - ■ ■ D1**	
	273	38	5.22	2 950	2.8	18	**2KJ3301 - ■ EK23 - ■ ■ C1**	
	310	34	4.60	2 850	2.9	18	**2KJ3301 - ■ EK23 - ■ ■ B1**	
	356	30	4.00	2 740	3.1	18	**2KJ3301 - ■ EK23 - ■ ■ A1**	
	FZ.29-LE80ZMJ2P							
	163	65	17.44	3 400	2.3	16	**2KJ3301 - ■ DM23 - ■ ■ Q1**	**P00**
	185	57	15.29	3 300	2.6	16	**2KJ3301 - ■ DM23 - ■ ■ P1**	**P00**
	204	51	13.88	3 230	2.9	16	**2KJ3301 - ■ DM23 - ■ ■ N1**	**P00**
	217	48	13.06	3 180	3.1	16	**2KJ3301 - ■ DM23 - ■ ■ M1**	**P00**
	246	43	11.51	3 080	3.4	16	**2KJ3301 - ■ DM23 - ■ ■ L1**	**P00**
	284	37	9.99	2 970	3.7	16	**2KJ3301 - ■ DM23 - ■ ■ K1**	**P00**
	293	36	9.69	2 890	4.0	16	**2KJ3301 - ■ DM23 - ■ ■ J1**	**P00**
	329	32	8.63	2 810	4.1	16	**2KJ3301 - ■ DM23 - ■ ■ H1**	**P00**
	356	30	7.97	2 750	4.1	16	**2KJ3301 - ■ DM23 - ■ ■ G1**	**P00**
	406	26	6.98	2 650	4.8	16	**2KJ3301 - ■ DM23 - ■ ■ F1**	**P00**
	463	23	6.12	2 560	5.0	16	**2KJ3301 - ■ DM23 - ■ ■ E1**	**P00**
	511	21	5.55	2 490	5.3	16	**2KJ3301 - ■ DM23 - ■ ■ D1**	**P00**
	543	19	5.22	2 450	5.5	16	**2KJ3301 - ■ DM23 - ■ ■ C1**	**P00**
	616	17	4.60	2 360	5.7	16	**2KJ3301 - ■ DM23 - ■ ■ B1**	**P00**
	709	15	4.00	2 270	6.1	16	**2KJ3301 - ■ DM23 - ■ ■ A1**	**P00**
1.5	**FD.149-LE100LLB6P**							
	2.6	5 560	377.00	65 000	1.4	275	**2KJ3410 - ■ FM23 - ■ ■ W1**	**P01**
	3.0	4 770	323.04	65 000	1.7	275	**2KJ3410 - ■ FM23 - ■ ■ V1**	**P01**
	3.2	4 490	304.03	65 000	1.8	275	**2KJ3410 - ■ FM23 - ■ ■ U1**	**P01**
	3.4	4 200	285.00	65 000	1.9	275	**2KJ3410 - ■ FM23 - ■ ■ T1**	**P01**
	FD.129-LE100LLB6P							
	2.3	6 090	413.00	35 900	0.80	188	**2KJ3408 - ■ FM23 - ■ ■ T1**	**P01**
	2.5	5 620	381.00	36 400	0.86	188	**2KJ3408 - ■ FM23 - ■ ■ S1**	**P01**
	2.8	5 180	351.00	36 800	0.94	188	**2KJ3408 - ■ FM23 - ■ ■ R1**	**P01**
	3.2	4 420	299.31	37 500	1.1	188	**2KJ3408 - ■ FM23 - ■ ■ Q1**	**P01**
	FD.129-LE90ZLR4P							
	3.5	4 090	413.00	37 500	1.2	174	**2KJ3408 - ■ EM23 - ■ ■ T1**	

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Gearbox mounting type	**A, D, F or H**	➞ page 10/37

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
1.5	**FD.129-LE90ZLR4P**							
	3.8	3 770	381.00	37 500	1.3	174	**2KJ3408 - ■ EM23 - ■ ■ S1**	
	4.1	3 480	351.00	37 500	1.4	174	**2KJ3408 - ■ EM23 - ■ ■ R1**	
	4.8	2 960	299.31	37 500	1.6	174	**2KJ3408 - ■ EM23 - ■ ■ Q1**	
	5.1	2 790	281.70	37 500	1.7	174	**2KJ3408 - ■ EM23 - ■ ■ P1**	
	5.5	2 590	261.42	37 500	1.9	174	**2KJ3408 - ■ EM23 - ■ ■ N1**	
	6.3	2 290	231.12	37 500	2.1	174	**2KJ3408 - ■ EM23 - ■ ■ M1**	
	FD.109-LE90ZLR4P							
	3.9	3 660	370.00	25 000	0.85	121	**2KJ3407 - ■ EM23 - ■ ■ S1**	
	4.3	3 320	335.70	25 000	0.93	121	**2KJ3407 - ■ EM23 - ■ ■ R1**	
	4.7	3 070	309.87	25 000	1.0	121	**2KJ3407 - ■ EM23 - ■ ■ Q1**	
	5.1	2 790	281.68	25 000	1.1	121	**2KJ3407 - ■ EM23 - ■ ■ P1**	
	6.1	2 360	238.52	25 000	1.3	121	**2KJ3407 - ■ EM23 - ■ ■ N1**	
	6.4	2 220	224.49	25 000	1.4	121	**2KJ3407 - ■ EM23 - ■ ■ M1**	
	7.0	2 050	207.31	25 000	1.5	121	**2KJ3407 - ■ EM23 - ■ ■ L1**	
	7.8	1 820	184.46	25 000	1.7	121	**2KJ3407 - ■ EM23 - ■ ■ K1**	
	8.8	1 620	163.83	25 000	1.9	121	**2KJ3407 - ■ EM23 - ■ ■ J1**	
	9.9	1 450	146.65	25 000	2.1	121	**2KJ3407 - ■ EM23 - ■ ■ H1**	
	FD.89-LE90ZLR4P							
	6.5	2 200	222.33	17 400	0.84	81	**2KJ3406 - ■ EM23 - ■ ■ N1**	
	7.0	2 030	205.23	17 400	0.91	81	**2KJ3406 - ■ EM23 - ■ ■ M1**	
	7.7	1 860	188.00	17 400	0.99	81	**2KJ3406 - ■ EM23 - ■ ■ L1**	
	9.2	1 560	157.74	17 400	1.2	81	**2KJ3406 - ■ EM23 - ■ ■ K1**	
	9.7	1 470	148.46	17 400	1.3	81	**2KJ3406 - ■ EM23 - ■ ■ J1**	
	11	1 350	136.21	17 400	1.4	81	**2KJ3406 - ■ EM23 - ■ ■ H1**	
	12	1 180	118.98	17 400	1.6	81	**2KJ3406 - ■ EM23 - ■ ■ G1**	
	14	1 050	106.52	17 400	1.8	81	**2KJ3406 - ■ EM23 - ■ ■ F1**	
	16	920	93.14	17 400	2.0	81	**2KJ3406 - ■ EM23 - ■ ■ E1**	
	18	790	79.95	17 400	2.3	81	**2KJ3406 - ■ EM23 - ■ ■ D1**	
	FD.79-LE90ZLR4P							
	11	1 250	126.54	13 100	0.80	49	**2KJ3405 - ■ EM23 - ■ ■ H1**	
	12	1 180	119.10	13 200	0.85	49	**2KJ3405 - ■ EM23 - ■ ■ G1**	
	13	1 110	112.48	13 400	0.90	49	**2KJ3405 - ■ EM23 - ■ ■ F1**	
	15	945	95.71	13 700	1.1	49	**2KJ3405 - ■ EM23 - ■ ■ E1**	
	18	810	81.99	13 900	1.2	49	**2KJ3405 - ■ EM23 - ■ ■ D1**	
	20	715	72.09	14 100	1.4	49	**2KJ3405 - ■ EM23 - ■ ■ C1**	
	24	600	60.82	14 400	1.7	49	**2KJ3405 - ■ EM23 - ■ ■ B1**	
	27	525	53.01	14 500	1.9	49	**2KJ3405 - ■ EM23 - ■ ■ A1**	
	FZ.79-LE90ZLR4P							
	27	530	53.55	14 500	1.9	48	**2KJ3305 - ■ EM23 - ■ ■ X1**	
	30	475	48.03	14 500	2.1	48	**2KJ3305 - ■ EM23 - ■ ■ W1**	
	33	425	43.18	14 500	2.3	48	**2KJ3305 - ■ EM23 - ■ ■ V1**	
	37	385	39.06	14 500	2.6	48	**2KJ3305 - ■ EM23 - ■ ■ U1**	
	FD.69-LE90ZLR4P							
	22	655	66.11	9 410	0.92	40	**2KJ3404 - ■ EM23 - ■ ■ C1**	
	25	560	56.67	9 320	1.1	40	**2KJ3404 - ■ EM23 - ■ ■ B1**	
	30	480	48.80	9 200	1.2	40	**2KJ3404 - ■ EM23 - ■ ■ A1**	
	FZ.69-LE90ZLR4P							
	22	640	64.67	9 410	0.94	40	**2KJ3304 - ■ EM23 - ■ ■ X1**	
	25	580	58.79	9 360	1.0	40	**2KJ3304 - ■ EM23 - ■ ■ W1**	

Article No. supplement		
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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
1.5	**FZ.69-LE90ZLR4P**							
	29	495	50.00	9 200	1.2	40	**2KJ3304 - ■ EM23 - ■ ■ V1**	
	32	450	45.45	9 100	1.3	40	**2KJ3304 - ■ EM23 - ■ ■ U1**	
	36	400	40.56	8 960	1.5	40	**2KJ3304 - ■ EM23 - ■ ■ T1**	
	40	360	36.36	8 800	1.7	40	**2KJ3304 - ■ EM23 - ■ ■ S1**	
	44	325	32.78	8 640	1.8	40	**2KJ3304 - ■ EM23 - ■ ■ R1**	
	48	300	30.26	8 520	2.0	40	**2KJ3304 - ■ EM23 - ■ ■ Q1**	
	52	270	27.62	8 390	2.2	40	**2KJ3304 - ■ EM23 - ■ ■ P1**	
	63	225	22.92	8 060	2.6	40	**2KJ3304 - ■ EM23 - ■ ■ N1**	
	67	210	21.57	7 970	2.8	40	**2KJ3304 - ■ EM23 - ■ ■ M1**	
	71	200	20.37	7 850	3.0	40	**2KJ3304 - ■ EM23 - ■ ■ L1**	
	FD.49-LE90ZLR4P							
	27	530	53.83	6 250	0.90	35	**2KJ3403 - ■ EM23 - ■ ■ B1**	
	31	460	46.36	6 240	1.0	35	**2KJ3403 - ■ EM23 - ■ ■ A1**	
	FZ.49-LE90ZLR4P							
	26	550	55.85	6 240	0.87	35	**2KJ3303 - ■ EM23 - ■ ■ W1**	
	30	470	47.50	6 250	1.0	35	**2KJ3303 - ■ EM23 - ■ ■ V1**	
	33	425	43.18	6 250	1.1	35	**2KJ3303 - ■ EM23 - ■ ■ U1**	
	38	380	38.53	6 210	1.3	35	**2KJ3303 - ■ EM23 - ■ ■ T1**	
	42	340	34.55	6 160	1.4	35	**2KJ3303 - ■ EM23 - ■ ■ S1**	
	46	305	31.14	6 100	1.6	35	**2KJ3303 - ■ EM23 - ■ ■ R1**	
	50	285	28.74	6 020	1.7	35	**2KJ3303 - ■ EM23 - ■ ■ Q1**	
	55	260	26.24	5 950	1.8	35	**2KJ3303 - ■ EM23 - ■ ■ P1**	
	66	215	21.77	5 780	2.2	35	**2KJ3303 - ■ EM23 - ■ ■ N1**	
	71	200	20.49	5 730	2.4	35	**2KJ3303 - ■ EM23 - ■ ■ M1**	
	75	192	19.35	5 650	2.5	35	**2KJ3303 - ■ EM23 - ■ ■ L1**	
	88	163	16.47	5 480	2.9	35	**2KJ3303 - ■ EM23 - ■ ■ K1**	
	102	140	14.11	5 300	3.4	35	**2KJ3303 - ■ EM23 - ■ ■ J1**	
	FZ.39-LE90ZLR4P							
	45	315	31.82	5 280	0.90	27	**2KJ3302 - ■ EM23 - ■ ■ T1**	
	50	285	28.93	5 260	0.96	27	**2KJ3302 - ■ EM23 - ■ ■ S1**	
	57	250	25.34	5 200	1.1	27	**2KJ3302 - ■ EM23 - ■ ■ R1**	
	62	230	23.39	5 170	1.1	27	**2KJ3302 - ■ EM23 - ■ ■ Q1**	
	70	205	20.71	5 080	1.2	27	**2KJ3302 - ■ EM23 - ■ ■ P1**	
	84	171	17.24	4 940	1.4	27	**2KJ3302 - ■ EM23 - ■ ■ N1**	
	89	161	16.22	4 890	1.4	27	**2KJ3302 - ■ EM23 - ■ ■ M1**	
	99	144	14.54	4 800	1.5	27	**2KJ3302 - ■ EM23 - ■ ■ L1**	
	117	123	12.38	4 650	1.7	27	**2KJ3302 - ■ EM23 - ■ ■ K1**	
	136	105	10.61	4 500	1.9	27	**2KJ3302 - ■ EM23 - ■ ■ J1**	
	158	90	9.13	4 360	2.1	27	**2KJ3302 - ■ EM23 - ■ ■ H1**	
	178	80	8.10	4 160	2.1	27	**2KJ3302 - ■ EM23 - ■ ■ G1**	
	214	67	6.74	3 990	2.3	27	**2KJ3302 - ■ EM23 - ■ ■ F1**	
	228	63	6.35	3 930	2.4	27	**2KJ3302 - ■ EM23 - ■ ■ E1**	
	254	56	5.69	3 830	2.5	27	**2KJ3302 - ■ EM23 - ■ ■ D1**	
	299	48	4.84	3 670	2.7	27	**2KJ3302 - ■ EM23 - ■ ■ C1**	
	348	41	4.15	3 520	2.9	27	**2KJ3302 - ■ EM23 - ■ ■ B1**	
	405	35	3.57	3 390	3.1	27	**2KJ3302 - ■ EM23 - ■ ■ A1**	
	FZ.39-LE90SM2P							
	167	86	17.24	4 290	2.7	24	**2KJ3302 - ■ EK23 - ■ ■ N1**	**P00**
	178	80	16.22	4 240	2.9	24	**2KJ3302 - ■ EK23 - ■ ■ M1**	**P00**

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
1.5	**FZ.39-LE90SM2P**							
	198	72	14.54	4 130	3.0	24	**2KJ3302 - ■ EK23 - ■ ■ L1**	**P00**
	233	62	12.38	3 960	3.4	24	**2KJ3302 - ■ EK23 - ■ ■ K1**	**P00**
	272	53	10.61	3 800	3.8	24	**2KJ3302 - ■ EK23 - ■ ■ J1**	**P00**
	316	45	9.13	3 660	4.2	24	**2KJ3302 - ■ EK23 - ■ ■ H1**	**P00**
	356	40	8.10	3 500	4.2	24	**2KJ3302 - ■ EK23 - ■ ■ G1**	**P00**
	428	34	6.74	3 330	4.5	24	**2KJ3302 - ■ EK23 - ■ ■ F1**	**P00**
	454	32	6.35	3 270	4.7	24	**2KJ3302 - ■ EK23 - ■ ■ E1**	**P00**
	507	28	5.69	3 180	5.0	24	**2KJ3302 - ■ EK23 - ■ ■ D1**	**P00**
	596	24	4.84	3 030	5.3	24	**2KJ3302 - ■ EK23 - ■ ■ C1**	**P00**
	695	21	4.15	2 890	5.7	24	**2KJ3302 - ■ EK23 - ■ ■ B1**	**P00**
	808	18	3.57	2 770	6.1	24	**2KJ3302 - ■ EK23 - ■ ■ A1**	**P00**
	FZ.29-LE90ZLR4P							
	83	173	17.44	3 500	0.87	21	**2KJ3301 - ■ EM23 - ■ ■ Q1**	
	95	152	15.29	3 460	0.99	21	**2KJ3301 - ■ EM23 - ■ ■ P1**	
	104	138	13.88	3 430	1.1	21	**2KJ3301 - ■ EM23 - ■ ■ N1**	
	111	129	13.06	3 410	1.2	21	**2KJ3301 - ■ EM23 - ■ ■ M1**	
	126	114	11.51	3 350	1.3	21	**2KJ3301 - ■ EM23 - ■ ■ L1**	
	145	99	9.99	3 280	1.4	21	**2KJ3301 - ■ EM23 - ■ ■ K1**	
	149	96	9.69	3 130	1.5	21	**2KJ3301 - ■ EM23 - ■ ■ J1**	
	167	86	8.63	3 070	1.5	21	**2KJ3301 - ■ EM23 - ■ ■ H1**	
	181	79	7.97	3 040	1.5	21	**2KJ3301 - ■ EM23 - ■ ■ G1**	
	207	69	6.98	2 970	1.8	21	**2KJ3301 - ■ EM23 - ■ ■ F1**	
	236	61	6.12	2 890	1.9	21	**2KJ3301 - ■ EM23 - ■ ■ E1**	
	260	55	5.55	2 840	2.0	21	**2KJ3301 - ■ EM23 - ■ ■ D1**	
	277	52	5.22	2 800	2.0	21	**2KJ3301 - ■ EM23 - ■ ■ C1**	
	314	46	4.60	2 720	2.1	21	**2KJ3301 - ■ EM23 - ■ ■ B1**	
	361	40	4.00	2 630	2.3	21	**2KJ3301 - ■ EM23 - ■ ■ A1**	
	FZ.29-LE90SM2P							
	165	87	17.44	3 200	1.7	18	**2KJ3301 - ■ EK23 - ■ ■ Q1**	**P00**
	189	76	15.29	3 120	2.0	18	**2KJ3301 - ■ EK23 - ■ ■ P1**	**P00**
	208	69	13.88	3 060	2.2	18	**2KJ3301 - ■ EK23 - ■ ■ N1**	**P00**
	221	65	13.06	3 020	2.3	18	**2KJ3301 - ■ EK23 - ■ ■ M1**	**P00**
	251	57	11.51	2 940	2.5	18	**2KJ3301 - ■ EK23 - ■ ■ L1**	**P00**
	289	50	9.99	2 840	2.7	18	**2KJ3301 - ■ EK23 - ■ ■ K1**	**P00**
	298	48	9.69	2 760	3.0	18	**2KJ3301 - ■ EK23 - ■ ■ J1**	**P00**
	334	43	8.63	2 680	3.0	18	**2KJ3301 - ■ EK23 - ■ ■ H1**	**P00**
	362	40	7.97	2 630	3.0	18	**2KJ3301 - ■ EK23 - ■ ■ G1**	**P00**
	413	35	6.98	2 550	3.5	18	**2KJ3301 - ■ EK23 - ■ ■ F1**	**P00**
	471	30	6.12	2 470	3.8	18	**2KJ3301 - ■ EK23 - ■ ■ E1**	**P00**
	520	28	5.55	2 400	3.9	18	**2KJ3301 - ■ EK23 - ■ ■ D1**	**P00**
	553	26	5.22	2 370	4.1	18	**2KJ3301 - ■ EK23 - ■ ■ C1**	**P00**
	627	23	4.60	2 290	4.2	18	**2KJ3301 - ■ EK23 - ■ ■ B1**	**P00**
	721	20	4.00	2 200	4.6	18	**2KJ3301 - ■ EK23 - ■ ■ A1**	**P00**
2.2	**FD.169-LE112ZMKB6P**							
	2.6	7 970	368.00	73 500	1.7	426	**2KJ3411 - ■ GJ23 - ■ ■ V1**	**P01**
	2.8	7 430	343.01	73 500	1.8	426	**2KJ3411 - ■ GJ23 - ■ ■ U1**	**P01**
	FD.149-LE112ZMKB6P							
	2.6	8 160	377.00	65 000	0.98	280	**2KJ3410 - ■ GJ23 - ■ ■ W1**	**P01**

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
2.2	**FD.149-LE112ZMKB6P**							
	3.0	6 990	323.04	65 000	1.1	280	**2KJ3410 - ■ GJ23 - ■ ■ V1**	**P01**
	3.2	6 580	304.03	65 000	1.2	280	**2KJ3410 - ■ GJ23 - ■ ■ U1**	**P01**
	3.4	6 170	285.00	65 000	1.3	280	**2KJ3410 - ■ GJ23 - ■ ■ T1**	**P01**
	FD.149-LE100ZLSA4P							
	3.9	5 400	377.00	65 000	1.5	278	**2KJ3410 - ■ FN23 - ■ ■ W1**	
	4.5	4 630	323.04	65 000	1.7	278	**2KJ3410 - ■ FN23 - ■ ■ V1**	
	4.8	4 360	304.03	65 000	1.8	278	**2KJ3410 - ■ FN23 - ■ ■ U1**	
	5.1	4 080	285.00	65 000	2.0	278	**2KJ3410 - ■ FN23 - ■ ■ T1**	
	FD.129-LE100ZLSA4P							
	3.5	5 920	413.00	36 100	0.82	191	**2KJ3408 - ■ FN23 - ■ ■ T1**	
	3.8	5 460	381.00	36 600	0.89	191	**2KJ3408 - ■ FN23 - ■ ■ S1**	
	4.2	5 030	351.00	37 000	0.96	191	**2KJ3408 - ■ FN23 - ■ ■ R1**	
	4.9	4 290	299.31	37 500	1.1	191	**2KJ3408 - ■ FN23 - ■ ■ Q1**	
	5.2	4 040	281.70	37 500	1.2	191	**2KJ3408 - ■ FN23 - ■ ■ P1**	
	5.6	3 740	261.42	37 500	1.3	191	**2KJ3408 - ■ FN23 - ■ ■ N1**	
	6.3	3 310	231.12	37 500	1.5	191	**2KJ3408 - ■ FN23 - ■ ■ M1**	
	7.1	2 950	206.32	37 500	1.6	191	**2KJ3408 - ■ FN23 - ■ ■ L1**	
	7.9	2 660	185.66	37 500	1.8	191	**2KJ3408 - ■ FN23 - ■ ■ K1**	
	9.1	2 310	161.14	37 500	2.1	191	**2KJ3408 - ■ FN23 - ■ ■ J1**	
	FD.109-LE100ZLSA4P							
	6.1	3 420	238.52	25 000	0.91	137	**2KJ3407 - ■ FN23 - ■ ■ N1**	
	6.5	3 210	224.49	25 000	0.96	137	**2KJ3407 - ■ FN23 - ■ ■ M1**	
	7.1	2 970	207.31	25 000	1.0	137	**2KJ3407 - ■ FN23 - ■ ■ L1**	
	7.9	2 640	184.46	25 000	1.2	137	**2KJ3407 - ■ FN23 - ■ ■ K1**	
	8.9	2 350	163.83	25 000	1.3	137	**2KJ3407 - ■ FN23 - ■ ■ J1**	
	10	2 100	146.65	25 000	1.5	137	**2KJ3407 - ■ FN23 - ■ ■ H1**	
	12	1 790	125.37	25 000	1.7	137	**2KJ3407 - ■ FN23 - ■ ■ G1**	
	13	1 600	111.95	25 000	1.9	137	**2KJ3407 - ■ FN23 - ■ ■ F1**	
	15	1 410	98.94	25 000	2.2	137	**2KJ3407 - ■ FN23 - ■ ■ E1**	
	FD.89-LE100ZLSA4P							
	9.3	2 260	157.74	17 400	0.82	96	**2KJ3406 - ■ FN23 - ■ ■ K1**	
	9.9	2 120	148.46	17 400	0.87	96	**2KJ3406 - ■ FN23 - ■ ■ J1**	
	11	1 950	136.21	17 400	0.95	96	**2KJ3406 - ■ FN23 - ■ ■ H1**	
	12	1 700	118.98	17 400	1.1	96	**2KJ3406 - ■ FN23 - ■ ■ G1**	
	14	1 520	106.52	17 400	1.2	96	**2KJ3406 - ■ FN23 - ■ ■ F1**	
	16	1 330	93.14	17 400	1.4	96	**2KJ3406 - ■ FN23 - ■ ■ E1**	
	18	1 140	79.95	17 400	1.6	96	**2KJ3406 - ■ FN23 - ■ ■ D1**	
	21	1 010	70.67	17 400	1.8	96	**2KJ3406 - ■ FN23 - ■ ■ C1**	
	24	860	60.09	17 400	2.1	96	**2KJ3406 - ■ FN23 - ■ ■ B1**	
	28	735	51.51	17 400	2.5	96	**2KJ3406 - ■ FN23 - ■ ■ A1**	
	FZ.89-LE100ZLSA4P							
	24	885	61.72	17 400	2.1	95	**2KJ3306 - ■ FN23 - ■ ■ B2**	
	26	795	55.72	17 400	2.3	95	**2KJ3306 - ■ FN23 - ■ ■ A2**	
	FD.79-LE100ZLSA4P							
	18	1 170	81.99	13 200	0.85	65	**2KJ3405 - ■ FN23 - ■ ■ D1**	
	20	1 030	72.09	13 500	0.97	65	**2KJ3405 - ■ FN23 - ■ ■ C1**	
	24	870	60.82	13 800	1.1	65	**2KJ3405 - ■ FN23 - ■ ■ B1**	
	28	760	53.01	14 000	1.3	65	**2KJ3405 - ■ FN23 - ■ ■ A1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
2.2	**FZ.79-LE100ZLSA4P**							
	31	685	48.03	14 200	1.5	64	**2KJ3305 - ■ FN23 - ■ ■ W1**	
	34	615	43.18	14 300	1.6	64	**2KJ3305 - ■ FN23 - ■ ■ V1**	
	38	560	39.06	14 400	1.8	64	**2KJ3305 - ■ FN23 - ■ ■ U1**	
	41	515	36.05	14 500	1.9	64	**2KJ3305 - ■ FN23 - ■ ■ T1**	
	44	470	33.02	14 500	2.1	64	**2KJ3305 - ■ FN23 - ■ ■ S1**	
	53	395	27.71	14 500	2.5	64	**2KJ3305 - ■ FN23 - ■ ■ R1**	
	56	370	26.08	14 500	2.7	64	**2KJ3305 - ■ FN23 - ■ ■ Q1**	
	61	340	23.93	14 500	2.9	64	**2KJ3305 - ■ FN23 - ■ ■ P1**	
	FD.69-LE100ZLSA4P							
	30	700	48.80	7 780	0.86	58	**2KJ3404 - ■ FN23 - ■ ■ A1**	
	FZ.69-LE100ZLSA4P							
	36	580	40.56	7 800	1.0	57	**2KJ3304 - ■ FN23 - ■ ■ T1**	
	40	520	36.36	7 760	1.2	57	**2KJ3304 - ■ FN23 - ■ ■ S1**	
	45	470	32.78	7 700	1.3	57	**2KJ3304 - ■ FN23 - ■ ■ R1**	
	48	430	30.26	7 670	1.4	57	**2KJ3304 - ■ FN23 - ■ ■ Q1**	
	53	395	27.62	7 570	1.5	57	**2KJ3304 - ■ FN23 - ■ ■ P1**	
	64	325	22.92	7 400	1.8	57	**2KJ3304 - ■ FN23 - ■ ■ N1**	
	68	305	21.57	7 340	1.9	57	**2KJ3304 - ■ FN23 - ■ ■ M1**	
	72	290	20.37	7 260	2.1	57	**2KJ3304 - ■ FN23 - ■ ■ L1**	
	85	245	17.33	7 060	2.4	57	**2KJ3304 - ■ FN23 - ■ ■ K1**	
	99	210	14.85	6 840	2.8	57	**2KJ3304 - ■ FN23 - ■ ■ J1**	
	112	187	13.06	6 640	3.2	57	**2KJ3304 - ■ FN23 - ■ ■ H1**	
	133	158	11.01	6 390	3.8	57	**2KJ3304 - ■ FN23 - ■ ■ G1**	
	165	128	8.90	6 030	3.7	57	**2KJ3304 - ■ FN23 - ■ ■ E1**	
	192	109	7.62	5 810	4.3	57	**2KJ3304 - ■ FN23 - ■ ■ D1**	
	FZ.49-LE100ZLSA4P							
	38	550	38.53	5 050	0.87	53	**2KJ3303 - ■ FN23 - ■ ■ T1**	
	42	495	34.55	5 110	0.97	53	**2KJ3303 - ■ FN23 - ■ ■ S1**	
	47	445	31.14	5 150	1.1	53	**2KJ3303 - ■ FN23 - ■ ■ R1**	
	51	410	28.74	5 160	1.2	53	**2KJ3303 - ■ FN23 - ■ ■ Q1**	
	56	375	26.24	5 160	1.3	53	**2KJ3303 - ■ FN23 - ■ ■ P1**	
	67	310	21.77	5 120	1.5	53	**2KJ3303 - ■ FN23 - ■ ■ N1**	
	71	290	20.49	5 110	1.6	53	**2KJ3303 - ■ FN23 - ■ ■ M1**	
	76	275	19.35	5 080	1.7	53	**2KJ3303 - ■ FN23 - ■ ■ L1**	
	89	235	16.47	4 980	2.0	53	**2KJ3303 - ■ FN23 - ■ ■ K1**	
	104	200	14.11	4 880	2.4	53	**2KJ3303 - ■ FN23 - ■ ■ J1**	
	118	178	12.40	4 760	2.7	53	**2KJ3303 - ■ FN23 - ■ ■ H1**	
	140	150	10.46	4 620	3.2	53	**2KJ3303 - ■ FN23 - ■ ■ G1**	
	161	131	9.12	4 490	3.7	53	**2KJ3303 - ■ FN23 - ■ ■ F1**	
	174	120	8.40	4 330	3.7	53	**2KJ3303 - ■ FN23 - ■ ■ E1**	
	203	103	7.20	4 190	4.4	53	**2KJ3303 - ■ FN23 - ■ ■ D1**	
	FZ.49-LE90ZLR2P							
	175	120	16.47	4 410	4.0	35	**2KJ3303 - ■ EM23 - ■ ■ K1**	**P00**
	FZ.39-LE100ZLSA4P							
	71	295	20.71	4 380	0.84	42	**2KJ3302 - ■ FN23 - ■ ■ P1**	
	85	245	17.24	4 360	0.95	42	**2KJ3302 - ■ FN23 - ■ ■ N1**	
	90	230	16.22	4 350	0.99	42	**2KJ3302 - ■ FN23 - ■ ■ M1**	
	101	205	14.54	4 320	1.1	42	**2KJ3302 - ■ FN23 - ■ ■ L1**	
	118	178	12.38	4 210	1.2	42	**2KJ3302 - ■ FN23 - ■ ■ K1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
2.2	**FZ.39-LE100ZLSA4P**							
	138	152	10.61	4 130	1.3	42	**2KJ3302 - ■ FN23 - ■ ■ J1**	
	160	131	9.13	4 030	1.4	42	**2KJ3302 - ■ FN23 - ■ ■ H1**	
	181	116	8.10	3 840	1.4	42	**2KJ3302 - ■ FN23 - ■ ■ G1**	
	217	97	6.74	3 720	1.6	42	**2KJ3302 - ■ FN23 - ■ ■ F1**	
	231	91	6.35	3 670	1.6	42	**2KJ3302 - ■ FN23 - ■ ■ E1**	
	257	82	5.69	3 590	1.7	42	**2KJ3302 - ■ FN23 - ■ ■ D1**	
	303	69	4.84	3 480	1.8	42	**2KJ3302 - ■ FN23 - ■ ■ C1**	
	353	60	4.15	3 350	2.0	42	**2KJ3302 - ■ FN23 - ■ ■ B1**	
	410	51	3.57	3 240	2.1	42	**2KJ3302 - ■ FN23 - ■ ■ A1**	
	FZ.39-LE90ZLR2P							
	168	125	17.24	4 000	1.9	27	**2KJ3302 - ■ EM23 - ■ ■ N1**	**P00**
	178	118	16.22	3 950	2.0	27	**2KJ3302 - ■ EM23 - ■ ■ M1**	**P00**
	199	106	14.54	3 870	2.1	27	**2KJ3302 - ■ EM23 - ■ ■ L1**	**P00**
	233	90	12.38	3 740	2.3	27	**2KJ3302 - ■ EM23 - ■ ■ K1**	**P00**
	272	77	10.61	3 620	2.6	27	**2KJ3302 - ■ EM23 - ■ ■ J1**	**P00**
	317	66	9.13	3 500	2.8	27	**2KJ3302 - ■ EM23 - ■ ■ H1**	**P00**
	357	59	8.10	3 340	2.8	27	**2KJ3302 - ■ EM23 - ■ ■ G1**	**P00**
	429	49	6.74	3 200	3.1	27	**2KJ3302 - ■ EM23 - ■ ■ F1**	**P00**
	455	46	6.35	3 150	3.2	27	**2KJ3302 - ■ EM23 - ■ ■ E1**	**P00**
	508	41	5.69	3 060	3.4	27	**2KJ3302 - ■ EM23 - ■ ■ D1**	**P00**
	597	35	4.84	2 940	3.6	27	**2KJ3302 - ■ EM23 - ■ ■ C1**	**P00**
	696	30	4.15	2 820	3.9	27	**2KJ3302 - ■ EM23 - ■ ■ B1**	**P00**
	810	26	3.57	2 700	4.2	27	**2KJ3302 - ■ EM23 - ■ ■ A1**	**P00**
	FZ.29-LE100ZLSA4P							
	112	187	13.06	2 910	0.8	35	**2KJ3301 - ■ FN23 - ■ ■ M1**	
	127	165	11.51	2 910	0.87	35	**2KJ3301 - ■ FN23 - ■ ■ L1**	
	147	143	9.99	2 890	0.95	35	**2KJ3301 - ■ FN23 - ■ ■ K1**	
	151	139	9.69	2 690	1.0	35	**2KJ3301 - ■ FN23 - ■ ■ J1**	
	170	124	8.63	2 690	1.1	35	**2KJ3301 - ■ FN23 - ■ ■ H1**	
	184	114	7.97	2 680	1.0	35	**2KJ3301 - ■ FN23 - ■ ■ G1**	
	210	100	6.98	2 650	1.2	35	**2KJ3301 - ■ FN23 - ■ ■ F1**	
	239	88	6.12	2 610	1.3	35	**2KJ3301 - ■ FN23 - ■ ■ E1**	
	264	80	5.55	2 580	1.4	35	**2KJ3301 - ■ FN23 - ■ ■ D1**	
	281	75	5.22	2 560	1.4	35	**2KJ3301 - ■ FN23 - ■ ■ C1**	
	318	66	4.60	2 510	1.5	35	**2KJ3301 - ■ FN23 - ■ ■ B1**	
	366	57	4.00	2 450	1.6	35	**2KJ3301 - ■ FN23 - ■ ■ A1**	
	FZ.29-LE90ZLR2P							
	166	127	17.44	2 860	1.2	21	**2KJ3301 - ■ EM23 - ■ ■ Q1**	**P00**
	189	111	15.29	2 830	1.3	21	**2KJ3301 - ■ EM23 - ■ ■ P1**	**P00**
	208	101	13.88	2 790	1.5	21	**2KJ3301 - ■ EM23 - ■ ■ N1**	**P00**
	221	95	13.06	2 770	1.6	21	**2KJ3301 - ■ EM23 - ■ ■ M1**	**P00**
	251	84	11.51	2 710	1.7	21	**2KJ3301 - ■ EM23 - ■ ■ L1**	**P00**
	289	73	9.99	2 650	1.9	21	**2KJ3301 - ■ EM23 - ■ ■ K1**	**P00**
	298	70	9.69	2 540	2.0	21	**2KJ3301 - ■ EM23 - ■ ■ J1**	**P00**
	335	63	8.63	2 490	2.1	21	**2KJ3301 - ■ EM23 - ■ ■ H1**	**P00**
	363	58	7.97	2 460	2.1	21	**2KJ3301 - ■ EM23 - ■ ■ G1**	**P00**
	414	51	6.98	2 390	2.4	21	**2KJ3301 - ■ EM23 - ■ ■ F1**	**P00**
	472	44	6.12	2 340	2.6	21	**2KJ3301 - ■ EM23 - ■ ■ E1**	**P00**

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
2.2	**FZ.29-LE90ZLR2P**							
	521	40	5.55	2 290	2.7	21	**2KJ3301 - ■ EM23 - ■ ■ D1**	**P00**
	554	38	5.22	2 250	2.8	21	**2KJ3301 - ■ EM23 - ■ ■ C1**	**P00**
	628	33	4.60	2 190	2.9	21	**2KJ3301 - ■ EM23 - ■ ■ B1**	**P00**
	722	29	4.00	2 110	3.1	21	**2KJ3301 - ■ EM23 - ■ ■ A1**	**P00**
3	**FD.189-LE132SH6P**							
	2.8	10 200	347.35	110 900	1.9	660	**2KJ3412 - ■ HF23 - ■ ■ T1**	**P01**
	FD.169-LE132SH6P							
	2.6	10 800	368.00	73 500	1.3	448	**2KJ3411 - ■ HF23 - ■ ■ V1**	**P01**
	2.8	10 100	343.01	73 500	1.3	448	**2KJ3411 - ■ HF23 - ■ ■ U1**	**P01**
	3.2	9 000	304.94	73 500	1.5	448	**2KJ3411 - ■ HF23 - ■ ■ T1**	**P01**
	3.5	8 080	273.80	73 500	1.7	448	**2KJ3411 - ■ HF23 - ■ ■ S1**	**P01**
	FD.149-LE132SH6P							
	3.0	9 540	323.04	65 000	0.84	301	**2KJ3410 - ■ HF23 - ■ ■ V1**	**P01**
	3.2	8 980	304.03	65 000	0.89	301	**2KJ3410 - ■ HF23 - ■ ■ U1**	**P01**
	3.4	8 410	285.00	65 000	0.95	301	**2KJ3410 - ■ HF23 - ■ ■ T1**	**P01**
	FD.149-LE100ZLSB4P							
	3.9	7 420	377.00	65 000	1.1	278	**2KJ3410 - ■ FP23 - ■ ■ W1**	
	4.5	6 360	323.04	65 000	1.3	278	**2KJ3410 - ■ FP23 - ■ ■ V1**	
	4.8	5 980	304.03	65 000	1.3	278	**2KJ3410 - ■ FP23 - ■ ■ U1**	
	5.1	5 610	285.00	65 000	1.4	278	**2KJ3410 - ■ FP23 - ■ ■ T1**	
	5.8	4 970	252.64	65 000	1.6	278	**2KJ3410 - ■ FP23 - ■ ■ S1**	
	6.5	4 410	224.42	65 000	1.8	278	**2KJ3410 - ■ FP23 - ■ ■ R1**	
	7.2	3 980	202.50	65 000	2.0	278	**2KJ3410 - ■ FP23 - ■ ■ Q1**	
	FD.129-LE100ZLSB4P							
	4.9	5 890	299.31	36 100	0.82	191	**2KJ3408 - ■ FP23 - ■ ■ Q1**	
	5.2	5 540	281.70	36 500	0.87	191	**2KJ3408 - ■ FP23 - ■ ■ P1**	
	5.6	5 140	261.42	36 900	0.94	191	**2KJ3408 - ■ FP23 - ■ ■ N1**	
	6.3	4 550	231.12	37 400	1.1	191	**2KJ3408 - ■ FP23 - ■ ■ M1**	
	7.1	4 060	206.32	37 500	1.2	191	**2KJ3408 - ■ FP23 - ■ ■ L1**	
	7.8	3 650	185.66	37 500	1.3	191	**2KJ3408 - ■ FP23 - ■ ■ K1**	
	9	3 170	161.14	37 500	1.5	191	**2KJ3408 - ■ FP23 - ■ ■ J1**	
	10	2 850	144.92	37 500	1.7	191	**2KJ3408 - ■ FP23 - ■ ■ H1**	
	11	2 490	126.66	37 500	1.9	191	**2KJ3408 - ■ FP23 - ■ ■ G1**	
	13	2 220	113.03	37 500	2.2	191	**2KJ3408 - ■ FP23 - ■ ■ F1**	
	FD.109-LE100ZLSB4P							
	7.9	3 630	184.46	25 000	0.85	137	**2KJ3407 - ■ FP23 - ■ ■ K1**	
	8.9	3 220	163.83	25 000	0.96	137	**2KJ3407 - ■ FP23 - ■ ■ J1**	
	9.9	2 880	146.65	25 000	1.1	137	**2KJ3407 - ■ FP23 - ■ ■ H1**	
	12	2 460	125.37	25 000	1.3	137	**2KJ3407 - ■ FP23 - ■ ■ G1**	
	13	2 200	111.95	25 000	1.4	137	**2KJ3407 - ■ FP23 - ■ ■ F1**	
	15	1 940	98.94	25 000	1.6	137	**2KJ3407 - ■ FP23 - ■ ■ E1**	
	17	1 710	86.83	25 000	1.8	137	**2KJ3407 - ■ FP23 - ■ ■ D1**	
	19	1 480	75.59	25 000	2.1	137	**2KJ3407 - ■ FP23 - ■ ■ C1**	
	23	1 270	64.62	25 000	2.4	137	**2KJ3407 - ■ FP23 - ■ ■ B1**	
	FZ.109-LE100ZLSB4P							
	21	1 390	70.74	25 000	2.2	134	**2KJ3307 - ■ FP23 - ■ ■ B2**	
	22	1 280	65.30	25 000	2.4	134	**2KJ3307 - ■ FP23 - ■ ■ A2**	
	FD.89-LE100ZLSB4P							
	14	2 090	106.52	17 400	0.88	96	**2KJ3406 - ■ FP23 - ■ ■ F1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
3	**FD.89-LE100ZLSB4P**							
	16	1 830	93.14	17 400	1.0	96	**2KJ3406 - ■ FP23 - ■ ■ E1**	
	18	1 570	79.95	17 400	1.2	96	**2KJ3406 - ■ FP23 - ■ ■ D1**	
	21	1 390	70.67	17 400	1.3	96	**2KJ3406 - ■ FP23 - ■ ■ C1**	
	24	1 180	60.09	17 400	1.6	96	**2KJ3406 - ■ FP23 - ■ ■ B1**	
	28	1 010	51.51	17 400	1.8	96	**2KJ3406 - ■ FP23 - ■ ■ A1**	
	FZ.89-LE100ZLSB4P							
	24	1 210	61.72	17 400	1.5	95	**2KJ3306 - ■ FP23 - ■ ■ B2**	
	26	1 090	55.72	17 400	1.7	95	**2KJ3306 - ■ FP23 - ■ ■ A2**	
	29	995	50.54	17 400	1.9	95	**2KJ3306 - ■ FP23 - ■ ■ X1**	
	31	915	46.66	17 400	2.0	95	**2KJ3306 - ■ FP23 - ■ ■ W1**	
	34	835	42.41	17 400	2.2	95	**2KJ3306 - ■ FP23 - ■ ■ V1**	
	41	705	35.91	17 400	2.6	95	**2KJ3306 - ■ FP23 - ■ ■ U1**	
	FD.79-LE100ZLSB4P							
	24	1 190	60.82	13 200	0.84	65	**2KJ3405 - ■ FP23 - ■ ■ B1**	
	27	1 040	53.01	13 500	0.96	65	**2KJ3405 - ■ FP23 - ■ ■ A1**	
	FZ.79-LE100ZLSB4P							
	30	945	48.03	13 700	1.1	64	**2KJ3305 - ■ FP23 - ■ ■ W1**	
	34	850	43.18	13 900	1.2	64	**2KJ3305 - ■ FP23 - ■ ■ V1**	
	37	765	39.06	14 000	1.3	64	**2KJ3305 - ■ FP23 - ■ ■ U1**	
	40	710	36.05	14 100	1.4	64	**2KJ3305 - ■ FP23 - ■ ■ T1**	
	44	650	33.02	14 300	1.5	64	**2KJ3305 - ■ FP23 - ■ ■ S1**	
	53	545	27.71	14 500	1.8	64	**2KJ3305 - ■ FP23 - ■ ■ R1**	
	56	510	26.08	14 500	1.9	64	**2KJ3305 - ■ FP23 - ■ ■ Q1**	
	61	470	23.93	14 500	2.1	64	**2KJ3305 - ■ FP23 - ■ ■ P1**	
	70	410	20.90	14 500	2.4	64	**2KJ3305 - ■ FP23 - ■ ■ N1**	
	78	365	18.71	14 500	2.7	64	**2KJ3305 - ■ FP23 - ■ ■ M1**	
	89	320	16.36	14 500	3.1	64	**2KJ3305 - ■ FP23 - ■ ■ L1**	
	FZ.69-LE100ZLSB4P							
	40	715	36.36	6 580	0.84	57	**2KJ3304 - ■ FP23 - ■ ■ S1**	
	44	645	32.78	6 640	0.93	57	**2KJ3304 - ■ FP23 - ■ ■ R1**	
	48	595	30.26	6 670	1.0	57	**2KJ3304 - ■ FP23 - ■ ■ Q1**	
	53	540	27.62	6 700	1.1	57	**2KJ3304 - ■ FP23 - ■ ■ P1**	
	63	450	22.92	6 650	1.3	57	**2KJ3304 - ■ FP23 - ■ ■ N1**	
	67	425	21.57	6 620	1.4	57	**2KJ3304 - ■ FP23 - ■ ■ M1**	
	71	400	20.37	6 600	1.5	57	**2KJ3304 - ■ FP23 - ■ ■ L1**	
	84	340	17.33	6 490	1.8	57	**2KJ3304 - ■ FP23 - ■ ■ K1**	
	98	290	14.85	6 370	2.1	57	**2KJ3304 - ■ FP23 - ■ ■ J1**	
	111	255	13.06	6 240	2.3	57	**2KJ3304 - ■ FP23 - ■ ■ H1**	
	132	215	11.01	6 060	2.8	57	**2KJ3304 - ■ FP23 - ■ ■ G1**	
	152	189	9.60	5 890	3.2	57	**2KJ3304 - ■ FP23 - ■ ■ F1**	
	163	175	8.90	5 740	2.7	57	**2KJ3304 - ■ FP23 - ■ ■ E1**	
	191	150	7.62	5 560	3.1	57	**2KJ3304 - ■ FP23 - ■ ■ D1**	
	217	132	6.70	5 400	3.3	57	**2KJ3304 - ■ FP23 - ■ ■ C1**	
	257	111	5.66	5 190	3.7	57	**2KJ3304 - ■ FP23 - ■ ■ B1**	
	295	97	4.93	5 020	4.0	57	**2KJ3304 - ■ FP23 - ■ ■ A1**	
	FZ.49-LE100ZLSB4P							
	51	565	28.74	4 170	0.85	53	**2KJ3303 - ■ FP23 - ■ ■ Q1**	
	55	515	26.24	4 260	0.93	53	**2KJ3303 - ■ FP23 - ■ ■ P1**	
	67	425	21.77	4 390	1.1	53	**2KJ3303 - ■ FP23 - ■ ■ N1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
3	**FZ.49-LE100ZLSB4P**							
	71	400	20.49	4 410	1.2	53	**2KJ3303 - ■ FP23 - ■ ■ M1**	
	75	380	19.35	4 410	1.3	53	**2KJ3303 - ■ FP23 - ■ ■ L1**	
	88	320	16.47	4 440	1.5	53	**2KJ3303 - ■ FP23 - ■ ■ K1**	
	103	275	14.11	4 400	1.7	53	**2KJ3303 - ■ FP23 - ■ ■ J1**	
	117	240	12.40	4 370	2.0	53	**2KJ3303 - ■ FP23 - ■ ■ H1**	
	139	205	10.46	4 270	2.3	53	**2KJ3303 - ■ FP23 - ■ ■ G1**	
	160	180	9.12	4 190	2.7	53	**2KJ3303 - ■ FP23 - ■ ■ F1**	
	173	165	8.40	4 020	2.7	53	**2KJ3303 - ■ FP23 - ■ ■ E1**	
	202	142	7.20	3 920	3.2	53	**2KJ3303 - ■ FP23 - ■ ■ D1**	
	230	125	6.33	3 840	3.4	53	**2KJ3303 - ■ FP23 - ■ ■ C1**	
	272	105	5.34	3 720	3.8	53	**2KJ3303 - ■ FP23 - ■ ■ B1**	
	313	92	4.65	3 610	4.1	53	**2KJ3303 - ■ FP23 - ■ ■ A1**	
	FZ.39-LE100ZLSB4P							
	118	240	12.38	3 760	0.86	42	**2KJ3302 - ■ FP23 - ■ ■ K1**	
	137	205	10.61	3 750	0.95	42	**2KJ3302 - ■ FP23 - ■ ■ J1**	
	159	180	9.13	3 670	1.1	42	**2KJ3302 - ■ FP23 - ■ ■ H1**	
	180	159	8.10	3 490	1.0	42	**2KJ3302 - ■ FP23 - ■ ■ G1**	
	216	133	6.74	3 430	1.1	42	**2KJ3302 - ■ FP23 - ■ ■ F1**	
	229	125	6.35	3 400	1.2	42	**2KJ3302 - ■ FP23 - ■ ■ E1**	
	256	112	5.69	3 350	1.2	42	**2KJ3302 - ■ FP23 - ■ ■ D1**	
	301	95	4.84	3 270	1.3	42	**2KJ3302 - ■ FP23 - ■ ■ C1**	
	351	82	4.15	3 170	1.4	42	**2KJ3302 - ■ FP23 - ■ ■ B1**	
	408	70	3.57	3 080	1.5	42	**2KJ3302 - ■ FP23 - ■ ■ A1**	
	FZ.29-LE100ZLSB4P							
	208	137	6.98	2 300	0.89	35	**2KJ3301 - ■ FP23 - ■ ■ F1**	
	238	121	6.12	2 300	0.95	35	**2KJ3301 - ■ FP23 - ■ ■ E1**	
	262	109	5.55	2 310	0.99	35	**2KJ3301 - ■ FP23 - ■ ■ D1**	
	279	103	5.22	2 300	1.0	35	**2KJ3301 - ■ FP23 - ■ ■ C1**	
	316	91	4.60	2 280	1.1	35	**2KJ3301 - ■ FP23 - ■ ■ B1**	
	364	79	4.00	2 250	1.2	35	**2KJ3301 - ■ FP23 - ■ ■ A1**	
4	**FD.189-LE132MJ6P**							
	2.8	13 600	347.35	110 900	1.4	665	**2KJ3412 - ■ HK23 - ■ ■ T1**	**P01**
	3.1	12 200	310.76	110 900	1.6	665	**2KJ3412 - ■ HK23 - ■ ■ S1**	**P01**
	3.5	11 000	280.27	110 900	1.7	665	**2KJ3412 - ■ HK23 - ■ ■ R1**	**P01**
	3.9	9 750	247.71	110 900	1.9	665	**2KJ3412 - ■ HK23 - ■ ■ Q1**	**P01**
	FD.169-LE132MJ6P							
	2.6	14 400	368.00	73 500	0.94	453	**2KJ3411 - ■ HK23 - ■ ■ V1**	**P01**
	2.8	13 500	343.01	73 500	1.0	453	**2KJ3411 - ■ HK23 - ■ ■ U1**	**P01**
	3.2	12 000	304.94	73 500	1.1	453	**2KJ3411 - ■ HK23 - ■ ■ T1**	**P01**
	3.5	10 700	273.80	73 500	1.3	453	**2KJ3411 - ■ HK23 - ■ ■ S1**	**P01**
	FD.169-LE112ZMKB4P							
	4.0	9 620	368.00	73 500	1.4	426	**2KJ3411 - ■ GJ23 - ■ ■ V1**	
	4.3	8 970	343.01	73 500	1.5	426	**2KJ3411 - ■ GJ23 - ■ ■ U1**	
	4.8	7 970	304.94	73 500	1.7	426	**2KJ3411 - ■ GJ23 - ■ ■ T1**	
	5.3	7 160	273.80	73 500	1.9	426	**2KJ3411 - ■ GJ23 - ■ ■ S1**	
	5.9	6 480	247.84	73 500	2.1	426	**2KJ3411 - ■ GJ23 - ■ ■ R1**	
	FD.149-LE112ZMKB4P							
	3.9	9 860	377.00	65 000	0.81	280	**2KJ3410 - ■ GJ23 - ■ ■ W1**	
	4.5	8 450	323.04	65 000	0.95	280	**2KJ3410 - ■ GJ23 - ■ ■ V1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
4	**FD.149-LE112ZMKB4P**							
	4.8	7 950	304.03	65 000	1.0	280	**2KJ3410 - ■ GJ23 - ■ ■ U1**	
	5.1	7 450	285.00	65 000	1.1	280	**2KJ3410 - ■ GJ23 - ■ ■ T1**	
	5.8	6 610	252.64	65 000	1.2	280	**2KJ3410 - ■ GJ23 - ■ ■ S1**	
	6.5	5 870	224.42	65 000	1.4	280	**2KJ3410 - ■ GJ23 - ■ ■ R1**	
	7.2	5 290	202.50	65 000	1.5	280	**2KJ3410 - ■ GJ23 - ■ ■ Q1**	
	8.1	4 690	179.44	65 000	1.7	280	**2KJ3410 - ■ GJ23 - ■ ■ P1**	
	9.2	4 150	158.91	65 000	1.9	280	**2KJ3410 - ■ GJ23 - ■ ■ N1**	
	10	3 700	141.43	65 000	2.2	280	**2KJ3410 - ■ GJ23 - ■ ■ M1**	
	FD.129-LE112ZMKB4P							
	6.3	6 040	231.12	36 000	0.8	192	**2KJ3408 - ■ GJ23 - ■ ■ M1**	
	7.1	5 390	206.32	36 600	0.9	192	**2KJ3408 - ■ GJ23 - ■ ■ L1**	
	7.9	4 850	185.66	37 200	1.0	192	**2KJ3408 - ■ GJ23 - ■ ■ K1**	
	9.1	4 210	161.14	37 500	1.2	192	**2KJ3408 - ■ GJ23 - ■ ■ J1**	
	10	3 790	144.92	37 500	1.3	192	**2KJ3408 - ■ GJ23 - ■ ■ H1**	
	12	3 310	126.66	37 500	1.5	192	**2KJ3408 - ■ GJ23 - ■ ■ G1**	
	13	2 950	113.03	37 500	1.6	192	**2KJ3408 - ■ GJ23 - ■ ■ F1**	
	15	2 600	99.58	37 500	1.9	192	**2KJ3408 - ■ GJ23 - ■ ■ E1**	
	17	2 280	87.25	37 500	2.1	192	**2KJ3408 - ■ GJ23 - ■ ■ D1**	
	FD.109-LE112ZMKB4P							
	10	3 830	146.65	25 000	0.81	137	**2KJ3407 - ■ GJ23 - ■ ■ H1**	
	12	3 280	125.37	25 000	0.95	137	**2KJ3407 - ■ GJ23 - ■ ■ G1**	
	13	2 920	111.95	25 000	1.1	137	**2KJ3407 - ■ GJ23 - ■ ■ F1**	
	15	2 580	98.94	25 000	1.2	137	**2KJ3407 - ■ GJ23 - ■ ■ E1**	
	17	2 270	86.83	25 000	1.4	137	**2KJ3407 - ■ GJ23 - ■ ■ D1**	
	19	1 970	75.59	25 000	1.6	137	**2KJ3407 - ■ GJ23 - ■ ■ C1**	
	23	1 690	64.62	25 000	1.8	137	**2KJ3407 - ■ GJ23 - ■ ■ B1**	
	26	1 440	55.31	25 000	2.1	137	**2KJ3407 - ■ GJ23 - ■ ■ A1**	
	FZ.109-LE112ZMKB4P							
	21	1 850	70.74	25 000	1.7	134	**2KJ3307 - ■ GJ23 - ■ ■ B2**	
	22	1 700	65.30	25 000	1.8	134	**2KJ3307 - ■ GJ23 - ■ ■ A2**	
	24	1 570	60.12	25 000	2.0	134	**2KJ3307 - ■ GJ23 - ■ ■ X1**	
	28	1 340	51.27	25 000	2.3	134	**2KJ3307 - ■ GJ23 - ■ ■ W1**	
	30	1 260	48.25	25 000	2.5	134	**2KJ3307 - ■ GJ23 - ■ ■ V1**	
	33	1 170	44.78	25 000	2.6	134	**2KJ3307 - ■ GJ23 - ■ ■ U1**	
	FD.89-LE112ZMKB4P							
	18	2 090	79.95	17 400	0.88	96	**2KJ3406 - ■ GJ23 - ■ ■ D1**	
	21	1 840	70.67	17 400	1.0	96	**2KJ3406 - ■ GJ23 - ■ ■ C1**	
	24	1 570	60.09	17 400	1.2	96	**2KJ3406 - ■ GJ23 - ■ ■ B1**	
	28	1 340	51.51	17 400	1.4	96	**2KJ3406 - ■ GJ23 - ■ ■ A1**	
	FZ.89-LE112ZMKB4P							
	24	1 610	61.72	17 400	1.1	95	**2KJ3306 - ■ GJ23 - ■ ■ B2**	
	26	1 450	55.72	17 400	1.3	95	**2KJ3306 - ■ GJ23 - ■ ■ A2**	
	29	1 320	50.54	17 400	1.4	95	**2KJ3306 - ■ GJ23 - ■ ■ X1**	
	31	1 220	46.66	17 400	1.5	95	**2KJ3306 - ■ GJ23 - ■ ■ W1**	
	34	1 110	42.41	17 400	1.7	95	**2KJ3306 - ■ GJ23 - ■ ■ V1**	
	41	940	35.91	17 400	2.0	95	**2KJ3306 - ■ GJ23 - ■ ■ U1**	
	43	880	33.80	17 400	2.1	95	**2KJ3306 - ■ GJ23 - ■ ■ T1**	
	47	815	31.21	17 400	2.3	95	**2KJ3306 - ■ GJ23 - ■ ■ S1**	
	53	725	27.77	17 400	2.5	95	**2KJ3306 - ■ GJ23 - ■ ■ R1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
4	**FZ.89-LE112ZMKB4P**							
	59	645	24.67	17 400	2.9	95	**2KJ3306 - ■ GJ23 - ■ ■ Q1**	
	FZ.79-LE112ZMKB4P							
	30	1 250	48.03	13 100	0.80	65	**2KJ3305 - ■ GJ23 - ■ ■ W1**	
	34	1 130	43.18	13 300	0.89	65	**2KJ3305 - ■ GJ23 - ■ ■ V1**	
	37	1 020	39.06	13 500	0.98	65	**2KJ3305 - ■ GJ23 - ■ ■ U1**	
	40	940	36.05	13 700	1.1	65	**2KJ3305 - ■ GJ23 - ■ ■ T1**	
	44	860	33.02	13 800	1.2	65	**2KJ3305 - ■ GJ23 - ■ ■ S1**	
	53	725	27.71	14 100	1.4	65	**2KJ3305 - ■ GJ23 - ■ ■ R1**	
	56	680	26.08	14 200	1.5	65	**2KJ3305 - ■ GJ23 - ■ ■ Q1**	
	61	625	23.93	14 300	1.6	65	**2KJ3305 - ■ GJ23 - ■ ■ P1**	
	70	545	20.90	14 500	1.8	65	**2KJ3305 - ■ GJ23 - ■ ■ N1**	
	78	490	18.71	14 500	2.0	65	**2KJ3305 - ■ GJ23 - ■ ■ M1**	
	89	425	16.36	14 500	2.3	65	**2KJ3305 - ■ GJ23 - ■ ■ L1**	
	104	365	14.04	14 500	2.7	65	**2KJ3305 - ■ GJ23 - ■ ■ K1**	
	118	325	12.41	14 400	3.1	65	**2KJ3305 - ■ GJ23 - ■ ■ J1**	
	138	275	10.56	13 900	3.6	65	**2KJ3305 - ■ GJ23 - ■ ■ H1**	
	172	220	8.51	13 100	3.2	65	**2KJ3305 - ■ GJ23 - ■ ■ F1**	
	196	195	7.44	12 700	3.7	65	**2KJ3305 - ■ GJ23 - ■ ■ E1**	
	228	167	6.39	12 200	4.3	65	**2KJ3305 - ■ GJ23 - ■ ■ D1**	
	259	148	5.64	11 800	4.7	65	**2KJ3305 - ■ GJ23 - ■ ■ C1**	
	FZ.69-LE112ZMKB4P							
	53	720	27.62	5 580	0.83	58	**2KJ3304 - ■ GJ23 - ■ ■ P1**	
	64	600	22.92	5 710	1.0	58	**2KJ3304 - ■ GJ23 - ■ ■ N1**	
	68	560	21.57	5 770	1.1	58	**2KJ3304 - ■ GJ23 - ■ ■ M1**	
	72	530	20.37	5 780	1.1	58	**2KJ3304 - ■ GJ23 - ■ ■ L1**	
	84	450	17.33	5 800	1.3	58	**2KJ3304 - ■ GJ23 - ■ ■ K1**	
	98	385	14.85	5 770	1.5	58	**2KJ3304 - ■ GJ23 - ■ ■ J1**	
	112	340	13.06	5 710	1.8	58	**2KJ3304 - ■ GJ23 - ■ ■ H1**	
	133	285	11.01	5 620	2.1	58	**2KJ3304 - ■ GJ23 - ■ ■ G1**	
	152	250	9.60	5 500	2.4	58	**2KJ3304 - ■ GJ23 - ■ ■ F1**	
	164	230	8.90	5 380	2.0	58	**2KJ3304 - ■ GJ23 - ■ ■ E1**	
	192	199	7.62	5 230	2.3	58	**2KJ3304 - ■ GJ23 - ■ ■ D1**	
	218	175	6.70	5 110	2.5	58	**2KJ3304 - ■ GJ23 - ■ ■ C1**	
	258	148	5.66	4 950	2.8	58	**2KJ3304 - ■ GJ23 - ■ ■ B1**	
	296	129	4.93	4 800	3.0	58	**2KJ3304 - ■ GJ23 - ■ ■ A1**	
	FZ.49-LE112ZMKB4P							
	67	570	21.77	3 430	0.84	53	**2KJ3303 - ■ GJ23 - ■ ■ N1**	
	71	535	20.49	3 520	0.90	53	**2KJ3303 - ■ GJ23 - ■ ■ M1**	
	75	505	19.35	3 580	0.95	53	**2KJ3303 - ■ GJ23 - ■ ■ L1**	
	89	430	16.47	3 710	1.1	53	**2KJ3303 - ■ GJ23 - ■ ■ K1**	
	103	365	14.11	3 810	1.3	53	**2KJ3303 - ■ GJ23 - ■ ■ J1**	
	118	320	12.40	3 840	1.5	53	**2KJ3303 - ■ GJ23 - ■ ■ H1**	
	140	270	10.46	3 840	1.8	53	**2KJ3303 - ■ GJ23 - ■ ■ G1**	
	160	235	9.12	3 820	2.0	53	**2KJ3303 - ■ GJ23 - ■ ■ F1**	
	174	220	8.40	3 610	2.0	53	**2KJ3303 - ■ GJ23 - ■ ■ E1**	
	203	188	7.20	3 580	2.4	53	**2KJ3303 - ■ GJ23 - ■ ■ D1**	
	231	166	6.33	3 530	2.6	53	**2KJ3303 - ■ GJ23 - ■ ■ C1**	
	273	140	5.34	3 460	2.9	53	**2KJ3303 - ■ GJ23 - ■ ■ B1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
4	**FZ.49-LE112ZMKB4P**							
	314	122	4.65	3 390	3.1	53	**2KJ3303 - ■ GJ23 - ■ ■ A1**	
	FZ.39-LE112ZMKB4P							
	217	176	6.74	3 060	0.86	45	**2KJ3302 - ■ GJ23 - ■ ■ F1**	
	230	166	6.35	3 050	0.90	45	**2KJ3302 - ■ GJ23 - ■ ■ E1**	
	257	149	5.69	3 040	0.94	45	**2KJ3302 - ■ GJ23 - ■ ■ D1**	
	302	127	4.84	3 000	1.0	45	**2KJ3302 - ■ GJ23 - ■ ■ C1**	
	352	109	4.15	2 940	1.1	45	**2KJ3302 - ■ GJ23 - ■ ■ B1**	
	409	93	3.57	2 890	1.2	45	**2KJ3302 - ■ GJ23 - ■ ■ A1**	
5.5	**FD.189-LE132ZMS6P**							
	2.8	18 800	347.35	110 900	1.0	667	**2KJ3412 - ■ HL23 - ■ ■ T1**	**P01**
	3.1	16 800	310.76	110 900	1.1	667	**2KJ3412 - ■ HL23 - ■ ■ S1**	**P01**
	3.5	15 100	280.27	110 900	1.3	667	**2KJ3412 - ■ HL23 - ■ ■ R1**	**P01**
	3.9	13 400	247.71	110 900	1.4	667	**2KJ3412 - ■ HL23 - ■ ■ Q1**	**P01**
	FD.189-LE132ZST4P							
	4.2	12 400	347.35	110 900	1.5	667	**2KJ3412 - ■ HJ23 - ■ ■ T1**	
	4.7	11 100	310.76	110 900	1.7	667	**2KJ3412 - ■ HJ23 - ■ ■ S1**	
	5.2	10 000	280.27	110 900	1.9	667	**2KJ3412 - ■ HJ23 - ■ ■ R1**	
	5.9	8 880	247.71	110 900	2.1	667	**2KJ3412 - ■ HJ23 - ■ ■ Q1**	
	FD.169-LE132ZMS6P							
	3.2	16 500	304.94	73 500	0.82	455	**2KJ3411 - ■ HL23 - ■ ■ T1**	**P01**
	3.5	14 800	273.80	73 500	0.92	455	**2KJ3411 - ■ HL23 - ■ ■ S1**	**P01**
	FD.169-LE132ZST4P							
	4.0	13 100	368.00	73 500	1.0	455	**2KJ3411 - ■ HJ23 - ■ ■ V1**	
	4.3	12 200	343.01	73 500	1.1	455	**2KJ3411 - ■ HJ23 - ■ ■ U1**	
	4.8	10 900	304.94	73 500	1.2	455	**2KJ3411 - ■ HJ23 - ■ ■ T1**	
	5.4	9 810	273.80	73 500	1.4	455	**2KJ3411 - ■ HJ23 - ■ ■ S1**	
	5.9	8 880	247.84	73 500	1.5	455	**2KJ3411 - ■ HJ23 - ■ ■ R1**	
	6.7	7 800	217.70	73 500	1.7	455	**2KJ3411 - ■ HJ23 - ■ ■ Q1**	
	7.4	7 070	197.27	73 500	1.9	455	**2KJ3411 - ■ HJ23 - ■ ■ P1**	
	FD.149-LE132ZST4P							
	5.8	9 050	252.64	65 000	0.88	308	**2KJ3410 - ■ HJ23 - ■ ■ S1**	
	6.5	8 040	224.42	65 000	0.99	308	**2KJ3410 - ■ HJ23 - ■ ■ R1**	
	7.2	7 260	202.50	65 000	1.1	308	**2KJ3410 - ■ HJ23 - ■ ■ Q1**	
	8.2	6 430	179.44	65 000	1.2	308	**2KJ3410 - ■ HJ23 - ■ ■ P1**	
	9.2	5 690	158.91	65 000	1.4	308	**2KJ3410 - ■ HJ23 - ■ ■ N1**	
	10	5 070	141.43	65 000	1.6	308	**2KJ3410 - ■ HJ23 - ■ ■ M1**	
	12	4 540	126.73	65 000	1.8	308	**2KJ3410 - ■ HJ23 - ■ ■ L1**	
	13	4 020	112.36	65 000	2.0	308	**2KJ3410 - ■ HJ23 - ■ ■ K1**	
	15	3 550	99.18	65 000	2.2	308	**2KJ3410 - ■ HJ23 - ■ ■ J1**	
	FD.129-LE132ZST4P							
	9.1	5 770	161.14	36 300	0.84	222	**2KJ3408 - ■ HJ23 - ■ ■ J1**	
	10	5 190	144.92	36 800	0.93	222	**2KJ3408 - ■ HJ23 - ■ ■ H1**	
	12	4 540	126.66	37 500	1.1	222	**2KJ3408 - ■ HJ23 - ■ ■ G1**	
	13	4 050	113.03	37 500	1.2	222	**2KJ3408 - ■ HJ23 - ■ ■ F1**	
	15	3 570	99.58	37 500	1.4	222	**2KJ3408 - ■ HJ23 - ■ ■ E1**	
	17	3 120	87.25	37 500	1.6	222	**2KJ3408 - ■ HJ23 - ■ ■ D1**	
	19	2 720	76.04	37 500	1.8	222	**2KJ3408 - ■ HJ23 - ■ ■ C1**	
	21	2 480	69.40	37 500	1.9	222	**2KJ3408 - ■ HJ23 - ■ ■ B1**	
	25	2 140	59.75	37 500	2.3	222	**2KJ3408 - ■ HJ23 - ■ ■ A1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
5.5	**FZ.129-LE132ZST4P**							
	21	2 480	69.20	37 500	2.0	217	**2KJ3308 - ■ HJ23 - ■ ■ A2**	
	25	2 120	59.22	37 500	2.3	217	**2KJ3308 - ■ HJ23 - ■ ■ X1**	
	26	1 990	55.74	37 500	2.4	217	**2KJ3308 - ■ HJ23 - ■ ■ W1**	
	FD.109-LE132ZST4P							
	15	3 540	98.94	25 000	0.87	168	**2KJ3407 - ■ HJ23 - ■ ■ E1**	
	17	3 110	86.83	25 000	1.0	168	**2KJ3407 - ■ HJ23 - ■ ■ D1**	
	19	2 710	75.59	25 000	1.1	168	**2KJ3407 - ■ HJ23 - ■ ■ C1**	
	23	2 310	64.62	25 000	1.3	168	**2KJ3407 - ■ HJ23 - ■ ■ B1**	
	26	1 980	55.31	25 000	1.6	168	**2KJ3407 - ■ HJ23 - ■ ■ A1**	
	FZ.109-LE132ZST4P							
	24	2 150	60.12	25 000	1.4	164	**2KJ3307 - ■ HJ23 - ■ ■ X1**	
	29	1 830	51.27	25 000	1.7	164	**2KJ3307 - ■ HJ23 - ■ ■ W1**	
	30	1 730	48.25	25 000	1.8	164	**2KJ3307 - ■ HJ23 - ■ ■ V1**	
	33	1 600	44.78	25 000	1.9	164	**2KJ3307 - ■ HJ23 - ■ ■ U1**	
	37	1 410	39.59	25 000	2.2	164	**2KJ3307 - ■ HJ23 - ■ ■ T1**	
	41	1 260	35.34	25 000	2.4	164	**2KJ3307 - ■ HJ23 - ■ ■ S1**	
	46	1 140	31.80	25 000	2.7	164	**2KJ3307 - ■ HJ23 - ■ ■ R1**	
	FD.89-LE132ZST4P							
	24	2 150	60.09	17 400	0.86	127	**2KJ3406 - ■ HJ23 - ■ ■ B1**	
	28	1 840	51.51	17 400	1.0	127	**2KJ3406 - ■ HJ23 - ■ ■ A1**	
	FZ.89-LE132ZST4P							
	35	1 520	42.41	17 400	1.2	126	**2KJ3306 - ■ HJ23 - ■ ■ V1**	
	41	1 280	35.91	17 400	1.4	126	**2KJ3306 - ■ HJ23 - ■ ■ U1**	
	43	1 210	33.80	17 400	1.5	126	**2KJ3306 - ■ HJ23 - ■ ■ T1**	
	47	1 110	31.21	17 400	1.7	126	**2KJ3306 - ■ HJ23 - ■ ■ S1**	
	53	995	27.77	17 400	1.9	126	**2KJ3306 - ■ HJ23 - ■ ■ R1**	
	59	880	24.67	17 400	2.1	126	**2KJ3306 - ■ HJ23 - ■ ■ Q1**	
	66	790	22.08	17 400	2.3	126	**2KJ3306 - ■ HJ23 - ■ ■ P1**	
	78	675	18.88	17 400	2.7	126	**2KJ3306 - ■ HJ23 - ■ ■ N1**	
	87	600	16.86	17 400	3.1	126	**2KJ3306 - ■ HJ23 - ■ ■ M1**	
	98	530	14.90	17 400	3.5	126	**2KJ3306 - ■ HJ23 - ■ ■ L1**	
	193	270	7.60	17 400	4.0	126	**2KJ3306 - ■ HJ23 - ■ ■ F1**	
	FZ.79-LE132ZST4P							
	44	1 180	33.02	13 200	0.84	96	**2KJ3305 - ■ HJ23 - ■ ■ S1**	
	53	990	27.71	13 600	1.0	96	**2KJ3305 - ■ HJ23 - ■ ■ R1**	
	56	935	26.08	13 700	1.1	96	**2KJ3305 - ■ HJ23 - ■ ■ Q1**	
	61	855	23.93	13 900	1.2	96	**2KJ3305 - ■ HJ23 - ■ ■ P1**	
	70	745	20.90	14 100	1.3	96	**2KJ3305 - ■ HJ23 - ■ ■ N1**	
	78	670	18.71	14 200	1.5	96	**2KJ3305 - ■ HJ23 - ■ ■ M1**	
	90	585	16.36	14 400	1.7	96	**2KJ3305 - ■ HJ23 - ■ ■ L1**	
	104	500	14.04	14 000	2.0	96	**2KJ3305 - ■ HJ23 - ■ ■ K1**	
	118	445	12.41	13 700	2.2	96	**2KJ3305 - ■ HJ23 - ■ ■ J1**	
	139	375	10.56	13 300	2.6	96	**2KJ3305 - ■ HJ23 - ■ ■ H1**	
	162	320	9.05	12 900	3.1	96	**2KJ3305 - ■ HJ23 - ■ ■ G1**	
	172	305	8.51	12 600	2.4	96	**2KJ3305 - ■ HJ23 - ■ ■ F1**	
	197	265	7.44	12 300	2.7	96	**2KJ3305 - ■ HJ23 - ■ ■ E1**	
	229	225	6.39	11 900	3.1	96	**2KJ3305 - ■ HJ23 - ■ ■ D1**	
	260	200	5.64	11 500	3.5	96	**2KJ3305 - ■ HJ23 - ■ ■ C1**	
	305	172	4.80	11 100	3.8	96	**2KJ3305 - ■ HJ23 - ■ ■ B1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
5.5	**FZ.79-LE132ZST4P**							
	356	147	4.11	10 700	4.1	96	**2KJ3305 - ■ HJ23 - ■ ■ A1**	
	FZ.69-LE132ZST4P							
	72	730	20.37	4 540	0.82	88	**2KJ3304 - ■ HJ23 - ■ ■ L1**	
	85	620	17.33	4 740	0.97	88	**2KJ3304 - ■ HJ23 - ■ ■ K1**	
	99	530	14.85	4 870	1.1	88	**2KJ3304 - ■ HJ23 - ■ ■ J1**	
	112	465	13.06	4 930	1.3	88	**2KJ3304 - ■ HJ23 - ■ ■ H1**	
	133	395	11.01	4 930	1.5	88	**2KJ3304 - ■ HJ23 - ■ ■ G1**	
	153	340	9.60	4 940	1.7	88	**2KJ3304 - ■ HJ23 - ■ ■ F1**	
	165	315	8.90	4 820	1.5	88	**2KJ3304 - ■ HJ23 - ■ ■ E1**	
	192	270	7.62	4 770	1.7	88	**2KJ3304 - ■ HJ23 - ■ ■ D1**	
	219	240	6.70	4 690	1.8	88	**2KJ3304 - ■ HJ23 - ■ ■ C1**	
	259	200	5.66	4 600	2.0	88	**2KJ3304 - ■ HJ23 - ■ ■ B1**	
	297	177	4.93	4 490	2.2	88	**2KJ3304 - ■ HJ23 - ■ ■ A1**	
	FZ.69-LE132ZST4P							
	89	590	16.47	2 660	0.81	76	**2KJ3303 - ■ HJ23 - ■ ■ K1**	
	104	505	14.11	2 890	0.95	76	**2KJ3303 - ■ HJ23 - ■ ■ J1**	
	118	445	12.40	3 020	1.1	76	**2KJ3303 - ■ HJ23 - ■ ■ H1**	
	140	375	10.46	3 150	1.3	76	**2KJ3303 - ■ HJ23 - ■ ■ G1**	
	161	325	9.12	3 220	1.5	76	**2KJ3303 - ■ HJ23 - ■ ■ F1**	
	174	300	8.40	3 020	1.5	76	**2KJ3303 - ■ HJ23 - ■ ■ E1**	
	203	255	7.20	3 090	1.7	76	**2KJ3303 - ■ HJ23 - ■ ■ D1**	
	231	225	6.33	3 100	1.9	76	**2KJ3303 - ■ HJ23 - ■ ■ C1**	
	274	191	5.34	3 090	2.1	76	**2KJ3303 - ■ HJ23 - ■ ■ B1**	
	315	167	4.65	3 060	2.2	76	**2KJ3303 - ■ HJ23 - ■ ■ A1**	
7.5	**FD.189-LE132ZMS4P**							
	4.2	16 900	347.35	110 900	1.1	667	**2KJ3412 - ■ HL23 - ■ ■ T1**	
	4.7	15 100	310.76	110 900	1.3	667	**2KJ3412 - ■ HL23 - ■ ■ S1**	
	5.2	13 600	280.27	110 900	1.4	667	**2KJ3412 - ■ HL23 - ■ ■ R1**	
	5.9	12 000	247.71	110 900	1.6	667	**2KJ3412 - ■ HL23 - ■ ■ Q1**	
	6.5	11 000	226.42	110 900	1.7	667	**2KJ3412 - ■ HL23 - ■ ■ P1**	
	7.2	9 920	203.69	110 900	1.9	667	**2KJ3412 - ■ HL23 - ■ ■ N1**	
	8.1	8 860	182.03	110 900	2.1	667	**2KJ3412 - ■ HL23 - ■ ■ M1**	
	FD.169-LE132ZMS4P							
	4.3	16 700	343.01	73 500	0.81	455	**2KJ3411 - ■ HL23 - ■ ■ U1**	
	4.8	14 800	304.94	73 500	0.92	455	**2KJ3411 - ■ HL23 - ■ ■ T1**	
	5.4	13 300	273.80	73 500	1.0	455	**2KJ3411 - ■ HL23 - ■ ■ S1**	
	5.9	12 000	247.84	73 500	1.1	455	**2KJ3411 - ■ HL23 - ■ ■ R1**	
	6.8	10 600	217.70	73 500	1.3	455	**2KJ3411 - ■ HL23 - ■ ■ Q1**	
	7.5	9 610	197.27	73 500	1.4	455	**2KJ3411 - ■ HL23 - ■ ■ P1**	
	8.4	8 560	175.69	73 500	1.6	455	**2KJ3411 - ■ HL23 - ■ ■ N1**	
	9.3	7 680	157.76	73 500	1.8	455	**2KJ3411 - ■ HL23 - ■ ■ M1**	
	10	6 850	140.77	73 500	2.0	455	**2KJ3411 - ■ HL23 - ■ ■ L1**	
	12	6 110	125.49	73 500	2.2	455	**2KJ3411 - ■ HL23 - ■ ■ K1**	
	FD.149-LE132ZMS4P							
	7.3	9 860	202.50	65 000	0.81	308	**2KJ3410 - ■ HL23 - ■ ■ Q1**	
	8.2	8 740	179.44	65 000	0.92	308	**2KJ3410 - ■ HL23 - ■ ■ P1**	
	9.3	7 740	158.91	65 000	1.0	308	**2KJ3410 - ■ HL23 - ■ ■ N1**	
	10	6 890	141.43	65 000	1.2	308	**2KJ3410 - ■ HL23 - ■ ■ M1**	
	12	6 170	126.73	65 000	1.3	308	**2KJ3410 - ■ HL23 - ■ ■ L1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
7.5	**FD.149-LE132ZMS4P**							
	13	5 470	112.36	65 000	1.5	308	**2KJ3410 - ■ HL23 - ■ ■ K1**	
	15	4 830	99.18	65 000	1.7	308	**2KJ3410 - ■ HL23 - ■ ■ J1**	
	17	4 240	87.20	63 900	1.9	308	**2KJ3410 - ■ HL23 - ■ ■ H1**	
	19	3 840	78.98	62 800	2.1	308	**2KJ3410 - ■ HL23 - ■ ■ G1**	
	21	3 350	68.76	61 000	2.4	308	**2KJ3410 - ■ HL23 - ■ ■ F1**	
	FD.129-LE132ZMS4P							
	13	5 500	113.03	36 500	0.88	222	**2KJ3408 - ■ HL23 - ■ ■ F1**	
	15	4 850	99.58	37 200	1.0	222	**2KJ3408 - ■ HL23 - ■ ■ E1**	
	17	4 250	87.25	37 500	1.1	222	**2KJ3408 - ■ HL23 - ■ ■ D1**	
	19	3 700	76.04	37 500	1.3	222	**2KJ3408 - ■ HL23 - ■ ■ C1**	
	21	3 380	69.40	37 500	1.4	222	**2KJ3408 - ■ HL23 - ■ ■ B1**	
	25	2 910	59.75	37 500	1.7	222	**2KJ3408 - ■ HL23 - ■ ■ A1**	
	FZ.129-LE132ZMS4P							
	21	3 370	69.20	37 500	1.4	217	**2KJ3308 - ■ HL23 - ■ ■ A2**	
	25	2 880	59.22	37 500	1.7	217	**2KJ3308 - ■ HL23 - ■ ■ X1**	
	26	2 710	55.74	37 500	1.8	217	**2KJ3308 - ■ HL23 - ■ ■ W1**	
	28	2 540	52.25	37 500	1.9	217	**2KJ3308 - ■ HL23 - ■ ■ V1**	
	32	2 250	46.32	37 500	2.1	217	**2KJ3308 - ■ HL23 - ■ ■ U1**	
	36	2 000	41.14	37 500	2.4	217	**2KJ3308 - ■ HL23 - ■ ■ T1**	
	40	1 800	37.12	37 500	2.7	217	**2KJ3308 - ■ HL23 - ■ ■ S1**	
	FD.109-LE132ZMS4P							
	19	3 680	75.59	25 000	0.84	168	**2KJ3407 - ■ HL23 - ■ ■ C1**	
	23	3 140	64.62	25 000	0.98	168	**2KJ3407 - ■ HL23 - ■ ■ B1**	
	27	2 690	55.31	25 000	1.2	168	**2KJ3407 - ■ HL23 - ■ ■ A1**	
	FZ.109-LE132ZMS4P							
	24	2 920	60.12	25 000	1.1	164	**2KJ3307 - ■ HL23 - ■ ■ X1**	
	29	2 490	51.27	25 000	1.2	164	**2KJ3307 - ■ HL23 - ■ ■ W1**	
	30	2 350	48.25	25 000	1.3	164	**2KJ3307 - ■ HL23 - ■ ■ V1**	
	33	2 180	44.78	25 000	1.4	164	**2KJ3307 - ■ HL23 - ■ ■ U1**	
	37	1 920	39.59	25 000	1.6	164	**2KJ3307 - ■ HL23 - ■ ■ T1**	
	42	1 720	35.34	25 000	1.8	164	**2KJ3307 - ■ HL23 - ■ ■ S1**	
	46	1 540	31.80	25 000	2.0	164	**2KJ3307 - ■ HL23 - ■ ■ R1**	
	53	1 340	27.60	25 000	2.3	164	**2KJ3307 - ■ HL23 - ■ ■ Q1**	
	59	1 200	24.82	25 000	2.6	164	**2KJ3307 - ■ HL23 - ■ ■ P1**	
	68	1 050	21.70	25 000	2.9	164	**2KJ3307 - ■ HL23 - ■ ■ N1**	
	FZ.89-LE132ZMS4P							
	35	2 060	42.41	17 400	0.9	126	**2KJ3306 - ■ HL23 - ■ ■ V1**	
	41	1 750	35.91	17 400	1.1	126	**2KJ3306 - ■ HL23 - ■ ■ U1**	
	43	1 640	33.80	17 400	1.1	126	**2KJ3306 - ■ HL23 - ■ ■ T1**	
	47	1 520	31.21	17 400	1.2	126	**2KJ3306 - ■ HL23 - ■ ■ S1**	
	53	1 350	27.77	17 400	1.4	126	**2KJ3306 - ■ HL23 - ■ ■ R1**	
	60	1 200	24.67	17 400	1.5	126	**2KJ3306 - ■ HL23 - ■ ■ Q1**	
	67	1 070	22.08	17 400	1.7	126	**2KJ3306 - ■ HL23 - ■ ■ P1**	
	78	920	18.88	17 400	2.0	126	**2KJ3306 - ■ HL23 - ■ ■ N1**	
	87	820	16.86	17 400	2.3	126	**2KJ3306 - ■ HL23 - ■ ■ M1**	
	99	725	14.90	17 400	2.5	126	**2KJ3306 - ■ HL23 - ■ ■ L1**	
	112	635	13.07	17 400	2.9	126	**2KJ3306 - ■ HL23 - ■ ■ K1**	
	129	550	11.38	17 400	3.3	126	**2KJ3306 - ■ HL23 - ■ ■ J1**	
	151	470	9.73	17 400	3.9	126	**2KJ3306 - ■ HL23 - ■ ■ H1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
7.5	**FZ.89-LE132ZMS4P**							
	193	370	7.60	17 200	3.0	126	**2KJ3306 - ■ HL23 - ■ ■ F1**	
	219	325	6.72	16 800	3.4	126	**2KJ3306 - ■ HL23 - ■ ■ E1**	
	249	285	5.90	16 200	3.9	126	**2KJ3306 - ■ HL23 - ■ ■ D1**	
	287	250	5.13	15 700	4.4	126	**2KJ3306 - ■ HL23 - ■ ■ C1**	
	335	210	4.39	15 100	5.0	126	**2KJ3306 - ■ HL23 - ■ ■ B1**	
	391	183	3.76	14 500	5.4	126	**2KJ3306 - ■ HL23 - ■ ■ A1**	
	FZ.79-LE132ZMS4P							
	61	1 160	23.93	13 300	0.86	96	**2KJ3305 - ■ HL23 - ■ ■ P1**	
	70	1 010	20.90	13 400	0.98	96	**2KJ3305 - ■ HL23 - ■ ■ N1**	
	79	910	18.71	13 400	1.1	96	**2KJ3305 - ■ HL23 - ■ ■ M1**	
	90	795	16.36	13 200	1.3	96	**2KJ3305 - ■ HL23 - ■ ■ L1**	
	105	680	14.04	13 100	1.5	96	**2KJ3305 - ■ HL23 - ■ ■ K1**	
	118	605	12.41	12 800	1.7	96	**2KJ3305 - ■ HL23 - ■ ■ J1**	
	139	515	10.56	12 600	1.9	96	**2KJ3305 - ■ HL23 - ■ ■ H1**	
	162	440	9.05	12 300	2.3	96	**2KJ3305 - ■ HL23 - ■ ■ G1**	
	173	415	8.51	12 000	1.7	96	**2KJ3305 - ■ HL23 - ■ ■ F1**	
	198	360	7.44	11 700	2.0	96	**2KJ3305 - ■ HL23 - ■ ■ E1**	
	230	310	6.39	11 400	2.3	96	**2KJ3305 - ■ HL23 - ■ ■ D1**	
	261	275	5.64	11 100	2.5	96	**2KJ3305 - ■ HL23 - ■ ■ C1**	
	306	230	4.80	10 800	2.8	96	**2KJ3305 - ■ HL23 - ■ ■ B1**	
	358	200	4.11	10 400	3.0	96	**2KJ3305 - ■ HL23 - ■ ■ A1**	
	FZ.69-LE132ZMS4P							
	99	720	14.85	3 680	0.83	88	**2KJ3304 - ■ HL23 - ■ ■ J1**	
	113	635	13.06	3 870	0.94	88	**2KJ3304 - ■ HL23 - ■ ■ H1**	
	134	535	11.01	4 060	1.1	88	**2KJ3304 - ■ HL23 - ■ ■ G1**	
	153	465	9.60	4 160	1.3	88	**2KJ3304 - ■ HL23 - ■ ■ F1**	
	165	430	8.90	4 060	1.1	88	**2KJ3304 - ■ HL23 - ■ ■ E1**	
	193	370	7.62	4 110	1.3	88	**2KJ3304 - ■ HL23 - ■ ■ D1**	
	219	325	6.70	4 130	1.3	88	**2KJ3304 - ■ HL23 - ■ ■ C1**	
	260	275	5.66	4 110	1.5	88	**2KJ3304 - ■ HL23 - ■ ■ B1**	
	298	240	4.93	4 070	1.6	88	**2KJ3304 - ■ HL23 - ■ ■ A1**	
	FZ.49-LE132ZMS4P							
	141	510	10.46	2 260	0.94	84	**2KJ3303 - ■ HL23 - ■ ■ G1**	
	161	440	9.12	2 470	1.1	84	**2KJ3303 - ■ HL23 - ■ ■ F1**	
	175	405	8.40	2 260	1.1	84	**2KJ3303 - ■ HL23 - ■ ■ E1**	
	204	350	7.20	2 390	1.3	84	**2KJ3303 - ■ HL23 - ■ ■ D1**	
	232	305	6.33	2 510	1.4	84	**2KJ3303 - ■ HL23 - ■ ■ C1**	
	275	260	5.34	2 580	1.5	84	**2KJ3303 - ■ HL23 - ■ ■ B1**	
	316	225	4.65	2 630	1.7	84	**2KJ3303 - ■ HL23 - ■ ■ A1**	
9.2	**FD.189-LE160MPA4P**							
	4.2	20 700	347.35	110 900	0.92	684	**2KJ3412 - ■ JQ23 - ■ ■ T1**	
	4.7	18 500	310.76	110 900	1.0	684	**2KJ3412 - ■ JQ23 - ■ ■ S1**	
	5.2	16 700	280.27	110 900	1.1	684	**2KJ3412 - ■ JQ23 - ■ ■ R1**	
	5.9	14 800	247.71	110 900	1.3	684	**2KJ3412 - ■ JQ23 - ■ ■ Q1**	
	6.5	13 500	226.42	110 900	1.4	684	**2KJ3412 - ■ JQ23 - ■ ■ P1**	
	7.2	12 100	203.69	110 900	1.6	684	**2KJ3412 - ■ JQ23 - ■ ■ N1**	
	8.1	10 800	182.03	110 900	1.7	684	**2KJ3412 - ■ JQ23 - ■ ■ M1**	
	8.9	9 830	164.61	110 900	1.9	684	**2KJ3412 - ■ JQ23 - ■ ■ L1**	
	10	8 680	145.28	110 900	2.2	684	**2KJ3412 - ■ JQ23 - ■ ■ K1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
9.2	**FD.169-LE160MPA4P**							
	5.4	16 300	273.80	73 500	0.83	472	**2KJ3411 - ■ JQ23 - ■ ■ S1**	
	5.9	14 800	247.84	73 500	0.92	472	**2KJ3411 - ■ JQ23 - ■ ■ R1**	
	6.8	13 000	217.70	73 500	1.0	472	**2KJ3411 - ■ JQ23 - ■ ■ Q1**	
	7.5	11 700	197.27	73 500	1.2	472	**2KJ3411 - ■ JQ23 - ■ ■ P1**	
	8.4	10 500	175.69	73 500	1.3	472	**2KJ3411 - ■ JQ23 - ■ ■ N1**	
	9.3	9 420	157.76	73 500	1.4	472	**2KJ3411 - ■ JQ23 - ■ ■ M1**	
	10	8 410	140.77	73 500	1.6	472	**2KJ3411 - ■ JQ23 - ■ ■ L1**	
	12	7 500	125.49	73 500	1.8	472	**2KJ3411 - ■ JQ23 - ■ ■ K1**	
	13	6 650	111.30	73 500	2.0	472	**2KJ3411 - ■ JQ23 - ■ ■ J1**	
	14	6 100	102.18	73 500	2.2	472	**2KJ3411 - ■ JQ23 - ■ ■ H1**	
	FD.149-LE160MPA4P							
	9.3	9 490	158.91	65 000	0.84	325	**2KJ3410 - ■ JQ23 - ■ ■ N1**	
	10	8 450	141.43	65 000	0.95	325	**2KJ3410 - ■ JQ23 - ■ ■ M1**	
	12	7 570	126.73	64 500	1.1	325	**2KJ3410 - ■ JQ23 - ■ ■ L1**	
	13	6 710	112.36	63 700	1.2	325	**2KJ3410 - ■ JQ23 - ■ ■ K1**	
	15	5 920	99.18	62 700	1.3	325	**2KJ3410 - ■ JQ23 - ■ ■ J1**	
	17	5 210	87.20	61 500	1.5	325	**2KJ3410 - ■ JQ23 - ■ ■ H1**	
	19	4 720	78.98	60 600	1.7	325	**2KJ3410 - ■ JQ23 - ■ ■ G1**	
	21	4 110	68.76	59 100	1.9	325	**2KJ3410 - ■ JQ23 - ■ ■ F1**	
	26	3 360	56.37	57 000	2.4	325	**2KJ3410 - ■ JQ23 - ■ ■ E1**	
	FD.129-LE160MPA4P							
	15	5 950	99.58	36 100	0.81	239	**2KJ3408 - ■ JQ23 - ■ ■ E1**	
	17	5 210	87.25	36 800	0.93	239	**2KJ3408 - ■ JQ23 - ■ ■ D1**	
	19	4 540	76.04	37 500	1.1	239	**2KJ3408 - ■ JQ23 - ■ ■ C1**	
	21	4 140	69.40	37 500	1.2	239	**2KJ3408 - ■ JQ23 - ■ ■ B1**	
	25	3 570	59.75	37 500	1.4	239	**2KJ3408 - ■ JQ23 - ■ ■ A1**	
	FZ.129-LE160MPA4P							
	21	4 130	69.20	37 500	1.2	234	**2KJ3308 - ■ JQ23 - ■ ■ A2**	
	25	3 540	59.22	37 500	1.4	234	**2KJ3308 - ■ JQ23 - ■ ■ X1**	
	26	3 330	55.74	37 500	1.5	234	**2KJ3308 - ■ JQ23 - ■ ■ W1**	
	28	3 120	52.25	37 500	1.6	234	**2KJ3308 - ■ JQ23 - ■ ■ V1**	
	32	2 760	46.32	37 500	1.8	234	**2KJ3308 - ■ JQ23 - ■ ■ U1**	
	36	2 450	41.14	37 500	2.0	234	**2KJ3308 - ■ JQ23 - ■ ■ T1**	
	40	2 210	37.12	37 500	2.2	234	**2KJ3308 - ■ JQ23 - ■ ■ S1**	
	45	1 960	32.90	37 500	2.5	234	**2KJ3308 - ■ JQ23 - ■ ■ R1**	
	50	1 740	29.13	37 100	2.8	234	**2KJ3308 - ■ JQ23 - ■ ■ Q1**	
	FD.109-LE160MPA4P							
	23	3 860	64.62	25 000	0.80	185	**2KJ3407 - ■ JQ23 - ■ ■ B1**	
	27	3 300	55.31	25 000	0.94	185	**2KJ3407 - ■ JQ23 - ■ ■ A1**	
	FZ.109-LE160MPA4P							
	24	3 590	60.12	25 000	0.86	182	**2KJ3307 - ■ JQ23 - ■ ■ X1**	
	29	3 060	51.27	25 000	1.0	182	**2KJ3307 - ■ JQ23 - ■ ■ W1**	
	30	2 880	48.25	25 000	1.1	182	**2KJ3307 - ■ JQ23 - ■ ■ V1**	
	33	2 670	44.78	25 000	1.2	182	**2KJ3307 - ■ JQ23 - ■ ■ U1**	
	37	2 360	39.59	25 000	1.3	182	**2KJ3307 - ■ JQ23 - ■ ■ T1**	
	42	2 110	35.34	25 000	1.5	182	**2KJ3307 - ■ JQ23 - ■ ■ S1**	
	46	1 900	31.80	25 000	1.6	182	**2KJ3307 - ■ JQ23 - ■ ■ R1**	
	53	1 650	27.60	25 000	1.9	182	**2KJ3307 - ■ JQ23 - ■ ■ Q1**	
	59	1 480	24.82	25 000	2.1	182	**2KJ3307 - ■ JQ23 - ■ ■ P1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
9.2	**FZ.109-LE160MPA4P**							
	68	1 290	21.70	25 000	2.4	182	**2KJ3307 - ■ JQ23 - ■ ■ N1**	
	76	1 150	19.36	25 000	2.7	182	**2KJ3307 - ■ JQ23 - ■ ■ M1**	
	86	1 020	17.06	24 600	3.0	182	**2KJ3307 - ■ JQ23 - ■ ■ L1**	
	98	890	14.95	23 900	3.5	182	**2KJ3307 - ■ JQ23 - ■ ■ K1**	
	163	535	9.02	21 200	3.9	182	**2KJ3307 - ■ JQ23 - ■ ■ F1**	
	185	475	7.94	20 600	4.2	182	**2KJ3307 - ■ JQ23 - ■ ■ E1**	
	FZ.89-LE160MPA4P							
	41	2 140	35.91	17 400	0.86	145	**2KJ3306 - ■ JQ23 - ■ ■ U1**	
	43	2 020	33.80	17 400	0.92	145	**2KJ3306 - ■ JQ23 - ■ ■ T1**	
	47	1 860	31.21	17 400	0.99	145	**2KJ3306 - ■ JQ23 - ■ ■ S1**	
	53	1 660	27.77	17 400	1.1	145	**2KJ3306 - ■ JQ23 - ■ ■ R1**	
	60	1 470	24.67	17 400	1.3	145	**2KJ3306 - ■ JQ23 - ■ ■ Q1**	
	67	1 320	22.08	17 400	1.4	145	**2KJ3306 - ■ JQ23 - ■ ■ P1**	
	78	1 120	18.88	17 400	1.6	145	**2KJ3306 - ■ JQ23 - ■ ■ N1**	
	87	1 000	16.86	17 400	1.8	145	**2KJ3306 - ■ JQ23 - ■ ■ M1**	
	99	890	14.90	17 400	2.1	145	**2KJ3306 - ■ JQ23 - ■ ■ L1**	
	112	780	13.07	17 400	2.4	145	**2KJ3306 - ■ JQ23 - ■ ■ K1**	
	129	680	11.38	17 400	2.7	145	**2KJ3306 - ■ JQ23 - ■ ■ J1**	
	151	580	9.73	17 400	3.2	145	**2KJ3306 - ■ JQ23 - ■ ■ H1**	
	176	495	8.33	17 300	3.5	145	**2KJ3306 - ■ JQ23 - ■ ■ G1**	
	193	450	7.60	16 900	2.4	145	**2KJ3306 - ■ JQ23 - ■ ■ F1**	
	219	400	6.72	16 400	2.8	145	**2KJ3306 - ■ JQ23 - ■ ■ E1**	
	249	350	5.90	15 900	3.1	145	**2KJ3306 - ■ JQ23 - ■ ■ D1**	
	287	305	5.13	15 400	3.6	145	**2KJ3306 - ■ JQ23 - ■ ■ C1**	
	335	260	4.39	14 900	4.0	145	**2KJ3306 - ■ JQ23 - ■ ■ B1**	
	391	225	3.76	14 300	4.4	145	**2KJ3306 - ■ JQ23 - ■ ■ A1**	
	FZ.79-LE160MPA4P							
	70	1 240	20.90	12 200	0.80	114	**2KJ3305 - ■ JQ23 - ■ ■ N1**	
	79	1 110	18.71	12 300	0.89	114	**2KJ3305 - ■ JQ23 - ■ ■ M1**	
	90	975	16.36	12 300	1.0	114	**2KJ3305 - ■ JQ23 - ■ ■ L1**	
	105	835	14.04	12 200	1.2	114	**2KJ3305 - ■ JQ23 - ■ ■ K1**	
	118	740	12.41	12 100	1.3	114	**2KJ3305 - ■ JQ23 - ■ ■ J1**	
	139	630	10.56	12 000	1.6	114	**2KJ3305 - ■ JQ23 - ■ ■ H1**	
	162	540	9.05	11 700	1.8	114	**2KJ3305 - ■ JQ23 - ■ ■ G1**	
	173	505	8.51	11 500	1.4	114	**2KJ3305 - ■ JQ23 - ■ ■ F1**	
	198	445	7.44	11 300	1.6	114	**2KJ3305 - ■ JQ23 - ■ ■ E1**	
	230	380	6.39	11 000	1.9	114	**2KJ3305 - ■ JQ23 - ■ ■ D1**	
	261	335	5.64	10 800	2.1	114	**2KJ3305 - ■ JQ23 - ■ ■ C1**	
	306	285	4.80	10 400	2.3	114	**2KJ3305 - ■ JQ23 - ■ ■ B1**	
	358	245	4.11	10 100	2.5	114	**2KJ3305 - ■ JQ23 - ■ ■ A1**	
11	**FD.189-LE160MPB4P**							
	4.7	22 100	310.76	110 800	0.86	676	**2KJ3412 - ■ JR23 - ■ ■ S1**	
	5.3	19 900	280.27	110 900	0.95	676	**2KJ3412 - ■ JR23 - ■ ■ R1**	
	6.0	17 600	247.71	110 900	1.1	676	**2KJ3412 - ■ JR23 - ■ ■ Q1**	
	6.5	16 100	226.42	110 900	1.2	676	**2KJ3412 - ■ JR23 - ■ ■ P1**	
	7.2	14 500	203.69	110 900	1.3	676	**2KJ3412 - ■ JR23 - ■ ■ N1**	
	8.1	12 900	182.03	110 900	1.5	676	**2KJ3412 - ■ JR23 - ■ ■ M1**	
	9.0	11 700	164.61	110 900	1.6	676	**2KJ3412 - ■ JR23 - ■ ■ L1**	

Article No. supplement		
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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
11	**FD.189-LE160MPB4P**							
	10	10 300	145.28	110 900	1.8	676	**2KJ3412 - ■ JR23 - ■ ■ K1**	
	11	9 210	129.45	110 900	2.1	676	**2KJ3412 - ■ JR23 - ■ ■ J1**	
	FD.169-LE160MPB4P							
	6.8	15 500	217.70	73 500	0.88	464	**2KJ3411 - ■ JR23 - ■ ■ Q1**	
	7.5	14 000	197.27	73 500	0.97	464	**2KJ3411 - ■ JR23 - ■ ■ P1**	
	8.4	12 500	175.69	73 500	1.1	464	**2KJ3411 - ■ JR23 - ■ ■ N1**	
	9.3	11 200	157.76	73 500	1.2	464	**2KJ3411 - ■ JR23 - ■ ■ M1**	
	10	10 000	140.77	73 500	1.4	464	**2KJ3411 - ■ JR23 - ■ ■ L1**	
	12	8 930	125.49	73 500	1.5	464	**2KJ3411 - ■ JR23 - ■ ■ K1**	
	13	7 920	111.30	73 500	1.7	464	**2KJ3411 - ■ JR23 - ■ ■ J1**	
	14	7 270	102.18	73 500	1.9	464	**2KJ3411 - ■ JR23 - ■ ■ H1**	
	16	6 410	90.03	73 500	2.1	464	**2KJ3411 - ■ JR23 - ■ ■ G1**	
	FD.149-LE160MPB4P							
	12	9 020	126.73	60 700	0.89	317	**2KJ3410 - ■ JR23 - ■ ■ L1**	
	13	8 000	112.36	60 300	1.0	317	**2KJ3410 - ■ JR23 - ■ ■ K1**	
	15	7 060	99.18	59 700	1.1	317	**2KJ3410 - ■ JR23 - ■ ■ J1**	
	17	6 210	87.20	58 900	1.3	317	**2KJ3410 - ■ JR23 - ■ ■ H1**	
	19	5 620	78.98	58 200	1.4	317	**2KJ3410 - ■ JR23 - ■ ■ G1**	
	21	4 890	68.76	57 100	1.6	317	**2KJ3410 - ■ JR23 - ■ ■ F1**	
	26	4 010	56.37	55 300	2.0	317	**2KJ3410 - ■ JR23 - ■ ■ E1**	
	29	3 560	50.01	54 100	2.2	317	**2KJ3410 - ■ JR23 - ■ ■ D1**	
	33	3 220	45.30	53 100	2.5	317	**2KJ3410 - ■ JR23 - ■ ■ C1**	
	FZ.149-LE160MPB4P							
	30	3 450	48.48	53 800	2.3	311	**2KJ3310 - ■ JR23 - ■ ■ T1**	
	34	3 120	43.89	52 800	2.6	311	**2KJ3310 - ■ JR23 - ■ ■ S1**	
	FD.129-LE160MPB4P							
	19	5 410	76.04	36 600	0.9	231	**2KJ3408 - ■ JR23 - ■ ■ C1**	
	21	4 940	69.40	37 100	0.98	231	**2KJ3408 - ■ JR23 - ■ ■ B1**	
	25	4 250	59.75	37 500	1.1	231	**2KJ3408 - ■ JR23 - ■ ■ A1**	
	FZ.129-LE160MPB4P							
	21	4 920	69.20	37 100	0.98	226	**2KJ3308 - ■ JR23 - ■ ■ A2**	
	25	4 210	59.22	37 500	1.1	226	**2KJ3308 - ■ JR23 - ■ ■ X1**	
	26	3 970	55.74	37 500	1.2	226	**2KJ3308 - ■ JR23 - ■ ■ W1**	
	28	3 720	52.25	37 500	1.3	226	**2KJ3308 - ■ JR23 - ■ ■ V1**	
	32	3 290	46.32	37 500	1.5	226	**2KJ3308 - ■ JR23 - ■ ■ U1**	
	36	2 930	41.14	37 500	1.7	226	**2KJ3308 - ■ JR23 - ■ ■ T1**	
	40	2 640	37.12	37 500	1.8	226	**2KJ3308 - ■ JR23 - ■ ■ S1**	
	45	2 340	32.90	36 900	2.1	226	**2KJ3308 - ■ JR23 - ■ ■ R1**	
	51	2 070	29.13	36 100	2.3	226	**2KJ3308 - ■ JR23 - ■ ■ Q1**	
	57	1 840	25.93	35 300	2.6	226	**2KJ3308 - ■ JR23 - ■ ■ P1**	
	63	1 650	23.23	34 500	2.9	226	**2KJ3308 - ■ JR23 - ■ ■ N1**	
	FZ.109-LE160MPB4P							
	29	3 650	51.27	25 000	0.85	174	**2KJ3307 - ■ JR23 - ■ ■ W1**	
	31	3 430	48.25	25 000	0.90	174	**2KJ3307 - ■ JR23 - ■ ■ V1**	
	33	3 180	44.78	25 000	0.97	174	**2KJ3307 - ■ JR23 - ■ ■ U1**	
	37	2 820	39.59	25 000	1.1	174	**2KJ3307 - ■ JR23 - ■ ■ T1**	
	42	2 510	35.34	25 000	1.2	174	**2KJ3307 - ■ JR23 - ■ ■ S1**	
	46	2 260	31.80	25 000	1.4	174	**2KJ3307 - ■ JR23 - ■ ■ R1**	
	53	1 960	27.60	25 000	1.6	174	**2KJ3307 - ■ JR23 - ■ ■ Q1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
11	**FZ.109-LE160MPB4P**							
	59	1 760	24.82	25 000	1.8	174	**2KJ3307 - ■ JR23 - ■ ■ P1**	
	68	1 540	21.70	24 900	2.0	174	**2KJ3307 - ■ JR23 - ■ ■ N1**	
	76	1 370	19.36	24 500	2.2	174	**2KJ3307 - ■ JR23 - ■ ■ M1**	
	86	1 210	17.06	23 900	2.6	174	**2KJ3307 - ■ JR23 - ■ ■ L1**	
	99	1 060	14.95	23 300	2.9	174	**2KJ3307 - ■ JR23 - ■ ■ K1**	
	113	925	13.03	22 700	3.3	174	**2KJ3307 - ■ JR23 - ■ ■ J1**	
	124	845	11.89	22 200	3.6	174	**2KJ3307 - ■ JR23 - ■ ■ H1**	
	164	640	9.02	20 900	3.3	174	**2KJ3307 - ■ JR23 - ■ ■ F1**	
	186	565	7.94	20 300	3.5	174	**2KJ3307 - ■ JR23 - ■ ■ E1**	
	212	495	6.96	19 600	3.8	174	**2KJ3307 - ■ JR23 - ■ ■ D1**	
	243	430	6.07	19 000	4.2	174	**2KJ3307 - ■ JR23 - ■ ■ C1**	
	266	395	5.54	18 500	4.4	174	**2KJ3307 - ■ JR23 - ■ ■ B1**	
	309	340	4.77	17 900	4.8	174	**2KJ3307 - ■ JR23 - ■ ■ A1**	
	FZ.89-LE160MPB4P							
	47	2 220	31.21	17 400	0.83	137	**2KJ3306 - ■ JR23 - ■ ■ S1**	
	53	1 970	27.77	17 400	0.94	137	**2KJ3306 - ■ JR23 - ■ ■ R1**	
	60	1 750	24.67	17 400	1.1	137	**2KJ3306 - ■ JR23 - ■ ■ Q1**	
	67	1 570	22.08	17 400	1.2	137	**2KJ3306 - ■ JR23 - ■ ■ P1**	
	78	1 340	18.88	17 400	1.4	137	**2KJ3306 - ■ JR23 - ■ ■ N1**	
	87	1 200	16.86	17 400	1.5	137	**2KJ3306 - ■ JR23 - ■ ■ M1**	
	99	1 060	14.90	17 400	1.7	137	**2KJ3306 - ■ JR23 - ■ ■ L1**	
	113	930	13.07	17 400	2.0	137	**2KJ3306 - ■ JR23 - ■ ■ K1**	
	130	810	11.38	17 400	2.3	137	**2KJ3306 - ■ JR23 - ■ ■ J1**	
	152	690	9.73	17 400	2.7	137	**2KJ3306 - ■ JR23 - ■ ■ H1**	
	177	590	8.33	16 900	2.9	137	**2KJ3306 - ■ JR23 - ■ ■ G1**	
	194	540	7.60	16 500	2.0	137	**2KJ3306 - ■ JR23 - ■ ■ F1**	
	219	475	6.72	16 100	2.3	137	**2KJ3306 - ■ JR23 - ■ ■ E1**	
	250	420	5.90	15 600	2.6	137	**2KJ3306 - ■ JR23 - ■ ■ D1**	
	288	365	5.13	15 100	3.0	137	**2KJ3306 - ■ JR23 - ■ ■ C1**	
	336	310	4.39	14 600	3.4	137	**2KJ3306 - ■ JR23 - ■ ■ B1**	
	392	265	3.76	14 100	3.7	137	**2KJ3306 - ■ JR23 - ■ ■ A1**	
	FZ.79-LE160MPB4P							
	90	1 160	16.36	11 300	0.86	106	**2KJ3305 - ■ JR23 - ■ ■ L1**	
	105	1 000	14.04	11 400	1.0	106	**2KJ3305 - ■ JR23 - ■ ■ K1**	
	119	880	12.41	11 400	1.1	106	**2KJ3305 - ■ JR23 - ■ ■ J1**	
	140	750	10.56	11 300	1.3	106	**2KJ3305 - ■ JR23 - ■ ■ H1**	
	163	645	9.05	11 200	1.6	106	**2KJ3305 - ■ JR23 - ■ ■ G1**	
	173	605	8.51	10 900	1.2	106	**2KJ3305 - ■ JR23 - ■ ■ F1**	
	198	530	7.44	10 800	1.4	106	**2KJ3305 - ■ JR23 - ■ ■ E1**	
	231	455	6.39	10 600	1.6	106	**2KJ3305 - ■ JR23 - ■ ■ D1**	
	262	400	5.64	10 400	1.7	106	**2KJ3305 - ■ JR23 - ■ ■ C1**	
	307	340	4.80	10 100	1.9	106	**2KJ3305 - ■ JR23 - ■ ■ B1**	
	359	290	4.11	9 910	2.1	106	**2KJ3305 - ■ JR23 - ■ ■ A1**	
15	**FD.189-LE160ZLL4P**							
	6.5	21 900	226.42	110 900	0.86	701	**2KJ3412 - ■ JU23 - ■ ■ P1**	
	7.2	19 700	203.69	110 900	0.96	701	**2KJ3412 - ■ JU23 - ■ ■ N1**	
	8.1	17 600	182.03	110 900	1.1	701	**2KJ3412 - ■ JU23 - ■ ■ M1**	
	9.0	15 900	164.61	110 900	1.2	701	**2KJ3412 - ■ JU23 - ■ ■ L1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
15	**FD.189-LE160ZLL4P**							
	10	14 100	145.28	110 900	1.3	701	**2KJ3412 - ■ JU23 - ■ ■ K1**	
	11	12 500	129.45	110 900	1.5	701	**2KJ3412 - ■ JU23 - ■ ■ J1**	
	13	11 300	117.27	110 900	1.7	701	**2KJ3412 - ■ JU23 - ■ ■ H1**	
	14	10 200	105.48	110 900	1.9	701	**2KJ3412 - ■ JU23 - ■ ■ G1**	
	17	8 510	87.65	110 900	2.2	701	**2KJ3412 - ■ JU23 - ■ ■ F1**	
	FD.169-LE160ZLL4P							
	8.4	17 000	175.69	73 500	0.80	489	**2KJ3411 - ■ JU23 - ■ ■ N1**	
	9.3	15 300	157.76	73 500	0.89	489	**2KJ3411 - ■ JU23 - ■ ■ M1**	
	10	13 600	140.77	73 500	0.99	489	**2KJ3411 - ■ JU23 - ■ ■ L1**	
	12	12 100	125.49	73 500	1.1	489	**2KJ3411 - ■ JU23 - ■ ■ K1**	
	13	10 800	111.30	73 500	1.3	489	**2KJ3411 - ■ JU23 - ■ ■ J1**	
	14	9 920	102.18	73 500	1.4	489	**2KJ3411 - ■ JU23 - ■ ■ H1**	
	16	8 740	90.03	73 500	1.6	489	**2KJ3411 - ■ JU23 - ■ ■ G1**	
	20	7 170	73.85	73 500	1.9	489	**2KJ3411 - ■ JU23 - ■ ■ F1**	
	23	6 280	64.75	73 500	2.2	489	**2KJ3411 - ■ JU23 - ■ ■ E1**	
	FD.149-LE160ZLL4P							
	15	9 630	99.18	53 300	0.83	342	**2KJ3410 - ■ JU23 - ■ ■ J1**	
	17	8 460	87.20	53 300	0.94	342	**2KJ3410 - ■ JU23 - ■ ■ H1**	
	19	7 670	78.98	53 100	1.0	342	**2KJ3410 - ■ JU23 - ■ ■ G1**	
	21	6 670	68.76	52 700	1.2	342	**2KJ3410 - ■ JU23 - ■ ■ F1**	
	26	5 470	56.37	51 600	1.5	342	**2KJ3410 - ■ JU23 - ■ ■ E1**	
	29	4 850	50.01	50 900	1.6	342	**2KJ3410 - ■ JU23 - ■ ■ D1**	
	33	4 390	45.30	50 200	1.8	342	**2KJ3410 - ■ JU23 - ■ ■ C1**	
	37	3 820	39.43	49 100	2.1	342	**2KJ3410 - ■ JU23 - ■ ■ B1**	
	46	3 140	32.33	47 400	2.4	342	**2KJ3410 - ■ JU23 - ■ ■ A1**	
	FZ.149-LE160ZLL4P							
	30	4 700	48.48	50 700	1.7	336	**2KJ3310 - ■ JU23 - ■ ■ T1**	
	34	4 260	43.89	49 900	1.9	336	**2KJ3310 - ■ JU23 - ■ ■ S1**	
	38	3 740	38.55	48 900	2.1	336	**2KJ3310 - ■ JU23 - ■ ■ R1**	
	42	3 390	34.93	48 100	2.4	336	**2KJ3310 - ■ JU23 - ■ ■ Q1**	
	47	3 020	31.11	47 100	2.6	336	**2KJ3310 - ■ JU23 - ■ ■ P1**	
	53	2 710	27.94	46 100	2.9	336	**2KJ3310 - ■ JU23 - ■ ■ N1**	
	FD.129-LE160ZLL4P							
	25	5 800	59.75	35 800	0.84	256	**2KJ3408 - ■ JU23 - ■ ■ A1**	
	FZ.129-LE160ZLL4P							
	25	5 750	59.22	35 800	0.84	251	**2KJ3308 - ■ JU23 - ■ ■ X1**	
	26	5 410	55.74	35 800	0.90	251	**2KJ3308 - ■ JU23 - ■ ■ W1**	
	28	5 070	52.25	35 800	0.96	251	**2KJ3308 - ■ JU23 - ■ ■ V1**	
	32	4 490	46.32	35 600	1.1	251	**2KJ3308 - ■ JU23 - ■ ■ U1**	
	36	3 990	41.14	35 300	1.2	251	**2KJ3308 - ■ JU23 - ■ ■ T1**	
	40	3 600	37.12	35 000	1.3	251	**2KJ3308 - ■ JU23 - ■ ■ S1**	
	45	3 190	32.90	34 600	1.5	251	**2KJ3308 - ■ JU23 - ■ ■ R1**	
	51	2 820	29.13	34 000	1.7	251	**2KJ3308 - ■ JU23 - ■ ■ Q1**	
	57	2 510	25.93	33 400	1.9	251	**2KJ3308 - ■ JU23 - ■ ■ P1**	
	63	2 250	23.23	32 900	2.1	251	**2KJ3308 - ■ JU23 - ■ ■ N1**	
	72	2 000	20.60	32 200	2.4	251	**2KJ3308 - ■ JU23 - ■ ■ M1**	
	81	1 760	18.18	31 500	2.7	251	**2KJ3308 - ■ JU23 - ■ ■ L1**	
	92	1 550	15.99	30 700	3.1	251	**2KJ3308 - ■ JU23 - ■ ■ K1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
15	**FZ.129-LE160ZLL4P**							
	102	1 400	14.48	30 000	3.3	251	**2KJ3308 - ■ JU23 - ■ ■ J1**	
	117	1 220	12.61	29 200	3.7	251	**2KJ3308 - ■ JU23 - ■ ■ H1**	
	151	950	9.80	27 300	3.8	251	**2KJ3308 - ■ JU23 - ■ ■ F1**	
	FZ.109-LE160ZLL4P							
	37	3 840	39.59	23 300	0.81	199	**2KJ3307 - ■ JU23 - ■ ■ T1**	
	42	3 430	35.34	23 400	0.90	199	**2KJ3307 - ■ JU23 - ■ ■ S1**	
	46	3 080	31.80	23 500	1.0	199	**2KJ3307 - ■ JU23 - ■ ■ R1**	
	53	2 680	27.60	23 400	1.2	199	**2KJ3307 - ■ JU23 - ■ ■ Q1**	
	59	2 410	24.82	23 300	1.3	199	**2KJ3307 - ■ JU23 - ■ ■ P1**	
	68	2 100	21.70	23 100	1.5	199	**2KJ3307 - ■ JU23 - ■ ■ N1**	
	76	1 880	19.36	22 800	1.6	199	**2KJ3307 - ■ JU23 - ■ ■ M1**	
	86	1 650	17.06	22 500	1.9	199	**2KJ3307 - ■ JU23 - ■ ■ L1**	
	99	1 450	14.95	22 000	2.1	199	**2KJ3307 - ■ JU23 - ■ ■ K1**	
	113	1 260	13.03	21 600	2.4	199	**2KJ3307 - ■ JU23 - ■ ■ J1**	
	124	1 150	11.89	21 200	2.6	199	**2KJ3307 - ■ JU23 - ■ ■ H1**	
	144	990	10.23	20 700	2.9	199	**2KJ3307 - ■ JU23 - ■ ■ G1**	
	164	875	9.02	20 100	2.4	199	**2KJ3307 - ■ JU23 - ■ ■ F1**	
	186	770	7.94	19 600	2.6	199	**2KJ3307 - ■ JU23 - ■ ■ E1**	
	212	675	6.96	19 000	2.8	199	**2KJ3307 - ■ JU23 - ■ ■ D1**	
	243	590	6.07	18 400	3.1	199	**2KJ3307 - ■ JU23 - ■ ■ C1**	
	266	535	5.54	18 100	3.2	199	**2KJ3307 - ■ JU23 - ■ ■ B1**	
	309	460	4.77	17 500	3.5	199	**2KJ3307 - ■ JU23 - ■ ■ A1**	
	FZ.89-LE160ZLL4P							
	67	2 140	22.08	17 100	0.86	162	**2KJ3306 - ■ JU23 - ■ ■ P1**	
	78	1 830	18.88	17 200	1.0	162	**2KJ3306 - ■ JU23 - ■ ■ N1**	
	87	1 630	16.86	17 200	1.1	162	**2KJ3306 - ■ JU23 - ■ ■ M1**	
	99	1 440	14.90	17 100	1.3	162	**2KJ3306 - ■ JU23 - ■ ■ L1**	
	113	1 260	13.07	17 000	1.5	162	**2KJ3306 - ■ JU23 - ■ ■ K1**	
	130	1 100	11.38	16 700	1.7	162	**2KJ3306 - ■ JU23 - ■ ■ J1**	
	152	945	9.73	16 400	2.0	162	**2KJ3306 - ■ JU23 - ■ ■ H1**	
	177	805	8.33	16 000	2.2	162	**2KJ3306 - ■ JU23 - ■ ■ G1**	
	194	735	7.60	15 600	1.5	162	**2KJ3306 - ■ JU23 - ■ ■ F1**	
	219	650	6.72	15 300	1.7	162	**2KJ3306 - ■ JU23 - ■ ■ E1**	
	250	570	5.90	15 000	1.9	162	**2KJ3306 - ■ JU23 - ■ ■ D1**	
	288	495	5.13	14 600	2.2	162	**2KJ3306 - ■ JU23 - ■ ■ C1**	
	336	425	4.39	14 100	2.5	162	**2KJ3306 - ■ JU23 - ■ ■ B1**	
	392	365	3.76	13 600	2.7	162	**2KJ3306 - ■ JU23 - ■ ■ A1**	
	FZ.79-LE160ZLL4P							
	119	1 200	12.41	9 750	0.83	131	**2KJ3305 - ■ JU23 - ■ ■ J1**	
	140	1 020	10.56	9 930	0.98	131	**2KJ3305 - ■ JU23 - ■ ■ H1**	
	163	875	9.05	10 000	1.1	131	**2KJ3305 - ■ JU23 - ■ ■ G1**	
	173	825	8.51	9 720	0.87	131	**2KJ3305 - ■ JU23 - ■ ■ F1**	
	198	720	7.44	9 740	1.0	131	**2KJ3305 - ■ JU23 - ■ ■ E1**	
	231	620	6.39	9 680	1.2	131	**2KJ3305 - ■ JU23 - ■ ■ D1**	
	262	545	5.64	9 630	1.3	131	**2KJ3305 - ■ JU23 - ■ ■ C1**	
	307	465	4.80	9 470	1.4	131	**2KJ3305 - ■ JU23 - ■ ■ B1**	
	359	395	4.11	9 320	1.5	131	**2KJ3305 - ■ JU23 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 10/44
Frequency and voltage	**2 or 9**	➞ page 11/2
Gearbox mounting type	**A, D, F or H**	➞ page 10/37

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
18.5	**FD.189-LES180MQ4P**							
	8.0	21 900	182.03	110 900	0.87	750	**2KJ3412 - ■ KL33 - ■ ■ M1**	
	8.9	19 800	164.61	110 900	0.96	750	**2KJ3412 - ■ KL33 - ■ ■ L1**	
	10	17 500	145.28	110 900	1.1	750	**2KJ3412 - ■ KL33 - ■ ■ K1**	
	11	15 600	129.45	110 900	1.2	750	**2KJ3412 - ■ KL33 - ■ ■ J1**	
	12	14 100	117.27	110 900	1.3	750	**2KJ3412 - ■ KL33 - ■ ■ H1**	
	14	12 700	105.48	110 900	1.5	750	**2KJ3412 - ■ KL33 - ■ ■ G1**	
	17	10 500	87.65	110 900	1.8	750	**2KJ3412 - ■ KL33 - ■ ■ F1**	
	19	9 390	77.92	110 900	2.0	750	**2KJ3412 - ■ KL33 - ■ ■ E1**	
	FD.169-LES180MQ4P							
	10	16 900	140.77	73 500	0.8	538	**2KJ3411 - ■ KL33 - ■ ■ L1**	
	12	15 100	125.49	73 500	0.9	538	**2KJ3411 - ■ KL33 - ■ ■ K1**	
	13	13 400	111.30	73 500	1.0	538	**2KJ3411 - ■ KL33 - ■ ■ J1**	
	14	12 300	102.18	73 500	1.1	538	**2KJ3411 - ■ KL33 - ■ ■ H1**	
	16	10 800	90.03	73 500	1.3	538	**2KJ3411 - ■ KL33 - ■ ■ G1**	
	20	8 900	73.85	73 500	1.5	538	**2KJ3411 - ■ KL33 - ■ ■ F1**	
	23	7 800	64.75	73 500	1.7	538	**2KJ3411 - ■ KL33 - ■ ■ E1**	
	29	6 100	50.63	73 500	2.2	538	**2KJ3411 - ■ KL33 - ■ ■ D1**	
	31	5 610	46.55	73 500	2.4	538	**2KJ3411 - ■ KL33 - ■ ■ C1**	
	FD.149-LES180MQ4P							
	19	9 520	78.98	48 600	0.84	397	**2KJ3410 - ■ KL33 - ■ ■ G1**	
	21	8 290	68.76	48 700	0.96	397	**2KJ3410 - ■ KL33 - ■ ■ F1**	
	26	6 790	56.37	48 500	1.2	397	**2KJ3410 - ■ KL33 - ■ ■ E1**	
	29	6 030	50.01	48 100	1.3	397	**2KJ3410 - ■ KL33 - ■ ■ D1**	
	32	5 460	45.30	47 600	1.5	397	**2KJ3410 - ■ KL33 - ■ ■ C1**	
	37	4 750	39.43	46 900	1.7	397	**2KJ3410 - ■ KL33 - ■ ■ B1**	
	45	3 890	32.33	45 700	1.9	397	**2KJ3410 - ■ KL33 - ■ ■ A1**	
	FZ.149-LES180MQ4P							
	42	4 210	34.93	46 200	1.9	416	**2KJ3310 - ■ KL33 - ■ ■ Q1**	
	47	3 750	31.11	45 400	2.1	416	**2KJ3310 - ■ KL33 - ■ ■ P1**	
	52	3 360	27.94	44 600	2.4	416	**2KJ3310 - ■ KL33 - ■ ■ N1**	
	59	3 000	24.93	43 700	2.7	416	**2KJ3310 - ■ KL33 - ■ ■ M1**	
	66	2 680	22.22	42 800	3.0	416	**2KJ3310 - ■ KL33 - ■ ■ L1**	
	FZ.129-LES180MQ4P							
	50	3 510	29.13	32 200	1.4	328	**2KJ3308 - ■ KL33 - ■ ■ Q1**	
	56	3 120	25.93	31 800	1.6	328	**2KJ3308 - ■ KL33 - ■ ■ P1**	
	63	2 800	23.23	31 400	1.7	328	**2KJ3308 - ■ KL33 - ■ ■ N1**	
	71	2 480	20.60	30 900	2.0	328	**2KJ3308 - ■ KL33 - ■ ■ M1**	
	81	2 190	18.18	30 300	2.2	328	**2KJ3308 - ■ KL33 - ■ ■ L1**	
	92	1 920	15.99	29 700	2.5	328	**2KJ3308 - ■ KL33 - ■ ■ K1**	
	101	1 740	14.48	29 200	2.7	328	**2KJ3308 - ■ KL33 - ■ ■ J1**	
	116	1 520	12.61	28 400	3.0	328	**2KJ3308 - ■ KL33 - ■ ■ H1**	
	142	1 240	10.34	27 300	3.5	328	**2KJ3308 - ■ KL33 - ■ ■ G1**	
	149	1 180	9.80	26 700	3.1	328	**2KJ3308 - ■ KL33 - ■ ■ F1**	
	169	1 040	8.65	26 000	3.5	328	**2KJ3308 - ■ KL33 - ■ ■ E1**	
	193	915	7.60	25 300	3.9	328	**2KJ3308 - ■ KL33 - ■ ■ D1**	
	213	830	6.89	24 700	4.4	328	**2KJ3308 - ■ KL33 - ■ ■ C1**	
	FZ.109-LES180MQ4P							
	59	2 990	24.82	21 500	1.0	277	**2KJ3307 - ■ KL33 - ■ ■ P1**	
	68	2 610	21.70	21 500	1.2	277	**2KJ3307 - ■ KL33 - ■ ■ N1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
18.5	**FZ.109-LES180MQ4P**							
	76	2 330	19.36	21 400	1.3	277	**2KJ3307 - ■ KL33 - ■ ■ M1**	
	86	2 050	17.06	21 200	1.5	277	**2KJ3307 - ■ KL33 - ■ ■ L1**	
	98	1 800	14.95	20 900	1.7	277	**2KJ3307 - ■ KL33 - ■ ■ K1**	
	112	1 570	13.03	20 600	2.0	277	**2KJ3307 - ■ KL33 - ■ ■ J1**	
	123	1 430	11.89	20 400	2.1	277	**2KJ3307 - ■ KL33 - ■ ■ H1**	
	143	1 230	10.23	19 900	2.3	277	**2KJ3307 - ■ KL33 - ■ ■ G1**	
	162	1 080	9.02	19 400	1.9	277	**2KJ3307 - ■ KL33 - ■ ■ F1**	
	185	955	7.94	19 000	2.1	277	**2KJ3307 - ■ KL33 - ■ ■ E1**	
	210	835	6.96	18 500	2.3	277	**2KJ3307 - ■ KL33 - ■ ■ D1**	
	241	730	6.07	18 000	2.5	277	**2KJ3307 - ■ KL33 - ■ ■ C1**	
	264	665	5.54	17 700	2.6	277	**2KJ3307 - ■ KL33 - ■ ■ B1**	
	307	575	4.77	17 100	2.8	277	**2KJ3307 - ■ KL33 - ■ ■ A1**	
	FZ.89-LES180MQ4P							
	87	2 030	16.86	15 600	0.91	238	**2KJ3306 - ■ KL33 - ■ ■ M1**	
	98	1 790	14.90	15 700	1.0	238	**2KJ3306 - ■ KL33 - ■ ■ L1**	
	112	1 570	13.07	15 700	1.2	238	**2KJ3306 - ■ KL33 - ■ ■ K1**	
	129	1 370	11.38	15 600	1.3	238	**2KJ3306 - ■ KL33 - ■ ■ J1**	
	151	1 170	9.73	15 500	1.6	238	**2KJ3306 - ■ KL33 - ■ ■ H1**	
	176	1 000	8.33	15 300	1.7	238	**2KJ3306 - ■ KL33 - ■ ■ G1**	
	193	915	7.60	14 900	1.2	238	**2KJ3306 - ■ KL33 - ■ ■ F1**	
	218	810	6.72	14 600	1.4	238	**2KJ3306 - ■ KL33 - ■ ■ E1**	
	248	710	5.90	14 400	1.6	238	**2KJ3306 - ■ KL33 - ■ ■ D1**	
	286	615	5.13	14 100	1.8	238	**2KJ3306 - ■ KL33 - ■ ■ C1**	
	334	525	4.39	13 700	2.0	238	**2KJ3306 - ■ KL33 - ■ ■ B1**	
	390	450	3.76	13 300	2.2	238	**2KJ3306 - ■ KL33 - ■ ■ A1**	
22	**FD.189-LES180ZLN4P**							
	8.9	23 500	164.61	110 000	0.81	755	**2KJ3412 - ■ KN33 - ■ ■ L1**	
	10	20 700	145.28	110 900	0.92	755	**2KJ3412 - ■ KN33 - ■ ■ K1**	
	11	18 500	129.45	110 900	1.0	755	**2KJ3412 - ■ KN33 - ■ ■ J1**	
	13	16 700	117.27	110 900	1.1	755	**2KJ3412 - ■ KN33 - ■ ■ H1**	
	14	15 000	105.48	110 900	1.3	755	**2KJ3412 - ■ KN33 - ■ ■ G1**	
	17	12 500	87.65	110 900	1.5	755	**2KJ3412 - ■ KN33 - ■ ■ F1**	
	19	11 100	77.92	110 900	1.7	755	**2KJ3412 - ■ KN33 - ■ ■ E1**	
	24	8 870	62.11	110 900	2.1	755	**2KJ3412 - ■ KN33 - ■ ■ D1**	
	FD.169-LES180ZLN4P							
	13	15 900	111.30	73 500	0.85	543	**2KJ3411 - ■ KN33 - ■ ■ J1**	
	14	14 600	102.18	73 500	0.93	543	**2KJ3411 - ■ KN33 - ■ ■ H1**	
	16	12 800	90.03	73 500	1.1	543	**2KJ3411 - ■ KN33 - ■ ■ G1**	
	20	10 500	73.85	73 500	1.3	543	**2KJ3411 - ■ KN33 - ■ ■ F1**	
	23	9 250	64.75	73 500	1.5	543	**2KJ3411 - ■ KN33 - ■ ■ E1**	
	29	7 230	50.63	73 500	1.9	543	**2KJ3411 - ■ KN33 - ■ ■ D1**	
	32	6 650	46.55	72 600	2.0	543	**2KJ3411 - ■ KN33 - ■ ■ C1**	
	36	5 830	40.82	71 000	2.3	543	**2KJ3411 - ■ KN33 - ■ ■ B1**	
	FZ.169-LES180ZLN4P							
	36	5 870	41.07	71 100	2.3	555	**2KJ3311 - ■ KN33 - ■ ■ R1**	
	40	5 280	36.94	69 700	2.6	555	**2KJ3311 - ■ KN33 - ■ ■ Q1**	
	FD.149-LES180ZLN4P							
	21	9 820	68.76	44 800	0.81	402	**2KJ3410 - ■ KN33 - ■ ■ F1**	
	26	8 050	56.37	45 300	0.99	402	**2KJ3410 - ■ KN33 - ■ ■ E1**	

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Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
22	**FD.149-LES180ZLN4P**							
	29	7 140	50.01	45 200	1.1	402	**2KJ3410 - ■ KN33 - ■ ■ D1**	
	32	6 470	45.30	45 100	1.2	402	**2KJ3410 - ■ KN33 - ■ ■ C1**	
	37	5 630	39.43	44 700	1.4	402	**2KJ3410 - ■ KN33 - ■ ■ B1**	
	45	4 620	32.33	43 800	1.6	402	**2KJ3410 - ■ KN33 - ■ ■ A1**	
	FZ.149-LES180ZLN4P							
	42	4 990	34.93	44 200	1.6	421	**2KJ3310 - ■ KN33 - ■ ■ Q1**	
	47	4 440	31.11	43 600	1.8	421	**2KJ3310 - ■ KN33 - ■ ■ P1**	
	53	3 990	27.94	43 000	2.0	421	**2KJ3310 - ■ KN33 - ■ ■ N1**	
	59	3 560	24.93	42 300	2.2	421	**2KJ3310 - ■ KN33 - ■ ■ M1**	
	66	3 170	22.22	41 500	2.5	421	**2KJ3310 - ■ KN33 - ■ ■ L1**	
	75	2 810	19.71	40 700	2.8	421	**2KJ3310 - ■ KN33 - ■ ■ K1**	
	81	2 580	18.10	40 000	3.1	421	**2KJ3310 - ■ KN33 - ■ ■ J1**	
	FZ.129-LES180ZLN4P							
	50	4 160	29.13	30 300	1.2	333	**2KJ3308 - ■ KN33 - ■ ■ Q1**	
	57	3 700	25.93	30 200	1.3	333	**2KJ3308 - ■ KN33 - ■ ■ P1**	
	63	3 320	23.23	29 900	1.5	333	**2KJ3308 - ■ KN33 - ■ ■ N1**	
	71	2 940	20.60	29 600	1.6	333	**2KJ3308 - ■ KN33 - ■ ■ M1**	
	81	2 590	18.18	29 200	1.9	333	**2KJ3308 - ■ KN33 - ■ ■ L1**	
	92	2 280	15.99	28 700	2.1	333	**2KJ3308 - ■ KN33 - ■ ■ K1**	
	102	2 070	14.48	28 200	2.3	333	**2KJ3308 - ■ KN33 - ■ ■ J1**	
	117	1 800	12.61	27 600	2.5	333	**2KJ3308 - ■ KN33 - ■ ■ H1**	
	142	1 470	10.34	26 600	2.9	333	**2KJ3308 - ■ KN33 - ■ ■ G1**	
	150	1 400	9.80	26 000	2.6	333	**2KJ3308 - ■ KN33 - ■ ■ F1**	
	170	1 230	8.65	25 400	2.9	333	**2KJ3308 - ■ KN33 - ■ ■ E1**	
	193	1 080	7.60	24 700	3.3	333	**2KJ3308 - ■ KN33 - ■ ■ D1**	
	213	985	6.89	24 200	3.7	333	**2KJ3308 - ■ KN33 - ■ ■ C1**	
	245	855	6.00	23 500	4.2	333	**2KJ3308 - ■ KN33 - ■ ■ B1**	
	299	700	4.92	22 400	4.3	333	**2KJ3308 - ■ KN33 - ■ ■ A1**	
	FZ.109-LES180ZLN4P							
	59	3 540	24.82	19 600	0.87	282	**2KJ3307 - ■ KN33 - ■ ■ P1**	
	68	3 100	21.70	19 800	1.0	282	**2KJ3307 - ■ KN33 - ■ ■ N1**	
	76	2 760	19.36	19 900	1.1	282	**2KJ3307 - ■ KN33 - ■ ■ M1**	
	86	2 430	17.06	19 900	1.3	282	**2KJ3307 - ■ KN33 - ■ ■ L1**	
	98	2 130	14.95	19 800	1.5	282	**2KJ3307 - ■ KN33 - ■ ■ K1**	
	113	1 860	13.03	19 600	1.7	282	**2KJ3307 - ■ KN33 - ■ ■ J1**	
	124	1 690	11.89	19 500	1.8	282	**2KJ3307 - ■ KN33 - ■ ■ H1**	
	144	1 460	10.23	19 100	2.0	282	**2KJ3307 - ■ KN33 - ■ ■ G1**	
	163	1 280	9.02	18 700	1.6	282	**2KJ3307 - ■ KN33 - ■ ■ F1**	
	185	1 130	7.94	18 400	1.8	282	**2KJ3307 - ■ KN33 - ■ ■ E1**	
	211	995	6.96	18 000	1.9	282	**2KJ3307 - ■ KN33 - ■ ■ D1**	
	242	865	6.07	17 500	2.1	282	**2KJ3307 - ■ KN33 - ■ ■ C1**	
	265	790	5.54	17 200	2.2	282	**2KJ3307 - ■ KN33 - ■ ■ B1**	
	308	680	4.77	16 700	2.4	282	**2KJ3307 - ■ KN33 - ■ ■ A1**	
	FZ.89-LES180ZLN4P							
	99	2 130	14.90	14 300	0.87	243	**2KJ3306 - ■ KN33 - ■ ■ L1**	
	112	1 860	13.07	14 500	0.99	243	**2KJ3306 - ■ KN33 - ■ ■ K1**	
	129	1 620	11.38	14 600	1.1	243	**2KJ3306 - ■ KN33 - ■ ■ J1**	
	151	1 390	9.73	14 600	1.3	243	**2KJ3306 - ■ KN33 - ■ ■ H1**	

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
22	**FZ.89-LES180ZLN4P**							
	176	1 190	8.33	14 500	1.5	243	**2KJ3306 - ■ KN33 - ■ ■ G1**	
	193	1 080	7.60	14 100	1.0	243	**2KJ3306 - ■ KN33 - ■ ■ F1**	
	219	960	6.72	14 000	1.2	243	**2KJ3306 - ■ KN33 - ■ ■ E1**	
	249	840	5.90	13 800	1.3	243	**2KJ3306 - ■ KN33 - ■ ■ D1**	
	287	730	5.13	13 600	1.5	243	**2KJ3306 - ■ KN33 - ■ ■ C1**	
	335	625	4.39	13 200	1.7	243	**2KJ3306 - ■ KN33 - ■ ■ B1**	
	391	535	3.76	12 900	1.8	243	**2KJ3306 - ■ KN33 - ■ ■ A1**	
30	**FD.189-LES200ZLU4P**							
	13	22 800	117.27	110 400	0.83	825	**2KJ3412 - ■ LN33 - ■ ■ H1**	
	14	20 500	105.48	110 900	0.92	825	**2KJ3412 - ■ LN33 - ■ ■ G1**	
	17	17 000	87.65	110 900	1.1	825	**2KJ3412 - ■ LN33 - ■ ■ F1**	
	19	15 100	77.92	110 200	1.3	825	**2KJ3412 - ■ LN33 - ■ ■ E1**	
	24	12 100	62.11	106 800	1.6	825	**2KJ3412 - ■ LN33 - ■ ■ D1**	
	30	9 630	49.43	102 900	2.0	825	**2KJ3412 - ■ LN33 - ■ ■ C1**	
	36	7 910	40.61	99 200	2.4	825	**2KJ3412 - ■ LN33 - ■ ■ B1**	
	FZ.189-LES200ZLU4P							
	39	7 390	37.93	97 900	2.6	830	**2KJ3312 - ■ LN33 - ■ ■ L1**	
	FD.169-LES200ZLU4P							
	20	14 300	73.85	69 500	0.94	613	**2KJ3411 - ■ LN33 - ■ ■ F1**	
	23	12 600	64.75	69 200	1.1	613	**2KJ3411 - ■ LN33 - ■ ■ E1**	
	29	9 860	50.63	68 100	1.4	613	**2KJ3411 - ■ LN33 - ■ ■ D1**	
	32	9 070	46.55	67 600	1.5	613	**2KJ3411 - ■ LN33 - ■ ■ C1**	
	36	7 950	40.82	66 600	1.7	613	**2KJ3411 - ■ LN33 - ■ ■ B1**	
	46	6 220	31.92	64 300	2.2	613	**2KJ3411 - ■ LN33 - ■ ■ A1**	
	FZ.169-LES200ZLU4P							
	40	7 200	36.94	65 700	1.9	631	**2KJ3311 - ■ LN33 - ■ ■ Q1**	
	45	6 430	33.02	64 600	2.1	631	**2KJ3311 - ■ LN33 - ■ ■ P1**	
	49	5 820	29.86	63 600	2.3	631	**2KJ3311 - ■ LN33 - ■ ■ N1**	
	56	5 130	26.35	62 200	2.6	631	**2KJ3311 - ■ LN33 - ■ ■ M1**	
	63	4 570	23.48	60 900	3.0	631	**2KJ3311 - ■ LN33 - ■ ■ L1**	
	FD.149-LES200ZLU4P							
	29	9 740	50.01	38 700	0.82	472	**2KJ3410 - ■ LN33 - ■ ■ D1**	
	32	8 820	45.30	39 200	0.91	472	**2KJ3410 - ■ LN33 - ■ ■ C1**	
	37	7 680	39.43	39 500	1.0	472	**2KJ3410 - ■ LN33 - ■ ■ B1**	
	45	6 300	32.33	39 600	1.2	472	**2KJ3410 - ■ LN33 - ■ ■ A1**	
	FZ.149-LES200ZLU4P							
	47	6 060	31.11	39 500	1.3	495	**2KJ3310 - ■ LN33 - ■ ■ P1**	
	53	5 440	27.94	39 400	1.5	495	**2KJ3310 - ■ LN33 - ■ ■ N1**	
	59	4 850	24.93	39 000	1.6	495	**2KJ3310 - ■ LN33 - ■ ■ M1**	
	66	4 330	22.22	38 600	1.8	495	**2KJ3310 - ■ LN33 - ■ ■ L1**	
	75	3 840	19.71	38 100	2.1	495	**2KJ3310 - ■ LN33 - ■ ■ K1**	
	81	3 520	18.10	37 700	2.3	495	**2KJ3310 - ■ LN33 - ■ ■ J1**	
	92	3 100	15.94	37 000	2.6	495	**2KJ3310 - ■ LN33 - ■ ■ H1**	
	112	2 540	13.08	35 800	3.0	495	**2KJ3310 - ■ LN33 - ■ ■ G1**	
	128	2 230	11.47	35 000	3.3	495	**2KJ3310 - ■ LN33 - ■ ■ F1**	
	164	1 740	8.97	33 300	3.9	495	**2KJ3310 - ■ LN33 - ■ ■ E1**	
	182	1 570	8.09	32 300	3.6	495	**2KJ3310 - ■ LN33 - ■ ■ D1**	
	221	1 290	6.64	31 000	4.4	495	**2KJ3310 - ■ LN33 - ■ ■ C1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 10/44
Frequency and voltage	**2 or 9**	➞ page 11/2
Gearbox mounting type	**A, D, F or H**	➞ page 10/37

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
30	**FZ.129-LES200ZLU4P**							
	57	5 050	25.93	26 400	0.96	408	**2KJ3308 - ■ LN33 - ■ ■ P1**	
	63	4 520	23.23	26 600	1.1	408	**2KJ3308 - ■ LN33 - ■ ■ N1**	
	71	4 010	20.60	26 600	1.2	408	**2KJ3308 - ■ LN33 - ■ ■ M1**	
	81	3 540	18.18	26 500	1.4	408	**2KJ3308 - ■ LN33 - ■ ■ L1**	
	92	3 110	15.99	26 300	1.5	408	**2KJ3308 - ■ LN33 - ■ ■ K1**	
	102	2 820	14.48	26 100	1.7	408	**2KJ3308 - ■ LN33 - ■ ■ J1**	
	117	2 450	12.61	25 800	1.8	408	**2KJ3308 - ■ LN33 - ■ ■ H1**	
	142	2 010	10.34	25 100	2.1	408	**2KJ3308 - ■ LN33 - ■ ■ G1**	
	150	1 910	9.80	24 400	1.9	408	**2KJ3308 - ■ LN33 - ■ ■ F1**	
	170	1 680	8.65	24 000	2.2	408	**2KJ3308 - ■ LN33 - ■ ■ E1**	
	193	1 480	7.60	23 500	2.4	408	**2KJ3308 - ■ LN33 - ■ ■ D1**	
	213	1 340	6.89	23 100	2.7	408	**2KJ3308 - ■ LN33 - ■ ■ C1**	
	245	1 160	6.00	22 600	3.1	408	**2KJ3308 - ■ LN33 - ■ ■ B1**	
	299	955	4.92	21 700	3.2	408	**2KJ3308 - ■ LN33 - ■ ■ A1**	
	FZ.109-LES200ZLU4P							
	76	3 770	19.36	16 600	0.82	357	**2KJ3307 - ■ LN33 - ■ ■ M1**	
	86	3 320	17.06	17 000	0.93	357	**2KJ3307 - ■ LN33 - ■ ■ L1**	
	98	2 910	14.95	17 300	1.1	357	**2KJ3307 - ■ LN33 - ■ ■ K1**	
	113	2 540	13.03	17 400	1.2	357	**2KJ3307 - ■ LN33 - ■ ■ J1**	
	124	2 310	11.89	17 500	1.3	357	**2KJ3307 - ■ LN33 - ■ ■ H1**	
	144	1 990	10.23	17 400	1.4	357	**2KJ3307 - ■ LN33 - ■ ■ G1**	
	163	1 750	9.02	17 200	1.2	357	**2KJ3307 - ■ LN33 - ■ ■ F1**	
	185	1 540	7.94	17 000	1.3	357	**2KJ3307 - ■ LN33 - ■ ■ E1**	
	211	1 350	6.96	16 800	1.4	357	**2KJ3307 - ■ LN33 - ■ ■ D1**	
	242	1 180	6.07	16 500	1.5	357	**2KJ3307 - ■ LN33 - ■ ■ C1**	
	265	1 080	5.54	16 300	1.6	357	**2KJ3307 - ■ LN33 - ■ ■ B1**	
	308	930	4.77	15 900	1.7	357	**2KJ3307 - ■ LN33 - ■ ■ A1**	
37	**FD.189-LES225SD4P**							
	17	20 900	87.65	103 900	0.91	901	**2KJ3412 - ■ MF33 - ■ ■ F1**	
	19	18 600	77.92	103 300	1.0	901	**2KJ3412 - ■ MF33 - ■ ■ E1**	
	24	14 800	62.11	101 400	1.3	901	**2KJ3412 - ■ MF33 - ■ ■ D1**	
	30	11 800	49.43	98 600	1.6	901	**2KJ3412 - ■ MF33 - ■ ■ C1**	
	36	9 700	40.61	95 600	2.0	901	**2KJ3412 - ■ MF33 - ■ ■ B1**	
	46	7 720	32.32	91 800	2.5	901	**2KJ3412 - ■ MF33 - ■ ■ A1**	
	FZ.189-LES225SD4P							
	39	9 060	37.93	94 500	2.1	873	**2KJ3312 - ■ MF33 - ■ ■ L1**	
	43	8 130	34.03	92 700	2.3	873	**2KJ3312 - ■ MF33 - ■ ■ K1**	
	49	7 270	30.41	90 800	2.6	873	**2KJ3312 - ■ MF33 - ■ ■ J1**	
	54	6 490	27.17	88 800	2.9	873	**2KJ3312 - ■ MF33 - ■ ■ H1**	
	FD.169-LES225SD4P							
	23	15 400	64.75	63 200	0.88	689	**2KJ3411 - ■ MF33 - ■ ■ E1**	
	29	12 100	50.63	63 300	1.1	689	**2KJ3411 - ■ MF33 - ■ ■ D1**	
	32	11 100	46.55	63 200	1.2	689	**2KJ3411 - ■ MF33 - ■ ■ C1**	
	36	9 750	40.82	62 700	1.4	689	**2KJ3411 - ■ MF33 - ■ ■ B1**	
	46	7 630	31.92	61 200	1.8	689	**2KJ3411 - ■ MF33 - ■ ■ A1**	
	FZ.169-LES225SD4P							
	45	7 890	33.02	61 400	1.7	674	**2KJ3311 - ■ MF33 - ■ ■ P1**	
	49	7 130	29.86	60 700	1.9	674	**2KJ3311 - ■ MF33 - ■ ■ N1**	
	56	6 300	26.35	59 700	2.2	674	**2KJ3311 - ■ MF33 - ■ ■ M1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 10/44
Frequency and voltage	**2 or 9**	➞ page 11/2
Gearbox mounting type	**A, D, F or H**	➞ page 10/37

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
37	**FZ.169-LES225SD4P**							
	63	5 610	23.48	58 600	2.4	674	**2KJ3311 - ■ MF33 - ■ ■ L1**	
	69	5 080	21.27	57 700	2.7	674	**2KJ3311 - ■ MF33 - ■ ■ K1**	
	77	4 570	19.13	56 600	3.0	674	**2KJ3311 - ■ MF33 - ■ ■ J1**	
	183	1 920	8.07	46 200	4.3	674	**2KJ3311 - ■ MF33 - ■ ■ D1**	
	FD.149-LES225SD4P							
	37	9 420	39.43	35 100	0.85	545	**2KJ3410 - ■ MF33 - ■ ■ B1**	
	46	7 720	32.33	35 900	0.97	545	**2KJ3410 - ■ MF33 - ■ ■ A1**	
	FZ.149-LES225SD4P							
	53	6 680	27.94	36 200	1.2	540	**2KJ3310 - ■ MF33 - ■ ■ N1**	
	59	5 960	24.93	36 200	1.3	540	**2KJ3310 - ■ MF33 - ■ ■ M1**	
	67	5 310	22.22	36 100	1.5	540	**2KJ3310 - ■ MF33 - ■ ■ L1**	
	75	4 710	19.71	35 800	1.7	540	**2KJ3310 - ■ MF33 - ■ ■ K1**	
	82	4 320	18.10	35 600	1.8	540	**2KJ3310 - ■ MF33 - ■ ■ J1**	
	93	3 810	15.94	35 100	2.1	540	**2KJ3310 - ■ MF33 - ■ ■ H1**	
	113	3 120	13.08	34 300	2.4	540	**2KJ3310 - ■ MF33 - ■ ■ G1**	
	129	2 740	11.47	33 600	2.7	540	**2KJ3310 - ■ MF33 - ■ ■ F1**	
	165	2 140	8.97	32 200	3.2	540	**2KJ3310 - ■ MF33 - ■ ■ E1**	
	183	1 930	8.09	31 300	2.9	540	**2KJ3310 - ■ MF33 - ■ ■ D1**	
	223	1 580	6.64	30 100	3.6	540	**2KJ3310 - ■ MF33 - ■ ■ C1**	
	254	1 390	5.82	29 300	4.1	540	**2KJ3310 - ■ MF33 - ■ ■ B1**	
	FZ.129-LES225SD4P							
	64	5 550	23.23	23 600	0.87	451	**2KJ3308 - ■ MF33 - ■ ■ N1**	
	72	4 920	20.60	24 000	0.98	451	**2KJ3308 - ■ MF33 - ■ ■ M1**	
	81	4 340	18.18	24 200	1.1	451	**2KJ3308 - ■ MF33 - ■ ■ L1**	
	92	3 820	15.99	24 300	1.3	451	**2KJ3308 - ■ MF33 - ■ ■ K1**	
	102	3 460	14.48	24 300	1.4	451	**2KJ3308 - ■ MF33 - ■ ■ J1**	
	117	3 010	12.61	24 200	1.5	451	**2KJ3308 - ■ MF33 - ■ ■ H1**	
	143	2 470	10.34	23 800	1.7	451	**2KJ3308 - ■ MF33 - ■ ■ G1**	
	151	2 340	9.80	23 100	1.5	451	**2KJ3308 - ■ MF33 - ■ ■ F1**	
	171	2 060	8.65	22 800	1.8	451	**2KJ3308 - ■ MF33 - ■ ■ E1**	
	194	1 810	7.60	22 500	2.0	451	**2KJ3308 - ■ MF33 - ■ ■ D1**	
	215	1 640	6.89	22 200	2.2	451	**2KJ3308 - ■ MF33 - ■ ■ C1**	
	246	1 430	6.00	21 700	2.5	451	**2KJ3308 - ■ MF33 - ■ ■ B1**	
	300	1 170	4.92	21 000	2.6	451	**2KJ3308 - ■ MF33 - ■ ■ A1**	
	FZ.109-LES225SD4P							
	99	3 570	14.95	15 100	0.87	399	**2KJ3307 - ■ MF33 - ■ ■ K1**	
	113	3 110	13.03	15 500	1.0	399	**2KJ3307 - ■ MF33 - ■ ■ J1**	
	124	2 840	11.89	15 700	1.1	399	**2KJ3307 - ■ MF33 - ■ ■ H1**	
	144	2 440	10.23	15 900	1.2	399	**2KJ3307 - ■ MF33 - ■ ■ G1**	
	164	2 150	9.02	15 800	0.97	399	**2KJ3307 - ■ MF33 - ■ ■ F1**	
	186	1 890	7.94	15 800	1.1	399	**2KJ3307 - ■ MF33 - ■ ■ E1**	
	212	1 660	6.96	15 700	1.1	399	**2KJ3307 - ■ MF33 - ■ ■ D1**	
	243	1 450	6.07	15 500	1.2	399	**2KJ3307 - ■ MF33 - ■ ■ C1**	
	267	1 320	5.54	15 400	1.3	399	**2KJ3307 - ■ MF33 - ■ ■ B1**	
	310	1 140	4.77	15 200	1.4	399	**2KJ3307 - ■ MF33 - ■ ■ A1**	
45	**FD.189-LES225YMF4P**							
	19	22 600	77.92	95 700	0.84	946	**2KJ3412 - ■ MT33 - ■ ■ E1**	
	24	18 000	62.11	95 300	1.1	946	**2KJ3412 - ■ MT33 - ■ ■ D1**	
	30	14 300	49.43	93 800	1.3	946	**2KJ3412 - ■ MT33 - ■ ■ C1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 10/44
Frequency and voltage	**2 or 9**	➞ page 11/2
Gearbox mounting type	**A, D, F or H**	➞ page 10/37

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
45	**FD.189-LES225YMF4P**							
	36	11 800	40.61	91 600	1.6	946	**2KJ3412 - ■ MT33 - ■ ■ B1**	
	46	9 390	32.32	88 700	2.0	946	**2KJ3412 - ■ MT33 - ■ ■ A1**	
	FZ.189-LES225YMF4P							
	39	11 000	37.93	90 800	1.7	918	**2KJ3312 - ■ MT33 - ■ ■ L1**	
	43	9 890	34.03	89 400	1.9	918	**2KJ3312 - ■ MT33 - ■ ■ K1**	
	49	8 840	30.41	87 800	2.1	918	**2KJ3312 - ■ MT33 - ■ ■ J1**	
	54	7 900	27.17	86 100	2.4	918	**2KJ3312 - ■ MT33 - ■ ■ H1**	
	59	7 220	24.85	84 700	2.6	918	**2KJ3312 - ■ MT33 - ■ ■ G1**	
	67	6 420	22.09	82 800	3.0	918	**2KJ3312 - ■ MT33 - ■ ■ F1**	
	FD.169-LES225YMF4P							
	29	14 700	50.63	57 800	0.92	734	**2KJ3411 - ■ MT33 - ■ ■ D1**	
	32	13 500	46.55	58 100	1.0	734	**2KJ3411 - ■ MT33 - ■ ■ C1**	
	36	11 800	40.82	58 400	1.1	734	**2KJ3411 - ■ MT33 - ■ ■ B1**	
	46	9 280	31.92	57 700	1.5	734	**2KJ3411 - ■ MT33 - ■ ■ A1**	
	FZ.169-LES225YMF4P							
	45	9 600	33.02	57 800	1.4	719	**2KJ3311 - ■ MT33 - ■ ■ P1**	
	49	8 680	29.86	57 500	1.6	719	**2KJ3311 - ■ MT33 - ■ ■ N1**	
	56	7 660	26.35	56 800	1.8	719	**2KJ3311 - ■ MT33 - ■ ■ M1**	
	63	6 820	23.48	56 100	2.0	719	**2KJ3311 - ■ MT33 - ■ ■ L1**	
	69	6 180	21.27	55 400	2.2	719	**2KJ3311 - ■ MT33 - ■ ■ K1**	
	77	5 560	19.13	54 500	2.4	719	**2KJ3311 - ■ MT33 - ■ ■ J1**	
	93	4 620	15.90	52 900	2.9	719	**2KJ3311 - ■ MT33 - ■ ■ H1**	
	105	4 100	14.13	51 800	3.1	719	**2KJ3311 - ■ MT33 - ■ ■ G1**	
	131	3 270	11.26	49 600	3.6	719	**2KJ3311 - ■ MT33 - ■ ■ F1**	
	165	2 600	8.97	47 300	4.0	719	**2KJ3311 - ■ MT33 - ■ ■ E1**	
	183	2 340	8.07	45 200	3.6	719	**2KJ3311 - ■ MT33 - ■ ■ D1**	
	206	2 080	7.18	44 100	4.0	719	**2KJ3311 - ■ MT33 - ■ ■ C1**	
	FD.149-LES225YMF4P							
	46	9 400	32.33	31 700	0.80	590	**2KJ3410 - ■ MT33 - ■ ■ A1**	
	FZ.149-LES225YMF4P							
	53	8 120	27.94	32 600	0.98	585	**2KJ3310 - ■ MT33 - ■ ■ N1**	
	59	7 240	24.93	33 000	1.1	585	**2KJ3310 - ■ MT33 - ■ ■ M1**	
	67	6 460	22.22	33 200	1.2	585	**2KJ3310 - ■ MT33 - ■ ■ L1**	
	75	5 730	19.71	33 300	1.4	585	**2KJ3310 - ■ MT33 - ■ ■ K1**	
	82	5 260	18.10	33 300	1.5	585	**2KJ3310 - ■ MT33 - ■ ■ J1**	
	93	4 630	15.94	33 100	1.7	585	**2KJ3310 - ■ MT33 - ■ ■ H1**	
	113	3 800	13.08	32 600	2.0	585	**2KJ3310 - ■ MT33 - ■ ■ G1**	
	129	3 330	11.47	32 100	2.2	585	**2KJ3310 - ■ MT33 - ■ ■ F1**	
	165	2 600	8.97	31 100	2.6	585	**2KJ3310 - ■ MT33 - ■ ■ E1**	
	183	2 350	8.09	30 200	2.4	585	**2KJ3310 - ■ MT33 - ■ ■ D1**	
	223	1 930	6.64	29 200	2.9	585	**2KJ3310 - ■ MT33 - ■ ■ C1**	
	254	1 690	5.82	28 500	3.4	585	**2KJ3310 - ■ MT33 - ■ ■ B1**	
	325	1 320	4.55	27 100	4.3	585	**2KJ3310 - ■ MT33 - ■ ■ A1**	
	FZ.129-LES225YMF4P							
	72	5 990	20.60	21 000	0.81	496	**2KJ3308 - ■ MT33 - ■ ■ M1**	
	81	5 280	18.18	21 600	0.92	496	**2KJ3308 - ■ MT33 - ■ ■ L1**	
	92	4 640	15.99	22 000	1.0	496	**2KJ3308 - ■ MT33 - ■ ■ K1**	
	102	4 210	14.48	22 200	1.1	496	**2KJ3308 - ■ MT33 - ■ ■ J1**	
	117	3 660	12.61	22 300	1.2	496	**2KJ3308 - ■ MT33 - ■ ■ H1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 10/44
Frequency and voltage	**2 or 9**	➞ page 11/2
Gearbox mounting type	**A, D, F or H**	➞ page 10/37

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Selection and ordering data (continued)

P_{rated} kW	n_2 rpm	T_2 Nm	i -	F_{R2} N	f_B -	m kg	Article No. (Article No. supplement ➞ below)	Order code No. of poles
45	**FZ.129-LES225YMF4P**							
	143	3 000	10.34	22 300	1.4	496	**2KJ3308 - ■ MT33 - ■ ■ G1**	
	151	2 840	9.80	21 600	1.3	496	**2KJ3308 - ■ MT33 - ■ ■ F1**	
	171	2 510	8.65	21 400	1.4	496	**2KJ3308 - ■ MT33 - ■ ■ E1**	
	194	2 210	7.60	21 300	1.6	496	**2KJ3308 - ■ MT33 - ■ ■ D1**	
	215	2 000	6.89	21 100	1.8	496	**2KJ3308 - ■ MT33 - ■ ■ C1**	
	246	1 740	6.00	20 800	2.1	496	**2KJ3308 - ■ MT33 - ■ ■ B1**	
	300	1 430	4.92	20 200	2.1	496	**2KJ3308 - ■ MT33 - ■ ■ A1**	
	FZ.109-LES225YMF4P							
	113	3 780	13.03	13 300	0.82	444	**2KJ3307 - ■ MT33 - ■ ■ J1**	
	124	3 450	11.89	13 700	0.89	444	**2KJ3307 - ■ MT33 - ■ ■ H1**	
	144	2 970	10.23	14 200	0.97	444	**2KJ3307 - ■ MT33 - ■ ■ G1**	
	164	2 620	9.02	14 200	0.80	444	**2KJ3307 - ■ MT33 - ■ ■ F1**	
	186	2 300	7.94	14 400	0.87	444	**2KJ3307 - ■ MT33 - ■ ■ E1**	
	212	2 020	6.96	14 500	0.94	444	**2KJ3307 - ■ MT33 - ■ ■ D1**	
	243	1 760	6.07	14 500	1.0	444	**2KJ3307 - ■ MT33 - ■ ■ C1**	
	267	1 610	5.54	14 500	1.1	444	**2KJ3307 - ■ MT33 - ■ ■ B1**	
	310	1 380	4.77	14 300	1.2	444	**2KJ3307 - ■ MT33 - ■ ■ A1**	
55	**FD.189-LES250MD4P**							
	24	22 100	62.11	87 700	0.86	1 049	**2KJ3412 - ■ NM33 - ■ ■ D1**	
	30	17 600	49.43	87 700	1.1	1 049	**2KJ3412 - ■ NM33 - ■ ■ C1**	
	36	14 500	40.61	86 700	1.3	1 049	**2KJ3412 - ■ NM33 - ■ ■ B1**	
	45	11 500	32.32	84 800	1.6	1 049	**2KJ3412 - ■ NM33 - ■ ■ A1**	
	FZ.189-LES250MD4P							
	48	10 800	30.41	84 200	1.7	1 021	**2KJ3312 - ■ NM33 - ■ ■ J1**	
	54	9 700	27.17	82 800	2.0	1 021	**2KJ3312 - ■ NM33 - ■ ■ H1**	
	59	8 870	24.85	81 700	2.1	1 021	**2KJ3312 - ■ NM33 - ■ ■ G1**	
	67	7 890	22.09	80 200	2.4	1 021	**2KJ3312 - ■ NM33 - ■ ■ F1**	
	78	6 700	18.75	77 900	2.8	1 021	**2KJ3312 - ■ NM33 - ■ ■ E1**	
	91	5 790	16.21	75 700	3.3	1 021	**2KJ3312 - ■ NM33 - ■ ■ D1**	
	FD.169-LES250MD4P							
	32	16 600	46.55	51 800	0.82	838	**2KJ3411 - ■ NM33 - ■ ■ C1**	
	36	14 500	40.82	52 800	0.93	838	**2KJ3411 - ■ NM33 - ■ ■ B1**	
	46	11 400	31.92	53 400	1.2	838	**2KJ3411 - ■ NM33 - ■ ■ A1**	
	FZ.169-LES250MD4P							
	56	9 410	26.35	53 300	1.4	822	**2KJ3311 - ■ NM33 - ■ ■ M1**	
	63	8 390	23.48	52 900	1.6	822	**2KJ3311 - ■ NM33 - ■ ■ L1**	
	69	7 600	21.27	52 500	1.8	822	**2KJ3311 - ■ NM33 - ■ ■ K1**	
	77	6 830	19.13	52 000	2.0	822	**2KJ3311 - ■ NM33 - ■ ■ J1**	
	92	5 680	15.90	50 800	2.4	822	**2KJ3311 - ■ NM33 - ■ ■ H1**	
	104	5 040	14.13	50 000	2.6	822	**2KJ3311 - ■ NM33 - ■ ■ G1**	
	131	4 020	11.26	48 100	2.9	822	**2KJ3311 - ■ NM33 - ■ ■ F1**	
	164	3 200	8.97	46 100	3.2	822	**2KJ3311 - ■ NM33 - ■ ■ E1**	
	182	2 880	8.07	43 900	2.9	822	**2KJ3311 - ■ NM33 - ■ ■ D1**	
	205	2 560	7.18	42 900	3.2	822	**2KJ3311 - ■ NM33 - ■ ■ C1**	
	257	2 040	5.72	41 000	4.0	822	**2KJ3311 - ■ NM33 - ■ ■ B1**	
	323	1 620	4.55	39 000	4.5	822	**2KJ3311 - ■ NM33 - ■ ■ A1**	
	FZ.149-LES250MD4P							
	66	7 930	22.22	29 600	1.0	687	**2KJ3310 - ■ NM33 - ■ ■ L1**	
	75	7 040	19.71	30 100	1.1	687	**2KJ3310 - ■ NM33 - ■ ■ K1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 10/44
Frequency and voltage	**2 or 9**	➞ page 11/2
Gearbox mounting type	**A, D, F or H**	➞ page 10/37

Selection and ordering data (continued)

P_{rated}	n_2	T_2	i	F_{R2}	f_B	m	Article No.	Order code
kW	rpm	Nm	-	N	-	kg	(Article No. supplement ➞ below)	No. of poles
55	**FZ.149-LES250MD4P**							
	81	6 460	18.10	30 300	1.2	687	**2KJ3310 - ■ NM33 - ■ ■ J1**	
	92	5 690	15.94	30 500	1.4	687	**2KJ3310 - ■ NM33 - ■ ■ H1**	
	112	4 670	13.08	30 500	1.6	687	**2KJ3310 - ■ NM33 - ■ ■ G1**	
	128	4 090	11.47	30 300	1.8	687	**2KJ3310 - ■ NM33 - ■ ■ F1**	
	164	3 200	8.97	29 600	2.1	687	**2KJ3310 - ■ NM33 - ■ ■ E1**	
	182	2 890	8.09	28 800	2.0	687	**2KJ3310 - ■ NM33 - ■ ■ D1**	
	221	2 370	6.64	28 100	2.4	687	**2KJ3310 - ■ NM33 - ■ ■ C1**	
	253	2 080	5.82	27 500	2.7	687	**2KJ3310 - ■ NM33 - ■ ■ B1**	
	323	1 620	4.55	26 400	3.5	687	**2KJ3310 - ■ NM33 - ■ ■ A1**	
	FZ.129-LES250MD4P							
	92	5 710	15.99	19 100	0.84	598	**2KJ3308 - ■ NM33 - ■ ■ K1**	
	102	5 170	14.48	19 600	0.91	598	**2KJ3308 - ■ NM33 - ■ ■ J1**	
	117	4 500	12.61	20 100	1.0	598	**2KJ3308 - ■ NM33 - ■ ■ H1**	
	142	3 690	10.34	20 400	1.2	598	**2KJ3308 - ■ NM33 - ■ ■ G1**	
	170	3 090	8.65	19 700	1.2	598	**2KJ3308 - ■ NM33 - ■ ■ E1**	
	193	2 710	7.60	19 800	1.3	598	**2KJ3308 - ■ NM33 - ■ ■ D1**	
	213	2 460	6.89	19 700	1.5	598	**2KJ3308 - ■ NM33 - ■ ■ C1**	
	245	2 140	6.00	19 600	1.7	598	**2KJ3308 - ■ NM33 - ■ ■ B1**	
	299	1 750	4.92	19 300	1.7	598	**2KJ3308 - ■ NM33 - ■ ■ A1**	

Article No. supplement		
Shaft design	**1, 5 or 9**	➞ page 10/44
Frequency and voltage	**2 or 9**	➞ page 11/2
Gearbox mounting type	**A, D, F or H**	➞ page 10/37

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Selection and ordering data

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
FD.29																			
298.58	4.9	150	5 220	7.9	0.02	94054/315	✓	✓											**2KJ3401 - ■■■■■ - ■■ Q1**
264.39	5.5	150	5 220	8.0	0.03	92537/350	✓	✓	✓	✓									**2KJ3401 - ■■■■■ - ■■ P1**
229.72	6.3	150	5 220	8.0	0.04	80401/350	✓	✓	✓	✓									**2KJ3401 - ■■■■■ - ■■ N1**
208.83	6.9	150	5 220	8.0	0.05	80401/385	✓	✓	✓	✓									**2KJ3401 - ■■■■■ - ■■ M1**
177.71	8.2	150	5 220	8.0	0.06	62197/350	✓	✓	✓	✓									**2KJ3401 - ■■■■■ - ■■ L1**
161.55	9	150	5 220	8.0	0.08	62197/385	✓	✓	✓	✓									**2KJ3401 - ■■■■■ - ■■ K1**
140.86	10	150	5 220	8.0	0.09	19721/140	✓	✓	✓	✓	✓								**2KJ3401 - ■■■■■ - ■■ J1**
126.09	11	150	5 220	8.0	0.12	48544/385	✓	✓	✓	✓	✓								**2KJ3401 - ■■■■■ - ■■ H1**
111.97	13	150	5 220	8.0	0.14	47027/420	✓	✓	✓	✓	✓								**2KJ3401 - ■■■■■ - ■■ G1**
103.36	14	150	5 220	8.0	0.17	47027/455	✓	✓	✓	✓	✓								**2KJ3401 - ■■■■■ - ■■ F1**
89.78	16	150	5 220	8.1	0.19	43993/490	✓	✓	✓	✓	✓								**2KJ3401 - ■■■■■ - ■■ E1**
78.02	19	150	5 220	8.0	0.19	13653/175	✓	✓	✓	✓	✓								**2KJ3401 - ■■■■■ - ■■ D1**
70.43	21	150	5 220	8.1	0.25	19721/280	✓	✓	✓	✓	✓								**2KJ3401 - ■■■■■ - ■■ C1**
66.29	22	150	5 220	8.1	0.29	39442/595	✓	✓	✓	✓	✓								**2KJ3401 - ■■■■■ - ■■ B1**
57.79	25	150	5 220	8.1	0.33	6068/105	✓	✓	✓	✓	✓								**2KJ3401 - ■■■■■ - ■■ A1**
FZ.29																			
56.73	26	150	5 220	7.6	0.04	851/15	✓	✓											**2KJ3301 - ■■■■■ - ■■ C2**
50.32	29	150	5 220	8.0	0.05	1258/25	✓	✓	✓	✓									**2KJ3301 - ■■■■■ - ■■ B2**
43.66	33	150	5 220	8.0	0.06	2183/50	✓	✓	✓	✓									**2KJ3301 - ■■■■■ - ■■ A2**
39.69	37	150	5 220	8.0	0.08	2183/55	✓	✓	✓	✓									**2KJ3301 - ■■■■■ - ■■ X1**
34.04	43	150	4 910	8.1	0.10	851/25	✓	✓	✓	✓									**2KJ3301 - ■■■■■ - ■■ W1**
30.95	47	150	4 720	8.1	0.12	1702/55	✓	✓	✓	✓									**2KJ3301 - ■■■■■ - ■■ V1**
27.13	53	150	4 460	8.2	0.14	407/15	✓	✓	✓	✓	✓								**2KJ3301 - ■■■■■ - ■■ U1**
24.22	60	150	4 250	8.3	0.17	1332/55	✓	✓	✓	✓	✓								**2KJ3301 - ■■■■■ - ■■ T1**
21.58	67	150	4 040	8.4	0.20	259/12	✓	✓	✓	✓	✓								**2KJ3301 - ■■■■■ - ■■ S1**
19.92	73	150	3 910	8.4	0.24	259/13	✓	✓	✓	✓	✓								**2KJ3301 - ■■■■■ - ■■ R1**
17.44	83	150	3 680	8.6	0.28	1221/70	✓	✓	✓	✓	✓								**2KJ3301 - ■■■■■ - ■■ Q1**
15.29	95	150	3 470	8.8	0.30	1147/75	✓	✓	✓	✓	✓								**2KJ3301 - ■■■■■ - ■■ P1**
13.88	104	150	3 320	8.9	0.38	111/8	✓	✓	✓	✓	✓								**2KJ3301 - ■■■■■ - ■■ N1**
13.06	111	150	3 230	8.9	0.44	222/17	✓	✓	✓	✓	✓								**2KJ3301 - ■■■■■ - ■■ M1**
11.51	126	143	3 100	8.6	0.50	518/45	✓	✓	✓	✓	✓								**2KJ3301 - ■■■■■ - ■■ L1**
9.99	145	136	2 960	8.8	0.67	999/100	✓	✓	✓	✓	✓								**2KJ3301 - ■■■■■ - ■■ K1**
9.69	150	143	2 660	13.8	0.26	2664/275	✓	✓	✓	✓	✓								**2KJ3301 - ■■■■■ - ■■ J1**
8.63	168	130	2 640	14.0	0.32	259/30	✓	✓	✓	✓	✓								**2KJ3301 - ■■■■■ - ■■ H1**
7.97	182	120	2 630	14.0	0.38	518/65	✓	✓	✓	✓	✓								**2KJ3301 - ■■■■■ - ■■ G1**
6.98	208	123	2 440	14.5	0.46	1221/175	✓	✓	✓	✓	✓								**2KJ3301 - ■■■■■ - ■■ F1**
6.12	237	114	2 370	15.0	0.53	2294/375	✓	✓	✓	✓	✓								**2KJ3301 - ■■■■■ - ■■ E1**
5.55	261	108	2 320	15.3	0.66	111/20	✓	✓	✓	✓	✓								**2KJ3301 - ■■■■■ - ■■ D1**
5.22	278	106	2 300	15.3	0.76	444/85	✓	✓	✓	✓	✓								**2KJ3301 - ■■■■■ - ■■ C1**
4.60	315	97	2 280	15.3	0.92	1036/225	✓	✓	✓	✓	✓								**2KJ3301 - ■■■■■ - ■■ B1**
4.00	362	91	2 250	15.0	1.21	999/250	✓	✓	✓	✓	✓								**2KJ3301 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
FD.39																			
274.26	5.3	290	5 820	6.9	0.04	32637/119	✓	✓											**2KJ3402 - ■■■■■ - ■■ R1**
243.26	6	290	5 820	7.0	0.05	8514/35	✓	✓	✓	✓									**2KJ3402 - ■■■■■ - ■■ Q1**
211.06	6.9	290	5 820	7.0	0.06	251163/1190	✓	✓	✓	✓									**2KJ3402 - ■■■■■ - ■■ P1**
191.87	7.6	290	5 820	7.0	0.07	22833/119	✓	✓	✓	✓									**2KJ3402 - ■■■■■ - ■■ N1**
164.56	8.8	290	5 820	7.0	0.09	97911/595	✓	✓	✓	✓									**2KJ3402 - ■■■■■ - ■■ M1**
149.60	9.7	290	5 820	7.0	0.11	17802/119	✓	✓	✓	✓									**2KJ3402 - ■■■■■ - ■■ L1**
131.17	11	290	5 820	7.0	0.12	15609/119	✓	✓	✓	✓	✓	✓							**2KJ3402 - ■■■■■ - ■■ K1**
117.08	12	290	5 820	7.0	0.15	13932/119	✓	✓	✓	✓	✓	✓							**2KJ3402 - ■■■■■ - ■■ J1**
104.34	14	290	5 820	7.0	0.18	7095/68	✓	✓	✓	✓	✓	✓							**2KJ3402 - ■■■■■ - ■■ H1**
96.31	15	290	5 820	7.0	0.21	21285/221	✓	✓	✓	✓	✓	✓							**2KJ3402 - ■■■■■ - ■■ G1**
84.32	17	290	5 820	7.1	0.25	140481/1666	✓	✓	✓	✓	✓	✓							**2KJ3402 - ■■■■■ - ■■ F1**
73.93	20	290	5 820	7.1	0.24	43989/595	✓	✓	✓	✓	✓	✓							**2KJ3402 - ■■■■■ - ■■ E1**
67.07	22	290	5 820	7.2	0.34	63855/952	✓	✓	✓	✓	✓	✓							**2KJ3402 - ■■■■■ - ■■ D1**
63.13	23	290	5 820	7.2	0.40	127710/2023	✓	✓	✓	✓	✓	✓							**2KJ3402 - ■■■■■ - ■■ C1**
55.65	26	290	5 820	7.2	0.44	946/17	✓	✓	✓	✓	✓	✓							**2KJ3402 - ■■■■■ - ■■ B1**
48.29	30	290	5 820	7.2	0.59	114939/2380	✓	✓	✓	✓	✓	✓							**2KJ3402 - ■■■■■ - ■■ A1**
FZ.39																			
65.21	22	290	6 040	6.3	0.06	913/14	✓	✓											**2KJ3302 - ■■■■■ - ■■ B2**
57.99	25	230	6 000	6.6	0.08	4059/70	✓	✓	✓	✓									**2KJ3302 - ■■■■■ - ■■ A2**
50.91	28	240	5 950	6.6	0.09	1782/35	✓	✓	✓	✓									**2KJ3302 - ■■■■■ - ■■ X1**
46.29	31	255	5 820	6.6	0.11	324/7	✓	✓	✓	✓									**2KJ3302 - ■■■■■ - ■■ W1**
39.60	37	290	5 950	6.7	0.13	198/5	✓	✓	✓	✓									**2KJ3302 - ■■■■■ - ■■ V1**
36.00	40	255	5 480	6.7	0.16	36/1	✓	✓	✓	✓									**2KJ3302 - ■■■■■ - ■■ U1**
31.82	46	285	5 320	6.8	0.19	891/28	✓	✓	✓	✓	✓	✓							**2KJ3302 - ■■■■■ - ■■ T1**
28.93	50	275	5 080	6.8	0.26	405/14	✓	✓	✓	✓	✓	✓							**2KJ3302 - ■■■■■ - ■■ S1**
25.34	57	265	4 930	6.9	0.30	1419/56	✓	✓	✓	✓	✓	✓							**2KJ3302 - ■■■■■ - ■■ R1**
23.39	62	260	4 730	6.9	0.36	4257/182	✓	✓	✓	✓	✓	✓							**2KJ3302 - ■■■■■ - ■■ Q1**
20.71	70	250	4 730	7.0	0.42	4059/196	✓	✓	✓	✓	✓	✓							**2KJ3302 - ■■■■■ - ■■ P1**
17.24	84	235	4 450	7.2	0.57	3861/224	✓	✓	✓	✓	✓	✓							**2KJ3302 - ■■■■■ - ■■ N1**
16.22	89	230	4 360	7.2	0.66	3861/238	✓	✓	✓	✓	✓	✓							**2KJ3302 - ■■■■■ - ■■ M1**
14.54	100	220	4 220	7.3	0.74	407/28	✓	✓	✓	✓	✓	✓							**2KJ3302 - ■■■■■ - ■■ L1**
12.38	117	210	3 990	7.5	0.97	99/8	✓	✓	✓	✓	✓	✓							**2KJ3302 - ■■■■■ - ■■ K1**
10.61	137	199	3 790	7.7	1.28	297/28			✓	✓	✓	✓							**2KJ3302 - ■■■■■ - ■■ J1**
9.13	159	189	3 610	7.9	1.65	1023/112			✓	✓	✓	✓							**2KJ3302 - ■■■■■ - ■■ H1**
8.10	179	167	3 430	12.1	0.70	3403/420	✓	✓	✓	✓	✓	✓							**2KJ3302 - ■■■■■ - ■■ G1**
6.74	215	152	3 270	12.5	0.96	1079/160	✓	✓	✓	✓	✓	✓							**2KJ3302 - ■■■■■ - ■■ F1**
6.35	228	149	3 200	12.5	1.11	1079/170	✓	✓	✓	✓	✓	✓							**2KJ3302 - ■■■■■ - ■■ E1**
5.69	255	140	3 120	12.9	1.29	3071/540	✓	✓	✓	✓	✓	✓							**2KJ3302 - ■■■■■ - ■■ D1**
4.84	300	128	3 000	13.4	1.73	581/120	✓	✓	✓	✓	✓	✓							**2KJ3302 - ■■■■■ - ■■ C1**
4.15	349	118	2 950	13.9	2.30	83/20			✓	✓	✓	✓							**2KJ3302 - ■■■■■ - ■■ B1**
3.57	406	108	2 890	14.5	3.00	2573/720			✓	✓	✓	✓							**2KJ3302 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

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Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
FD.49																			
330.98	4.4	480	7 960	6.2	0.06	26809/81	✓	✓											2KJ3403 - ■■■■■ - ■■ S1
294.29	4.9	480	7 960	6.3	0.07	13243/45	✓	✓	✓	✓									2KJ3403 - ■■■■■ - ■■ R1
258.40	5.6	480	7 960	6.3	0.08	1292/5	✓	✓	✓	✓									2KJ3403 - ■■■■■ - ■■ Q1
234.91	6.2	480	7 960	6.3	0.10	2584/11	✓	✓	✓	✓									2KJ3403 - ■■■■■ - ■■ P1
200.98	7.2	480	7 960	6.3	0.12	9044/45	✓	✓	✓	✓									2KJ3403 - ■■■■■ - ■■ N1
182.71	7.9	480	7 960	6.3	0.14	18088/99	✓	✓	✓	✓									2KJ3403 - ■■■■■ - ■■ M1
161.50	9	480	7 960	6.3	0.17	323/2	✓	✓	✓	✓	✓	✓							2KJ3403 - ■■■■■ - ■■ L1
146.82	9.9	480	7 960	6.3	0.22	1615/11	✓	✓	✓	✓	✓	✓							2KJ3403 - ■■■■■ - ■■ K1
128.60	11	480	7 960	6.3	0.26	13889/108	✓	✓	✓	✓	✓	✓							2KJ3403 - ■■■■■ - ■■ J1
118.71	12	480	7 960	6.3	0.31	13889/117	✓	✓	✓	✓	✓	✓							2KJ3403 - ■■■■■ - ■■ H1
105.10	14	480	7 960	6.4	0.37	13243/126	✓	✓	✓	✓	✓	✓	✓						2KJ3403 - ■■■■■ - ■■ G1
87.48	17	480	7 960	6.4	0.50	4199/48	✓	✓	✓	✓	✓	✓	✓						2KJ3403 - ■■■■■ - ■■ F1
82.33	18	480	7 960	6.4	0.59	247/3	✓	✓	✓	✓	✓	✓	✓						2KJ3403 - ■■■■■ - ■■ E1
73.77	20	480	7 630	6.4	0.66	11951/162	✓	✓	✓	✓	✓	✓	✓						2KJ3403 - ■■■■■ - ■■ D1
62.81	23	480	7 070	6.4	0.86	2261/36	✓	✓	✓	✓	✓	✓	✓						2KJ3403 - ■■■■■ - ■■ C1
53.83	27	480	6 560	6.5	1.13	323/6			✓	✓	✓	✓	✓						2KJ3403 - ■■■■■ - ■■ B1
46.36	31	480	6 080	6.5	1.46	10013/216			✓	✓	✓	✓	✓						2KJ3403 - ■■■■■ - ■■ A1
FZ.49																			
61.43	24	480	6 990	6.0	0.18	1843/30	✓	✓	✓	✓									2KJ3303 - ■■■■■ - ■■ X1
55.85	26	480	6 680	6.0	0.22	1843/33	✓	✓	✓	✓									2KJ3303 - ■■■■■ - ■■ W1
47.50	31	480	6 160	6.0	0.27	95/2	✓	✓	✓	✓									2KJ3303 - ■■■■■ - ■■ V1
43.18	34	480	5 870	6.0	0.33	475/11	✓	✓	✓	✓									2KJ3303 - ■■■■■ - ■■ U1
38.53	38	480	5 530	6.1	0.39	1387/36	✓	✓	✓	✓	✓	✓							2KJ3303 - ■■■■■ - ■■ T1
34.55	42	480	5 220	6.1	0.47	380/11	✓	✓	✓	✓	✓	✓							2KJ3303 - ■■■■■ - ■■ S1
31.14	47	480	4 940	6.2	0.55	1121/36	✓	✓	✓	✓	✓	✓							2KJ3303 - ■■■■■ - ■■ R1
28.74	50	480	4 730	6.1	0.65	1121/39	✓	✓	✓	✓	✓	✓							2KJ3303 - ■■■■■ - ■■ Q1
26.24	55	480	4 490	6.2	0.77	551/21	✓	✓	✓	✓	✓	✓	✓						2KJ3303 - ■■■■■ - ■■ P1
21.77	67	480	4 030	6.3	0.99	1045/48	✓	✓	✓	✓	✓	✓	✓						2KJ3303 - ■■■■■ - ■■ N1
20.49	71	480	3 890	6.3	1.15	1045/51	✓	✓	✓	✓	✓	✓	✓						2KJ3303 - ■■■■■ - ■■ M1
19.35	75	480	3 750	6.3	1.30	1045/54	✓	✓	✓	✓	✓	✓	✓						2KJ3303 - ■■■■■ - ■■ L1
16.47	88	480	3 390	6.4	1.61	247/15	✓	✓	✓	✓	✓	✓	✓						2KJ3303 - ■■■■■ - ■■ K1
14.11	103	480	3 060	6.6	1.99	931/66			✓	✓	✓	✓	✓						2KJ3303 - ■■■■■ - ■■ J1
12.40	117	480	3 010	6.7	2.50	893/72			✓	✓	✓	✓	✓						2KJ3303 - ■■■■■ - ■■ H1
10.46	139	480	3 140	6.8	3.10	722/69			✓	✓	✓	✓	✓						2KJ3303 - ■■■■■ - ■■ G1
9.12	159	480	3 210	7.4	4.20	228/25			✓	✓	✓	✓	✓						2KJ3303 - ■■■■■ - ■■ F1
8.40	173	450	3 010	9.3	2.20	42/5	✓	✓	✓	✓	✓	✓	✓						2KJ3303 - ■■■■■ - ■■ E1
7.20	201	450	3 070	9.6	2.80	1029/143			✓	✓	✓	✓	✓						2KJ3303 - ■■■■■ - ■■ D1
6.33	229	430	3 090	9.9	3.50	329/52			✓	✓	✓	✓	✓						2KJ3303 - ■■■■■ - ■■ C1
5.34	272	400	3 080	10.2	4.60	1596/299			✓	✓	✓	✓	✓						2KJ3303 - ■■■■■ - ■■ B1
4.65	312	375	3 060	11.3	6.10	1512/325			✓	✓	✓	✓	✓						2KJ3303 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
FD.69																			
348.40	4.2	600	10 800	6.0	0.06	28220/81	✓	✓											**2KJ3404 - ■■■■■ - ■■ S1**
309.78	4.7	600	10 800	6.0	0.07	2788/9	✓	✓	✓	✓									**2KJ3404 - ■■■■■ - ■■ R1**
272.00	5.3	600	10 800	6.0	0.08	272/1	✓	✓	✓	✓									**2KJ3404 - ■■■■■ - ■■ Q1**
247.27	5.9	600	10 800	6.0	0.10	2720/11	✓	✓	✓	✓									**2KJ3404 - ■■■■■ - ■■ P1**
211.56	6.9	600	10 800	6.0	0.12	1904/9	✓	✓	✓	✓									**2KJ3404 - ■■■■■ - ■■ N1**
192.32	7.5	600	10 800	6.0	0.14	19040/99	✓	✓	✓	✓									**2KJ3404 - ■■■■■ - ■■ M1**
170.00	8.5	600	10 800	6.1	0.17	170/1	✓	✓	✓	✓	✓	✓							**2KJ3404 - ■■■■■ - ■■ L1**
154.55	9.4	600	10800	6.1	0.22	1700/11	✓	✓	✓	✓	✓	✓							**2KJ3404 - ■■■■■ - ■■ K1**
135.37	11	600	10 800	6.1	0.26	3655/27	✓	✓	✓	✓	✓	✓							**2KJ3404 - ■■■■■ - ■■ J1**
124.96	12	600	10 800	6.1	0.31	14620/117	✓	✓	✓	✓	✓	✓							**2KJ3404 - ■■■■■ - ■■ H1**
110.63	13	600	10 800	6.1	0.38	6970/63	✓	✓	✓	✓	✓	✓	✓						**2KJ3404 - ■■■■■ - ■■ G1**
92.08	16	600	10 800	6.1	0.51	1105/12	✓	✓	✓	✓	✓	✓	✓						**2KJ3404 - ■■■■■ - ■■ F1**
86.67	17	600	10 800	6.1	0.60	260/3	✓	✓	✓	✓	✓	✓	✓						**2KJ3404 - ■■■■■ - ■■ E1**
77.65	19	600	10 400	6.2	0.66	6290/81	✓	✓	✓	✓	✓	✓	✓						**2KJ3404 - ■■■■■ - ■■ D1**
66.11	22	600	9 720	6.2	0.87	595/9	✓	✓	✓	✓	✓	✓	✓						**2KJ3404 - ■■■■■ - ■■ C1**
56.67	26	600	9 050	6.2	1.15	170/3			✓	✓	✓	✓	✓						**2KJ3404 - ■■■■■ - ■■ B1**
48.80	30	600	8 430	6.2	1.47	2635/54			✓	✓	✓	✓	✓						**2KJ3404 - ■■■■■ - ■■ A1**
FZ.69																			
64.67	22	600	9 620	5.7	0.19	194/3	✓	✓	✓	✓									**2KJ3304 - ■■■■■ - ■■ X1**
58.79	25	600	9 210	5.7	0.23	1940/33	✓	✓	✓	✓									**2KJ3304 - ■■■■■ - ■■ W1**
50.00	29	600	8 530	5.8	0.29	50/1	✓	✓	✓	✓									**2KJ3304 - ■■■■■ - ■■ V1**
45.45	32	600	8 140	5.8	0.35	500/11	✓	✓	✓	✓									**2KJ3304 - ■■■■■ - ■■ U1**
40.56	36	600	7 700	5.8	0.41	365/9	✓	✓	✓	✓	✓	✓							**2KJ3304 - ■■■■■ - ■■ T1**
36.36	40	600	7 290	5.9	0.49	400/11	✓	✓	✓	✓	✓	✓							**2KJ3304 - ■■■■■ - ■■ S1**
32.78	44	600	6 920	5.9	0.58	295/9	✓	✓	✓	✓	✓	✓							**2KJ3304 - ■■■■■ - ■■ R1**
30.26	48	600	6 640	5.9	0.69	1180/39	✓	✓	✓	✓	✓	✓							**2KJ3304 - ■■■■■ - ■■ Q1**
27.62	52	600	6 330	5.9	0.83	580/21	✓	✓	✓	✓	✓	✓	✓						**2KJ3304 - ■■■■■ - ■■ P1**
22.92	63	600	5 720	6.0	1.07	275/12	✓	✓	✓	✓	✓	✓	✓						**2KJ3304 - ■■■■■ - ■■ N1**
21.57	67	600	5 540	6.0	1.23	1100/51	✓	✓	✓	✓	✓	✓	✓						**2KJ3304 - ■■■■■ - ■■ M1**
20.37	71	600	5 360	6.0	1.39	550/27	✓	✓	✓	✓	✓	✓	✓						**2KJ3304 - ■■■■■ - ■■ L1**
17.33	84	600	4 890	6.2	1.74	52/3	✓	✓	✓	✓	✓	✓	✓						**2KJ3304 - ■■■■■ - ■■ K1**
14.85	98	600	4 450	6.2	2.20	490/33			✓	✓	✓	✓	✓						**2KJ3304 - ■■■■■ - ■■ J1**
13.06	111	600	4 110	6.2	2.70	235/18			✓	✓	✓	✓	✓						**2KJ3304 - ■■■■■ - ■■ H1**
11.01	132	600	4 040	6.2	3.50	760/69			✓	✓	✓	✓	✓						**2KJ3304 - ■■■■■ - ■■ G1**
9.60	151	600	4 140	6.2	4.60	48/5			✓	✓	✓	✓	✓						**2KJ3304 - ■■■■■ - ■■ F1**
8.90	163	475	4 040	8.9	2.40	89/10	✓	✓	✓	✓	✓	✓	✓						**2KJ3304 - ■■■■■ - ■■ E1**
7.62	190	465	4 100	8.9	3.10	4361/572			✓	✓	✓	✓	✓						**2KJ3304 - ■■■■■ - ■■ D1**
6.70	216	440	4 120	8.9	3.90	4183/624			✓	✓	✓	✓	✓						**2KJ3304 - ■■■■■ - ■■ C1**
5.66	256	410	4 110	8.9	5.10	1691/299			✓	✓	✓	✓	✓						**2KJ3304 - ■■■■■ - ■■ B1**
4.93	294	385	4 070	8.9	6.80	1602/325			✓	✓	✓	✓	✓						**2KJ3304 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

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Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
FD.79																			
357.00	4.1	1 000	13 600	5.6	0.17	57133/160		✓	✓	✓									2KJ3405 - ■■■■■ - ■■ S1
324.62	4.5	1 000	13 600	5.6	0.20	57133/176		✓	✓	✓									2KJ3405 - ■■■■■ - ■■ R1
276.09	5.3	1 000	13 600	5.6	0.25	8835/32		✓	✓	✓									2KJ3405 - ■■■■■ - ■■ Q1
250.99	5.8	1 000	13 600	5.6	0.30	44175/176		✓	✓	✓									2KJ3405 - ■■■■■ - ■■ P1
223.94	6.5	1 000	13 600	5.6	0.35	42997/192		✓	✓	✓	✓	✓							2KJ3405 - ■■■■■ - ■■ N1
200.80	7.2	1 000	13 600	5.6	0.42	8835/44		✓	✓	✓	✓	✓							2KJ3405 - ■■■■■ - ■■ M1
180.99	8	1 000	13 600	5.6	0.49	34751/192		✓	✓	✓	✓	✓							2KJ3405 - ■■■■■ - ■■ L1
167.07	8.7	1 000	13 600	5.6	0.58	34751/208		✓	✓	✓	✓	✓							2KJ3405 - ■■■■■ - ■■ K1
152.51	9.5	1 000	13 600	5.6	0.69	17081/112		✓	✓	✓	✓	✓	✓	✓					2KJ3405 - ■■■■■ - ■■ J1
126.54	11	1 000	13 600	5.7	0.87	32395/256		✓	✓	✓	✓	✓	✓	✓					2KJ3405 - ■■■■■ - ■■ H1
119.10	12	1 000	13 600	5.7	1.01	32395/272		✓	✓	✓	✓	✓	✓	✓					2KJ3405 - ■■■■■ - ■■ G1
112.48	13	1 000	13 600	5.7	1.15	32395/288		✓	✓	✓	✓	✓	✓	✓					2KJ3405 - ■■■■■ - ■■ F1
95.71	15	1 000	13 600	5.7	1.39	7657/80		✓	✓	✓	✓	✓	✓	✓					2KJ3405 - ■■■■■ - ■■ E1
81.99	18	1 000	13 600	5.7	1.70	28861/352			✓	✓	✓	✓	✓	✓					2KJ3405 - ■■■■■ - ■■ D1
72.09	20	1 000	13 600	5.7	2.10	27683/384			✓	✓	✓	✓	✓	✓					2KJ3405 - ■■■■■ - ■■ C1
60.82	24	1 000	13 600	5.7	2.60	11191/184			✓	✓	✓	✓	✓	✓					2KJ3405 - ■■■■■ - ■■ B1
53.01	27	1 000	13 600	5.8	3.50	5301/100			✓	✓	✓	✓	✓	✓					2KJ3405 - ■■■■■ - ■■ A1
FZ.79																			
53.55	27	1 000	13 600	5.6	0.56	589/11		✓	✓	✓									2KJ3305 - ■■■■■ - ■■ X1
48.03	30	1 000	13 600	5.6	0.77	1729/36		✓	✓	✓	✓	✓							2KJ3305 - ■■■■■ - ■■ W1
43.18	34	1 000	13 600	5.7	0.87	475/11		✓	✓	✓	✓	✓							2KJ3305 - ■■■■■ - ■■ V1
39.06	37	1 000	13 600	5.7	0.97	703/18		✓	✓	✓	✓	✓							2KJ3305 - ■■■■■ - ■■ U1
36.05	40	1 000	13 600	5.7	1.15	1406/39		✓	✓	✓	✓	✓							2KJ3305 - ■■■■■ - ■■ T1
33.02	44	1 000	13 600	5.7	1.49	1387/42		✓	✓	✓	✓	✓	✓	✓					2KJ3305 - ■■■■■ - ■■ S1
27.71	52	1 000	13 600	5.7	1.62	665/24		✓	✓	✓	✓	✓	✓	✓					2KJ3305 - ■■■■■ - ■■ R1
26.08	56	1 000	13 600	5.7	1.85	1330/51		✓	✓	✓	✓	✓	✓	✓					2KJ3305 - ■■■■■ - ■■ Q1
23.93	61	1 000	13 600	5.7	2.0	646/27		✓	✓	✓	✓	✓	✓	✓					2KJ3305 - ■■■■■ - ■■ P1
20.90	69	1 000	13 600	5.7	2.9	209/10		✓	✓	✓	✓	✓	✓	✓					2KJ3305 - ■■■■■ - ■■ N1
18.71	77	1 000	12 900	5.7	3.6	1235/66			✓	✓	✓	✓	✓	✓					2KJ3305 - ■■■■■ - ■■ M1
16.36	89	1 000	12 200	5.7	4.2	589/36			✓	✓	✓	✓	✓	✓					2KJ3305 - ■■■■■ - ■■ L1
14.04	103	1 000	11 400	5.8	4.7	323/23			✓	✓	✓	✓	✓	✓					2KJ3305 - ■■■■■ - ■■ K1
12.41	117	1 000	10 800	6.2	6.0	931/75			✓	✓	✓	✓	✓	✓					2KJ3305 - ■■■■■ - ■■ J1
10.56	137	1 000	10 100	6.3	7.8	95/9					✓	✓	✓	✓					2KJ3305 - ■■■■■ - ■■ H1
9.05	160	1 000	9 980	6.5	10	190/21					✓	✓	✓	✓					2KJ3305 - ■■■■■ - ■■ G1
8.51	170	720	10 300	8.9	4.6	468/55			✓	✓	✓	✓	✓	✓					2KJ3305 - ■■■■■ - ■■ F1
7.44	195	725	9 770	9.2	5.5	186/25			✓	✓	✓	✓	✓	✓					2KJ3305 - ■■■■■ - ■■ E1
6.39	227	720	9 690	9.3	6.5	3672/575			✓	✓	✓	✓	✓	✓					2KJ3305 - ■■■■■ - ■■ D1
5.64	257	700	9 620	10.2	8.3	3528/625			✓	✓	✓	✓	✓	✓					2KJ3305 - ■■■■■ - ■■ C1
4.80	302	650	9 480	10.6	11	24/5					✓	✓	✓	✓					2KJ3305 - ■■■■■ - ■■ B1
4.11	353	605	9 310	11.0	15	144/35					✓	✓	✓	✓					2KJ3305 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	'	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
FD.89																			
335.30	4.3	1 850	17 400	5.1	0.42	370512/1105			✓	✓	✓	✓							2KJ3406 - ■■■■■ - ■■ S1
304.82	4.8	1 850	17 400	5.1	0.51	741024/2431			✓	✓	✓	✓							2KJ3406 - ■■■■■ - ■■ R1
273.41	5.3	1 850	17 400	5.1	0.71	4648/17			✓	✓	✓	✓							2KJ3406 - ■■■■■ - ■■ Q1
245.82	5.9	1 850	17 400	5.1	0.79	597600/2431			✓	✓	✓	✓							2KJ3406 - ■■■■■ - ■■ P1
222.33	6.5	1 850	17 400	5.1	0.88	49136/221			✓	✓	✓	✓							2KJ3406 - ■■■■■ - ■■ N1
205.23	7.1	1 850	17 400	5.1	1.03	589632/2873			✓	✓	✓	✓							2KJ3406 - ■■■■■ - ■■ M1
188.00	7.7	1 850	17 400	5.1	1.35	290832/1547			✓	✓	✓	✓	✓	✓					2KJ3406 - ■■■■■ - ■■ L1
157.74	9.2	1 850	17 400	5.1	1.43	34860/221			✓	✓	✓	✓	✓	✓					2KJ3406 - ■■■■■ - ■■ K1
148.46	9.8	1 850	17 400	5.1	1.64	557760/3757			✓	✓	✓	✓	✓	✓					2KJ3406 - ■■■■■ - ■■ J1
136.21	11	1 850	17 400	5.1	1.79	5312/39			✓	✓	✓	✓	✓	✓					2KJ3406 - ■■■■■ - ■■ H1
118.98	12	1 850	17 400	5.1	2.6	131472/1105			✓	✓	✓	✓	✓	✓					2KJ3406 - ■■■■■ - ■■ G1
106.52	14	1 850	17 400	5.1	3.1	19920/187			✓	✓	✓	✓	✓	✓					2KJ3406 - ■■■■■ - ■■ F1
93.14	16	1 850	17 400	5.1	3.7	20584/221			✓	✓	✓	✓	✓	✓					2KJ3406 - ■■■■■ - ■■ E1
79.95	18	1 850	17 400	5.2	4.0	23904/299			✓	✓	✓	✓	✓	✓					2KJ3406 - ■■■■■ - ■■ D1
70.67	21	1 850	17 400	5.2	5.1	390432/5525			✓	✓	✓	✓	✓	✓					2KJ3406 - ■■■■■ - ■■ C1
60.09	24	1 850	17 400	5.3	6.5	13280/221					✓	✓	✓	✓					2KJ3406 - ■■■■■ - ■■ B1
51.51	28	1 850	17 400	5.3	8.5	79680/1547					✓	✓	✓	✓					2KJ3406 - ■■■■■ - ■■ A1
FZ.89																			
61.72	23	1 850	17 400	4.8	1.38	2407/39			✓	✓	✓	✓							2KJ3306 - ■■■■■ - ■■ B2
55.72	26	1 850	17 400	4.8	1.51	7968/143			✓	✓	✓	✓							2KJ3306 - ■■■■■ - ■■ A2
50.54	29	1 850	17 400	4.8	1.77	7885/156			✓	✓	✓	✓							2KJ3306 - ■■■■■ - ■■ X1
46.66	31	1 850	17 400	4.8	2.1	7885/169			✓	✓	✓	✓							2KJ3306 - ■■■■■ - ■■ W1
42.41	34	1 850	17 400	4.9	2.4	7719/182			✓	✓	✓	✓	✓	✓					2KJ3306 - ■■■■■ - ■■ V1
35.91	40	1 850	17 400	4.9	2.9	3735/104			✓	✓	✓	✓	✓	✓					2KJ3306 - ■■■■■ - ■■ U1
33.80	43	1 850	17 400	4.9	3.0	7470/221			✓	✓	✓	✓	✓	✓					2KJ3306 - ■■■■■ - ■■ T1
31.21	46	1 850	17 400	5.0	4.5	3652/117			✓	✓	✓	✓	✓	✓					2KJ3306 - ■■■■■ - ■■ S1
27.77	52	1 850	17 400	5.0	5.5	7221/260			✓	✓	✓	✓	✓	✓					2KJ3306 - ■■■■■ - ■■ R1
24.67	59	1 850	17 400	5.0	6.7	7055/286			✓	✓	✓	✓	✓	✓					2KJ3306 - ■■■■■ - ■■ Q1
22.08	66	1 850	17 400	5.1	6.7	6889/312			✓	✓	✓	✓	✓	✓					2KJ3306 - ■■■■■ - ■■ P1
18.88	77	1 850	17 200	5.1	7.9	5644/299			✓	✓	✓	✓	✓	✓					2KJ3306 - ■■■■■ - ■■ N1
16.86	86	1 850	16 400	5.4	10	5478/325			✓	✓	✓	✓	✓	✓	✓				2KJ3306 - ■■■■■ - ■■ M1
14.90	97	1 850	15 500	5.5	12	581/39					✓	✓	✓	✓	✓				2KJ3306 - ■■■■■ - ■■ L1
13.07	111	1 850	14 600	5.3	16	3569/273					✓	✓	✓	✓	✓				2KJ3306 - ■■■■■ - ■■ K1
11.38	127	1 850	14 600	5.3	20	3403/299					✓	✓	✓	✓	✓				2KJ3306 - ■■■■■ - ■■ J1
9.73	149	1 850	14 600	5.5	26	2656/273					✓	✓	✓	✓	✓				2KJ3306 - ■■■■■ - ■■ H1
8.33	174	1 740	14 500	5.6	33	2490/299					✓	✓	✓	✓	✓				2KJ3306 - ■■■■■ - ■■ G1
7.60	191	1 100	14 100	9.0	14	4752/625			✓	✓	✓	✓	✓	✓	✓				2KJ3306 - ■■■■■ - ■■ F1
6.72	216	1 110	14 000	9.2	17	168/25					✓	✓	✓	✓	✓				2KJ3306 - ■■■■■ - ■■ E1
5.90	246	1 110	13 800	9.2	23	1032/175					✓	✓	✓	✓	✓				2KJ3306 - ■■■■■ - ■■ D1
5.13	283	1 110	13 600	9.2	28	2952/575					✓	✓	✓	✓	✓				2KJ3306 - ■■■■■ - ■■ C1
4.39	330	1 060	13 300	9.2	39	768/175					✓	✓	✓	✓	✓				2KJ3306 - ■■■■■ - ■■ B1
3.76	386	985	12 900	9.5	50	432/115					✓	✓	✓	✓	✓				2KJ3306 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

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Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
FD.109																			
410.00	3.5	3 100	25 000	6.5	1.27	332021/810				✓	✓	✓							2KJ3407 - ■■■■■ - ■■ T1
370.00	3.9	3 100	25 000	6.5	1.37	183184/495				✓	✓	✓							2KJ3407 - ■■■■■ - ■■ S1
335.70	4.3	3 100	25 000	6.5	1.61	217531/648				✓	✓	✓							2KJ3407 - ■■■■■ - ■■ R1
309.87	4.7	3 100	25 000	6.5	1.89	217531/702				✓	✓	✓							2KJ3407 - ■■■■■ - ■■ Q1
281.68	5.1	3 100	25 000	6.5	2.2	354919/1260				✓	✓	✓	✓	✓					2KJ3407 - ■■■■■ - ■■ P1
238.52	6.1	3 100	25 000	6.5	2.6	11449/48				✓	✓	✓	✓	✓					2KJ3407 - ■■■■■ - ■■ N1
224.49	6.5	3 100	25 000	6.5	2.6	11449/51				✓	✓	✓	✓	✓					2KJ3407 - ■■■■■ - ■■ M1
207.31	7	3 100	25 000	6.5	4.0	251878/1215				✓	✓	✓	✓	✓					2KJ3407 - ■■■■■ - ■■ L1
184.46	7.9	3 100	25 000	6.5	5.0	332021/1800				✓	✓	✓	✓	✓					2KJ3407 - ■■■■■ - ■■ K1
163.83	8.9	3 100	25 000	6.5	5.9	194633/1188				✓	✓	✓	✓	✓					2KJ3407 - ■■■■■ - ■■ J1
146.65	9.9	3 100	25 000	6.5	5.9	950267/6480				✓	✓	✓	✓	✓					2KJ3407 - ■■■■■ - ■■ H1
125.37	12	3 100	25 000	6.5	6.7	389266/3105				✓	✓	✓	✓	✓					2KJ3407 - ■■■■■ - ■■ G1
111.95	13	3 100	25 000	6.5	8.6	125939/1125				✓	✓	✓	✓	✓					2KJ3407 - ■■■■■ - ■■ F1
98.94	15	3 100	25 000	6.5	9.6	80143/810					✓	✓	✓	✓					2KJ3407 - ■■■■■ - ■■ E1
86.83	17	3 100	25 000	6.5	14	492307/5670					✓	✓	✓	✓					2KJ3407 - ■■■■■ - ■■ D1
75.59	19	3 100	25 000	6.5	16	469409/6210					✓	✓	✓	✓					2KJ3407 - ■■■■■ - ■■ C1
64.62	22	3 100	25 000	6.5	21	183184/2835					✓	✓	✓	✓					2KJ3407 - ■■■■■ - ■■ B1
55.31	26	3 100	25 000	6.5	25	11449/207					✓	✓	✓	✓					2KJ3407 - ■■■■■ - ■■ A1
FZ.109																			
70.74	20	3 100	25 000	4.6	3.6	12733/180				✓	✓	✓							2KJ3307 - ■■■■■ - ■■ B2
65.30	22	3 100	25 000	4.6	4.3	12733/195				✓	✓	✓							2KJ3307 - ■■■■■ - ■■ A2
60.12	24	3 100	25 000	4.6	4.9	6313/105				✓	✓	✓	✓	✓					2KJ3307 - ■■■■■ - ■■ X1
51.27	28	3 100	25 000	4.6	6.3	2461/48				✓	✓	✓	✓	✓					2KJ3307 - ■■■■■ - ■■ W1
48.25	30	3 100	25 000	4.6	7.1	2461/51				✓	✓	✓	✓	✓					2KJ3307 - ■■■■■ - ■■ V1
44.78	32	3 100	25 000	4.6	7.8	12091/270				✓	✓	✓	✓	✓					2KJ3307 - ■■■■■ - ■■ U1
39.59	37	3 100	25 000	4.6	9.5	3959/100				✓	✓	✓	✓	✓					2KJ3307 - ■■■■■ - ■■ T1
35.34	41	3 100	24 700	4.7	11	11663/330				✓	✓	✓	✓	✓					2KJ3307 - ■■■■■ - ■■ S1
31.80	46	3 100	23 600	4.7	13	11449/360				✓	✓	✓	✓	✓					2KJ3307 - ■■■■■ - ■■ R1
27.60	53	3 100	22 200	4.7	16	9523/345				✓	✓	✓	✓	✓					2KJ3307 - ■■■■■ - ■■ Q1
24.82	58	3 100	21 200	4.9	19	3103/125				✓	✓	✓	✓	✓	✓				2KJ3307 - ■■■■■ - ■■ P1
21.70	67	3 100	19 900	5.0	23	7811/360					✓	✓	✓	✓	✓	✓			2KJ3307 - ■■■■■ - ■■ N1
19.36	75	3 100	18 900	5.0	27	2033/105					✓	✓	✓	✓	✓	✓	✓		2KJ3307 - ■■■■■ - ■■ M1
17.06	85	3 100	17 800	5.0	33	1177/69					✓	✓	✓	✓	✓	✓	✓		2KJ3307 - ■■■■■ - ■■ L1
14.95	97	3 100	16 700	5.1	40	4708/315					✓	✓	✓	✓	✓	✓	✓		2KJ3307 - ■■■■■ - ■■ K1
13.03	111	3 100	15 600	5.2	48	1498/115					✓	✓	✓	✓	✓	✓	✓		2KJ3307 - ■■■■■ - ■■ J1
11.89	122	3 060	15 600	5.2	56	107/9					✓	✓	✓	✓	✓	✓	✓		2KJ3307 - ■■■■■ - ■■ H1
10.23	142	2 880	15 900	5.3	70	1177/115							✓	✓	✓	✓	✓		2KJ3307 - ■■■■■ - ■■ G1
9.02	161	2 090	16 100	7.6	36	1767/196					✓	✓	✓	✓	✓	✓	✓		2KJ3307 - ■■■■■ - ■■ F1
7.94	183	2 000	15 800	7.8	44	5115/644					✓	✓	✓	✓	✓	✓	✓		2KJ3307 - ■■■■■ - ■■ E1
6.96	208	1 900	15 700	7.9	54	341/49					✓	✓	✓	✓	✓	✓	✓		2KJ3307 - ■■■■■ - ■■ D1
6.07	239	1 800	15 600	8.1	68	279/46					✓	✓	✓	✓	✓	✓	✓		2KJ3307 - ■■■■■ - ■■ C1
5.54	262	1 730	15 400	8.2	79	155/28					✓	✓	✓	✓	✓	✓	✓		2KJ3307 - ■■■■■ - ■■ B1
4.77	304	1 620	15 200	8.4	102	3069/644							✓	✓	✓	✓	✓		2KJ3307 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
FD.129																			
413.00	3.5	4 850	37 200	5.5	3.3	9911/24				✓	✓	✓							2KJ3408 - ■■■■■ - ■■ T1
381.00	3.8	4 850	37 200	5.5	3.9	9911/26				✓	✓	✓							2KJ3408 - ■■■■■ - ■■ S1
351.00	4.1	4 850	37 200	5.5	4.5	34397/98				✓	✓	✓	✓	✓					2KJ3408 - ■■■■■ - ■■ R1
299.31	4.8	4 850	37 200	5.5	5.6	67045/224				✓	✓	✓	✓	✓					2KJ3408 - ■■■■■ - ■■ Q1
281.70	5.1	4 850	37 200	5.5	6.4	67045/238				✓	✓	✓	✓	✓					2KJ3408 - ■■■■■ - ■■ P1
261.42	5.5	4 850	37 200	5.5	6.9	65879/252				✓	✓	✓	✓	✓					2KJ3408 - ■■■■■ - ■■ N1
231.12	6.3	4 850	37 200	5.5	8.4	64713/280				✓	✓	✓	✓	✓					2KJ3408 - ■■■■■ - ■■ M1
206.32	7	4 850	37 200	5.5	10	5777/28				✓	✓	✓	✓	✓					2KJ3408 - ■■■■■ - ■■ L1
185.66	7.8	4 850	37 200	5.5	12	62381/336				✓	✓	✓	✓	✓					2KJ3408 - ■■■■■ - ■■ K1
161.14	9	4 850	37 200	5.5	14	51887/322				✓	✓	✓	✓	✓					2KJ3408 - ■■■■■ - ■■ J1
144.92	10	4 850	37 200	5.5	16	50721/350				✓	✓	✓	✓	✓					2KJ3408 - ■■■■■ - ■■ H1
126.66	11	4 850	37 200	5.5	19	42559/336					✓	✓	✓	✓					2KJ3408 - ■■■■■ - ■■ G1
113.03	13	4 850	37 200	5.5	23	11077/98					✓	✓	✓	✓					2KJ3408 - ■■■■■ - ■■ F1
99.58	15	4 850	37 200	5.5	27	32065/322					✓	✓	✓	✓					2KJ3408 - ■■■■■ - ■■ E1
87.25	17	4 850	37 200	5.5	32	12826/147					✓	✓	✓	✓					2KJ3408 - ■■■■■ - ■■ D1
76.04	19	4 850	37 200	5.5	37	1749/23					✓	✓	✓	✓					2KJ3408 - ■■■■■ - ■■ C1
69.40	21	4 850	37 200	5.5	44	2915/42					✓	✓	✓	✓					2KJ3408 - ■■■■■ - ■■ B1
59.75	24	4 850	37 200	5.5	53	19239/322							✓	✓					2KJ3408 - ■■■■■ - ■■ A1
FZ.129																			
69.20	21	4 850	37 200	5.1	7.7	13563/196				✓	✓	✓	✓	✓					2KJ3308 - ■■■■■ - ■■ A2
59.22	24	4 850	37 200	5.1	9.7	6633/112				✓	✓	✓	✓	✓					2KJ3308 - ■■■■■ - ■■ X1
55.74	26	4 850	37 200	5.1	11	6633/119				✓	✓	✓	✓	✓					2KJ3308 - ■■■■■ - ■■ W1
52.25	28	4 850	36 600	5.1	12	209/4				✓	✓	✓	✓	✓					2KJ3308 - ■■■■■ - ■■ V1
46.32	31	4 850	34 800	5.1	15	12969/280				✓	✓	✓	✓	✓					2KJ3308 - ■■■■■ - ■■ U1
41.14	35	4 850	33 100	5.1	18	288/7				✓	✓	✓	✓	✓					2KJ3308 - ■■■■■ - ■■ T1
37.12	39	4 850	31 700	5.1	21	297/8				✓	✓	✓	✓	✓					2KJ3308 - ■■■■■ - ■■ S1
32.90	44	4 850	30 100	5.2	26	10593/322				✓	✓	✓	✓	✓					2KJ3308 - ■■■■■ - ■■ R1
29.13	50	4 850	28 500	5.3	29	10197/350				✓	✓	✓	✓	✓	✓				2KJ3308 - ■■■■■ - ■■ Q1
25.93	56	4 850	27 100	5.3	35	363/14					✓	✓	✓	✓	✓	✓			2KJ3308 - ■■■■■ - ■■ P1
23.23	62	4 850	25 800	5.3	41	2277/98					✓	✓	✓	✓	✓	✓	✓		2KJ3308 - ■■■■■ - ■■ N1
20.60	70	4 850	24 400	5.3	49	6633/322					✓	✓	✓	✓	✓	✓	✓		2KJ3308 - ■■■■■ - ■■ M1
18.18	80	4 850	23 000	5.4	60	891/49					✓	✓	✓	✓	✓	✓	✓	✓	2KJ3308 - ■■■■■ - ■■ L1
15.99	91	4 800	21 700	5.4	73	2574/161					✓	✓	✓	✓	✓	✓	✓	✓	2KJ3308 - ■■■■■ - ■■ K1
14.48	100	4 690	21 000	5.5	83	1419/98					✓	✓	✓	✓	✓	✓	✓	✓	2KJ3308 - ■■■■■ - ■■ J1
12.61	115	4 530	20 100	5.5	101	4059/322							✓	✓	✓	✓	✓	✓	2KJ3308 - ■■■■■ - ■■ H1
10.34	140	4 320	20 400	5.5	135	1881/182							✓	✓	✓	✓	✓	✓	2KJ3308 - ■■■■■ - ■■ G1
9.80	148	3 630	19 600	8.1	64	2479/253					✓	✓	✓	✓	✓	✓	✓		2KJ3308 - ■■■■■ - ■■ F1
8.65	168	3 640	19 700	8.1	79	666/77					✓	✓	✓	✓	✓	✓	✓	✓	2KJ3308 - ■■■■■ - ■■ E1
7.60	191	3 620	19 800	8.1	97	1924/253					✓	✓	✓	✓	✓	✓	✓	✓	2KJ3308 - ■■■■■ - ■■ D1
6.89	210	3 630	19 700	8.2	112	1591/231					✓	✓	✓	✓	✓	✓	✓	✓	2KJ3308 - ■■■■■ - ■■ C1
6.00	242	3 640	19 600	8.3	140	1517/253							✓	✓	✓	✓	✓	✓	2KJ3308 - ■■■■■ - ■■ B1
4.92	295	3 030	19 300	8.5	192	703/143							✓	✓	✓	✓	✓	✓	2KJ3308 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

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Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
FD.149																			
377.00	3.8	8 000	65 000	4.8	7.1	18495/49					✓	✓	✓	✓					2KJ3410 - ■■■■■ - ■■ W1
323.04	4.5	8 000	65 000	4.8	9	9045/28					✓	✓	✓	✓					2KJ3410 - ■■■■■ - ■■ V1
304.03	4.8	8 000	65 000	4.8	10	36180/119					✓	✓	✓	✓					2KJ3410 - ■■■■■ - ■■ U1
285.00	5.1	8 000	6 5000	4.8	11	285/1					✓	✓	✓	✓					2KJ3410 - ■■■■■ - ■■ T1
252.64	5.7	8 000	65 000	4.8	14	3537/14					✓	✓	✓	✓					2KJ3410 - ■■■■■ - ■■ S1
224.42	6.5	8 000	65 000	4.8	16	17280/77					✓	✓	✓	✓					2KJ3410 - ■■■■■ - ■■ R1
202.50	7.2	8 000	65 000	4.8	19	405/2					✓	✓	✓	✓					2KJ3410 - ■■■■■ - ■■ Q1
179.44	8.1	8 000	65 000	4.8	23	28890/161					✓	✓	✓	✓					2KJ3410 - ■■■■■ - ■■ P1
158.91	9.1	8 000	65 000	4.8	26	5562/35					✓	✓	✓	✓	✓				2KJ3410 - ■■■■■ - ■■ N1
141.43	10	8 000	65 000	4.8	31	990/7					✓	✓	✓	✓	✓	✓			2KJ3410 - ■■■■■ - ■■ M1
126.73	11	8 000	65 000	4.8	37	6210/49					✓	✓	✓	✓	✓	✓	✓		2KJ3410 - ■■■■■ - ■■ L1
112.36	13	8 000	63 600	4.8	43	18090/161					✓	✓	✓	✓	✓	✓	✓		2KJ3410 - ■■■■■ - ■■ K1
99.18	15	8 000	60 700	4.8	53	4860/49					✓	✓	✓	✓	✓	✓	✓	✓	2KJ3410 - ■■■■■ - ■■ J1
87.20	17	8 000	57 700	4.8	63	14040/161					✓	✓	✓	✓	✓	✓	✓	✓	2KJ3410 - ■■■■■ - ■■ H1
78.98	18	8 000	54 800	4.8	71	3870/49					✓	✓	✓	✓	✓	✓	✓	✓	2KJ3410 - ■■■■■ - ■■ G1
68.76	21	8 000	52 600	4.9	85	11070/161							✓	✓	✓	✓	✓	✓	2KJ3410 - ■■■■■ - ■■ F1
56.37	26	8 000	49 600	4.9	111	5130/91							✓	✓	✓	✓	✓	✓	2KJ3410 - ■■■■■ - ■■ E1
50.01	29	8 000	45 600	5.2	73	37960/759					✓	✓	✓	✓	✓	✓	✓	✓	2KJ3410 - ■■■■■ - ■■ D1
45.30	32	8 000	43 300	5.2	83	31390/693					✓	✓	✓	✓	✓	✓	✓	✓	2KJ3410 - ■■■■■ - ■■ C1
39.43	37	7 970	41 400	5.2	102	29930/759							✓	✓	✓	✓	✓	✓	2KJ3410 - ■■■■■ - ■■ B1
32.33	45	7 510	39 000	5.2	135	13870/429							✓	✓	✓	✓	✓	✓	2KJ3410 - ■■■■■ - ■■ A1
FZ.149																			
48.48	30	8 000	42 700	4.6	31	1600/33					✓	✓	✓	✓					2KJ3310 - ■■■■■ - ■■ T1
43.89	33	8 000	40 800	4.6	36	395/9					✓	✓	✓	✓					2KJ3310 - ■■■■■ - ■■ S1
38.55	38	8 000	38 500	4.6	44	2660/69					✓	✓	✓	✓					2KJ3310 - ■■■■■ - ■■ R1
34.93	42	8 000	36 800	4.6	51	524/15					✓	✓	✓	✓	✓				2KJ3310 - ■■■■■ - ■■ Q1
31.11	47	8 000	34 900	4.7	60	280/9					✓	✓	✓	✓	✓	✓			2KJ3310 - ■■■■■ - ■■ P1
27.94	52	8 000	33 100	4.7	72	1760/63					✓	✓	✓	✓	✓	✓	✓		2KJ3310 - ■■■■■ - ■■ N1
24.93	58	8 000	31 300	4.7	84	1720/69					✓	✓	✓	✓	✓	✓	✓		2KJ3310 - ■■■■■ - ■■ M1
22.22	65	8 000	29 600	4.7	98	200/9					✓	✓	✓	✓	✓	✓	✓	✓	2KJ3310 - ■■■■■ - ■■ L1
19.71	74	8 000	27 800	4.7	117	1360/69					✓	✓	✓	✓	✓	✓	✓	✓	2KJ3310 - ■■■■■ - ■■ K1
18.10	80	8 000	26 600	4.8	132	380/21					✓	✓	✓	✓	✓	✓	✓	✓	2KJ3310 - ■■■■■ - ■■ J1
15.94	91	8 000	24 900	4.8	156	1100/69							✓	✓	✓	✓	✓	✓	2KJ3310 - ■■■■■ - ■■ H1
13.08	111	7 620	23 200	4.9	212	170/13							✓	✓	✓	✓	✓	✓	2KJ3310 - ■■■■■ - ■■ G1
11.47	126	7 320	23 700	4.9	241	172/15							✓	✓	✓	✓	✓	✓	2KJ3310 - ■■■■■ - ■■ F1
8.97	162	6 770	24 500	6.2	379	260/29							✓	✓	✓	✓	✓	✓	2KJ3310 - ■■■■■ - ■■ E1
8.09	179	5 690	23 900	6.2	200	2420/299							✓	✓	✓	✓	✓	✓	2KJ3310 - ■■■■■ - ■■ D1
6.64	218	5 690	24 000	6.3	277	1122/169							✓	✓	✓	✓	✓	✓	2KJ3310 - ■■■■■ - ■■ C1
5.82	249	5 680	24 000	6.6	325	1892/325							✓	✓	✓	✓	✓	✓	2KJ3310 - ■■■■■ - ■■ B1
4.55	319	5 650	23 600	7.3	517	132/29							✓	✓	✓	✓	✓	✓	2KJ3310 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
FD.169																			
368.00	3.9	13 600	73 500	4.4	18	106240/289						✓	✓	✓					2KJ3411 - ■■■■■ - ■■ V1
343.01	4.2	13 600	73 500	4.4	19	52480/153						✓	✓	✓					2KJ3411 - ■■■■■ - ■■ U1
304.94	4.8	13 600	73 500	4.4	24	5184/17						✓	✓	✓					2KJ3411 - ■■■■■ - ■■ T1
273.80	5.3	13 600	73 500	4.4	28	51200/187						✓	✓	✓					2KJ3411 - ■■■■■ - ■■ S1
247.84	5.9	13 600	73 500	4.4	33	12640/51						✓	✓	✓					2KJ3411 - ■■■■■ - ■■ R1
217.70	6.7	13 600	73 500	4.4	40	85120/391						✓	✓	✓					2KJ3411 - ■■■■■ - ■■ Q1
197.27	7.4	13 600	73 500	4.4	46	16768/85						✓	✓	✓	✓				2KJ3411 - ■■■■■ - ■■ P1
175.69	8.3	13 600	73 500	4.4	54	8960/51						✓	✓	✓	✓	✓			2KJ3411 - ■■■■■ - ■■ N1
157.76	9.2	13 600	73 500	4.4	64	56320/357						✓	✓	✓	✓	✓	✓		2KJ3411 - ■■■■■ - ■■ M1
140.77	10	13 600	73 500	4.4	74	55040/391						✓	✓	✓	✓	✓	✓		2KJ3411 - ■■■■■ - ■■ L1
125.49	12	13 600	73 500	4.4	86	6400/51						✓	✓	✓	✓	✓	✓	✓	2KJ3411 - ■■■■■ - ■■ K1
111.30	13	13 600	73 500	4.4	101	2560/23						✓	✓	✓	✓	✓	✓	✓	2KJ3411 - ■■■■■ - ■■ J1
102.18	14	13 600	73 500	4.4	113	12160/119						✓	✓	✓	✓	✓	✓	✓	2KJ3411 - ■■■■■ - ■■ H1
90.03	16	13 600	73 500	4.4	132	35200/391							✓	✓	✓	✓	✓	✓	2KJ3411 - ■■■■■ - ■■ G1
73.85	20	13 600	71 200	4.5	176	960/13							✓	✓	✓	✓	✓	✓	2KJ3411 - ■■■■■ - ■■ F1
64.75	22	13 600	67 400	4.5	194	5504/85							✓	✓	✓	✓	✓	✓	2KJ3411 - ■■■■■ - ■■ E1
50.63	29	13 600	60 600	4.5	302	24960/493							✓	✓	✓	✓	✓	✓	2KJ3411 - ■■■■■ - ■■ D1
46.55	31	13 600	58 300	4.7	201	3026/65							✓	✓	✓	✓	✓	✓	2KJ3411 - ■■■■■ - ■■ C1
40.82	36	13 600	55 000	4.7	226	15308/375							✓	✓	✓	✓	✓	✓	2KJ3411 - ■■■■■ - ■■ B1
31.92	45	13 600	53 400	4.8	355	4628/145							✓	✓	✓	✓	✓	✓	2KJ3411 - ■■■■■ - ■■ A1
FZ.169																			
44.93	32	12 400	59 900	4.2	68	3100/69						✓	✓	✓					2KJ3311 - ■■■■■ - ■■ S1
41.07	35	13 600	55 100	4.3	80	616/15						✓	✓	✓	✓				2KJ3311 - ■■■■■ - ■■ R1
36.94	39	13 600	52 500	4.3	95	665/18						✓	✓	✓	✓	✓			2KJ3311 - ■■■■■ - ■■ Q1
33.02	44	13 600	49 800	4.4	111	2080/63						✓	✓	✓	✓	✓	✓		2KJ3311 - ■■■■■ - ■■ P1
29.86	49	13 600	47 500	4.4	133	2060/69						✓	✓	✓	✓	✓	✓		2KJ3311 - ■■■■■ - ■■ N1
26.35	55	13 600	44 700	4.4	157	1660/63						✓	✓	✓	✓	✓	✓	✓	2KJ3311 - ■■■■■ - ■■ M1
23.48	62	13 600	42 200	4.4	186	540/23						✓	✓	✓	✓	✓	✓	✓	2KJ3311 - ■■■■■ - ■■ L1
21.27	68	13 600	42 300	4.3	206	1340/63						✓	✓	✓	✓	✓	✓	✓	2KJ3311 - ■■■■■ - ■■ K1
19.13	76	13 600	42 800	4.3	249	440/23							✓	✓	✓	✓	✓	✓	2KJ3311 - ■■■■■ - ■■ J1
15.90	91	13 500	43 200	4.4	314	620/39							✓	✓	✓	✓	✓	✓	2KJ3311 - ■■■■■ - ■■ H1
14.13	103	12 900	43 200	4.4	386	212/15							✓	✓	✓	✓	✓	✓	2KJ3311 - ■■■■■ - ■■ G1
11.26	129	11 700	42 800	4.6	534	980/87							✓	✓	✓	✓	✓	✓	2KJ3311 - ■■■■■ - ■■ F1
8.97	162	10 400	41 900	4.8	710	260/29									✓	✓	✓	✓	2KJ3311 - ■■■■■ - ■■ E1
8.07	180	8 350	39 300	5.9	396	1364/169							✓	✓	✓	✓	✓	✓	2KJ3311 - ■■■■■ - ■■ D1
7.18	202	8 310	38 900	5.9	489	2332/325							✓	✓	✓	✓	✓	✓	2KJ3311 - ■■■■■ - ■■ C1
5.72	253	8 210	37 800	6.4	697	2156/377							✓	✓	✓	✓	✓	✓	2KJ3311 - ■■■■■ - ■■ B1
4.55	319	7 300	36 400	6.8	967	132/29									✓	✓	✓	✓	2KJ3311 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

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Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size												Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	180	200	225	250	
FD.189																			
347.35	4.2	19 000	110 900	4.1	36	590499/1700						✓	✓	✓					2KJ3412 - ■■■■■ - ■■ T1
310.76	4.7	19 000	110 900	4.1	43	290563/935						✓	✓	✓					2KJ3412 - ■■■■■ - ■■ S1
280.27	5.2	19 000	110 900	4.1	49	571753/2040						✓	✓	✓					2KJ3412 - ■■■■■ - ■■ R1
247.71	5.9	19 000	110 900	4.1	61	290563/1173						✓	✓	✓					2KJ3412 - ■■■■■ - ■■ Q1
226.42	6.4	19 000	110 900	4.1	71	1443442/6375						✓	✓	✓	✓				2KJ3412 - ■■■■■ - ■■ P1
203.69	7.1	19 000	110 900	4.1	84	1246609/6120						✓	✓	✓	✓	✓			2KJ3412 - ■■■■■ - ■■ N1
182.03	8	19 000	110 900	4.1	98	139256/765						✓	✓	✓	✓	✓	✓		2KJ3412 - ■■■■■ - ■■ M1
164.61	8.8	19 000	110 900	4.1	117	965419/5865						✓	✓	✓	✓	✓	✓		2KJ3412 - ■■■■■ - ■■ L1
145.28	10	19 000	110 900	4.1	136	111137/765						✓	✓	✓	✓	✓	✓	✓	2KJ3412 - ■■■■■ - ■■ K1
129.45	11	19 000	110 900	4.1	160	253071/1955						✓	✓	✓	✓	✓	✓	✓	2KJ3412 - ■■■■■ - ■■ J1
117.27	12	19 000	110 900	4.1	175	89713/765						✓	✓	✓	✓	✓	✓	✓	2KJ3412 - ■■■■■ - ■■ H1
105.48	14	19 000	110 900	4.1	210	206206/1955							✓	✓	✓	✓	✓	✓	2KJ3412 - ■■■■■ - ■■ G1
87.65	17	19 000	108 200	4.1	258	22351/255							✓	✓	✓	✓	✓	✓	2KJ3412 - ■■■■■ - ■■ F1
77.92	19	19 000	103 200	4.1	314	496769/6375							✓	✓	✓	✓	✓	✓	2KJ3412 - ■■■■■ - ■■ E1
62.11	23	19 000	94 000	4.2	422	459277/7395							✓	✓	✓	✓	✓	✓	2KJ3412 - ■■■■■ - ■■ D1
49.43	29	19 000	85 400	4.2	533	121849/2465									✓	✓	✓	✓	2KJ3412 - ■■■■■ - ■■ C1
40.61	36	19 000	78 400	4.4	478	35329/870							✓	✓	✓	✓	✓	✓	2KJ3412 - ■■■■■ - ■■ B1
32.32	45	19 000	70 800	4.4	621	9373/290									✓	✓	✓	✓	2KJ3412 - ■■■■■ - ■■ A1
FZ.189																			
37.93	38	19 000	76 100	4.0	143	11948/315						✓	✓	✓	✓	✓	✓		2KJ3312 - ■■■■■ - ■■ L1
34.03	43	19 000	72 500	4.1	169	3914/115						✓	✓	✓	✓	✓	✓		2KJ3312 - ■■■■■ - ■■ K1
30.41	48	19 000	68 900	4.1	202	3193/105						✓	✓	✓	✓	✓	✓	✓	2KJ3312 - ■■■■■ - ■■ J1
27.17	53	19 000	65 400	4.1	241	9373/345						✓	✓	✓	✓	✓	✓	✓	2KJ3312 - ■■■■■ - ■■ H1
24.85	58	19 000	62 700	4.1	269	7828/315						✓	✓	✓	✓	✓	✓	✓	2KJ3312 - ■■■■■ - ■■ G1
22.09	66	19 000	59 300	4.1	321	7622/345							✓	✓	✓	✓	✓	✓	2KJ3312 - ■■■■■ - ■■ F1
18.75	77	19 000	54 700	4.2	410	7313/390							✓	✓	✓	✓	✓	✓	2KJ3312 - ■■■■■ - ■■ E1
16.21	89	19 000	50 800	4.2	495	6077/375							✓	✓	✓	✓	✓	✓	2KJ3312 - ■■■■■ - ■■ D1
13.26	109	17 600	48 700	4.3	687	5768/435							✓	✓	✓	✓	✓	✓	2KJ3312 - ■■■■■ - ■■ C1
10.89	133	16 300	50 000	4.4	906	4738/435									✓	✓	✓	✓	2KJ3312 - ■■■■■ - ■■ B1
8.47	171	14 700	50 400	4.8	1 333	3811/450												✓	2KJ3312 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

Selection and ordering data

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
FZ.29-D19															
8 237	0.18	150	5 220	-	0.03	93697098/11375	✓	✓							2KJ3321 - ■■■■■ - ■■ P1
7 157	0.20	150	5 220	-	0.04	81408954/11375	✓	✓							2KJ3321 - ■■■■■ - ■■ N1
6 506	0.22	150	5 220	-	0.04	14801628/2275	✓	✓							2KJ3321 - ■■■■■ - ■■ M1
5 536	0.26	150	5 220	-	0.06	62976738/11375	✓	✓							2KJ3321 - ■■■■■ - ■■ L1
5 033	0.29	150	5 220	-	0.07	11450316/2275	✓	✓							2KJ3321 - ■■■■■ - ■■ K1
4 389	0.33	150	5 220	-	0.08	768009/175	✓	✓							2KJ3321 - ■■■■■ - ■■ J1
3 928	0.37	150	5 220	-	0.11	8936832/2275	✓	✓							2KJ3321 - ■■■■■ - ■■ H1
3 488	0.42	150	5 220	-	0.13	7936093/2275	✓	✓							2KJ3321 - ■■■■■ - ■■ G1
3 220	0.45	150	5 220	-	0.16	95233116/29575	✓	✓							2KJ3321 - ■■■■■ - ■■ F1
2 797	0.52	150	5 220	-	0.17	44544522/15925	✓	✓							2KJ3321 - ■■■■■ - ■■ E1
2 431	0.60	150	5 220	-	0.18	27648324/11375	✓	✓							2KJ3321 - ■■■■■ - ■■ D1
2 194	0.66	150	5 220	-	0.22	768009/350	✓	✓							2KJ3321 - ■■■■■ - ■■ C1
2 065	0.70	150	5 220	-	0.26	361416/175	✓	✓							2KJ3321 - ■■■■■ - ■■ B1
1 800	0.81	150	5 220	-	0.29	4096048/2275	✓	✓							2KJ3321 - ■■■■■ - ■■ A1
FZ.29-Z19															
1 760	0.82	150	5 220	-	0.02	1715912/975	✓	✓							2KJ3320 - ■■■■■ - ■■ R1
1 558	0.93	150	5 220	-	0.03	2532354/1625	✓	✓	✓						2KJ3320 - ■■■■■ - ■■ Q1
1 354	1.1	150	5 220	-	0.04	2200242/1625	✓	✓	✓						2KJ3320 - ■■■■■ - ■■ P1
1 231	1.2	150	5 220	-	0.05	400044/325	✓	✓	✓						2KJ3320 - ■■■■■ - ■■ N1
1 047	1.4	150	5 220	-	0.07	1702074/1625	✓	✓	✓						2KJ3320 - ■■■■■ - ■■ M1
952	1.5	150	5 220	-	0.08	309468/325	✓	✓	✓						2KJ3320 - ■■■■■ - ■■ L1
830	1.7	150	5 220	-	0.09	20757/25	✓	✓	✓						2KJ3320 - ■■■■■ - ■■ K1
743	2	150	5 220	-	0.12	241536/325	✓	✓	✓						2KJ3320 - ■■■■■ - ■■ J1
660	2.2	150	5 220	-	0.15	214489/325	✓	✓	✓						2KJ3320 - ■■■■■ - ■■ H1
609	2.4	150	5 220	-	0.18	2573868/4225	✓	✓	✓						2KJ3320 - ■■■■■ - ■■ G1
529	2.7	150	5 220	-	0.2	1203906/2275	✓	✓	✓						2KJ3320 - ■■■■■ - ■■ F1
460	3.2	150	5 220	-	0.21	747252/1625	✓	✓	✓						2KJ3320 - ■■■■■ - ■■ E1
415	3.5	150	5 220	-	0.27	20757/50	✓	✓	✓						2KJ3320 - ■■■■■ - ■■ D1
391	3.7	150	5 220	-	0.32	9768/25	✓	✓	✓						2KJ3320 - ■■■■■ - ■■ C1
340.63	4.3	150	5 220	-	0.36	110704/325	✓	✓	✓						2KJ3320 - ■■■■■ - ■■ B1
314.27	4.6	150	5 220	-	0.19	428978/1365	✓	✓	✓						2KJ3320 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

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Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
FZ.39-D19															
8 247	0.18	230	6 040	-	0.04	262670067/31850	✓	✓							**2KJ3323 - ■■■■■ - ■■ N1**
7 497	0.19	230	6 040	-	0.04	23879097/3185	✓	✓							**2KJ3323 - ■■■■■ - ■■ M1**
6 380	0.23	230	6 040	-	0.06	203197599/31850	✓	✓							**2KJ3323 - ■■■■■ - ■■ L1**
5 800	0.25	230	6 040	-	0.07	18472509/3185	✓	✓							**2KJ3323 - ■■■■■ - ■■ K1**
5 057	0.29	230	6 040	-	0.08	4956039/980	✓	✓							**2KJ3323 - ■■■■■ - ■■ J1**
4 527	0.32	230	6 040	-	0.11	14417568/3185	✓	✓							**2KJ3323 - ■■■■■ - ■■ H1**
4 020	0.36	230	6 040	-	0.13	51212403/12740	✓	✓							**2KJ3323 - ■■■■■ - ■■ G1**
3 711	0.39	230	6 040	-	0.16	153637209/41405	✓	✓							**2KJ3323 - ■■■■■ - ■■ F1**
3 223	0.45	230	6 040	-	0.17	143725131/44590	✓	✓							**2KJ3323 - ■■■■■ - ■■ E1**
2 801	0.52	230	6 040	-	0.18	44604351/15925	✓	✓							**2KJ3323 - ■■■■■ - ■■ D1**
2 529	0.57	230	6 040	-	0.22	4956039/1960	✓	✓							**2KJ3323 - ■■■■■ - ■■ C1**
2 380	0.61	230	6 040	-	0.26	9912078/4165	✓	✓							**2KJ3323 - ■■■■■ - ■■ B1**
2 075	0.7	230	6 040	-	0.29	6608052/3185	✓	✓							**2KJ3323 - ■■■■■ - ■■ A1**
FZ.39-Z19															
2 028	0.71	230	6 040	-	0.02	922746/455	✓	✓							**2KJ3322 - ■■■■■ - ■■ T1**
1 796	0.81	230	6 040	-	0.03	8170767/4550	✓	✓	✓						**2KJ3322 - ■■■■■ - ■■ S1**
1 560	0.93	230	6 040	-	0.04	7099191/4550	✓	✓	✓						**2KJ3322 - ■■■■■ - ■■ R1**
1 418	1.0	230	6 040	-	0.05	645381/455	✓	✓	✓						**2KJ3322 - ■■■■■ - ■■ Q1**
1 207	1.2	230	6 040	-	0.07	5491827/4550	✓	✓	✓						**2KJ3322 - ■■■■■ - ■■ P1**
1 097	1.3	230	6 040	-	0.08	499257/455	✓	✓	✓						**2KJ3322 - ■■■■■ - ■■ N1**
957	1.5	230	6 040	-	0.09	133947/140	✓	✓	✓						**2KJ3322 - ■■■■■ - ■■ M1**
856	1.7	230	6 040	-	0.12	389664/455	✓	✓	✓						**2KJ3322 - ■■■■■ - ■■ L1**
761	1.9	230	6 040	-	0.15	1384119/1820	✓	✓	✓						**2KJ3322 - ■■■■■ - ■■ K1**
702	2.1	230	6 040	-	0.18	4152357/5915	✓	✓	✓						**2KJ3322 - ■■■■■ - ■■ J1**
610	2.4	230	6 040	-	0.2	3884463/6370	✓	✓	✓						**2KJ3322 - ■■■■■ - ■■ H1**
530	2.7	230	6 040	-	0.21	1205523/2275	✓	✓	✓						**2KJ3322 - ■■■■■ - ■■ G1**
478	3.0	230	6 040	-	0.27	133947/280	✓	✓	✓						**2KJ3322 - ■■■■■ - ■■ F1**
450	3.2	230	6 040	-	0.32	267894/595	✓	✓	✓						**2KJ3322 - ■■■■■ - ■■ E1**
393	3.7	230	6 040	-	0.36	178596/455	✓	✓	✓						**2KJ3322 - ■■■■■ - ■■ D1**
362	4.0	230	6 040	-	0.19	461373/1274	✓	✓	✓						**2KJ3322 - ■■■■■ - ■■ C1**
314.58	4.6	230	6 040	-	0.22	431607/1372	✓	✓	✓						**2KJ3322 - ■■■■■ - ■■ B1**
273.36	5.3	230	6 040	-	0.23	133947/490	✓	✓	✓						**2KJ3322 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
FD.49-D19															
14 685	0.10	480	7 960	-	0.07	14699730/1001	✓	✓							**2KJ3425 - ■■■■■ - ■■ C1**
12 805	0.11	480	7 960	-	0.08	179265/14	✓	✓							**2KJ3425 - ■■■■■ - ■■ B1**
11 461	0.13	480	7 960	-	0.11	11472960/1001	✓	✓							**2KJ3425 - ■■■■■ - ■■ A1**
FD.49-Z19															
752	1.9	480	7 960	-	0.21	3762/5	✓	✓	✓						**2KJ3424 - ■■■■■ - ■■ J1**
679	2.1	480	7 960	-	0.28	2717/4	✓	✓	✓						**2KJ3424 - ■■■■■ - ■■ H1**
639	2.3	480	7 960	-	0.32	10868/17	✓	✓	✓						**2KJ3424 - ■■■■■ - ■■ G1**
557	2.6	480	7 960	-	0.37	1672/3	✓	✓	✓						**2KJ3424 - ■■■■■ - ■■ F1**
514	2.8	480	7 960	-	0.20	32395/63	✓	✓	✓						**2KJ3424 - ■■■■■ - ■■ E1**
447	3.2	480	7 960	-	0.23	393965/882	✓	✓	✓						**2KJ3424 - ■■■■■ - ■■ D1**
388	3.7	480	7 960	-	0.25	2717/7	✓	✓	✓						**2KJ3424 - ■■■■■ - ■■ C1**
350	4.1	480	7 960	-	0.32	176605/504	✓	✓	✓						**2KJ3424 - ■■■■■ - ■■ B1**
329.79	4.4	480	7 960	-	0.37	353210/1071	✓	✓	✓						**2KJ3424 - ■■■■■ - ■■ A1**
FZ.49-D19															
11 357	0.13	480	7 960	-	0.02	46506262/4095	✓	✓							**2KJ3325 - ■■■■■ - ■■ Q1**
10 056	0.14	480	7 960	-	0.03	45756161/4550	✓	✓							**2KJ3325 - ■■■■■ - ■■ P1**
8 737	0.17	480	7 960	-	0.04	39755353/4550	✓	✓							**2KJ3325 - ■■■■■ - ■■ N1**
7 943	0.18	480	7 960	-	0.04	3614123/455	✓	✓							**2KJ3325 - ■■■■■ - ■■ M1**
6 759	0.21	480	7 960	-	0.06	30754141/4550	✓	✓							**2KJ3325 - ■■■■■ - ■■ L1**
6 145	0.24	480	7 960	-	0.07	2795831/455	✓	✓							**2KJ3325 - ■■■■■ - ■■ K1**
5 358	0.27	480	7 960	-	0.08	750101/140	✓	✓							**2KJ3325 - ■■■■■ - ■■ J1**
4 796	0.3	480	7 960	-	0.11	2182112/455	✓	✓							**2KJ3325 - ■■■■■ - ■■ H1**
4 259	0.34	480	7 960	-	0.13	23253131/5460	✓	✓							**2KJ3325 - ■■■■■ - ■■ G1**
3 931	0.37	480	7 960	-	0.16	23253131/5915	✓	✓							**2KJ3325 - ■■■■■ - ■■ F1**
3 415	0.42	480	7 960	-	0.17	21752929/6370	✓	✓							**2KJ3325 - ■■■■■ - ■■ E1**
2 967	0.49	480	7 960	-	0.18	6750909/2275	✓	✓							**2KJ3325 - ■■■■■ - ■■ D1**
2 679	0.54	480	7 960	-	0.22	750101/280	✓	✓							**2KJ3325 - ■■■■■ - ■■ C1**
2 521	0.58	480	7 960	-	0.26	1500202/595	✓	✓							**2KJ3325 - ■■■■■ - ■■ B1**
2 198	0.66	480	7 960	-	0.29	3000404/1365	✓	✓							**2KJ3325 - ■■■■■ - ■■ A1**
FZ.49-Z19															
2 149	0.67	480	7 960	-	0.02	1256926/585	✓	✓	✓						**2KJ3324 - ■■■■■ - ■■ J1**
1 903	0.76	480	7 960	-	0.03	1236653/650	✓	✓	✓						**2KJ3324 - ■■■■■ - ■■ H1**
1 653	0.88	480	7 960	-	0.04	1074469/650	✓	✓	✓						**2KJ3324 - ■■■■■ - ■■ G1**
1 503	0.96	480	7 960	-	0.05	97679/65	✓	✓	✓						**2KJ3324 - ■■■■■ - ■■ F1**
1 279	1.1	480	7 960	-	0.07	831193/650	✓	✓	✓						**2KJ3324 - ■■■■■ - ■■ E1**
1 163	1.2	480	7 960	-	0.08	75563/65	✓	✓	✓						**2KJ3324 - ■■■■■ - ■■ D1**
1 014	1.4	480	7 960	-	0.09	20273/20	✓	✓	✓						**2KJ3324 - ■■■■■ - ■■ C1**
907	1.6	480	7 960	-	0.13	58976/65	✓	✓	✓						**2KJ3324 - ■■■■■ - ■■ B1**
806	1.8	480	7 960	-	0.15	628463/780	✓	✓	✓						**2KJ3324 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

Transmission ratios and torques for very low speeds

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ[1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
FD.69-D19															
13 479	0.11	600	10 800	-	0.08	94350/7	✓	✓							**2KJ3427 - ■■■■■ - ■■ B1**
12 065	0.12	600	10 800	-	0.11	12076800/1001	✓	✓							**2KJ3427 - ■■■■■ - ■■ A1**
FD.69-Z19															
1 200	1.2	600	10 800	-	0.32	1200/1	✓	✓	✓						**2KJ3426 - ■■■■■ - ■■ M1**
1 046	1.4	600	10 800	-	0.37	13600/13	✓	✓	✓						**2KJ3426 - ■■■■■ - ■■ L1**
965	1.5	600	10 800	-	0.19	263500/273	✓	✓	✓						**2KJ3426 - ■■■■■ - ■■ K1**
838	1.7	600	10 800	-	0.22	123250/147	✓	✓	✓						**2KJ3426 - ■■■■■ - ■■ J1**
729	2.0	600	10 800	-	0.23	5100/7	✓	✓	✓						**2KJ3426 - ■■■■■ - ■■ H1**
658	2.2	600	10 800	-	0.30	27625/42	✓	✓	✓						**2KJ3426 - ■■■■■ - ■■ G1**
619	2.3	600	10 800	-	0.35	13000/21	✓	✓	✓						**2KJ3426 - ■■■■■ - ■■ F1**
587	2.5	600	10 800	-	0.37	1760/3	✓	✓	✓						**2KJ3426 - ■■■■■ - ■■ E1**
541	2.7	600	10 800	-	0.20	34100/63	✓	✓	✓						**2KJ3426 - ■■■■■ - ■■ D1**
470	3.1	600	10 800	-	0.23	207350/441	✓	✓	✓						**2KJ3426 - ■■■■■ - ■■ C1**
409	3.5	600	10 800	-	0.25	2860/7	✓	✓	✓						**2KJ3426 - ■■■■■ - ■■ B1**
369	3.9	600	10 800	-	0.32	46475/126	✓	✓	✓						**2KJ3426 - ■■■■■ - ■■ A1**
FZ.69-D19															
11 955	0.12	600	10 800	-	0.02	9790792/819	✓	✓							**2KJ3327 - ■■■■■ - ■■ Q1**
10 586	0.14	600	10 800	-	0.03	4816438/455	✓	✓							**2KJ3327 - ■■■■■ - ■■ P1**
9 197	0.16	600	10 800	-	0.04	4184774/455	✓	✓							**2KJ3327 - ■■■■■ - ■■ N1**
8 361	0.17	600	10 800	-	0.04	760868/91	✓	✓							**2KJ3327 - ■■■■■ - ■■ M1**
7 115	0.20	600	10 800	-	0.06	3237278/455	✓	✓							**2KJ3327 - ■■■■■ - ■■ L1**
6 468	0.22	600	10 800	-	0.07	588596/91	✓	✓							**2KJ3327 - ■■■■■ - ■■ K1**
5 640	0.26	600	10 800	-	0.08	39479/7	✓	✓							**2KJ3327 - ■■■■■ - ■■ J1**
5 048	0.29	600	10 800	-	0.11	459392/91	✓	✓							**2KJ3327 - ■■■■■ - ■■ H1**
4 483	0.32	600	10 800	-	0.13	1223849/273	✓	✓							**2KJ3327 - ■■■■■ - ■■ G1**
4 138	0.35	600	10 800	-	0.16	4895396/1183	✓	✓							**2KJ3327 - ■■■■■ - ■■ F1**
3 595	0.4	600	10 800	-	0.17	2289782/637	✓	✓							**2KJ3327 - ■■■■■ - ■■ E1**
3 124	0.46	600	10 800	-	0.18	1421244/455	✓	✓							**2KJ3327 - ■■■■■ - ■■ D1**
2 820	0.51	600	10 800	-	0.22	39479/14	✓	✓							**2KJ3327 - ■■■■■ - ■■ C1**
2 654	0.55	600	10 800	-	0.26	315832/119	✓	✓							**2KJ3327 - ■■■■■ - ■■ B1**
2 314	0.63	600	10 800	-	0.29	631664/273	✓	✓							**2KJ3327 - ■■■■■ - ■■ A1**
FZ.69-Z19															
2 262	0.64	600	10 800	-	0.02	264616/117	✓	✓							**2KJ3326 - ■■■■■ - ■■ F1**
2 003	0.72	600	10 800	-	0.03	130174/65	✓	✓	✓						**2KJ3326 - ■■■■■ - ■■ E1**
1 740	0.83	600	10 800	-	0.04	113102/65	✓	✓	✓						**2KJ3326 - ■■■■■ - ■■ D1**
1 582	0.92	600	10 800	-	0.05	20564/13	✓	✓	✓						**2KJ3326 - ■■■■■ - ■■ C1**
1 346	1.1	600	10 800	-	0.07	87494/65	✓	✓	✓						**2KJ3326 - ■■■■■ - ■■ B1**
1 224	1.2	600	10 800	-	0.08	15908/13	✓	✓	✓						**2KJ3326 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
FD.79-D39															
17 865	0.08	1 000	13 600	-	0.08	583103521/32640	✓	✓	✓	✓					**2KJ3430 - ■■■■■ - ■■ E1**
16 241	0.09	1 000	13 600	-	0.10	53009411/3264	✓	✓	✓	✓					**2KJ3430 - ■■■■■ - ■■ D1**
14 240	0.10	1 000	13 600	-	0.12	278875597/19584	✓	✓	✓	✓	✓	✓			**2KJ3430 - ■■■■■ - ■■ C1**
12 710	0.11	1 000	13 600	-	0.15	6914271/544	✓	✓	✓	✓	✓	✓			**2KJ3430 - ■■■■■ - ■■ B1**
11 327	0.13	1 000	13 600	-	0.17	887331445/78336	✓	✓	✓	✓	✓	✓			**2KJ3430 - ■■■■■ - ■■ A1**
FZ.79-D39															
11 301	0.13	1 000	13 600	-	0.03	155608271/13770	✓	✓							**2KJ3330 - ■■■■■ - ■■ N1**
10 023	0.14	1 000	13 600	-	0.05	6765577/675	✓	✓							**2KJ3330 - ■■■■■ - ■■ M1**
8 696	0.17	1 000	13 600	-	0.05	399169043/45900	✓	✓							**2KJ3330 - ■■■■■ - ■■ L1**
7 906	0.18	1 000	13 600	-	0.07	399169043/50490	✓	✓	✓	✓					**2KJ3330 - ■■■■■ - ■■ K1**
6 780	0.21	1 000	13 600	-	0.08	155608271/22950	✓	✓	✓	✓					**2KJ3330 - ■■■■■ - ■■ J1**
6 164	0.24	1 000	13 600	-	0.10	155608271/25245	✓	✓	✓	✓					**2KJ3330 - ■■■■■ - ■■ H1**
5 405	0.27	1 000	13 600	-	0.12	74421347/13770	✓	✓	✓	✓	✓	✓			**2KJ3330 - ■■■■■ - ■■ G1**
4 824	0.30	1 000	13 600	-	0.15	13531154/2805	✓	✓	✓	✓	✓	✓			**2KJ3330 - ■■■■■ - ■■ F1**
4 299	0.34	1 000	13 600	-	0.17	47359039/11016	✓	✓	✓	✓	✓	✓			**2KJ3330 - ■■■■■ - ■■ E1**
3 968	0.37	1 000	13 600	-	0.21	3643003/918	✓	✓	✓	✓	✓	✓			**2KJ3330 - ■■■■■ - ■■ D1**
3 474	0.42	1 000	13 600	-	0.25	10631621/3060	✓	✓	✓	✓	✓	✓			**2KJ3330 - ■■■■■ - ■■ C1**
3 046	0.48	1 000	13 600	-	0.23	209732887/68850	✓	✓	✓	✓	✓	✓			**2KJ3330 - ■■■■■ - ■■ B1**
2 764	0.52	1 000	13 600	-	0.33	6765577/2448	✓	✓	✓	✓	✓	✓			**2KJ3330 - ■■■■■ - ■■ A1**
FZ.79-Z39															
2 687	0.54	1 000	13 600	-	0.06	13059137/4860	✓	✓							**2KJ3328 - ■■■■■ - ■■ S2**
2 389	0.61	1 000	13 600	-	0.07	6450899/2700	✓	✓	✓	✓					**2KJ3328 - ■■■■■ - ■■ R1**
2 098	0.69	1 000	13 600	-	0.08	157339/75	✓	✓	✓	✓					**2KJ3328 - ■■■■■ - ■■ Q1**
1 907	0.76	1 000	13 600	-	0.10	314678/165	✓	✓	✓	✓					**2KJ3328 - ■■■■■ - ■■ P1**
1 632	0.89	1 000	13 600	-	0.12	1101373/675	✓	✓	✓	✓					**2KJ3328 - ■■■■■ - ■■ N1**
1 483	0.98	1 000	13 600	-	0.14	2202746/1485	✓	✓	✓	✓					**2KJ3328 - ■■■■■ - ■■ M1**
1 311	1.1	1 000	13 600	-	0.17	157339/120	✓	✓	✓	✓	✓	✓			**2KJ3328 - ■■■■■ - ■■ L1**
1 192	1.2	1 000	13 600	-	0.22	157339/132	✓	✓	✓	✓	✓	✓			**2KJ3328 - ■■■■■ - ■■ K1**
1 044	1.4	1 000	13 600	-	0.26	6765577/6480	✓	✓	✓	✓	✓	✓			**2KJ3328 - ■■■■■ - ■■ J1**
964	1.5	1 000	13 600	-	0.31	520429/540	✓	✓	✓	✓	✓	✓			**2KJ3328 - ■■■■■ - ■■ H1**
853	1.7	1 000	13 600	-	0.36	921557/1080	✓	✓	✓	✓	✓	✓			**2KJ3328 - ■■■■■ - ■■ G1**
710	2.0	1 000	13 600	-	0.48	2045407/2880	✓	✓	✓	✓	✓	✓			**2KJ3328 - ■■■■■ - ■■ F1**
668	2.2	1 000	13 600	-	0.56	2045407/3060	✓	✓	✓	✓	✓	✓			**2KJ3328 - ■■■■■ - ■■ E1**
599	2.4	1 000	13 600	-	0.61	5821543/9720	✓	✓	✓	✓	✓	✓			**2KJ3328 - ■■■■■ - ■■ D1**
510	2.8	1 000	13 600	-	0.79	1101373/2160	✓	✓	✓	✓	✓	✓			**2KJ3328 - ■■■■■ - ■■ C1**
437	3.3	1 000	13 600	-	1.03	157339/360			✓	✓	✓	✓			**2KJ3328 - ■■■■■ - ■■ B1**
376	3.9	1 000	13 600	-	1.31	4877509/12960			✓	✓	✓	✓			**2KJ3328 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

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Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ[1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
FD.89-D39															
17 750	0.08	1 850	17 400	-	0.12	15389528/867	✓	✓	✓	✓	✓	✓			**2KJ3432 - ■■■■■ - ■■ B1**
15 843	0.09	1 850	17 400	-	0.15	50365728/3179	✓	✓	✓	✓	✓	✓			**2KJ3432 - ■■■■■ - ■■ A1**
FD.89-Z39															
648	2.2	1 850	17 400	-	0.75	47389680/73117	✓	✓	✓	✓	✓	✓			**2KJ3431 - ■■■■■ - ■■ E1**
581	2.5	1 850	17 400	-	0.85	7493240/12903	✓	✓	✓	✓	✓	✓			**2KJ3431 - ■■■■■ - ■■ D1**
494	2.9	1 850	17 400	-	1.12	2126460/4301	✓	✓	✓	✓	✓	✓			**2KJ3431 - ■■■■■ - ■■ C1**
424	3.4	1 850	17 400	-	1.48	1822680/4301			✓	✓	✓	✓			**2KJ3431 - ■■■■■ - ■■ B1**
365	4	1 850	17 400	-	1.91	1569530/4301			✓	✓	✓	✓			**2KJ3431 - ■■■■■ - ■■ A1**
FZ.89-D39															
14 522	0.1	1 850	17 400	-	0.03	33327322/2295	✓	✓							**2KJ3332 - ■■■■■ - ■■ N1**
12 880	0.11	1 850	17 400	-	0.05	2898028/225	✓	✓							**2KJ3332 - ■■■■■ - ■■ M1**
11 175	0.13	1 850	17 400	-	0.05	42745913/3825	✓	✓							**2KJ3332 - ■■■■■ - ■■ L1**
10 159	0.14	1 850	17 400	-	0.07	85491826/8415	✓	✓	✓	✓					**2KJ3332 - ■■■■■ - ■■ K1**
8 713	0.17	1 850	17 400	-	0.08	33327322/3825	✓	✓	✓	✓					**2KJ3332 - ■■■■■ - ■■ J1**
7 921	0.18	1 850	17 400	-	0.10	66654644/8415	✓	✓	✓	✓					**2KJ3332 - ■■■■■ - ■■ H1**
6 945	0.21	1 850	17 400	-	0.12	15939154/2295	✓	✓	✓	✓	✓	✓			**2KJ3332 - ■■■■■ - ■■ G1**
6 299	0.23	1 850	17 400	-	0.15	5796056/935	✓	✓	✓	✓	✓	✓			**2KJ3332 - ■■■■■ - ■■ F1**
5 525	0.26	1 850	17 400	-	0.17	5071549/918	✓	✓	✓	✓	✓	✓			**2KJ3332 - ■■■■■ - ■■ E1**
5 100	0.28	1 850	17 400	-	0.21	10143098/1989	✓	✓	✓	✓	✓	✓			**2KJ3332 - ■■■■■ - ■■ D1**
4 465	0.32	1 850	17 400	-	0.25	1138511/255	✓	✓	✓	✓	✓	✓			**2KJ3332 - ■■■■■ - ■■ C1**
3 915	0.37	1 850	17 400	-	0.23	44919434/11475	✓	✓	✓	✓	✓	✓			**2KJ3332 - ■■■■■ - ■■ B1**
3 552	0.41	1 850	17 400	-	0.33	724507/204	✓	✓	✓	✓	✓	✓			**2KJ3332 - ■■■■■ - ■■ A1**
FZ.89-Z39															
3 453	0.42	1 850	17 400	-	0.06	1398467/405	✓	✓							**2KJ3331 - ■■■■■ - ■■ P1**
3 070	0.47	1 850	17 400	-	0.07	690809/225	✓	✓	✓	✓					**2KJ3331 - ■■■■■ - ■■ N1**
2 696	0.54	1 850	17 400	-	0.08	67396/25	✓	✓	✓	✓					**2KJ3331 - ■■■■■ - ■■ M1**
2 451	0.59	1 850	17 400	-	0.10	134792/55	✓	✓	✓	✓					**2KJ3331 - ■■■■■ - ■■ L1**
2 097	0.69	1 850	17 400	-	0.12	471772/225	✓	✓	✓	✓					**2KJ3331 - ■■■■■ - ■■ K1**
1 906	0.76	1 850	17 400	-	0.14	943544/495	✓	✓	✓	✓					**2KJ3331 - ■■■■■ - ■■ J1**
1 685	0.86	1 850	17 400	-	0.17	16849/10	✓	✓	✓	✓	✓	✓			**2KJ3331 - ■■■■■ - ■■ H1**
1 532	0.95	1 850	17 400	-	0.22	16849/11	✓	✓	✓	✓	✓	✓			**2KJ3331 - ■■■■■ - ■■ G1**
1 342	1.1	1 850	17 400	-	0.26	724507/540	✓	✓	✓	✓	✓	✓			**2KJ3331 - ■■■■■ - ■■ F1**
1 238	1.2	1 850	17 400	-	0.31	724507/585	✓	✓	✓	✓	✓	✓			**2KJ3331 - ■■■■■ - ■■ E1**
1 097	1.3	1 850	17 400	-	0.36	98687/90	✓	✓	✓	✓	✓	✓			**2KJ3331 - ■■■■■ - ■■ D1**
913	1.6	1 850	17 400	-	0.48	219037/240	✓	✓	✓	✓	✓	✓			**2KJ3331 - ■■■■■ - ■■ C1**
859	1.7	1 850	17 400	-	0.56	219037/255	✓	✓	✓	✓	✓	✓			**2KJ3331 - ■■■■■ - ■■ B1**
770	1.9	1 850	17 400	-	0.61	623413/810	✓	✓	✓	✓	✓	✓			**2KJ3331 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
FD.109-D39															
22 701	0.06	3 100	25 000	-	0.05	5286392566/232875	✓	✓							2KJ3434 - ■■■■■ - ■■ L1
20 637	0.07	3 100	25 000	-	0.07	10572785132/512325	✓	✓	✓	✓					2KJ3434 - ■■■■■ - ■■ K1
17 699	0.08	3 100	25 000	-	0.08	179199748/10125	✓	✓	✓	✓					2KJ3434 - ■■■■■ - ■■ J1
16 090	0.09	3 100	25 000	-	0.10	358399496/22275	✓	✓	✓	✓					2KJ3434 - ■■■■■ - ■■ H1
14 108	0.10	3 100	25 000	-	0.12	1971197228/139725	✓	✓	✓	✓	✓	✓			2KJ3434 - ■■■■■ - ■■ G1
12 592	0.12	3 100	25 000	-	0.15	716798992/56925	✓	✓	✓	✓	✓	✓			2KJ3434 - ■■■■■ - ■■ F1
11 222	0.13	3 100	25 000	-	0.18	313599559/27945	✓	✓	✓	✓	✓	✓			2KJ3434 - ■■■■■ - ■■ E1
10 359	0.14	3 100	25 000	-	0.21	96492172/9315	✓	✓	✓	✓	✓	✓			2KJ3434 - ■■■■■ - ■■ D1
9 069	0.16	3 100	25 000	-	0.25	140799802/15525	✓	✓	✓	✓	✓	✓			2KJ3434 - ■■■■■ - ■■ C1
7 952	0.18	3 100	25 000	-	0.23	5555192188/698625	✓	✓	✓	✓	✓	✓			2KJ3434 - ■■■■■ - ■■ B1
7 214	0.2	3 100	25 000	-	0.33	44799937/6210	✓	✓	✓	✓	✓	✓			2KJ3434 - ■■■■■ - ■■ A1
FD.109-Z39															
7 014	0.21	3 100	25 000	-	0.06	2940126098/419175	✓	✓							2KJ3433 - ■■■■■ - ■■ A2
6 237	0.23	3 100	25 000	-	0.07	1452351446/232875	✓	✓	✓	✓					2KJ3433 - ■■■■■ - ■■ X1
5 476	0.26	3 100	25 000	-	0.09	141692824/25875	✓	✓	✓	✓					2KJ3433 - ■■■■■ - ■■ W1
4 978	0.29	3 100	25 000	-	0.10	283385648/56925	✓	✓	✓	✓					2KJ3433 - ■■■■■ - ■■ V1
4 259	0.34	3 100	25 000	-	0.12	991849768/232875	✓	✓	✓	✓					2KJ3433 - ■■■■■ - ■■ U1
3 872	0.37	3 100	25 000	-	0.15	1983699536/512325	✓	✓	✓	✓					2KJ3433 - ■■■■■ - ■■ T1
3 423	0.42	3 100	25 000	-	0.17	17711603/5175	✓	✓	✓	✓	✓	✓			2KJ3433 - ■■■■■ - ■■ S1
3 111	0.47	3 100	25 000	-	0.23	35423206/11385	✓	✓	✓	✓	✓	✓			2KJ3433 - ■■■■■ - ■■ R1
2 725	0.53	3 100	25 000	-	0.27	761598929/279450	✓	✓	✓	✓	✓	✓			2KJ3433 - ■■■■■ - ■■ Q1
2 516	0.58	3 100	25 000	-	0.32	117169066/46575	✓	✓	✓	✓	✓	✓			2KJ3433 - ■■■■■ - ■■ P1
2 227	0.65	3 100	25 000	-	0.38	103739389/46575	✓	✓	✓	✓	✓	✓			2KJ3433 - ■■■■■ - ■■ N1
1 854	0.78	3 100	25 000	-	0.50	230250839/124200	✓	✓	✓	✓	✓	✓			2KJ3433 - ■■■■■ - ■■ M1
1 745	0.83	3 100	25 000	-	0.59	27088334/15525	✓	✓	✓	✓	✓	✓			2KJ3433 - ■■■■■ - ■■ L1
1 563	0.93	3 100	25 000	-	0.64	655329311/419175	✓	✓	✓	✓	✓	✓			2KJ3433 - ■■■■■ - ■■ K1
1 331	1.1	3 100	25 000	-	0.84	123981221/93150	✓	✓	✓	✓	✓	✓			2KJ3433 - ■■■■■ - ■■ J1
1 141	1.3	3 100	25 000	-	1.10	17711603/15525	✓	✓	✓	✓	✓	✓			2KJ3433 - ■■■■■ - ■■ H1
982	1.5	3 100	25 000	-	1.40	549059693/558900	✓	✓	✓	✓	✓	✓			2KJ3433 - ■■■■■ - ■■ G1
810	1.8	3 100	25 000	-	0.73	154343969/190440	✓	✓	✓	✓	✓	✓			2KJ3433 - ■■■■■ - ■■ F1
763	1.9	3 100	25 000	-	0.84	18158114/23805	✓	✓	✓	✓	✓	✓			2KJ3433 - ■■■■■ - ■■ E1
683	2.1	3 100	25 000	-	0.96	43286681/642735	✓	✓	✓	✓	✓	✓			2KJ3433 - ■■■■■ - ■■ D1
582	2.5	3 100	25 000	-	1.28	83108291/142830	✓	✓	✓	✓	✓	✓			2KJ3433 - ■■■■■ - ■■ C1
499	2.9	3 100	25 000	-	1.70	11872613/23805			✓	✓	✓	✓			2KJ3433 - ■■■■■ - ■■ B1
429	3.4	3 100	25 000	-	2.20	368051003/856980			✓	✓	✓	✓			2KJ3433 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

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Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ[1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
FD.129-D49															
27 777	0.05	4 850	37 200	-	0.08	31110629/1120	✓	✓							2KJ3436 - ■■■■■ - ■■ N1
25 252	0.06	4 850	37 200	-	0.10	2828239/112	✓	✓	✓	✓					2KJ3436 - ■■■■■ - ■■ M1
21 605	0.07	4 850	37 200	-	0.12	31110629/1440	✓	✓	✓	✓					2KJ3436 - ■■■■■ - ■■ L1
19 641	0.07	4 850	37 200	-	0.14	2828239/144	✓	✓	✓	✓					2KJ3436 - ■■■■■ - ■■ K1
17 361	0.08	4 850	37 200	-	0.17	31110629/1792	✓	✓	✓	✓	✓	✓			2KJ3436 - ■■■■■ - ■■ J1
15 783	0.09	4 850	37 200	-	0.22	14141195/896	✓	✓	✓	✓	✓	✓			2KJ3436 - ■■■■■ - ■■ H1
13 824	0.10	4 850	37 200	-	0.26	1337757047/96768	✓	✓	✓	✓	✓	✓			2KJ3436 - ■■■■■ - ■■ G1
12 761	0.11	4 850	37 200	-	0.31	1337757047/104832	✓	✓	✓	✓	✓	✓			2KJ3436 - ■■■■■ - ■■ F1
11 298	0.13	4 850	37 200	-	0.37	1275535789/112896	✓	✓	✓	✓	✓	✓	✓		2KJ3436 - ■■■■■ - ■■ E1
9 404	0.15	4 850	37 200	-	0.50	404438177/43008	✓	✓	✓	✓	✓	✓	✓		2KJ3436 - ■■■■■ - ■■ D1
8 851	0.16	4 850	37 200	-	0.59	23790481/2688	✓	✓	✓	✓	✓	✓	✓		2KJ3436 - ■■■■■ - ■■ C1
7 930	0.18	4 850	37 200	-	0.65	1151093273/145152	✓	✓	✓	✓	✓	✓	✓		2KJ3436 - ■■■■■ - ■■ B1
6 751	0.21	4 850	37 200	-	0.85	31110629/4608	✓	✓	✓	✓	✓	✓	✓		2KJ3436 - ■■■■■ - ■■ A1
FZ.129-Z49															
6 604	0.22	4 850	37 200	-	0.18	177513589/26880	✓	✓	✓	✓					2KJ3435 - ■■■■■ - ■■ B2
6 004	0.24	4 850	37 200	-	0.21	16137599/2688	✓	✓	✓	✓					2KJ3435 - ■■■■■ - ■■ A2
5 106	0.28	4 850	37 200	-	0.27	9150185/1792	✓	✓	✓	✓					2KJ3435 - ■■■■■ - ■■ X1
4 642	0.31	4 850	37 200	-	0.32	4159175/896	✓	✓	✓	✓					2KJ3435 - ■■■■■ - ■■ W1
4 142	0.35	4 850	37 200	-	0.38	133592701/32256	✓	✓	✓	✓	✓	✓			2KJ3435 - ■■■■■ - ■■ V1
3 714	0.39	4 850	37 200	-	0.45	831835/224	✓	✓	✓	✓	✓	✓			2KJ3435 - ■■■■■ - ■■ U1
3 347	0.43	4 850	37 200	-	0.53	107972183/32256	✓	✓	✓	✓	✓	✓			2KJ3435 - ■■■■■ - ■■ T1
3 090	0.47	4 850	37 200	-	0.63	107972183/34944	✓	✓	✓	✓	✓	✓			2KJ3435 - ■■■■■ - ■■ S1
2 821	0.51	4 850	37 200	-	0.75	53071073/18816	✓	✓	✓	✓	✓	✓	✓		2KJ3435 - ■■■■■ - ■■ R1
2 340	0.62	4 850	37 200	-	0.95	100652035/43008	✓	✓	✓	✓	✓	✓	✓		2KJ3435 - ■■■■■ - ■■ Q1
2 203	0.66	4 850	37 200	-	1.10	100652035/45696	✓	✓	✓	✓	✓	✓	✓		2KJ3435 - ■■■■■ - ■■ P1
2 080	0.70	4 850	37 200	-	1.25	100652035/48384	✓	✓	✓	✓	✓	✓	✓		2KJ3435 - ■■■■■ - ■■ N1
1 770	0.82	4 850	37 200	-	1.53	23790481/13440	✓	✓	✓	✓	✓	✓	✓		2KJ3435 - ■■■■■ - ■■ M1
1 516	0.96	4 850	37 200	-	1.89	1164569/768			✓	✓	✓	✓	✓		2KJ3435 - ■■■■■ - ■■ L1
1 333	1.1	4 850	37 200	-	2.3	86011739/64512			✓	✓	✓	✓	✓		2KJ3435 - ■■■■■ - ■■ K1
1 125	1.3	4 850	37 200	-	2.9	34770703/30912			✓	✓	✓	✓	✓		2KJ3435 - ■■■■■ - ■■ J1
980	1.5	4 850	37 200	-	3.9	5490111/5600			✓	✓	✓	✓	✓		2KJ3435 - ■■■■■ - ■■ H1
967	1.5	4 850	37 200	-	1.51	27620791/28560	✓	✓	✓	✓	✓	✓	✓		2KJ3435 - ■■■■■ - ■■ G1
913	1.6	4 850	37 200	-	1.71	27620791/30240	✓	✓	✓	✓	✓	✓	✓		2KJ3435 - ■■■■■ - ■■ F1
777	1.9	4 850	37 200	-	2.2	32642753/42000	✓	✓	✓	✓	✓	✓	✓		2KJ3435 - ■■■■■ - ■■ E1
666	2.2	4 850	37 200	-	2.8	1597897/2400			✓	✓	✓	✓	✓		2KJ3435 - ■■■■■ - ■■ D1
585	2.5	4 850	37 200	-	3.5	118016107/201600			✓	✓	✓	✓	✓		2KJ3435 - ■■■■■ - ■■ C1
494	2.9	4 850	37 200	-	4.5	47708639/96600			✓	✓	✓	✓	✓		2KJ3435 - ■■■■■ - ■■ B1
430	3.4	4 850	37 200	-	6.0	7532943/17500			✓	✓	✓	✓	✓		2KJ3435 - ■■■■■ - ■■ A1

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ[1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
FD.149-D49															
27 793	0.05	8 000	65 000	-	0.08	1361853/49	✓	✓							**2KJ3438 - ■■■■■ - ■■ N1**
25 266	0.06	8 000	65 000	-	0.10	13618530/539	✓	✓	✓	✓					**2KJ3438 - ■■■■■ - ■■ M1**
21 617	0.07	8 000	65 000	-	0.12	151317/7	✓	✓	✓	✓					**2KJ3438 - ■■■■■ - ■■ L1**
19 652	0.07	8 000	65 000	-	0.14	1513170/77	✓	✓	✓	✓					**2KJ3438 - ■■■■■ - ■■ K1**
17 371	0.08	8 000	65 000	-	0.17	6809265/392	✓	✓	✓	✓	✓	✓			**2KJ3438 - ■■■■■ - ■■ J1**
15 791	0.09	8 000	65 000	-	0.22	34046325/2156	✓	✓	✓	✓	✓	✓			**2KJ3438 - ■■■■■ - ■■ H1**
13 832	0.10	8 000	65 000	-	0.26	10844385/784	✓	✓	✓	✓	✓	✓			**2KJ3438 - ■■■■■ - ■■ G1**
12 768	0.11	8 000	65 000	-	0.31	32533155/2548	✓	✓	✓	✓	✓	✓			**2KJ3438 - ■■■■■ - ■■ F1**
11 305	0.13	8 000	65 000	-	0.37	31019985/2744	✓	✓	✓	✓	✓	✓	✓		**2KJ3438 - ■■■■■ - ■■ E1**
9 409	0.15	8 000	65 000	-	0.50	29506815/3136	✓	✓	✓	✓	✓	✓	✓		**2KJ3438 - ■■■■■ - ■■ D1**
8 856	0.16	8 000	65 000	-	0.59	1735695/196	✓	✓	✓	✓	✓	✓	✓		**2KJ3438 - ■■■■■ - ■■ C1**
7 935	0.18	8 000	65 000	-	0.66	3110405/392	✓	✓	✓	✓	✓	✓	✓		**2KJ3438 - ■■■■■ - ■■ B1**
6 755	0.21	8 000	65 000	-	0.86	756585/112	✓	✓	✓	✓	✓	✓	✓		**2KJ3438 - ■■■■■ - ■■ A1**
FD.149-Z49															
6 608	0.22	8 000	65 000	-	0.18	2590191/392	✓	✓	✓	✓					**2KJ3437 - ■■■■■ - ■■ B2**
6 007	0.24	8 000	65 000	-	0.22	12950955/2156	✓	✓	✓	✓					**2KJ3437 - ■■■■■ - ■■ A2**
5 109	0.28	8 000	65 000	-	0.28	2002725/392	✓	✓	✓	✓					**2KJ3437 - ■■■■■ - ■■ X1**
4 545	0.32	8 000	65 000	-	0.34	10013625/2156	✓	✓	✓	✓					**2KJ3437 - ■■■■■ - ■■ W1**
4 144	0.35	8 000	65 000	-	0.39	3248865/784	✓	✓	✓	✓	✓	✓			**2KJ3437 - ■■■■■ - ■■ V1**
3 716	0.39	8 000	65 000	-	0.47	2002725/539	✓	✓	✓	✓	✓	✓			**2KJ3437 - ■■■■■ - ■■ U1**
3 349	0.43	8 000	65 000	-	0.55	2625795/784	✓	✓	✓	✓	✓	✓			**2KJ3437 - ■■■■■ - ■■ T1**
3 092	0.47	8 000	65 000	-	0.66	7877385/2548	✓	✓	✓	✓	✓	✓			**2KJ3437 - ■■■■■ - ■■ S1**
2 822	0.51	8 000	65 000	-	0.78	3871935/1372	✓	✓	✓	✓	✓	✓	✓		**2KJ3437 - ■■■■■ - ■■ R1**
2 342	0.62	8 000	65 000	-	1.0	7343325/3136	✓	✓	✓	✓	✓	✓	✓		**2KJ3437 - ■■■■■ - ■■ Q1**
2 204	0.66	8 000	65 000	-	1.16	7343325/3332	✓	✓	✓	✓	✓	✓	✓		**2KJ3437 - ■■■■■ - ■■ P1**
2 081	0.70	8 000	65 000	-	1.31	815925/392	✓	✓	✓	✓	✓	✓	✓		**2KJ3437 - ■■■■■ - ■■ N1**
1 771	0.82	8 000	65 000	-	1.62	347139/196	✓	✓	✓	✓	✓	✓	✓		**2KJ3437 - ■■■■■ - ■■ M1**
1 517	0.96	8 000	65 000	-	2.0	133515/88			✓	✓	✓	✓	✓		**2KJ3437 - ■■■■■ - ■■ L1**
1 334	1.1	8 000	65 000	-	2.5	2091735/1568			✓	✓	✓	✓	✓		**2KJ3437 - ■■■■■ - ■■ K1**
1 125	1.3	8 000	65 000	-	3.2	110295/98			✓	✓	✓	✓	✓		**2KJ3437 - ■■■■■ - ■■ J1**
981	1.5	8 000	65 000	-	4.2	240327/245			✓	✓	✓	✓	✓		**2KJ3437 - ■■■■■ - ■■ H1**
968	1.5	8 000	65 000	-	1.81	806058/833	✓	✓	✓	✓	✓	✓	✓		**2KJ3437 - ■■■■■ - ■■ G1**
914	1.6	8 000	65 000	-	2.0	44781/49	✓	✓	✓	✓	✓	✓	✓		**2KJ3437 - ■■■■■ - ■■ F1**
778	1.9	8 000	65 000	-	2.6	952614/1225	✓	✓	✓	✓	✓	✓	✓		**2KJ3437 - ■■■■■ - ■■ E1**
666	2.2	8 000	65 000	-	3.4	36639/55			✓	✓	✓	✓	✓		**2KJ3437 - ■■■■■ - ■■ D1**
586	2.5	8 000	65 000	-	4.3	574011/980			✓	✓	✓	✓	✓		**2KJ3437 - ■■■■■ - ■■ C1**
494	2.9	8 000	65 000	-	5.7	121068/245			✓	✓	✓	✓	✓		**2KJ3437 - ■■■■■ - ■■ B1**
431	3.4	8 000	65 000	-	7.5	2638008/6125			✓	✓	✓	✓	✓		**2KJ3437 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

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Selection and ordering data (continued)

i	n_2	T_{2N}	F_{R2}	φ[1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
FD.169-D69															
29 846	0.05	13 600	73 500	-	0.07	4387328/147	✓	✓	✓	✓					**2KJ3441 - ■■■■■ - ■■ P1**
26 206	0.06	13 600	73 500	-	0.08	1284096/49	✓	✓	✓	✓					**2KJ3441 - ■■■■■ - ■■ N1**
23 824	0.06	13 600	73 500	-	0.10	1167360/49	✓	✓	✓	✓					**2KJ3441 - ■■■■■ - ■■ M1**
20 382	0.07	13 600	73 500	-	0.12	428032/21	✓	✓	✓	✓					**2KJ3441 - ■■■■■ - ■■ L1**
18 530	0.08	13 600	73 500	-	0.15	389120/21	✓	✓	✓	✓					**2KJ3441 - ■■■■■ - ■■ K1**
16 379	0.09	13 600	73 500	-	0.17	802560/49	✓	✓	✓	✓	✓	✓			**2KJ3441 - ■■■■■ - ■■ J1**
14 890	0.10	13 600	73 500	-	0.23	729600/49	✓	✓	✓	✓	✓	✓			**2KJ3441 - ■■■■■ - ■■ H1**
13 042	0.11	13 600	73 500	-	0.26	5751680/441	✓	✓	✓	✓	✓	✓			**2KJ3441 - ■■■■■ - ■■ G1**
12 039	0.12	13 600	73 500	-	0.32	23006720/1911	✓	✓	✓	✓	✓	✓			**2KJ3441 - ■■■■■ - ■■ F1**
10 659	0.14	13 600	73 500	-	0.39	10968320/1029	✓	✓	✓	✓	✓	✓	✓		**2KJ3441 - ■■■■■ - ■■ E1**
8 872	0.16	13 600	73 500	-	0.52	434720/49	✓	✓	✓	✓	✓	✓	✓		**2KJ3441 - ■■■■■ - ■■ D1**
8 350	0.17	13 600	73 500	-	0.61	6955520/833	✓	✓	✓	✓	✓	✓	✓		**2KJ3441 - ■■■■■ - ■■ C1**
7 482	0.19	13 600	73 500	-	0.68	9898240/1323	✓	✓	✓	✓	✓	✓	✓		**2KJ3441 - ■■■■■ - ■■ B1**
6 370	0.23	13 600	73 500	-	0.89	133760/21	✓	✓	✓	✓	✓	✓	✓		**2KJ3441 - ■■■■■ - ■■ A1**
FD.169-Z69															
6 230	0.23	13 600	73 500	-	0.21	5189888/833	✓	✓	✓	✓					**2KJ3440 - ■■■■■ - ■■ A2**
5 664	0.26	13 600	73 500	-	0.26	4718080/833	✓	✓	✓	✓					**2KJ3440 - ■■■■■ - ■■ X1**
4 817	0.30	13 600	73 500	-	0.33	4012800/833	✓	✓	✓	✓					**2KJ3440 - ■■■■■ - ■■ W1**
4 379	0.33	13 600	73 500	-	0.40	3648000/833	✓	✓	✓	✓					**2KJ3440 - ■■■■■ - ■■ V1**
3 907	0.37	13 600	73 500	-	0.47	9764480/2499	✓	✓	✓	✓	✓	✓			**2KJ3440 - ■■■■■ - ■■ U1**
3 503	0.41	13 600	73 500	-	0.57	2918400/833	✓	✓	✓	✓	✓	✓			**2KJ3440 - ■■■■■ - ■■ T1**
3 158	0.46	13 600	73 500	-	0.67	7891840/2499	✓	✓	✓	✓	✓	✓			**2KJ3440 - ■■■■■ - ■■ S1**
2 915	0.50	13 600	73 500	-	0.80	31567360/10829	✓	✓	✓	✓	✓	✓			**2KJ3440 - ■■■■■ - ■■ R1**
2 661	0.54	13 600	73 500	-	0.95	15516160/5831	✓	✓	✓	✓	✓	✓	✓		**2KJ3440 - ■■■■■ - ■■ Q1**
2 208	0.66	13 600	73 500	-	1.25	1839200/833	✓	✓	✓	✓	✓	✓	✓		**2KJ3440 - ■■■■■ - ■■ P1**
2 078	0.70	13 600	73 500	-	1.44	29427200/14161	✓	✓	✓	✓	✓	✓	✓		**2KJ3440 - ■■■■■ - ■■ N1**
1 963	0.74	13 600	73 500	-	1.63	14713600/7497	✓	✓	✓	✓	✓	✓	✓		**2KJ3440 - ■■■■■ - ■■ M1**
1 670	0.87	13 600	73 500	-	2.1	1391104/833	✓	✓	✓	✓	✓	✓	✓		**2KJ3440 - ■■■■■ - ■■ L1**
1 431	1.0	13 600	73 500	-	2.6	24320/17			✓	✓	✓	✓	✓		**2KJ3440 - ■■■■■ - ■■ K1**
1 258	1.2	13 600	73 500	-	3.2	3143360/2499			✓	✓	✓	✓	✓		**2KJ3440 - ■■■■■ - ■■ J1**
1 061	1.4	13 600	73 500	-	4.2	20331520/19159			✓	✓	✓	✓	✓		**2KJ3440 - ■■■■■ - ■■ H1**
925	1.6	13 600	73 500	-	5.7	3852288/4165			✓	✓	✓	✓	✓		**2KJ3440 - ■■■■■ - ■■ G1**
869	1.7	13 600	73 500	-	3.2	21401600/24633			✓	✓	✓	✓	✓		**2KJ3440 - ■■■■■ - ■■ F1**
739	2.0	13 600	73 500	-	4.3	2023424/2737	✓	✓	✓	✓	✓	✓	✓		**2KJ3440 - ■■■■■ - ■■ E1**
633	2.3	13 600	73 500	-	5.6	2723840/4301			✓	✓	✓	✓	✓		**2KJ3440 - ■■■■■ - ■■ D1**
557	2.6	13 600	73 500	-	7.1	4572160/8211			✓	✓	✓	✓	✓		**2KJ3440 - ■■■■■ - ■■ C1**
470	3.1	13 600	73 500	-	9.7	29573120/62951			✓	✓	✓	✓	✓		**2KJ3440 - ■■■■■ - ■■ B1**
409	3.5	13 600	73 500	-	13	5603328/13685			✓	✓	✓	✓	✓		**2KJ3440 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

Selection and ordering data (continued)

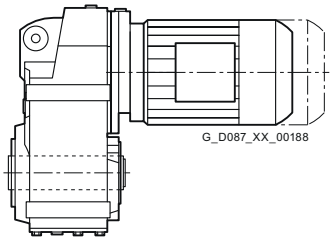
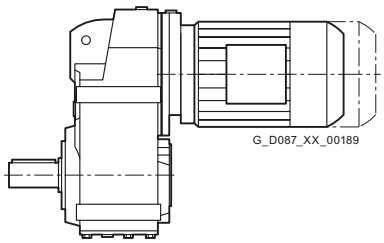
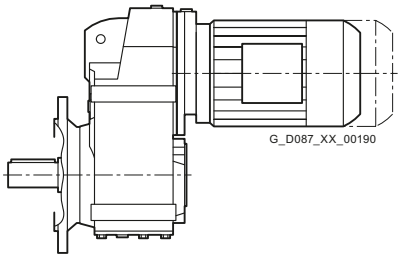
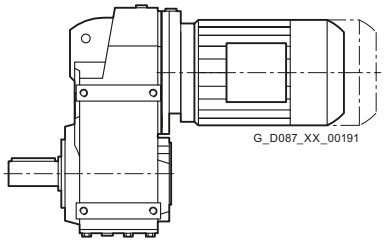
i	n_2	T_{2N}	F_{R2}	φ [1]	J_G	R_{ex}	Motor frame size								Article No.
-	rpm	Nm	N	‘	10^{-4} kgm²	-	63	71	80	90	100	112	132	160	
FD.189-D69															
27 341	0.05	19 000	110 900	-	0.10	2870816/105	✓	✓	✓	✓					**2KJ3443 - ■■■■■ - ■■ M1**
23 392	0.06	19 000	110 900	-	0.12	15789488/675	✓	✓	✓	✓					**2KJ3443 - ■■■■■ - ■■ L1**
21 265	0.07	19 000	110 900	-	0.15	2870816/135	✓	✓	✓	✓					**2KJ3443 - ■■■■■ - ■■ K1**
18 797	0.08	19 000	110 900	-	0.17	1973686/105	✓	✓	✓	✓	✓	✓			**2KJ3443 - ■■■■■ - ■■ J1**
17 088	0.08	19 000	110 900	-	0.23	358852/21	✓	✓	✓	✓	✓	✓			**2KJ3443 - ■■■■■ - ■■ H1**
14 968	0.10	19 000	110 900	-	0.27	42434249/2835	✓	✓	✓	✓	✓	✓			**2KJ3443 - ■■■■■ - ■■ G1**
13 817	0.10	19 000	110 900	-	0.32	13056692/945	✓	✓	✓	✓	✓	✓			**2KJ3443 - ■■■■■ - ■■ F1**
12 233	0.12	19 000	110 900	-	0.39	80921126/6615	✓	✓	✓	✓	✓	✓	✓		**2KJ3443 - ■■■■■ - ■■ E1**
10 182	0.14	19 000	110 900	-	0.53	12828959/1260	✓	✓	✓	✓	✓	✓	✓		**2KJ3443 - ■■■■■ - ■■ D1**
9 583	0.15	19 000	110 900	-	0.62	51315836/5355	✓	✓	✓	✓	✓	✓	✓		**2KJ3443 - ■■■■■ - ■■ C1**
8 586	0.17	19 000	110 900	-	0.69	73026382/8505	✓	✓	✓	✓	✓	✓	✓		**2KJ3443 - ■■■■■ - ■■ B1**
7 310	0.20	19 000	110 900	-	0.90	986843/135	✓	✓	✓	✓	✓	✓	✓		**2KJ3443 - ■■■■■ - ■■ A1**
FD.189-Z69															
7 150	0.20	19 000	110 900	-	0.23	191447542/26775	✓	✓	✓	✓					**2KJ3442 - ■■■■■ - ■■ C2**
6 500	0.22	19 000	110 900	-	0.28	34808644/5355	✓	✓	✓	✓					**2KJ3442 - ■■■■■ - ■■ B2**
5 529	0.26	19 000	110 900	-	0.35	1973686/357	✓	✓	✓	✓					**2KJ3442 - ■■■■■ - ■■ A2**
5 026	0.29	19 000	110 900	-	0.43	1794260/357	✓	✓	✓	✓					**2KJ3442 - ■■■■■ - ■■ X1**
4 484	0.32	19 000	110 900	-	0.51	72039539/16065	✓	✓	✓	✓	✓	✓			**2KJ3442 - ■■■■■ - ■■ W1**
4 021	0.36	19 000	110 900	-	0.62	1435408/357	✓	✓	✓	✓	✓	✓			**2KJ3442 - ■■■■■ - ■■ V1**
3 624	0.40	19 000	110 900	-	0.73	58223737/16065	✓	✓	✓	✓	✓	✓			**2KJ3442 - ■■■■■ - ■■ U1**
3 345	0.43	19 000	110 900	-	0.87	17914996/5355	✓	✓	✓	✓	✓	✓			**2KJ3442 - ■■■■■ - ■■ T1**
3 054	0.47	19 000	110 900	-	1.04	114473788/37485	✓	✓	✓	✓	✓	✓	✓		**2KJ3442 - ■■■■■ - ■■ S1**
2 534	0.57	19 000	110 900	-	1.38	10855273/4284	✓	✓	✓	✓	✓	✓	✓		**2KJ3442 - ■■■■■ - ■■ R1**
2 385	0.61	19 000	110 900	-	1.57	43421092/18207	✓	✓	✓	✓	✓	✓	✓		**2KJ3442 - ■■■■■ - ■■ Q1**
2 252	0.64	19 000	110 900	-	1.78	21710546/9639	✓	✓	✓	✓	✓	✓	✓		**2KJ3442 - ■■■■■ - ■■ P1**
1 917	0.76	19 000	110 900	-	2.3	51315836/26775	✓	✓	✓	✓	✓	✓	✓		**2KJ3442 - ■■■■■ - ■■ N1**
1 642	0.88	19 000	110 900	-	2.9	1255982/765	✓	✓	✓	✓	✓	✓	✓		**2KJ3442 - ■■■■■ - ■■ M1**
1 444	1.0	19 000	110 900	-	3.6	46381621/32130			✓	✓	✓	✓	✓		**2KJ3442 - ■■■■■ - ■■ L1**
1 218	1.2	19 000	110 900	-	4.8	150000136/123165			✓	✓	✓	✓	✓		**2KJ3442 - ■■■■■ - ■■ K1**
1 061	1.4	19 000	110 900	-	6.4	15789488/14875			✓	✓	✓	✓	✓		**2KJ3442 - ■■■■■ - ■■ J1**
997	1.5	19 000	110 900	-	4.0	31578976/31671			✓	✓	✓	✓	✓		**2KJ3442 - ■■■■■ - ■■ H1**
848	1.7	19 000	110 900	-	5.4	74641216/87975	✓	✓	✓	✓	✓	✓	✓		**2KJ3442 - ■■■■■ - ■■ G1**
727	2.0	19 000	110 900	-	7.1	140669984/193545	✓	✓	✓	✓	✓	✓	✓		**2KJ3442 - ■■■■■ - ■■ F1**
639	2.3	19 000	110 900	-	9.1	33732088/52785			✓	✓	✓	✓	✓		**2KJ3442 - ■■■■■ - ■■ E1**
539	2.7	19 000	110 900	-	12	218182016/404685			✓	✓	✓	✓	✓		**2KJ3442 - ■■■■■ - ■■ D1**
478	3.0	19 000	110 900	-	12	8403976/17595			✓	✓	✓	✓	✓		**2KJ3442 - ■■■■■ - ■■ C1**
403	3.6	19 000	110 900	-	16	54357632/134895			✓	✓	✓	✓	✓		**2KJ3442 - ■■■■■ - ■■ B1**
351	4.1	19 000	110 900	-	21	17165568/48875			✓	✓	✓	✓	✓		**2KJ3442 - ■■■■■ - ■■ A1**

[1] Only in conjunction with reduced-backlash version

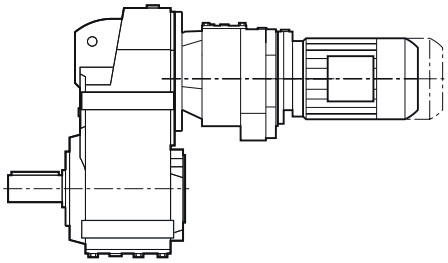
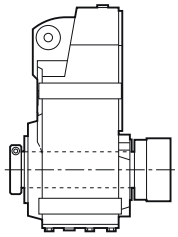
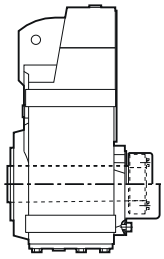
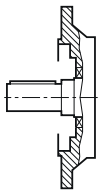
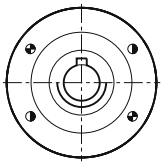
4

Dimensional drawing overview

Information about dimensional drawings can be found in chapter Introduction on page 1/21.

Design	Size	Dimensional drawing on page
Shaft-mounted design		
 G_D087_XX_00188	FDAD./FZAD.29	4/74
	FDAD./FZAD.39	4/78
	FDAD./FZAD.49	4/82
	FDAD./FZAD.69	4/86
	FDAD./FZAD.79	4/90
	FDAD./FZAD.89	4/94
	FDAD./FZAD.109	4/98
	FDAD./FZAD.129	4/102
	FDAD./FZAD.149	4/106
	FDAD./FZAD.169	4/110
	FDAD./FZAD.189	4/114
Housing flange design		
 G_D087_XX_00189	FD.Z./FZ.Z.29	4/75
	FD.Z./FZ.Z.39	4/79
	FD.Z./FZ.Z.49	4/83
	FD.Z./FZ.Z.69	4/87
	FD.Z./FZ.Z.79	4/91
	FD.Z./FZ.Z.89	4/95
	FD.Z./FZ.Z.109	4/99
	FD.Z./FZ.Z.129	4/103
	FD.Z./FZ.Z.149	4/107
	FD.Z./FZ.Z.169	4/111
	FD.Z./FZ.Z.189	4/115
Flange-mounted design		
 G_D087_XX_00190	FD.F./FZ.F.29	4/76
	FD.F./FZ.F.39	4/80
	FD.F./FZ.F.49	4/84
	FD.F./FZ.F.69	4/88
	FD.F./FZ.F.79	4/92
	FD.F./FZ.F.89	4/96
	FD.F./FZ.F.109	4/100
	FD.F./FZ.F.129	4/104
	FD.F./FZ.F.149	4/108
	FD.F./FZ.F.169	4/112
	FD.F./FZ.F.189	4/116
Foot-mounted design		
 G_D087_XX_00191	FD../FZ..29	4/77
	FD../FZ..39	4/81
	FD../FZ..49	4/85
	FD../FZ..69	4/89
	FD../FZ..79	4/93
	FD../FZ..89	4/97
	FD../FZ..109	4/101
	FD../FZ..129	4/105
	FD../FZ..149	4/109
	FD../FZ..169	4/113
	FD../FZ..189	4/117

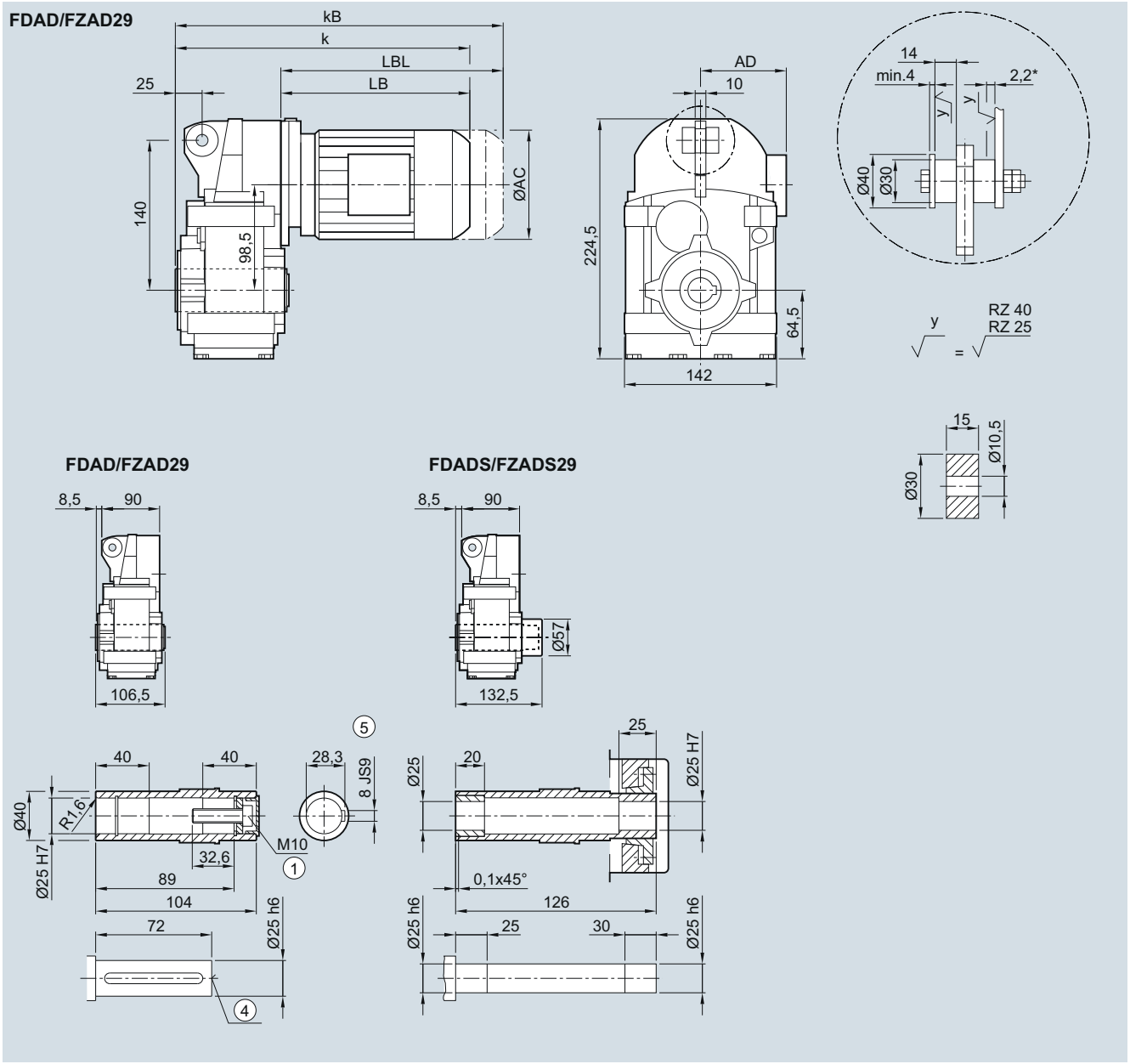
Dimensional drawing overview (continued)

Design	Size	Dimensional drawing on page
Parallel shaft tandem geared motor		
	FD../FZ..29-D/Z19 ... FD..189-D/Z69	4/118 ... 4/119
Additional versions and options		
SIMOLOC assembly system		
	FDADR/FZADR29 ... FDADR/FZADR89	4/120
Protection covers		
	FD../FZ..29 ... FD../FZ..189	4/121 ... 4/122
Inner contour of the flange design		
	FDF/FZF.29 ... FDF/FZF.189 FDAF/FZAF.29 ... FDAF/FZAF.189	4/123
Pin holes		
	F.Z.109 and F.Z.129	4/124

4

FDAD./FZAD.29 gearbox in a shaft-mounted design

FAD030, FADS030



Motor	LA			LE					
	63	71	71Z	80	80Z	90[2]	90Z[2]	100[2]	100Z[2]
AC	117.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0
AD[1]	124.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5
k	292.5	324.5	343.5	388.5	423.5	450.0	490.0	506.5	541.5
kB	337.0	379.5	398.5	448.5	483.5	520.0	560.0	585.0	620.0
LB	194.0	226.0	245.0	290.0	325.0	351.5	391.5	408.0	443.0
LBL	238.5	281.0	300.0	350.0	385.0	421.5	461.5	486.5	521.5

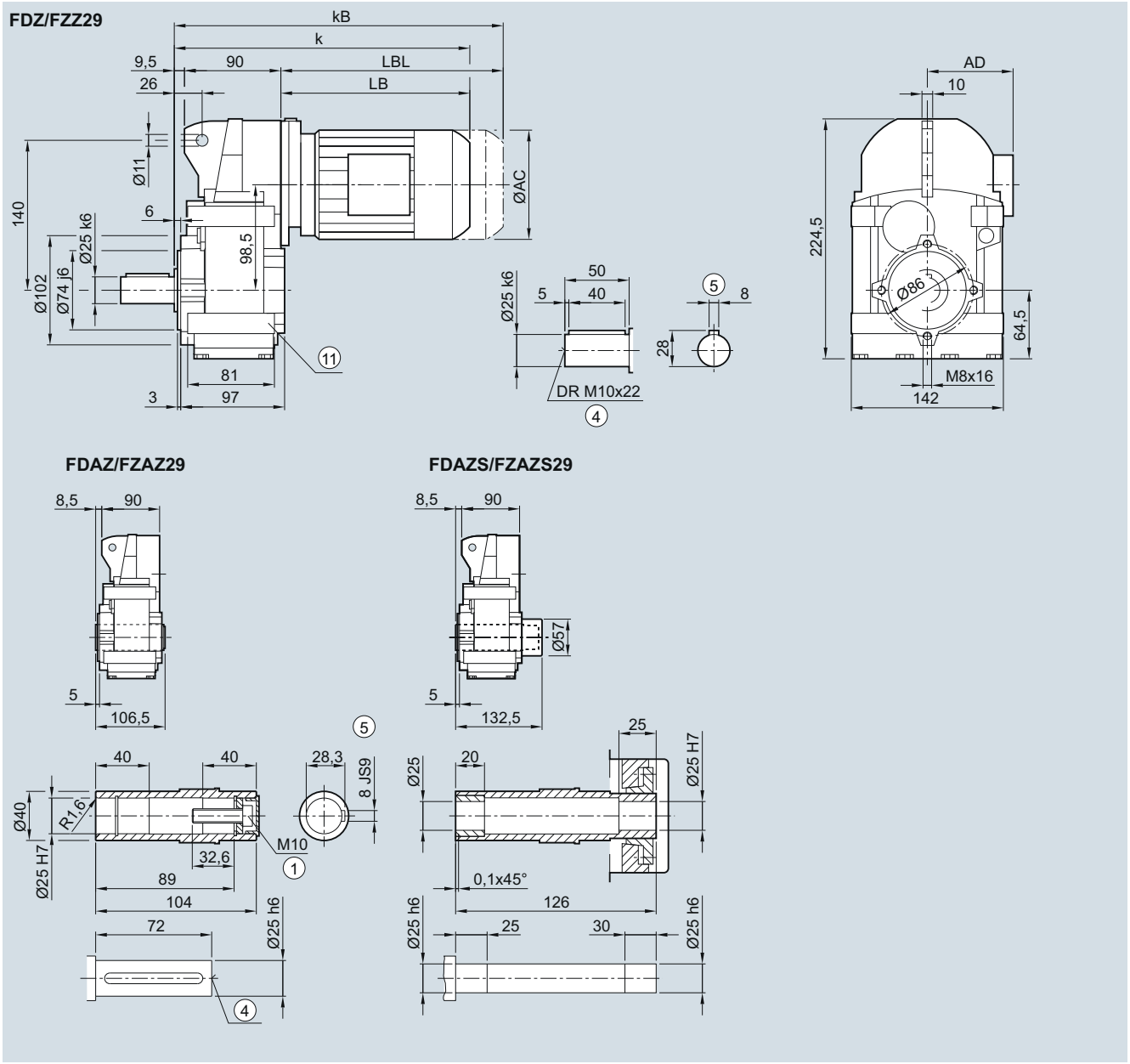
① ISO 4017 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 * Spring compression at max. torque

1) AD depends on the motor options, for other dimensions see page 8/36.

2) FDADS/FZADS not possible

FD.Z./FZ.Z.29 gearbox in a housing flange design

FZ030, FAZ030, FAZS030



Motor	LA			LE					
	63	71	71Z	80	80Z	90[2]	90Z[2]	100[2]	100Z[2]
AC	117.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0
AD[1]	124.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5
k	293.5	325.5	344.5	389.5	424.5	451.0	491.0	507.5	542.5
kB	338.0	380.5	399.5	449.5	484.5	521.0	561.0	586.0	621.0
LB	194.0	226.0	245.0	290.0	325.0	351.5	391.5	408.0	443.0
LBL	238.5	281.0	300.0	350.0	385.0	421.5	461.5	486.5	521.5

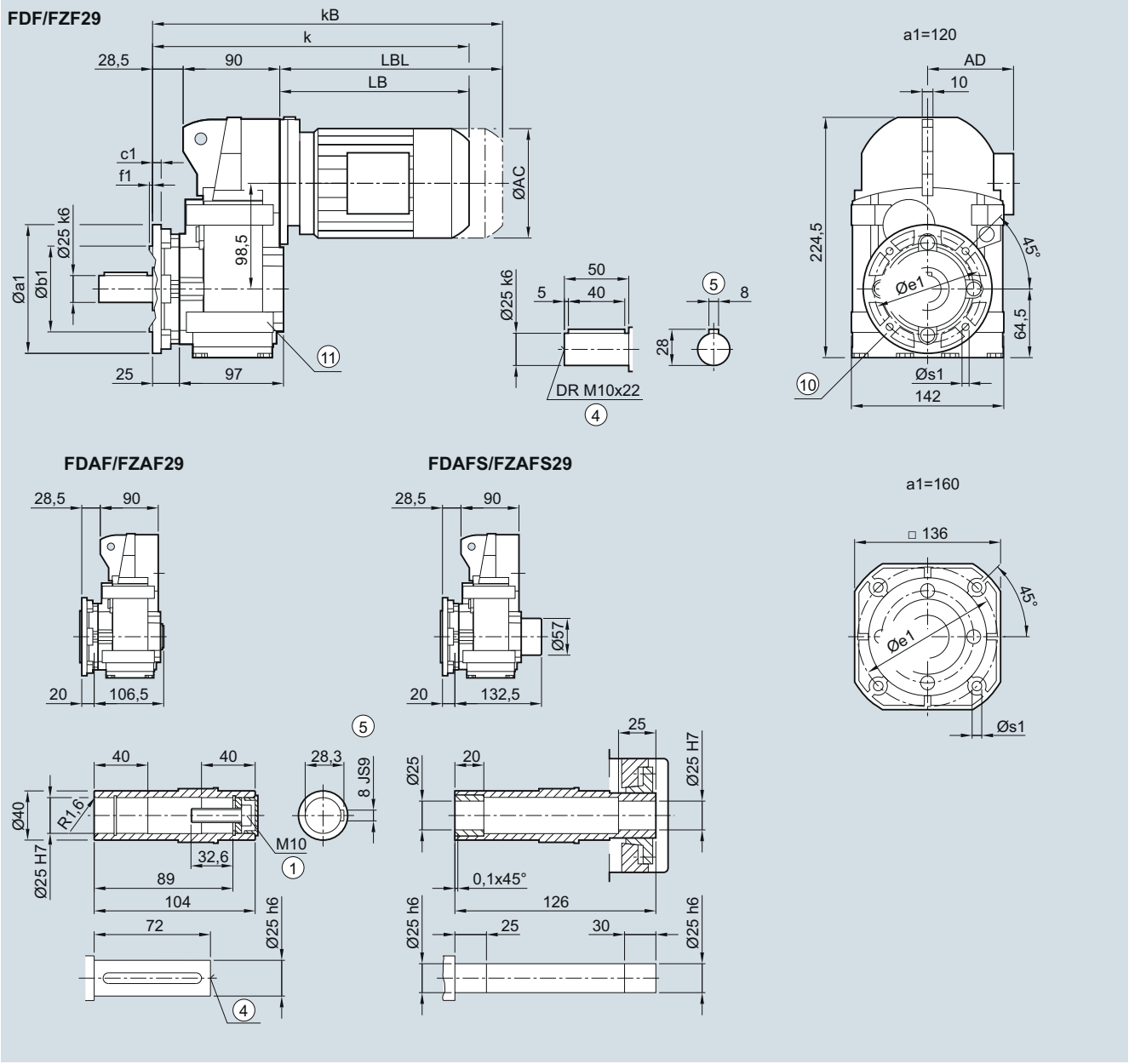
① ISO 4017 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑪ Use bores only for foot-mounted design

1) AD depends on the motor options, for other dimensions see page 8/36.

2) FDADS/FZADS not possible

FD.F./FZ.F.29 gearbox in a flange-mounted design

FF030, FAF030, FAFS030



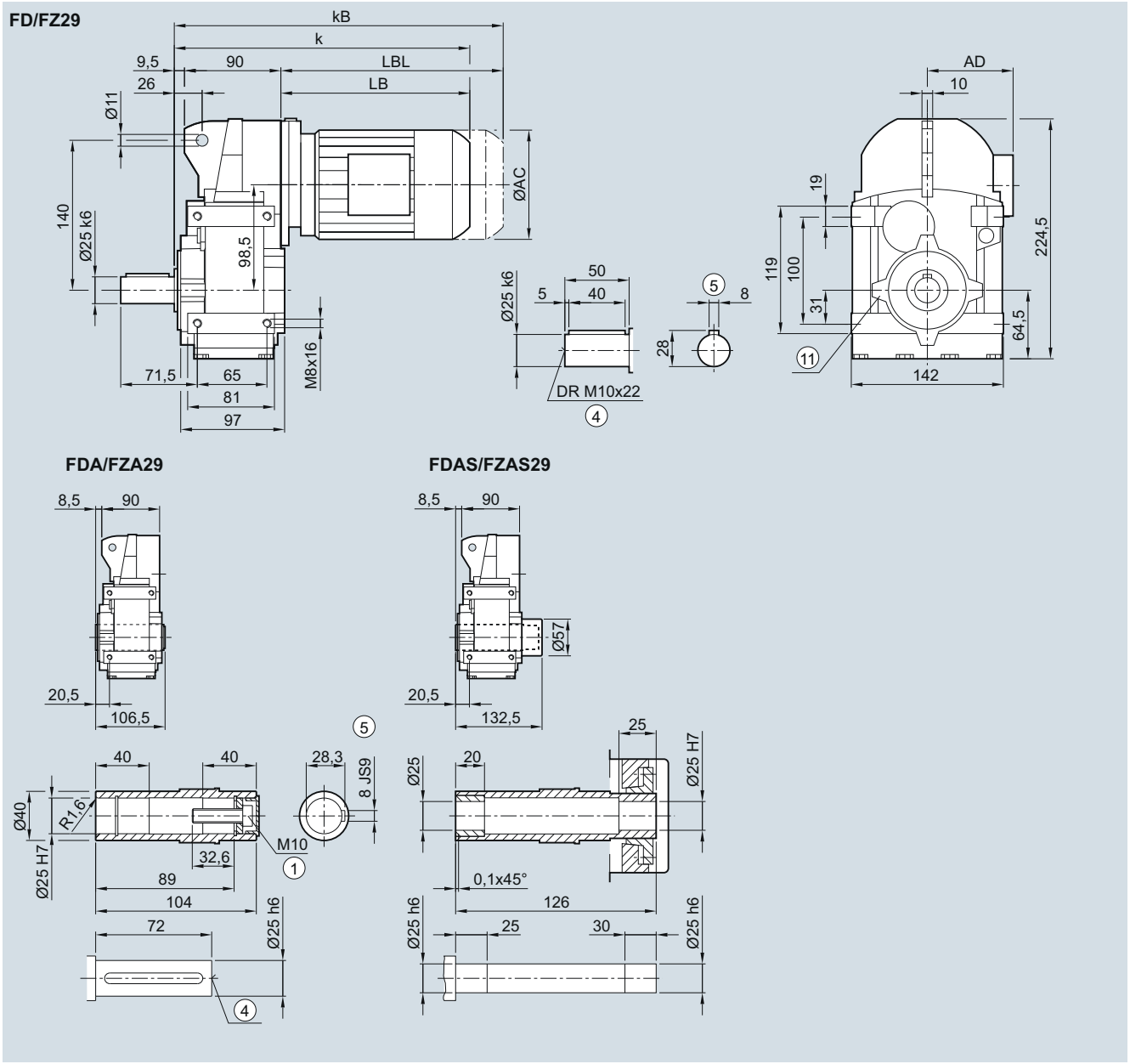
Flange	a1	b1	c1	f1	e1	s1
	120	80	8	3.0	100	6.6
	160	110	9	3.5	130	9.0

Motor	LA			LE					
	63	71	71Z	80	80Z	90[2)]	90Z[2)]	100[2)]	100Z[2)]
AC	117.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0
AD[1)]	124.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5
k	312.5	344.5	363.5	408.5	443.5	470.0	510.0	526.5	561.5
kB	357.0	399.5	418.5	468.5	503.5	540.0	580.0	605.0	640.0
LB	194.0	226.0	245.0	290.0	325.0	351.5	391.5	408.0	443.0
LBL	238.5	281.0	300.0	350.0	385.0	421.5	461.5	486.5	521.5

① ISO 4017 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑩ For inner contour see page 4/123
[1)] AD depends on the motor options, for other dimensions see page 8/36. [2)] FDADS/FZADS not possible ⑪ Use bores only for foot-mounted design

FD../FZ..29 gearbox in a foot-mounted design

F030, FA030, FAS030



Motor	LA			LE					
	63	71	71Z	80	80Z	90[2]	90Z[2]	100[2]	100Z[2]
AC	117.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0
AD[1]	124.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5
k	293.5	325.5	344.5	389.5	424.5	451.0	491.0	507.5	542.5
kB	338.0	380.5	399.5	449.5	484.5	521.0	561.0	586.0	621.0
LB	194.0	226.0	245.0	290.0	325.0	351.5	391.5	408.0	443.0
LBL	238.5	281.0	300.0	350.0	385.0	421.5	461.5	486.5	521.5

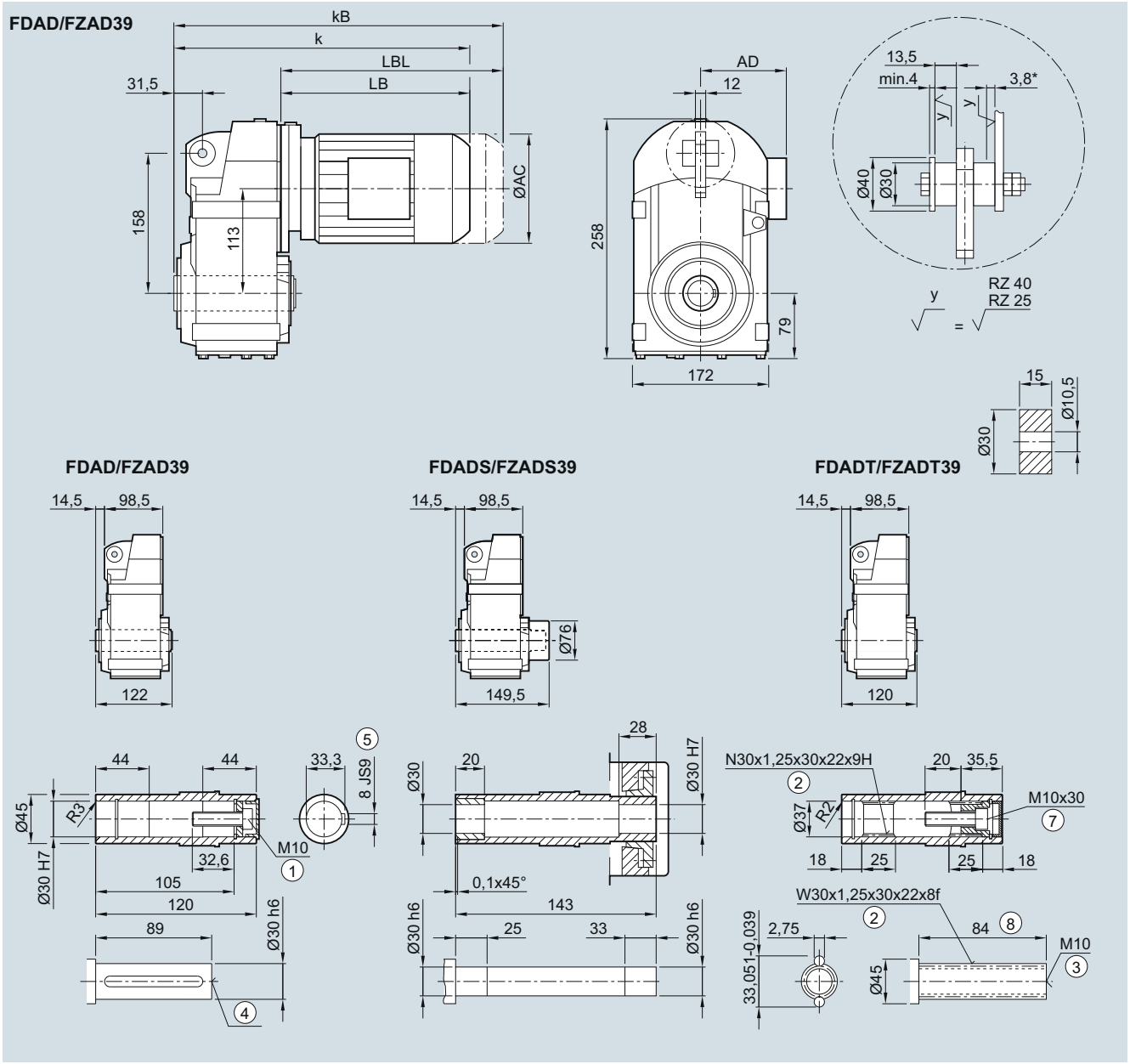
① ISO 4017 ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑪ Use bores only for housing flange design

1) AD depends on the motor options, for other dimensions see page 8/36.

2) FDADS/FZADS not possible

FDAD./FZAD.39 gearbox in a shaft-mounted design

FAD030, FADS030, FADT030

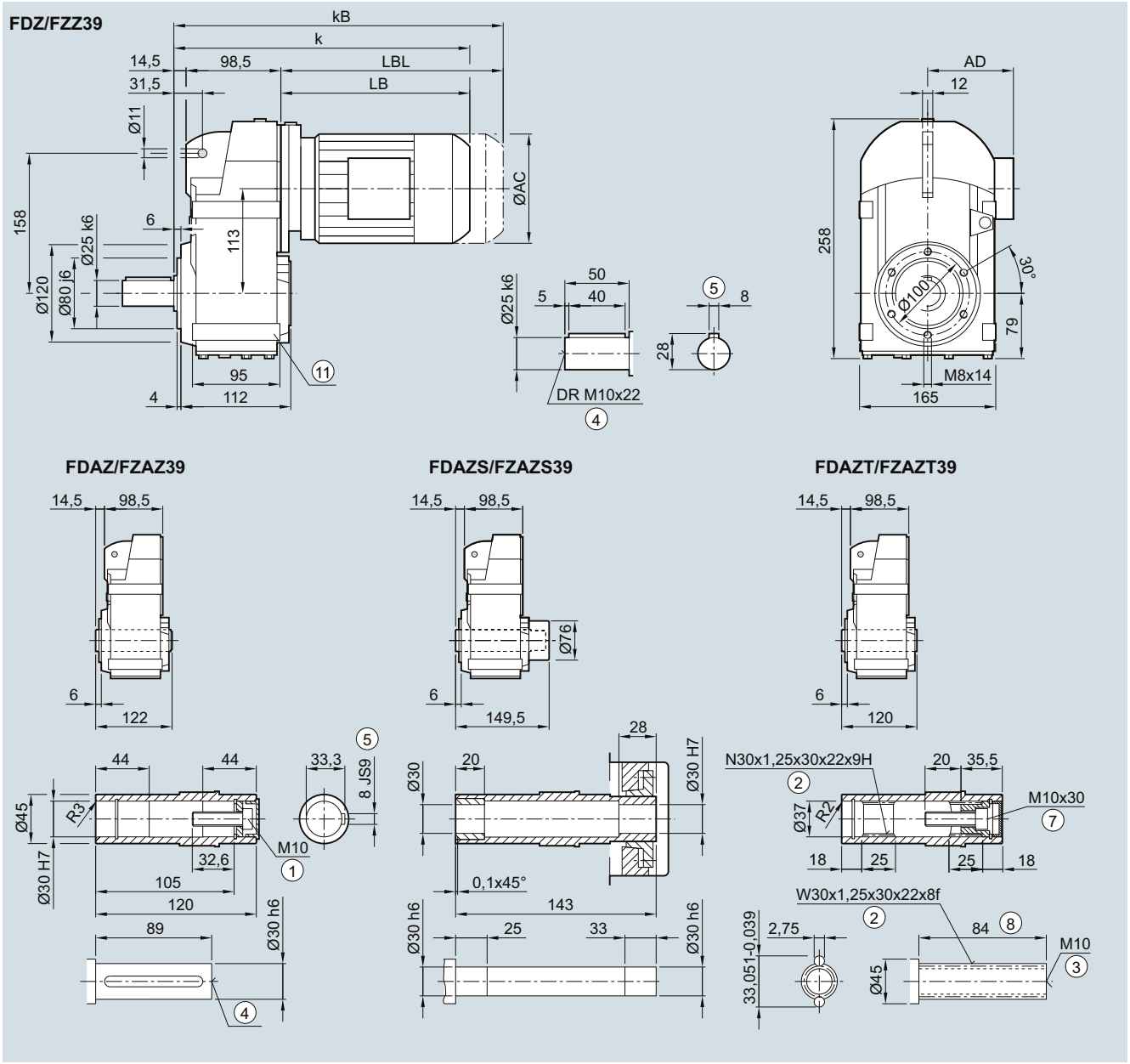


Motor	LA 63	71	71Z	LE 80	80Z	90S	90Z	100[2]	100Z[2]	112[2]	112Z[2]
AC	117.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0
AD[1]	124.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5
k	307.0	339.0	358.0	403.0	438.0	464.5	504.5	521.0	556.0	531.0	556.0
kB	351.5	394.0	413.0	463.0	498.0	534.5	574.5	599.5	634.5	604.0	629.0
LB	194.0	226.0	245.0	290.0	325.0	351.5	391.5	408.0	443.0	418.0	443.0
LBL	238.5	281.0	300.0	350.0	385.0	421.5	461.5	486.5	521.5	491.0	516.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
[1] AD depends on the motor options, for other dimensions see page 8/36. [2] FDADS/FZADS not possible * Spring compression at max. torque

FD.Z./FZ.Z.39 gearbox in a housing flange design

FZ030, FAZ030, FAZS030, FAZT030



Motor	LA 63	71	71Z	LE 80	80Z	90	90Z	100[2]	100Z[2]	112[2]	112Z[2]
AC	117.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0
AD[1]	124.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5
k	307.0	339.0	358.0	403.0	438.0	464.5	504.5	521.0	556.0	531.0	556.0
kB	351.5	394.0	413.0	463.0	498.0	534.5	574.5	599.5	634.5	604.0	629.0
LB	194.0	226.0	245.0	290.0	325.0	351.5	391.5	408.0	443.0	418.0	443.0
LBL	238.5	281.0	300.0	350.0	385.0	421.5	461.5	486.5	521.5	491.0	516.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for foot-mounted design

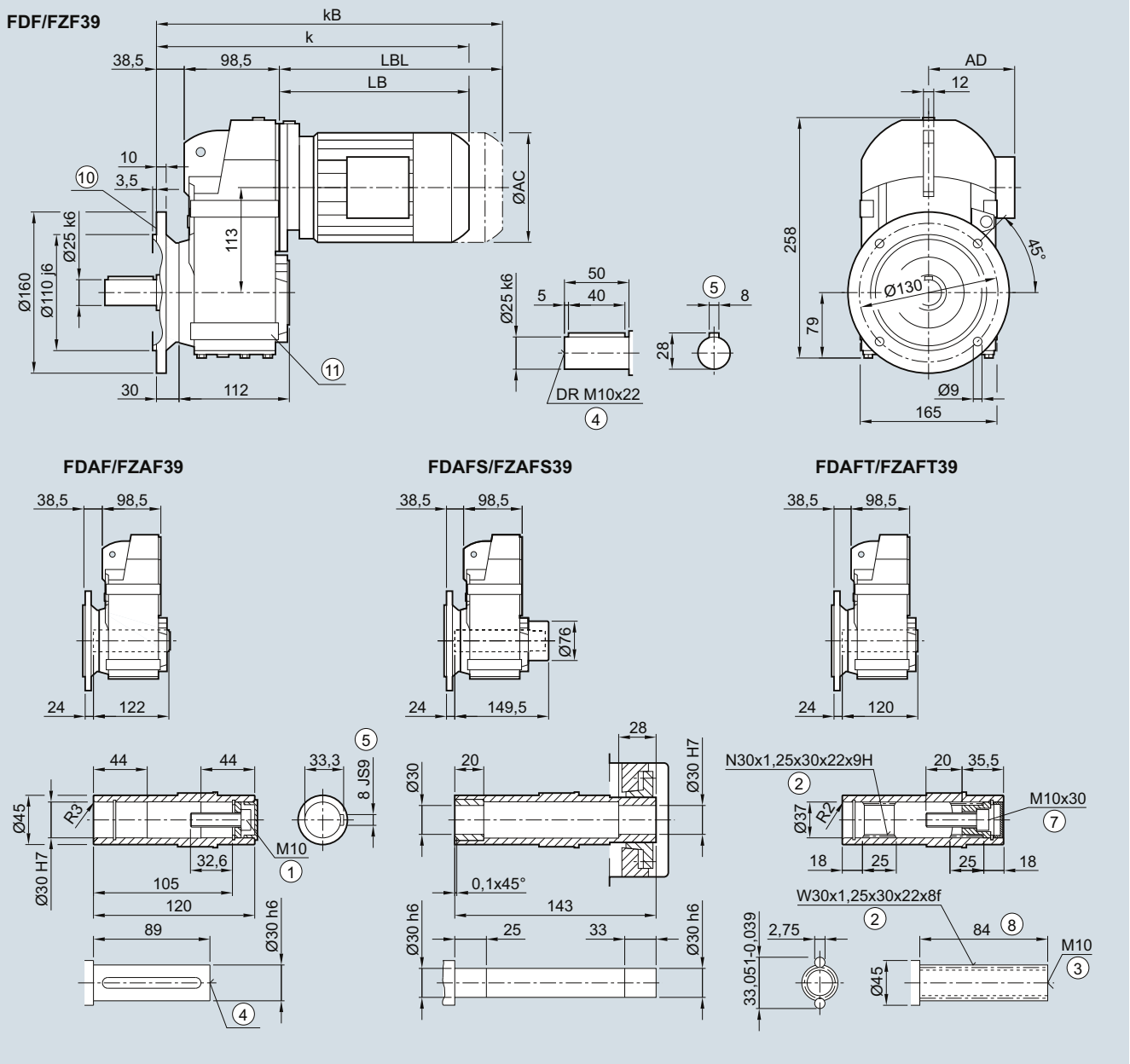
1) AD depends on the motor options, for other dimensions see page 8/36.

2) FDADS/FZADS not possible

4

FD.F./FZ.F.39 in a flange-mounted design

FF030, FAF030, FAFS030, FAFT030

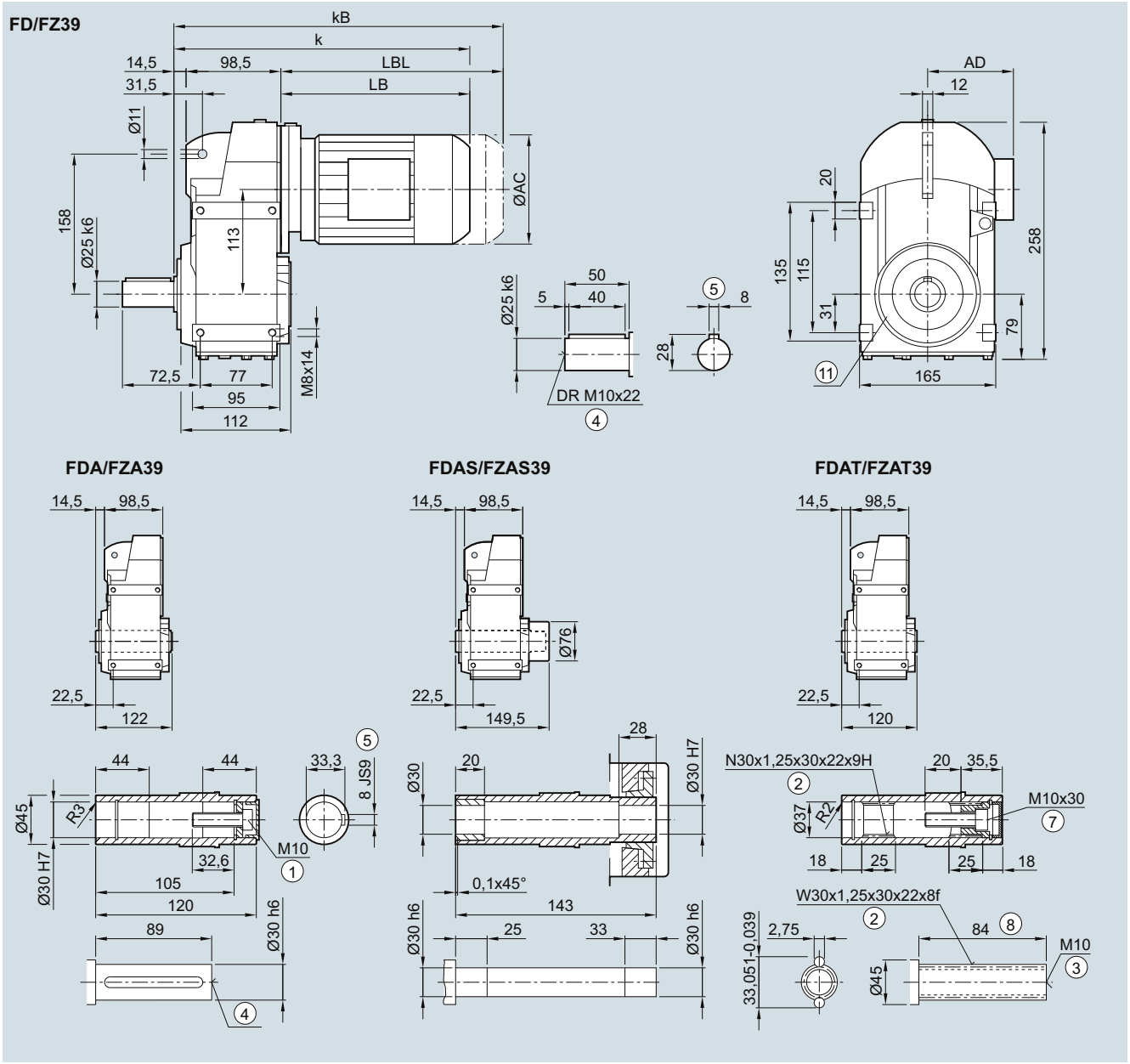


Motor	LA 63	71	71Z	LE 80	80Z	90	90Z	100[2]	100Z[2]	112[2]	112Z[2]
AC	117.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0
AD[1]	124.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5
k	331.0	363.0	382.0	427.0	462.0	488.5	528.5	545.0	580.0	555.0	580.0
kB	375.5	418.0	437.0	487.0	522.0	558.5	598.5	623.5	658.5	628.0	653.0
LB	194.0	226.0	245.0	290.0	325.0	351.5	391.5	408.0	443.0	418.0	443.0
LBL	238.5	281.0	300.0	350.0	385.0	421.5	461.5	486.5	521.5	491.0	516.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑩ For inner contour see page 4/123 ⑪ Use bores only for foot-mounted design
[1] AD depends on the motor options, for other dimensions see page 8/36. [2] FADAFS/FZAFS not possible

FD../FZ..39 gearbox in a foot-mounted design

F030, FA030, FAS030, FAT030



Motor	LA 63	71	71Z	LE 80	80Z	90	90Z	100[2]	100Z[2]	112[2]	112Z[2]
AC	117.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0
AD[1]	124.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5
k	307.0	339.0	358.0	403.0	438.0	464.5	504.5	521.0	556.0	531.0	556.0
kB	351.5	394.0	413.0	463.0	498.0	534.5	574.5	599.5	634.5	604.0	629.0
LB	194.0	226.0	245.0	290.0	325.0	351.5	391.5	408.0	443.0	418.0	443.0
LBL	238.5	281.0	300.0	350.0	385.0	421.5	461.5	486.5	521.5	491.0	516.0

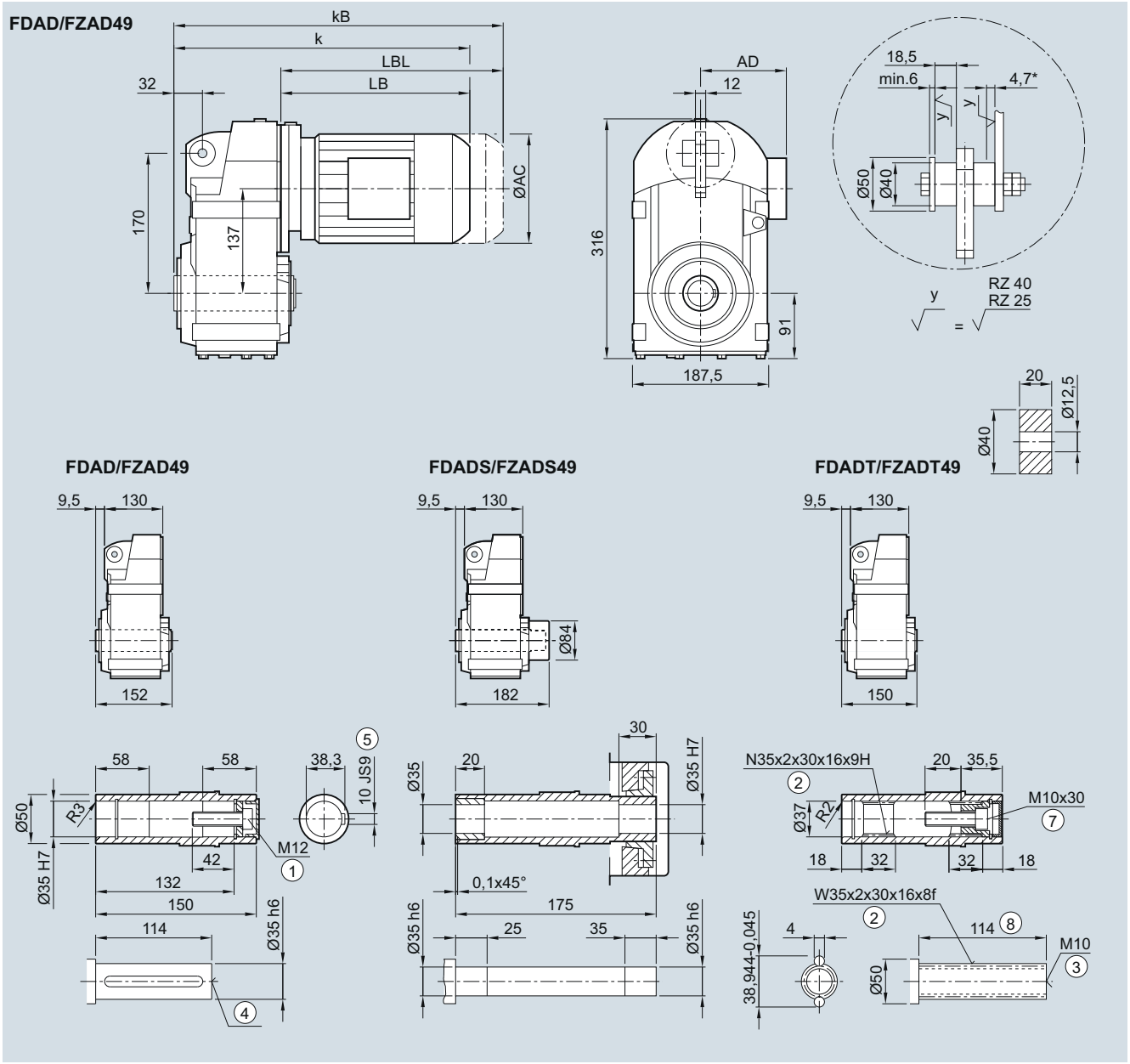
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for housing flange design

[1] AD depends on the motor options, for other dimensions see page 8/36.

[2] FDAS/FZAS not possible

FDAD./FZAD.49 gearbox in a shaft-mounted design

FAD030, FADS030, FADT030



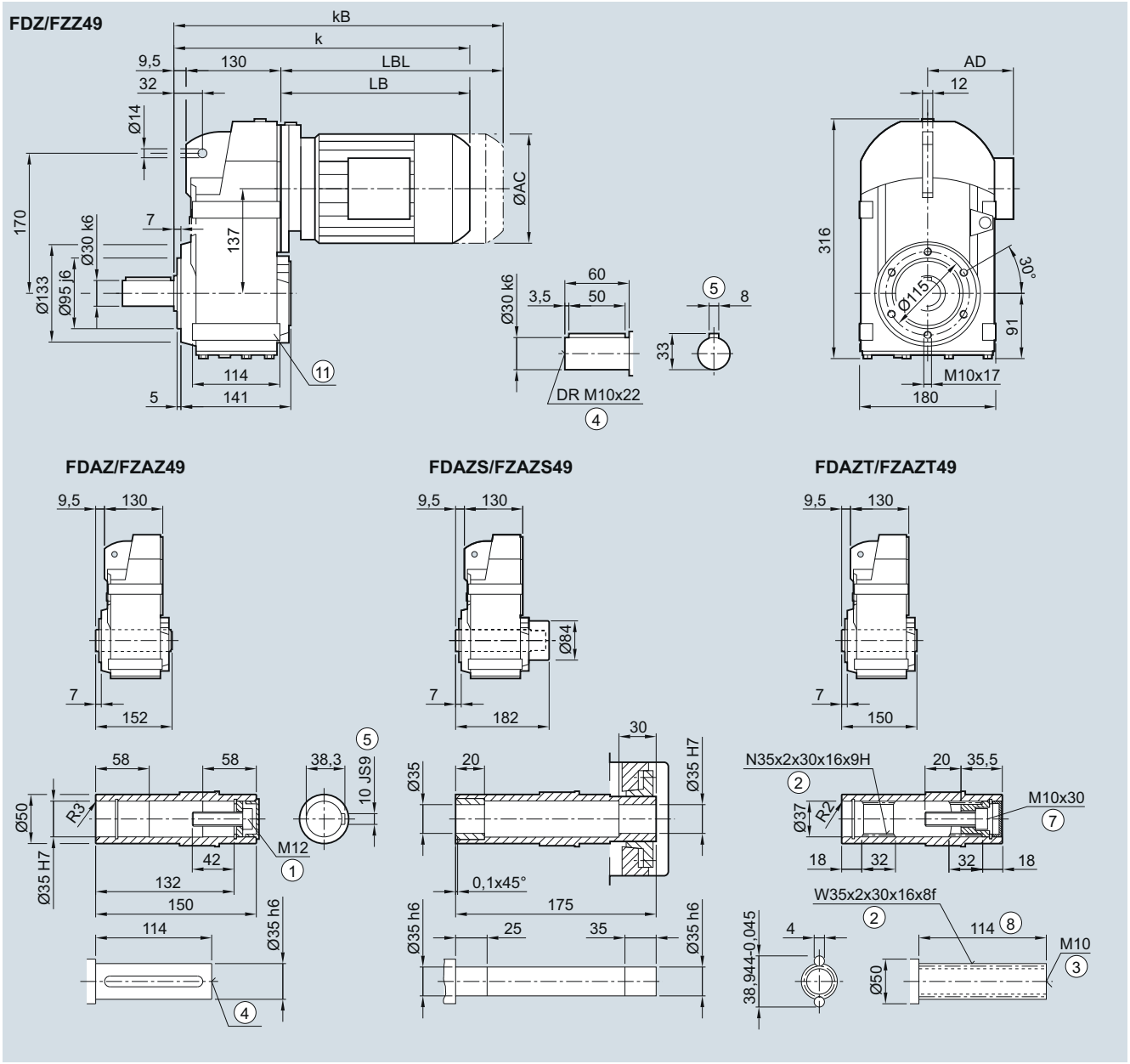
Motor	LA			LE									
	63	71	71Z	80	80Z	90	90Z	100	100Z	112[2)]	112Z[2)]	132[2)]	132Z[2)]
AC	117.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0
AD[1)]	124.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0
k	324.0	356.0	375.0	420.0	455.0	481.5	521.5	538.0	573.0	548.0	582.5	601.0	651.0
kB	368.5	411.0	430.0	480.0	515.0	551.5	591.5	616.5	651.5	621.0	655.5	705.5	755.5
LB	184.5	216.5	235.5	280.5	315.5	342.0	382.0	398.5	433.5	408.5	443.0	461.5	511.5
LBL	229.0	271.5	290.5	340.5	375.5	412.0	452.0	477.0	512.0	481.5	516.0	566.0	616.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm

[1)] AD depends on the motor options, for other dimensions see page 8/36. [2)] FDADS/FZADS not possible * Spring compression at max. torque

FD.Z./FZ.Z.49 gearbox in a housing flange design

FZ030, FAZ030, FAZS030, FAZT030



Motor	LA 63	71	71Z	LE 80	80Z	90	90Z	100	100Z	112[2)]	112Z[2)]	132[2)]	132Z[2)]
AC	117.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0
AD[1)]	124.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0
k	324.0	356.0	375.0	420.0	455.0	481.5	521.5	538.0	573.0	548.0	582.5	601.0	651.0
kB	368.5	411.0	430.0	480.0	515.0	551.5	591.5	616.5	651.5	621.0	655.5	705.5	755.5
LB	184.5	216.5	235.5	280.5	315.5	342.0	382.0	398.5	433.5	408.5	443.0	461.5	511.5
LBL	229.0	271.5	290.5	340.5	375.5	412.0	452.0	477.0	512.0	481.5	516.0	566.0	616.0

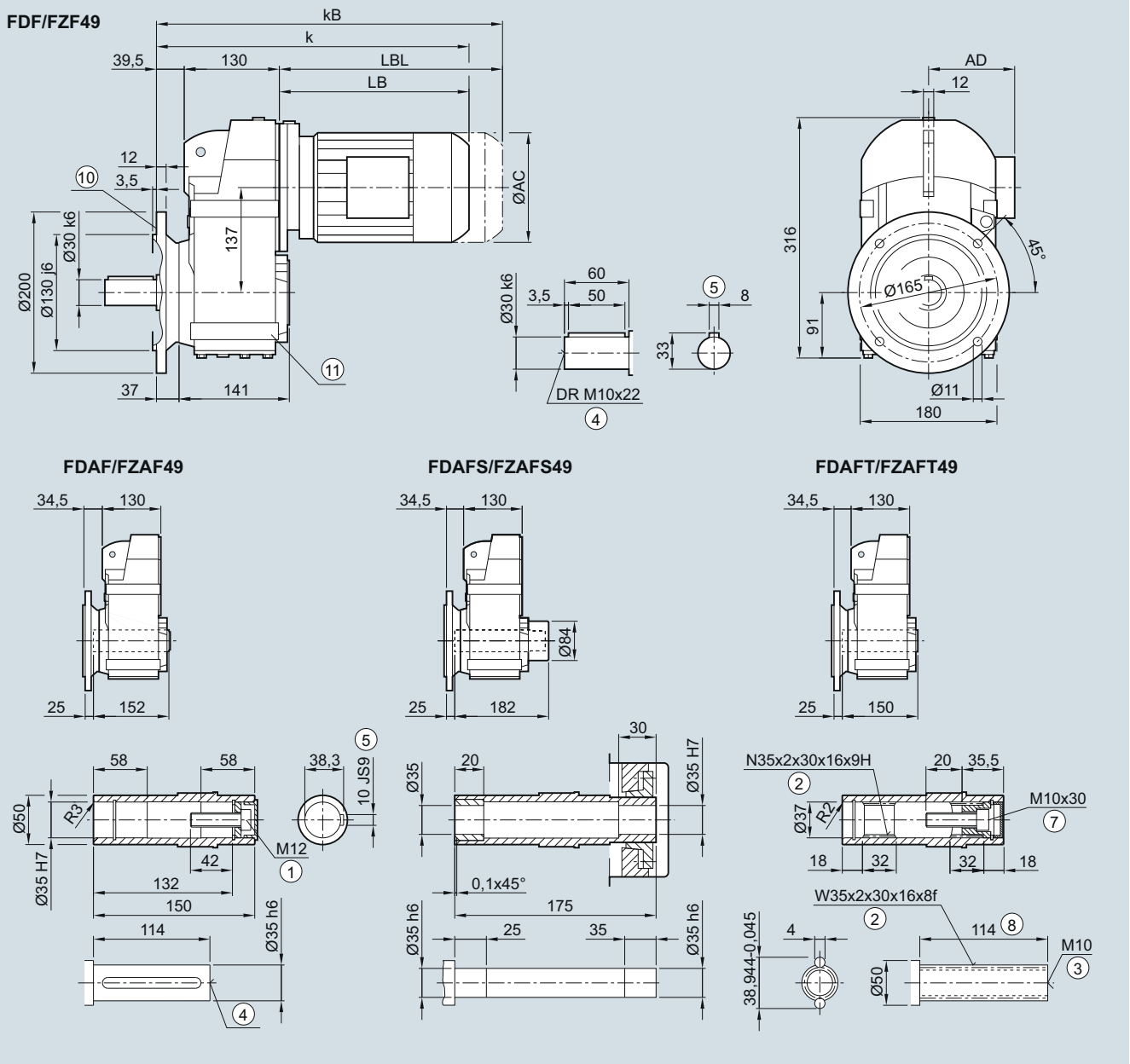
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for foot-mounted design

1) AD depends on the motor options, for other dimensions see page 8/36.

2) FDAZS/FZAZS not possible

FD.F./FZ.F.49 gearbox in a flange-mounted design

FF030, FAF030, FAFS030, FAFT030

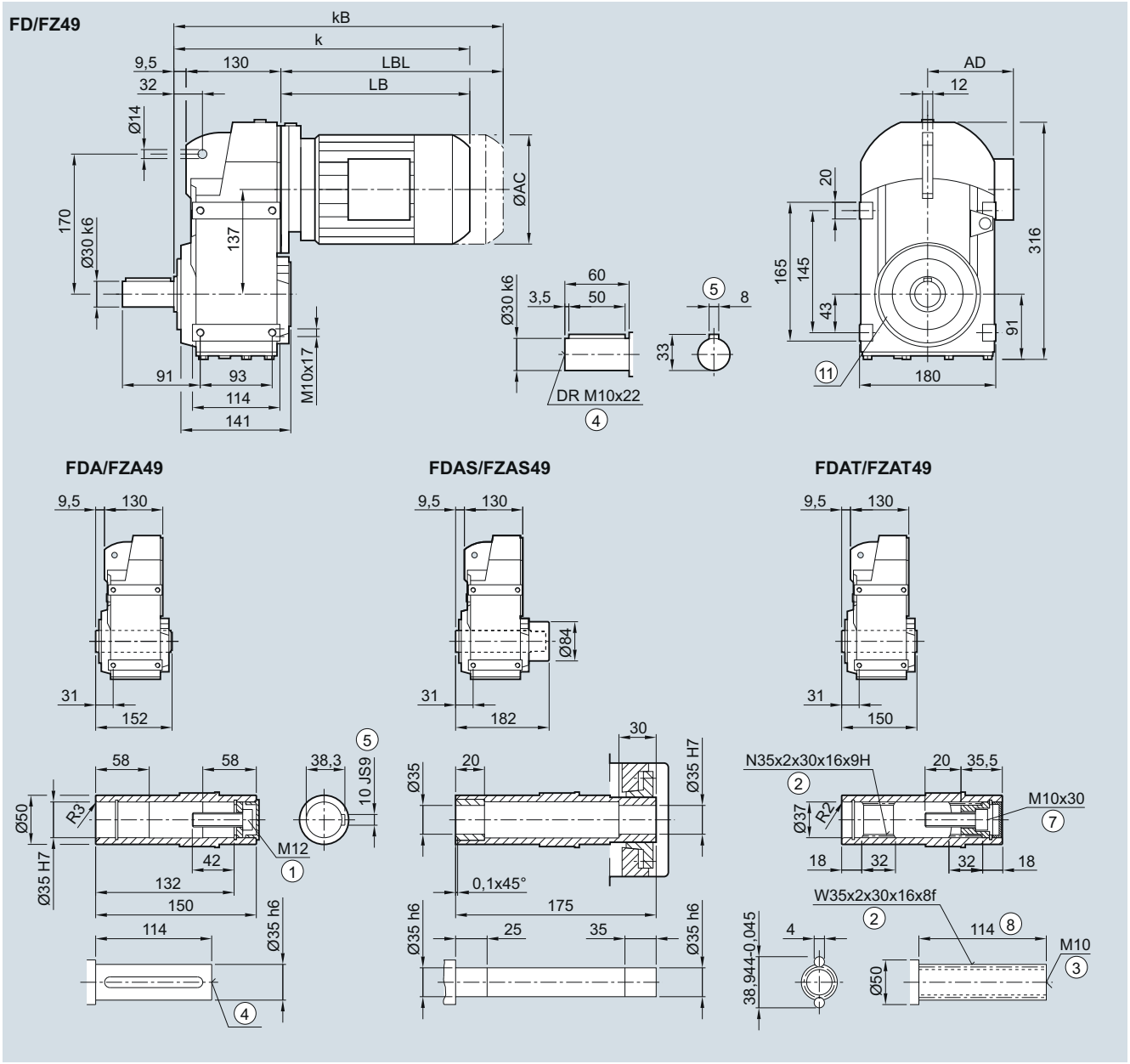


Motor	LA 63	71	71Z	LE 80	80Z	90	90Z	100	100Z	112[2)]	112Z[2)]	132[2)]	132Z[2)]
AC	117.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0
AD[1)]	124.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0
k	354.0	386.0	394.0	450.0	485.0	511.5	551.5	568.0	603.0	578.0	612.5	631.0	681.0
kB	398.5	441.0	460.0	510.0	545.0	581.5	621.5	646.5	681.5	651.0	685.5	735.5	785.5
LB	184.5	216.5	235.5	280.5	315.5	342.0	382.0	398.5	433.5	408.5	443.0	461.5	511.5
LBL	229.0	271.5	290.5	340.5	375.5	412.0	452.0	477.0	512.0	481.5	516.0	566.0	616.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑩ For inner contour see page 4/123 ⑪ Use bores only for foot-mounted design
1) AD depends on the motor options, for other dimensions see page 8/36. 2) FADAFS/FZAFS not possible

FD../FZ..49 gearbox in a foot-mounted design

F030, FA030, FAS030, FAT030



Motor	LA 63	71	71Z	LE 80	80Z	90	90Z	100	100Z	112[2)]	112Z[2)]	132[2)]	132Z[2)]
AC	117.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0
AD[1)]	124.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0
k	324.0	356.0	375.0	420.0	455.0	481.5	521.5	538.0	573.0	548.0	582.5	601.0	651.0
kB	368.5	411.0	430.0	480.0	515.0	551.5	591.5	616.5	651.5	621.0	655.5	705.5	755.5
LB	184.5	216.5	235.5	280.5	315.5	342.0	382.0	398.5	433.5	408.5	443.0	461.5	511.5
LBL	229.0	271.5	290.5	340.5	375.5	412.0	452.0	477.0	512.0	481.5	516.0	566.0	616.0

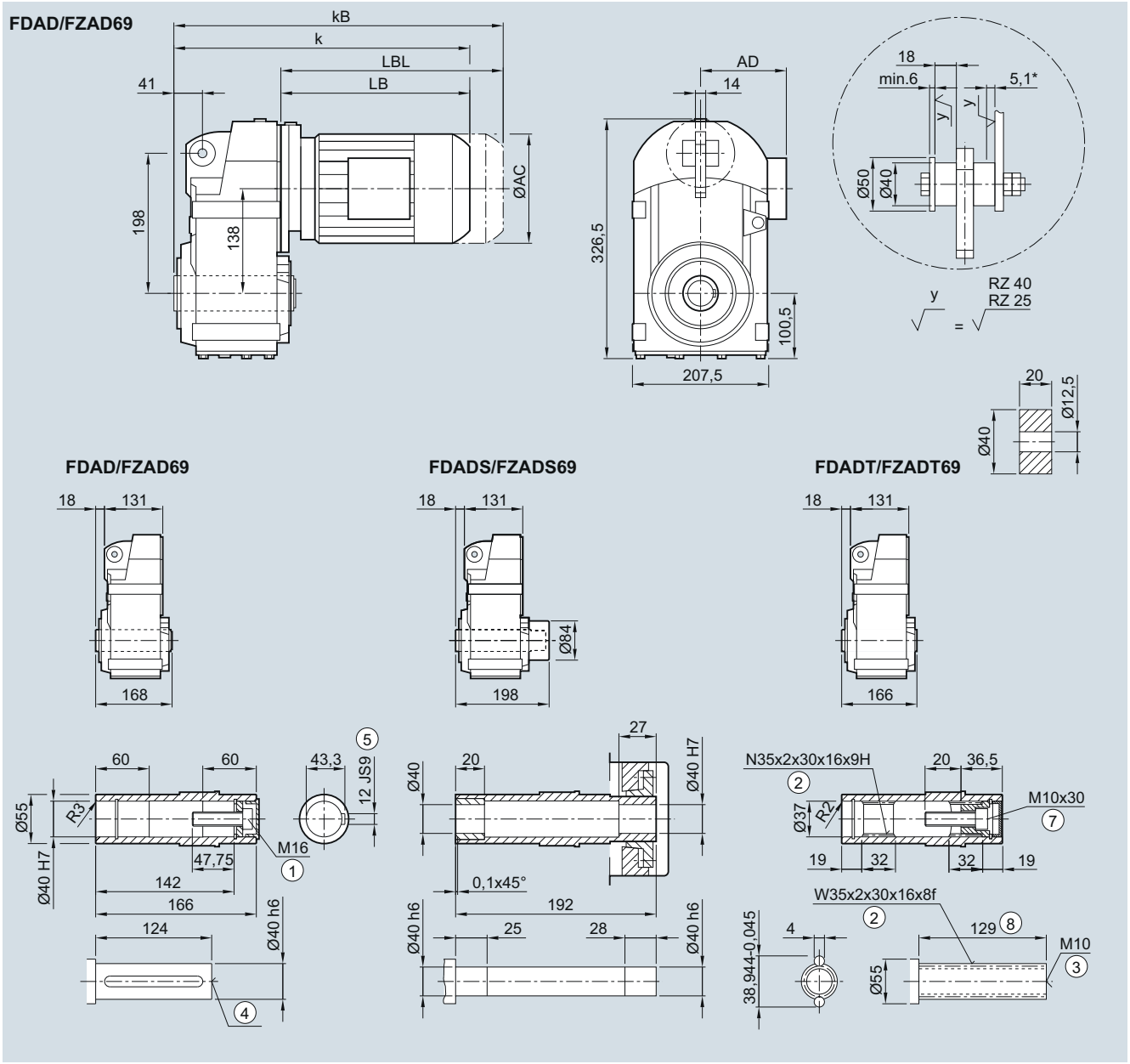
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for housing flange design

1) AD depends on the motor options, for other dimensions see page 8/36.

2) FDAS/FZAS not possible

FDAD./FZAD.69 gearbox in a shaft-mounted design

FAD030, FADS030, FADT030

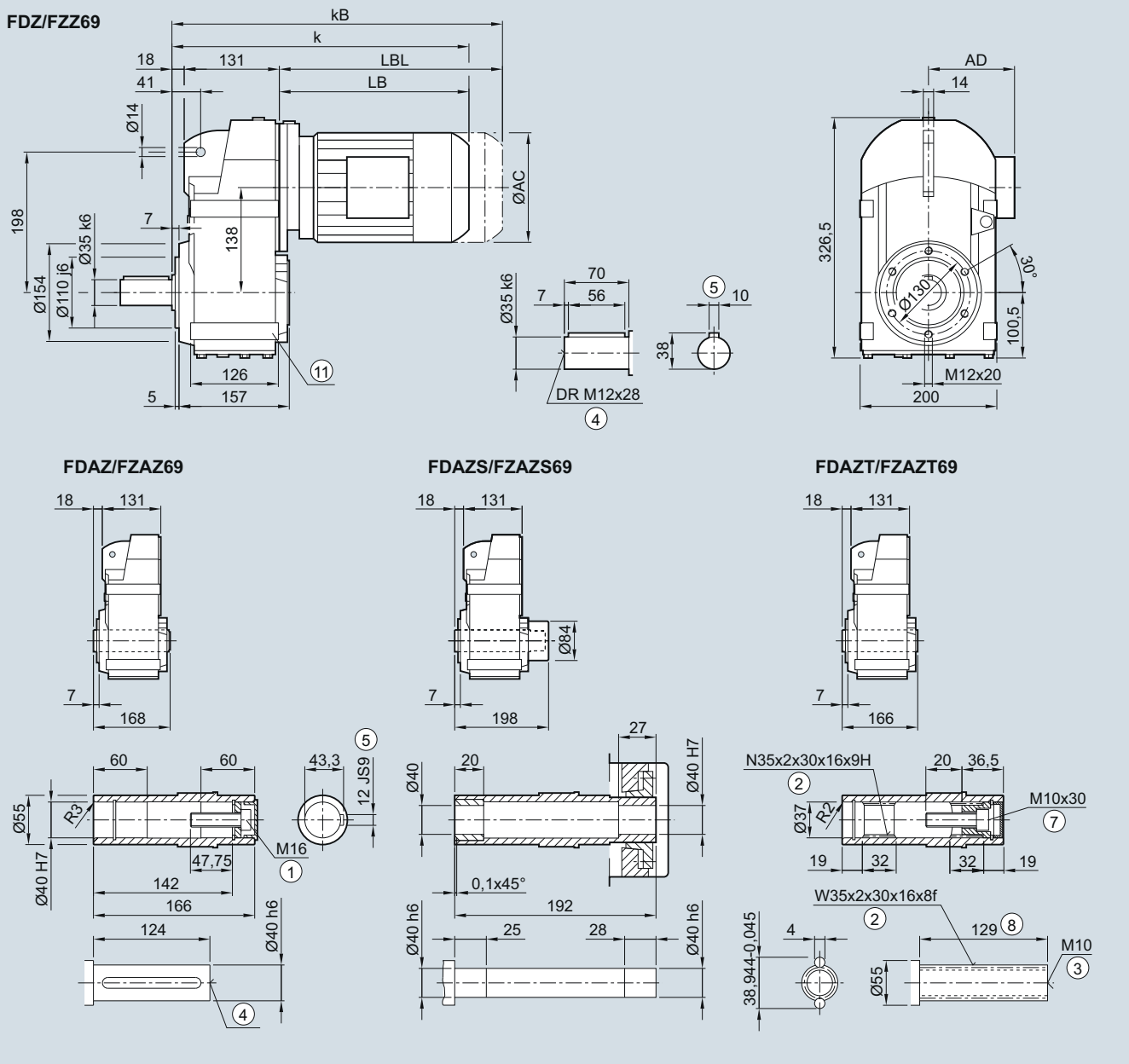


Motor	LA			LE									
	63	71	71Z	80	80Z	90	90Z	100	100Z	112[2)]	112Z[2)]	132[2)]	132Z[2)]
AC	117.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0
AD[1)]	124.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0
k	333.5	365.5	384.5	429.5	464.5	491.0	531.0	547.5	582.5	557.5	592.0	610.5	660.5
kB	378.0	420.5	439.5	489.5	524.5	561.0	601.0	626.0	661.0	630.5	665.0	715.0	765.0
LB	184.5	216.5	235.5	280.5	315.5	342.0	382.0	398.5	433.5	408.5	443.0	461.5	511.5
LBL	229.0	271.5	290.5	340.5	375.5	412.0	452.0	477.0	512.0	481.5	516.0	566.0	616.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
1) AD depends on the motor options, for other dimensions see page 8/36. 2) FDADS/FZADS not possible * Spring compression at max. torque

FD.Z./FZ.Z.69 gearbox in a housing flange design

FZ030, FAZ030, FAZS030, FAZT030



Motor	LA 63	71	71Z	LE 80	80Z	90	90Z	100	100Z	112[2)]	112Z[2)]	132[2)]	132Z[2)]
AC	117.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0
AD[1)]	124.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0
k	333.5	365.5	384.5	429.5	464.5	491.0	531.0	547.5	582.5	557.5	592.0	610.5	660.5
kB	378.0	420.5	439.5	489.5	524.5	561.0	601.0	626.0	661.0	630.5	665.0	715.0	765.0
LB	184.5	216.5	235.5	280.5	315.5	342.0	382.0	398.5	433.5	408.5	443.0	461.5	511.5
LBL	229.0	271.5	290.5	340.5	375.5	412.0	452.0	477.0	512.0	481.5	516.0	566.0	616.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for foot-mounted design

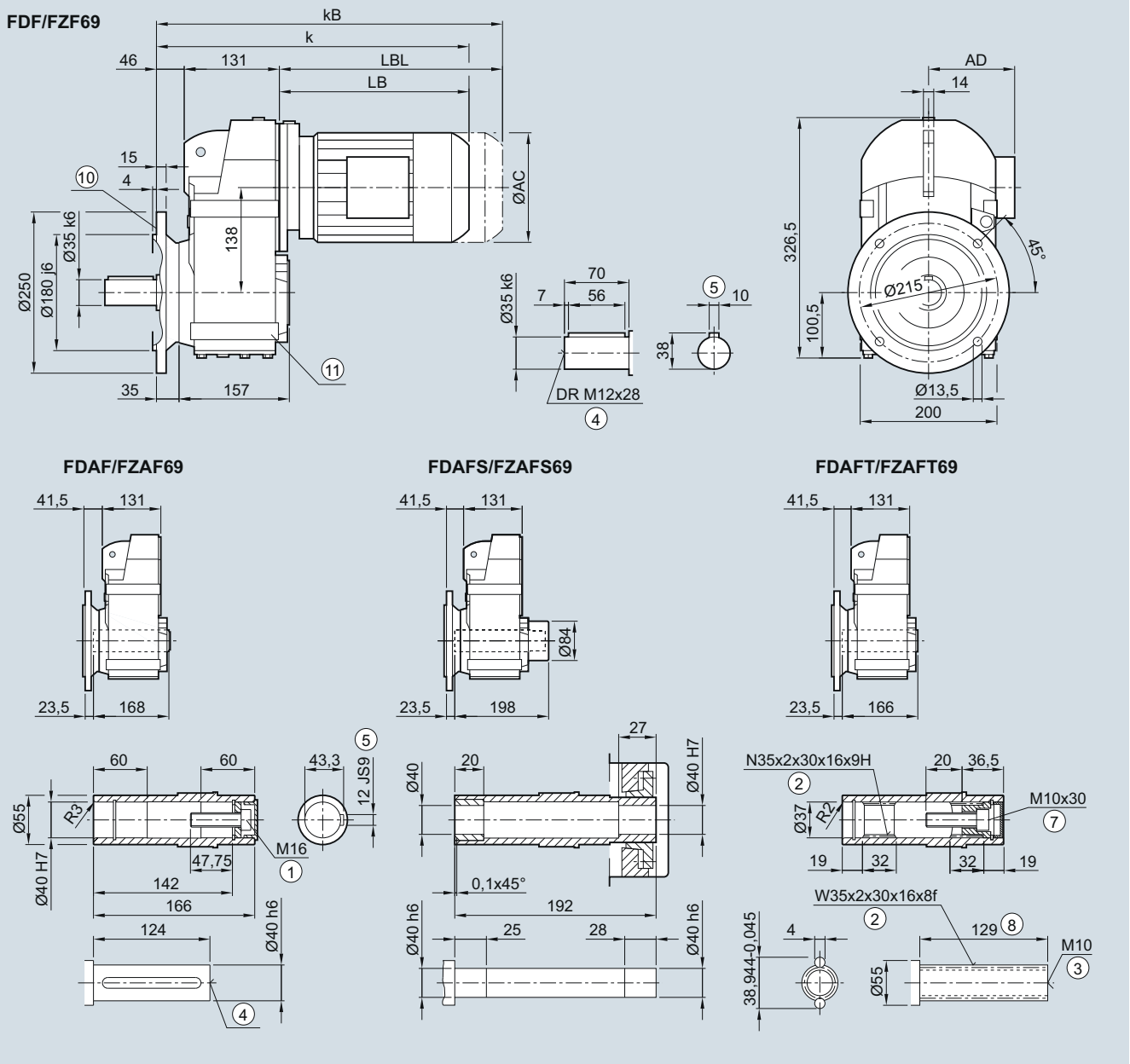
1) AD depends on the motor options, for other dimensions see page 8/36.

2) FDAZS/FZAZS not possible

4

FD.F./FZ.F.69 gearbox in a flange-mounted design

FF030, FAF030, FAFS030, FAFT030

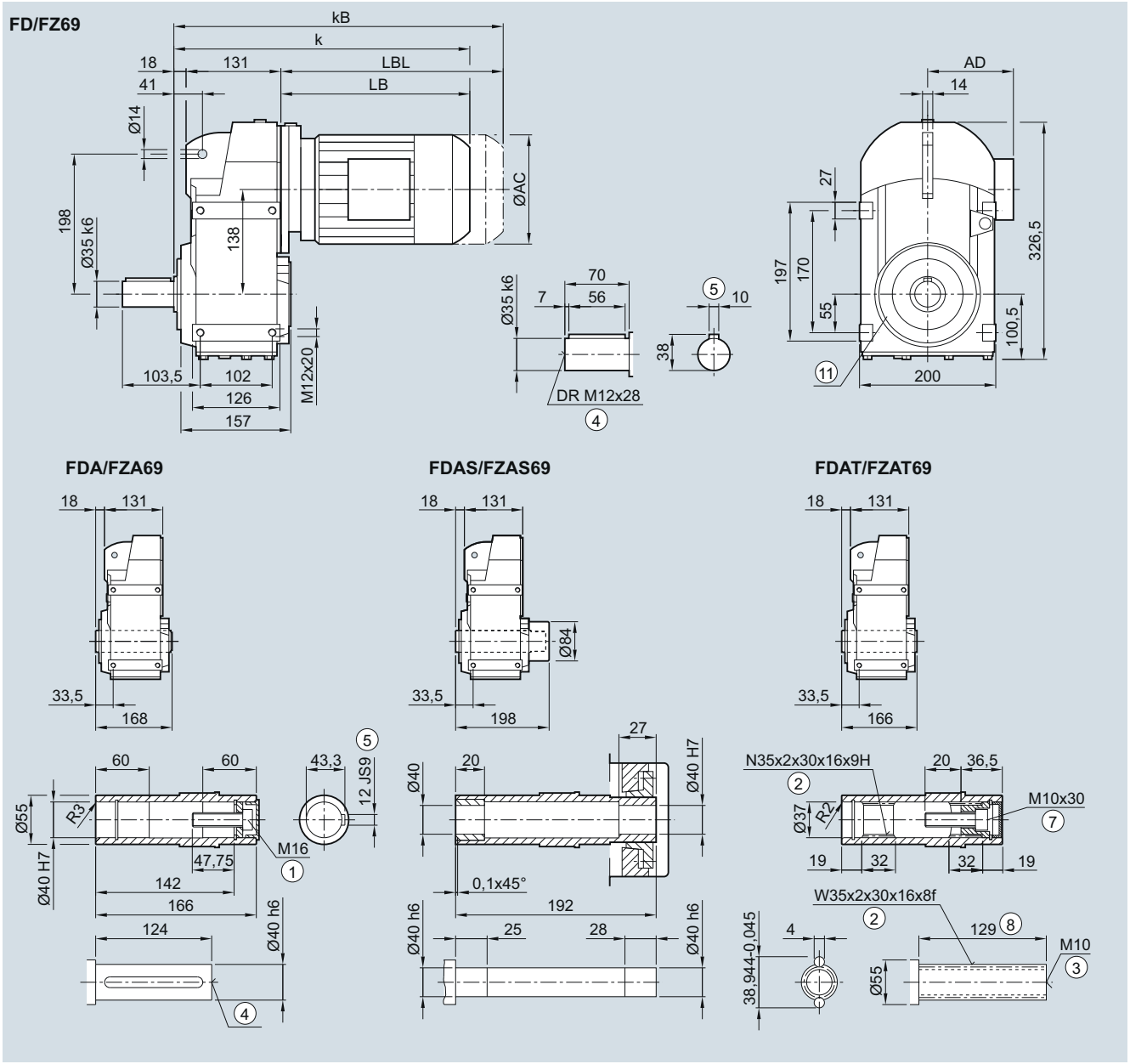


Motor	LA 63	71	71Z	LE 80	80Z	90	90Z	100	100Z	112[2)]	112Z[2)]	132[2)]	132Z[2)]
AC	117.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0
AD[1)]	124.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0
k	361.5	393.5	412.5	457.5	492.5	519.0	559.0	575.5	610.5	585.5	620.0	638.5	688.5
kB	406.0	448.5	467.5	517.5	552.5	589.0	629.0	654.0	689.0	658.5	693.0	743.0	793.0
LB	184.5	216.5	235.5	280.5	315.5	342.0	382.0	398.5	433.5	408.5	443.0	461.5	511.5
LBL	229.0	271.5	290.5	340.5	375.5	412.0	452.0	477.0	512.0	481.5	516.0	566.0	616.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑩ For inner contour see page 4/123 ⑪ Use bores only for foot-mounted design
1) AD depends on the motor options, for other dimensions see page 8/36. 2) FADAFS/FZAFS not possible

FD../FZ..69 gearbox in a foot-mounted design

F030, FA030, FAS030, FAT030



Motor	LA 63	71	71Z	LE 80	80Z	90	90Z	100	100Z	112[2)]	112Z[2)]	132[2)]	132Z[2)]
AC	117.8	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0
AD[1)]	124.0	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0
k	333.5	365.5	384.5	429.5	464.5	491.0	531.0	547.5	582.5	557.5	592.0	610.5	660.5
kB	378.0	420.5	439.5	489.5	524.5	561.0	601.0	626.0	661.0	630.5	665.0	715.0	765.0
LB	184.5	216.5	235.5	280.5	315.5	342.0	382.0	398.5	433.5	408.5	443.0	461.5	511.5
LBL	229.0	271.5	290.5	340.5	375.5	412.0	452.0	477.0	512.0	481.5	516.0	566.0	616.0

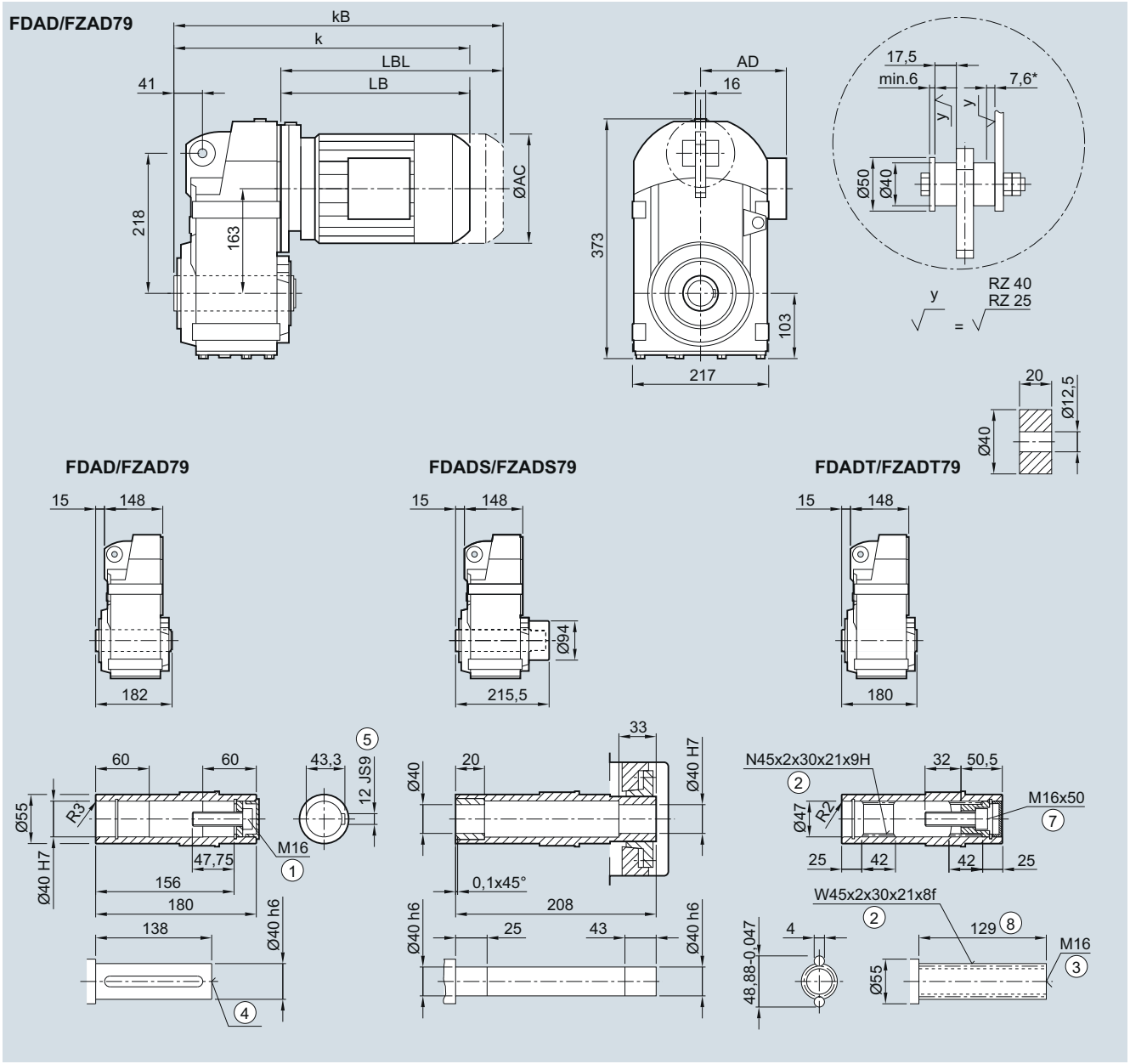
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for housing flange design

1) AD depends on the motor options, for other dimensions see page 8/36.

2) FDAS/FZAS not possible

FDAD./FZAD.79 gearbox in a shaft-mounted design

FAD030, FADS030, FADT030

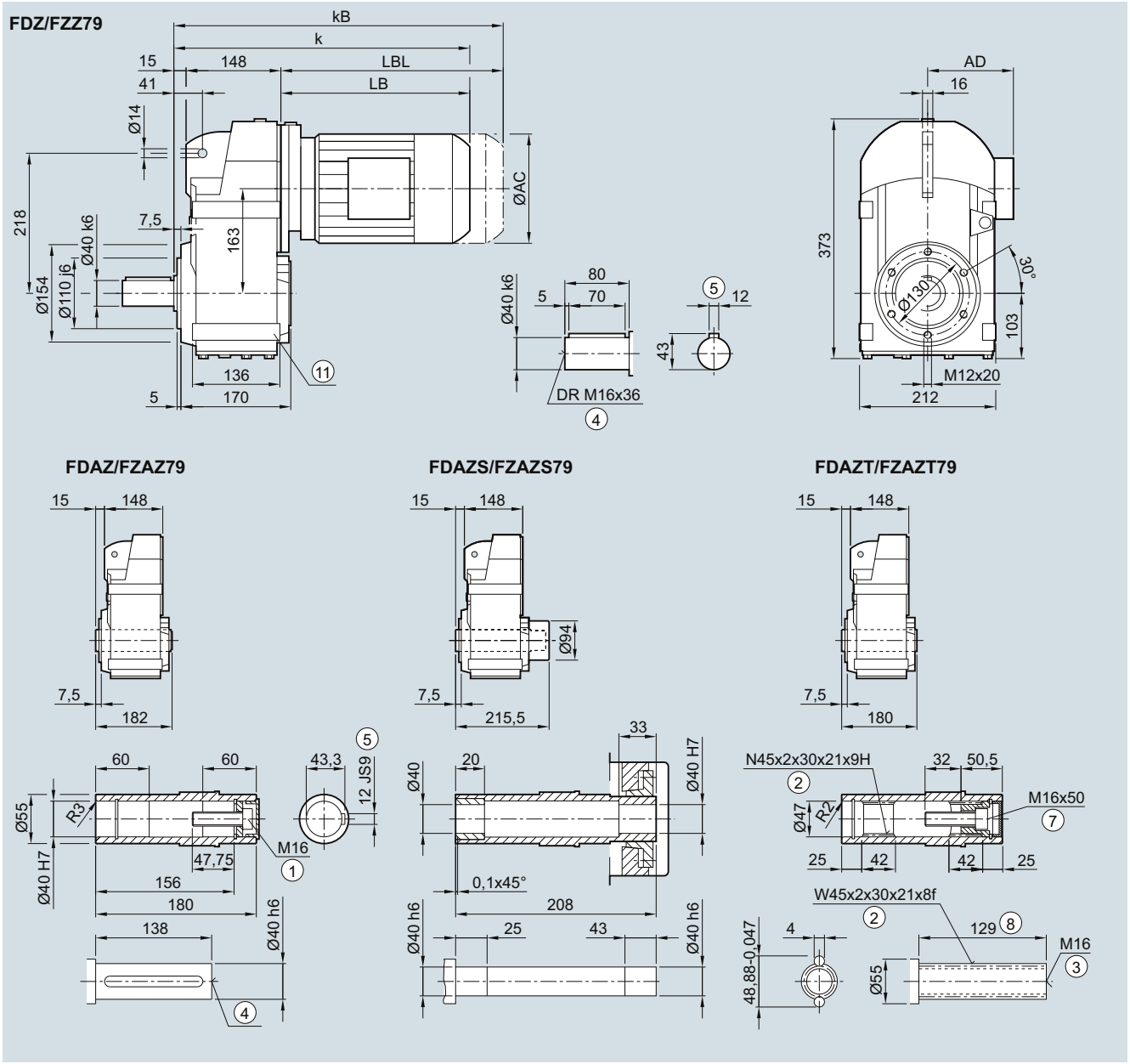


Motor	LA 71	71Z	LE 80	80Z	90	90Z	100	100Z	112	112Z	132	132Z	160[2]	160Z[2]
AC	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0
AD[1]	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0
k	377.5	396.5	437.5	472.5	499.0	539.0	555.5	590.5	565.5	590.5	618.5	668.5	700.5	760.5
kB	432.5	451.5	497.5	532.5	569.0	609.0	634.0	669.0	638.5	663.5	723.0	773.0	816.5	876.5
LB	214.5	233.5	274.5	309.5	336.0	376.0	392.5	427.5	402.5	427.5	455.5	505.5	537.5	597.5
LBL	269.5	288.5	334.5	369.5	406.0	446.0	471.0	506.0	475.5	500.5	560.0	610.0	653.5	713.5

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
[1] AD depends on the motor options, for other dimensions see page 8/36. [2] FDAS/FZAS not possible * Spring compression at max. torque

FD.Z./FZ.Z.79 gearbox in a housing flange design

FZ030, FAZ030, FAZS030, FAZT030



Motor	LA 71	71Z	LE 80	80Z	90	90Z	100	100Z	112	112Z	132	132Z	160[2]	160Z[2]
AC	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0
AD[1]	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0
k	377.5	396.5	437.5	472.5	499.0	539.0	555.5	590.5	565.5	590.5	618.5	668.5	700.5	760.5
kB	432.5	451.5	497.5	532.5	569.0	609.0	634.0	669.0	638.5	663.5	723.0	773.0	816.5	876.5
LB	214.5	233.5	274.5	309.5	336.0	376.0	392.5	427.5	402.5	427.5	455.5	505.5	537.5	597.5
LBL	269.5	288.5	334.5	369.5	406.0	446.0	471.0	506.0	475.5	500.5	560.0	610.0	653.5	713.5

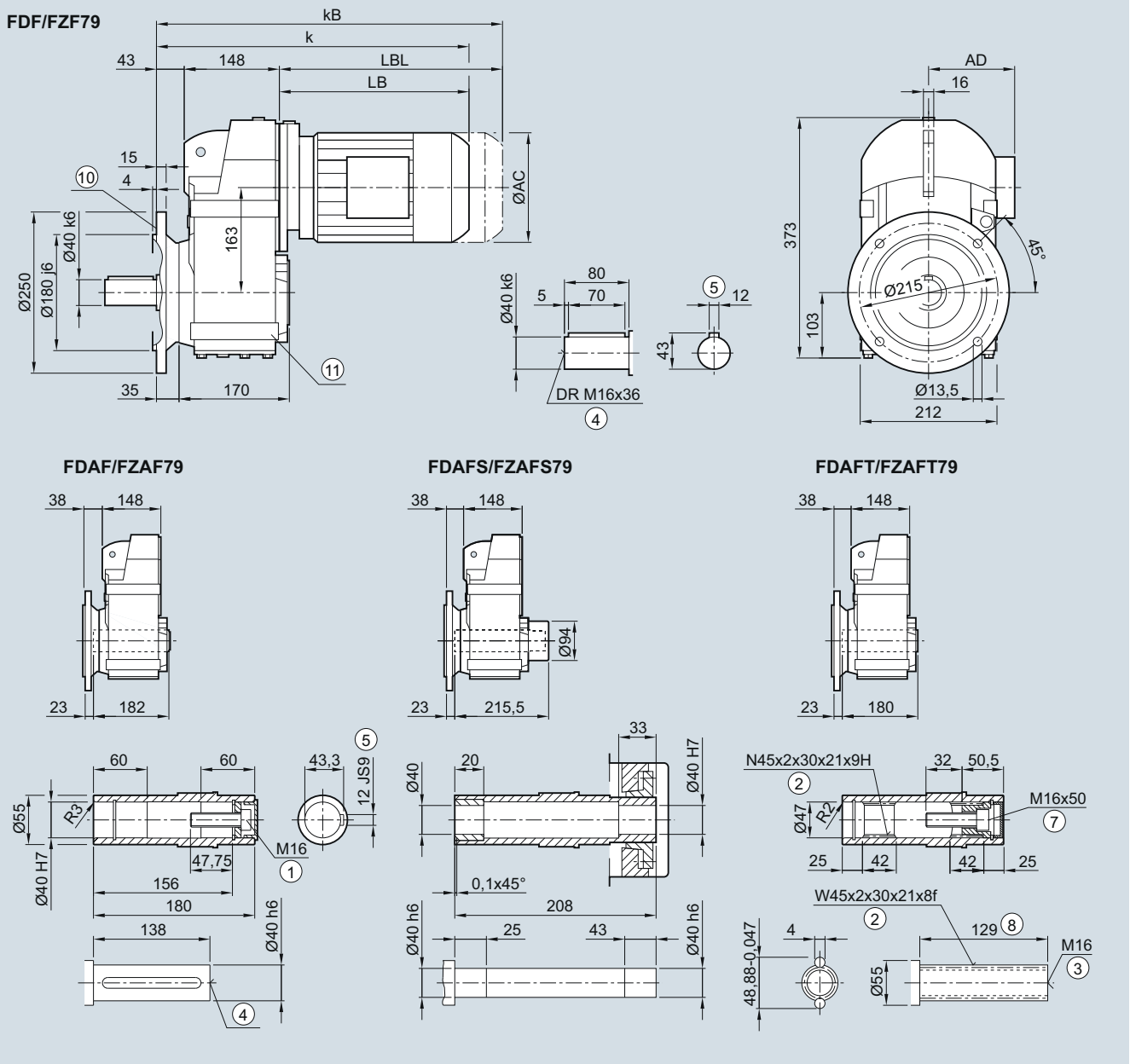
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for foot-mounted design

1) AD depends on the motor options, for other dimensions see page 8/36.

2) FDAZS/FZAZS not possible

FD.F./FZ.F.79 gearbox in a flange-mounted design

FF030, FAF030, FAFS030, FAFT030

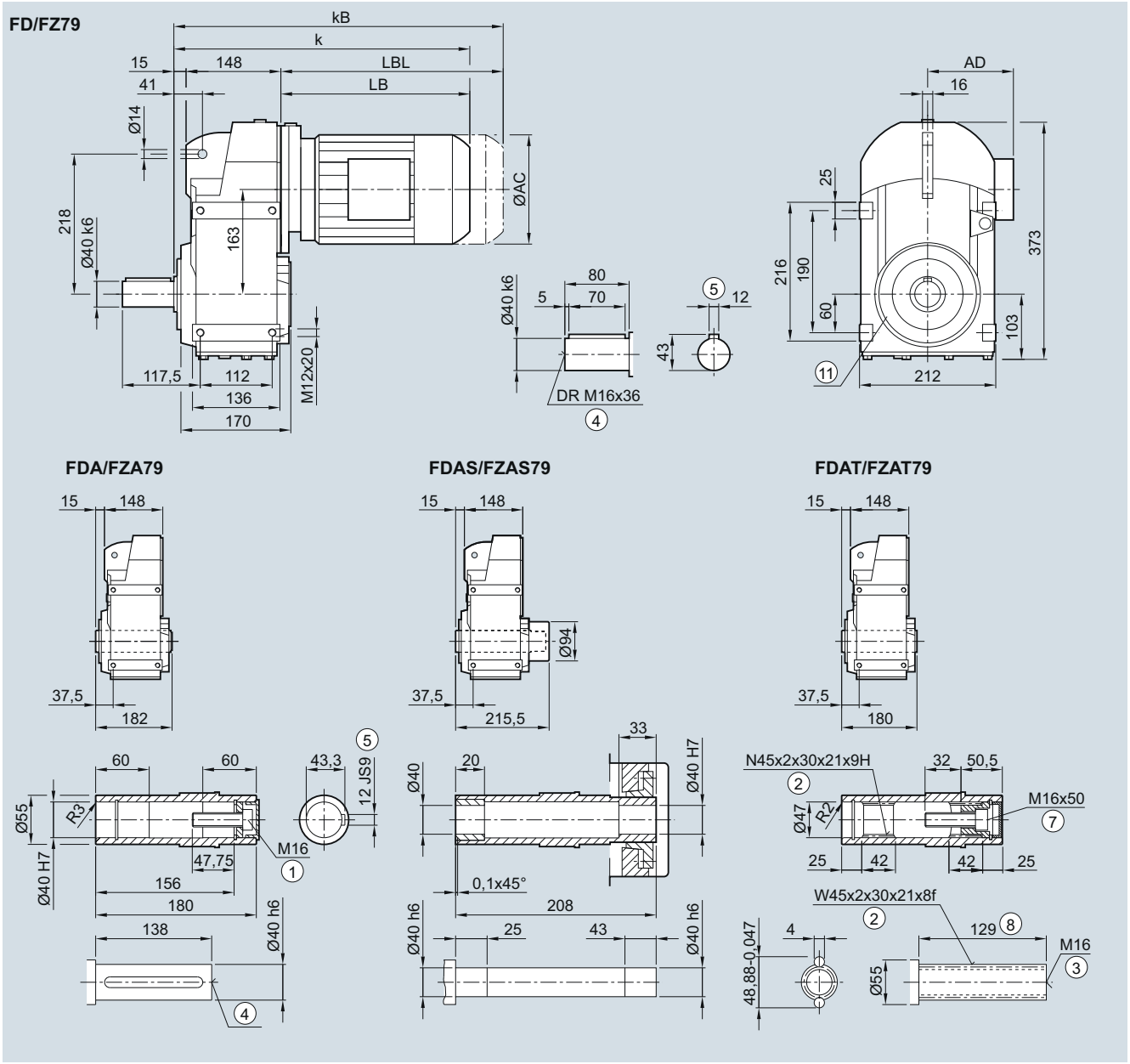


Motor	LA 71	71Z	LE 80	80Z	90	90Z	100	100Z	112	112Z	132	132Z	160[2]	160Z[2]
AC	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0
AD[1]	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0
k	405.5	424.5	465.5	500.5	527.0	567.0	583.5	618.5	593.5	618.5	646.5	696.5	728.5	788.5
kB	460.5	479.5	525.5	560.5	597.0	637.0	662.0	697.0	666.5	691.5	751.0	801.0	844.5	904.5
LB	214.5	233.5	274.5	309.5	336.0	376.0	392.5	427.5	402.5	427.5	455.5	505.5	537.5	597.5
LBL	269.5	288.5	334.5	369.5	406.0	446.0	471.0	506.0	475.5	500.5	560.0	610.0	653.5	713.5

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑩ For inner contour see page 4/123 ⑪ Use bores only for foot-mounted design
[1] AD depends on the motor options, for other dimensions see page 8/36. [2] FADAFS/FZAFS not possible

FD../FZ..79 gearbox in a foot-mounted design

F030, FA030, FAS030, FAT030



Motor	LA 71	71Z	LE 80	80Z	90	90Z	100	100Z	112	112Z	132	132Z	160[2)]	160Z[2)]
AC	138.8	138.8	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0
AD[1)]	134.0	134.0	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0
k	377.5	396.5	437.5	472.5	499.0	539.0	555.5	590.5	565.5	590.5	618.5	668.5	700.5	760.5
kB	432.5	451.5	497.5	532.5	569.0	609.0	634.0	669.0	638.5	663.5	723.0	773.0	816.5	876.5
LB	214.5	233.5	274.5	309.5	336.0	376.0	392.5	427.5	402.5	427.5	455.5	505.5	537.5	597.5
LBL	269.5	288.5	334.5	369.5	406.0	446.0	471.0	506.0	475.5	500.5	560.0	610.0	653.5	713.5

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for housing flange design

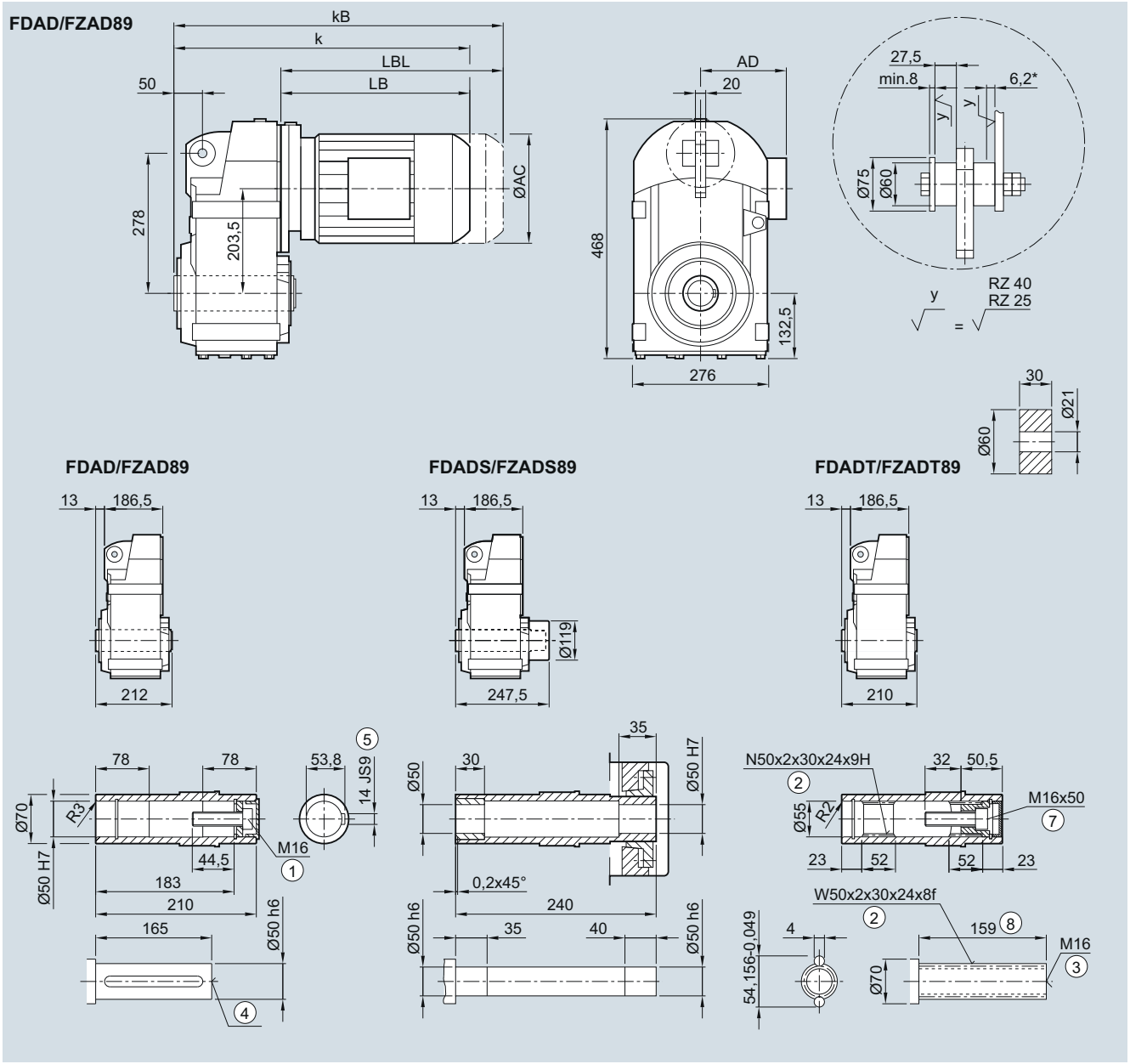
1) AD depends on the motor options, for other dimensions see page 8/36.

2) FDAS/FZAS not possible

4

FDAD./FZAD.89 gearbox in a shaft-mounted design

FAD030, FADS030, FADT030

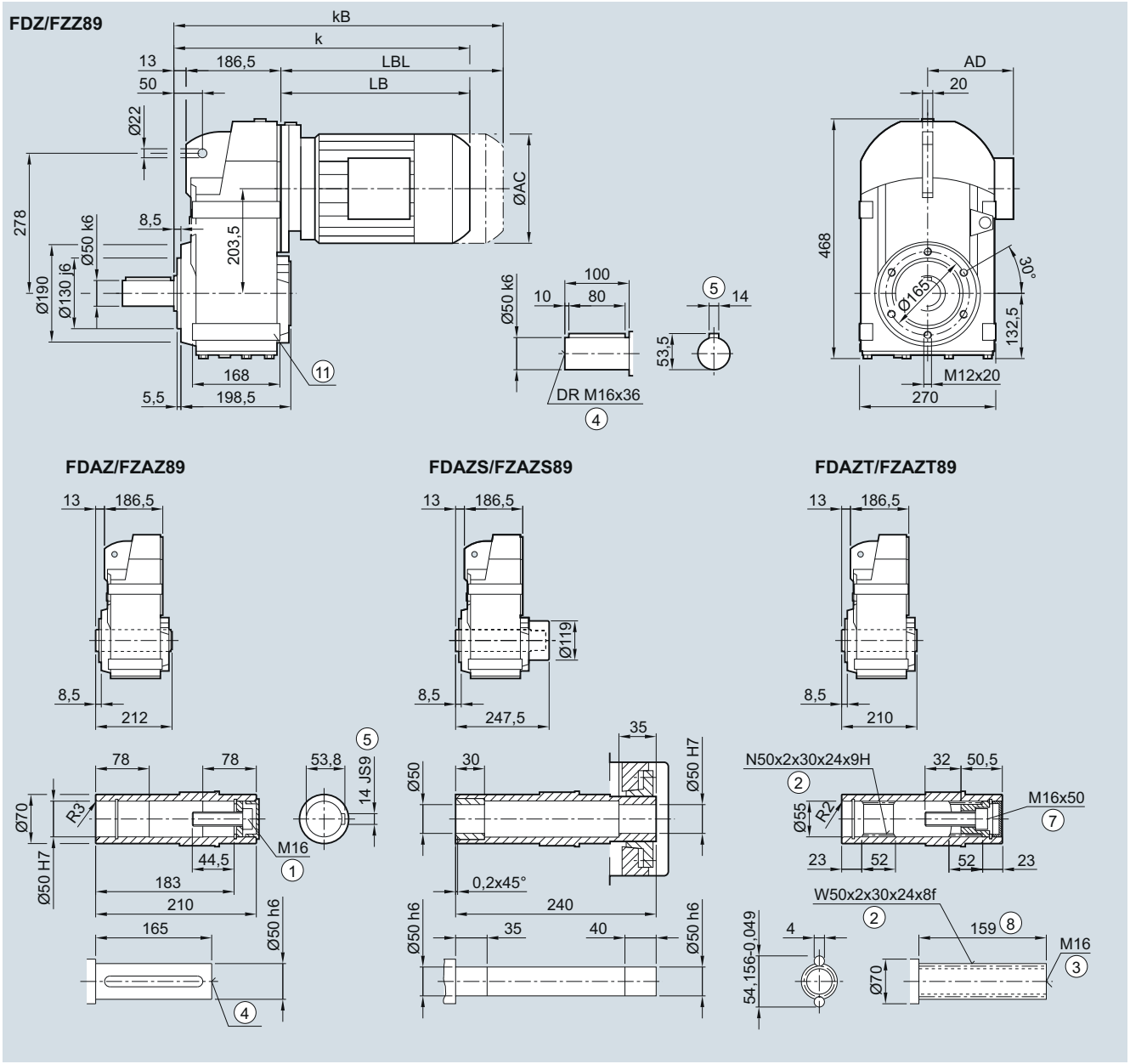


Motor	LE 80	80Z	90	90Z	100	100Z	112	112Z	132	132Z	160	160Z	LES 180[2]	180Z[2]
AC	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5
AD[1]	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0
k	461.0	496.0	522.5	562.5	575.0	610.0	585.0	610.0	638.0	688.0	720.0	780.0	793.0	823.0
kB	521.0	556.0	592.5	632.5	653.5	688.5	658.0	683.0	742.5	792.5	836.0	896.0	922.0	952.0
LB	261.5	296.5	323.0	363.0	375.5	410.5	385.5	410.5	438.5	488.5	520.5	580.5	593.5	623.5
LBL	321.5	356.5	393.0	433.0	454.0	489.0	458.5	483.5	543.0	593.0	636.5	696.5	722.5	752.5

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
1) AD depends on the motor options, for other dimensions see page 8/36. 2) FDAS/FZAS not possible * Spring compression at max. torque

FD.Z./FZ.Z.89 gearbox in a housing flange design

FZ030, FAZ030, FAZS030, FAZT030



Motor	LE 80	80Z	90	90Z	100	100Z	112	112Z	132	132Z	160	160Z	LES 180[2)]	180Z[2)]
AC	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5
AD[1)]	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0
k	461.0	496.0	522.5	562.5	575.0	610.0	585.0	610.0	638.0	688.0	720.0	780.0	793.0	823.0
kB	521.0	556.0	592.5	632.5	653.5	688.5	658.0	683.0	742.5	792.5	836.0	896.0	922.0	952.0
LB	261.5	296.5	323.0	363.0	375.5	410.5	385.5	410.5	438.5	488.5	520.5	580.5	593.5	623.5
LBL	321.5	356.5	393.0	433.0	454.0	489.0	458.5	483.5	543.0	593.0	636.5	696.5	722.5	752.5

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for foot-mounted design

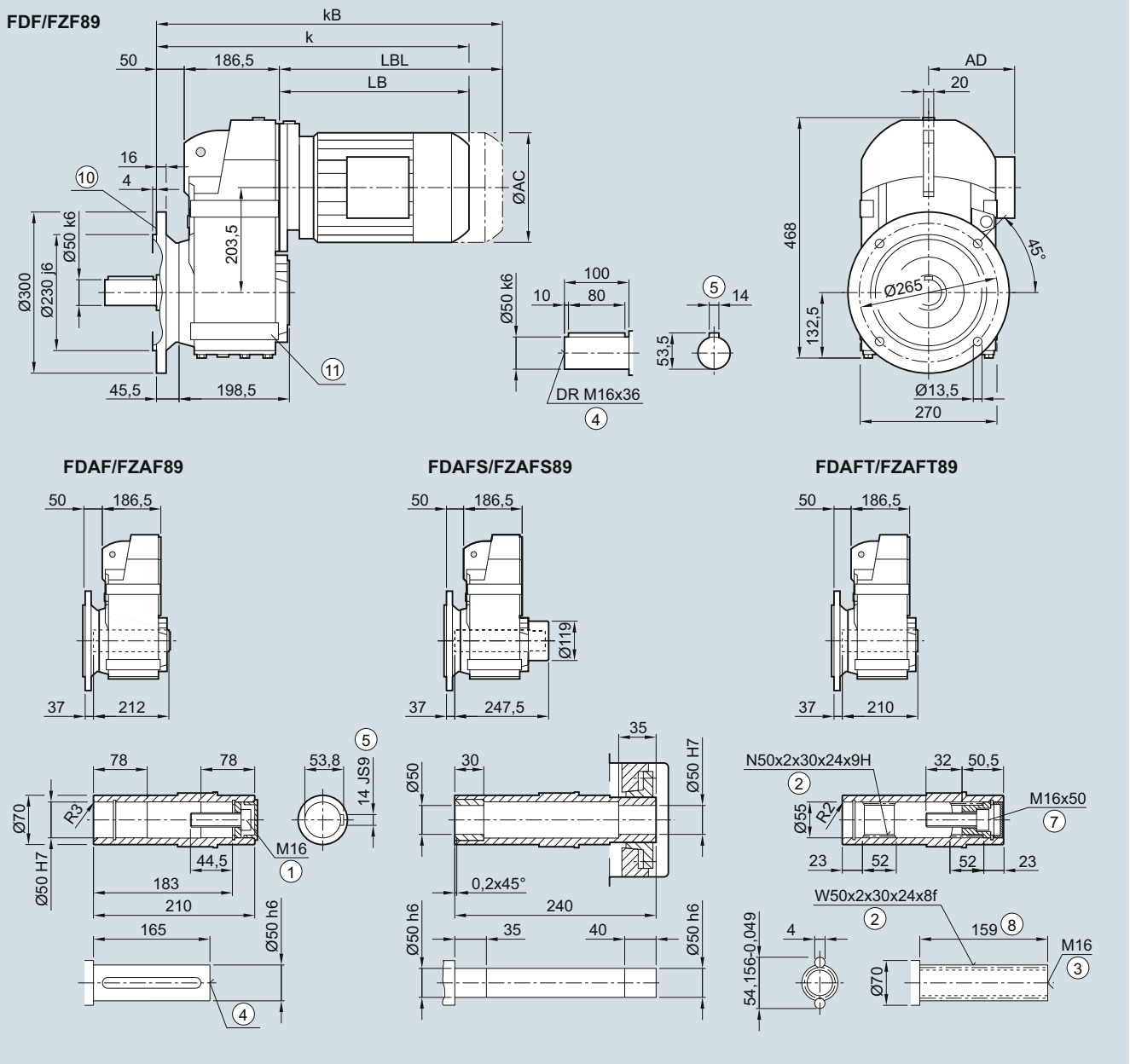
1) AD depends on the motor options, for other dimensions see page 8/36.

2) FDAS/FZAS not possible

4

FD.F./FZ.F.89 gearbox in a flange-mounted design

FF030, FAF030, FAFS030, FAFT030

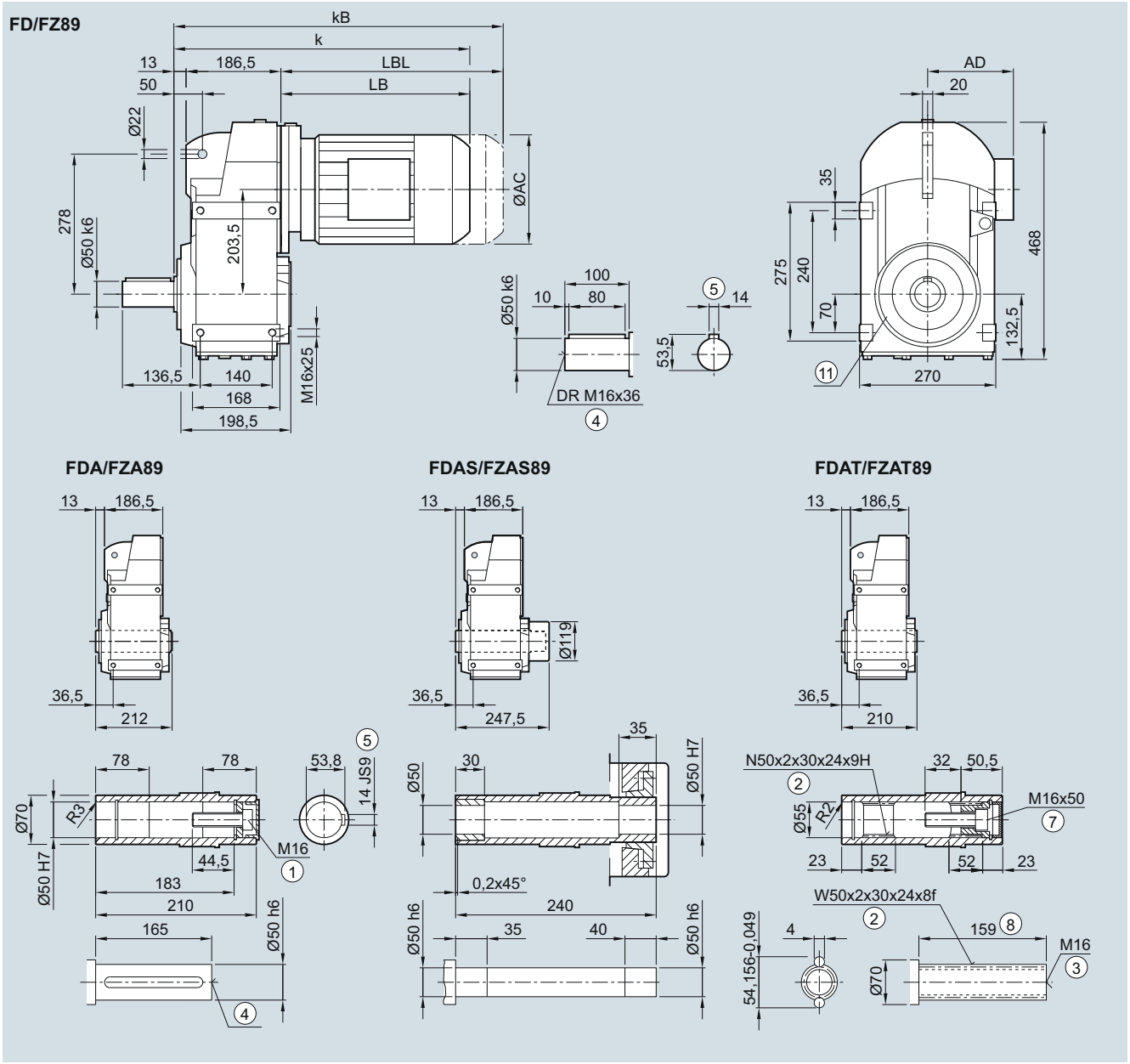


Motor	LE 80	80Z	90	90Z	100	100Z	112	112Z	132	132Z	160	160Z	LES 180[2]	180Z[2]
AC	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5
AD[1]	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0
k	498.0	533.0	559.5	599.5	612.0	647.0	622.0	647.0	675.0	725.0	757.0	817.0	830.0	860.0
kB	558.0	593.0	629.5	669.5	690.5	725.5	695.0	720.0	779.5	829.5	873.0	933.0	959.0	989.0
LB	261.5	296.5	323.0	363.0	375.5	410.5	385.5	410.5	438.5	488.5	520.5	580.5	593.5	623.5
LBL	321.5	356.5	393.0	433.0	454.0	489.0	458.5	483.5	543.0	593.0	636.5	696.5	722.5	752.5

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑩ For inner contour see page 4/123 ⑪ Use bores only for foot-mounted design
[1] AD depends on the motor options, for other dimensions see page 8/36. [2] FADAFS/FZAFS not possible

FD../FZ..89 gearbox in a foot-mounted design

F030, FA030, FAS030, FAT030



Motor	LE 80	80Z	90	90Z	100	100Z	112	112Z	132	132Z	160	160Z	LES 180[2]	180Z[2]
AC	156.3	156.3	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5
AD[1]	149.2	149.2	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0
k	461.0	496.0	522.5	562.5	575.0	610.0	585.0	610.0	638.0	688.0	720.0	780.0	793.0	823.0
kB	521.0	556.0	592.5	632.5	653.5	688.5	658.0	683.0	742.5	792.5	836.0	896.0	922.0	952.0
LB	261.5	296.5	323.0	363.0	375.5	410.5	385.5	410.5	438.5	488.5	520.5	580.5	593.5	623.5
LBL	321.5	356.5	393.0	433.0	454.0	489.0	458.5	483.5	543.0	593.0	636.5	696.5	722.5	752.5

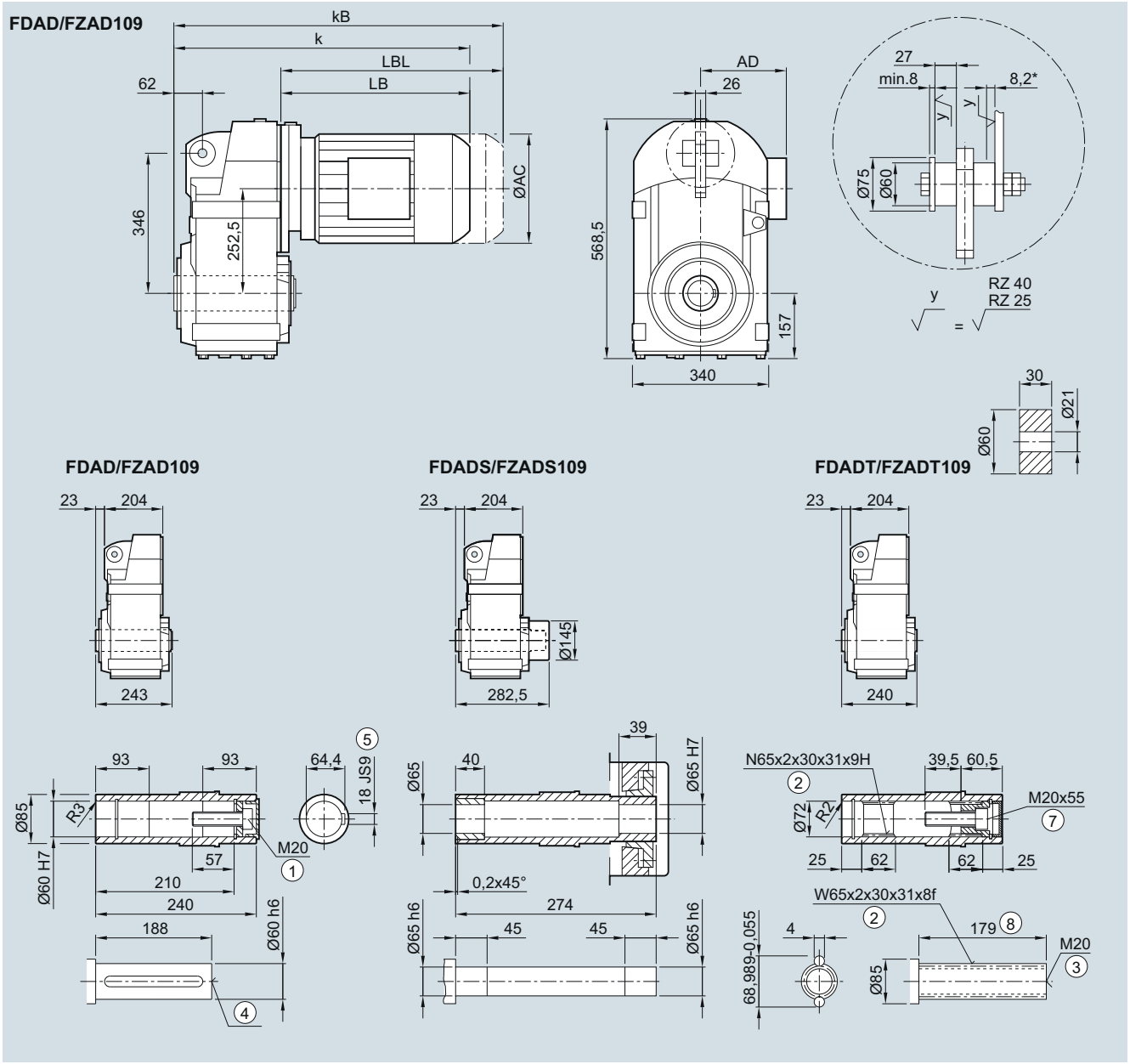
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for housing flange design

1) AD depends on the motor options, for other dimensions see page 8/36.

2) FDAS/FZAS not possible

FDAD./FZAD.109 gearbox in a shaft-mounted design

FAD030, FADS030, FADT030



Motor	LE 90	90Z	100	100Z	112	112Z	132	132Z	160	160Z	LES 180	180Z	200	200Z	225[2]	225Y[2]
AC	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0
AD[1]	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	382.0	382.0
k	543.0	583.0	593.5	628.5	603.5	628.5	656.5	706.5	738.5	798.5	811.5	841.5	879.5	904.5	925.0	985.0
kB	613.0	653.0	672.0	707.0	676.5	701.5	761.0	811.0	854.5	914.5	940.5	970.5	1 026.5	1 051.5	1 153.0	1 213.0
LB	316.0	356.0	366.5	401.5	376.5	401.5	429.5	479.5	511.5	571.5	584.5	614.5	652.5	677.5	698.0	758.0
LBL	386.0	426.0	445.0	480.0	449.5	474.5	534.0	584.0	627.5	687.5	713.5	743.5	799.5	824.5	926.0	986.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm

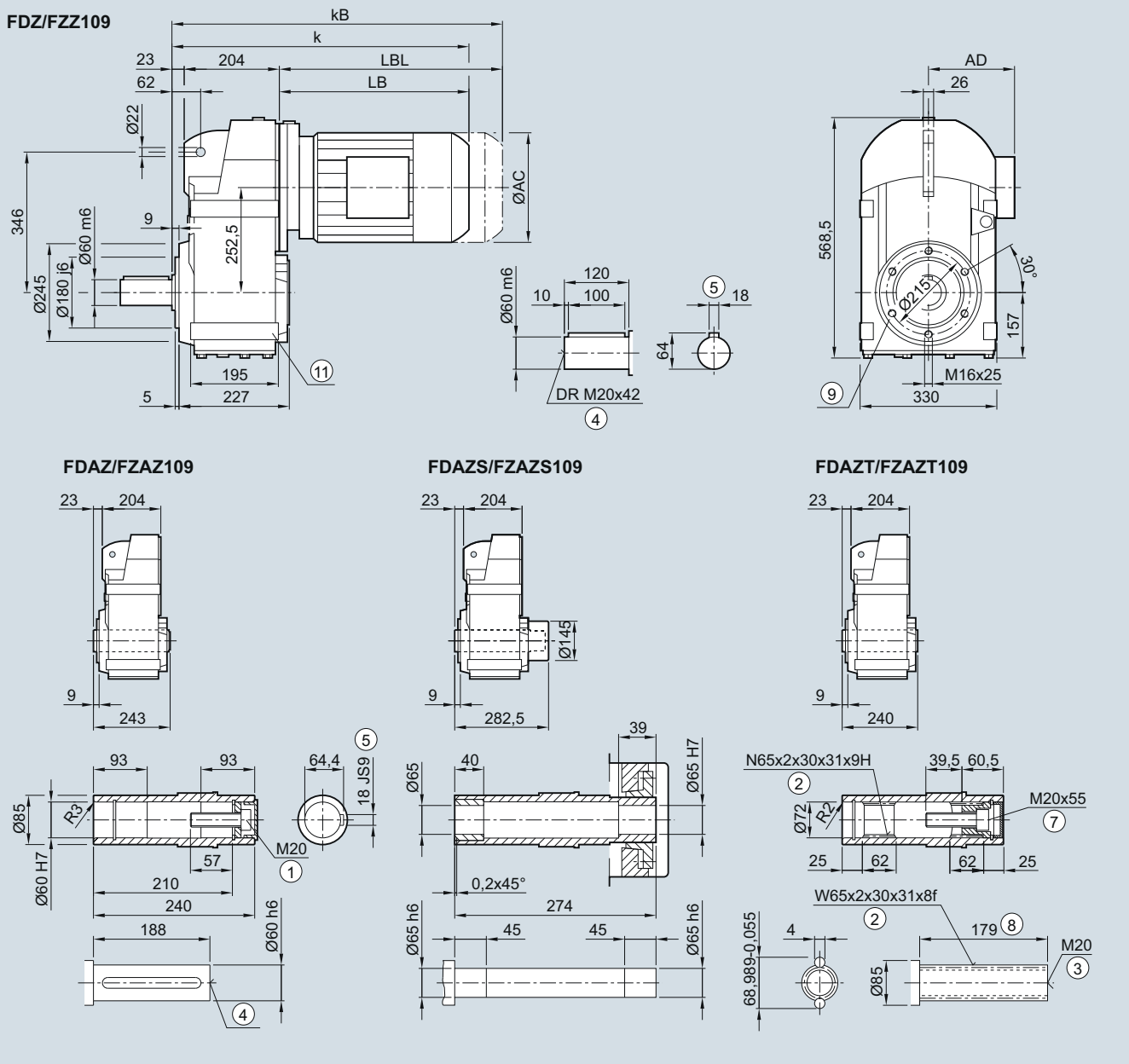
1) AD depends on the motor options, for other dimensions see page 8/36.

* Spring compression at max. torque

2) FDAS/FZAS not possible

FD.Z./FZ.Z.109 gearbox in a housing flange design

FZ030, FAZ030, FAZS030, FAZT030

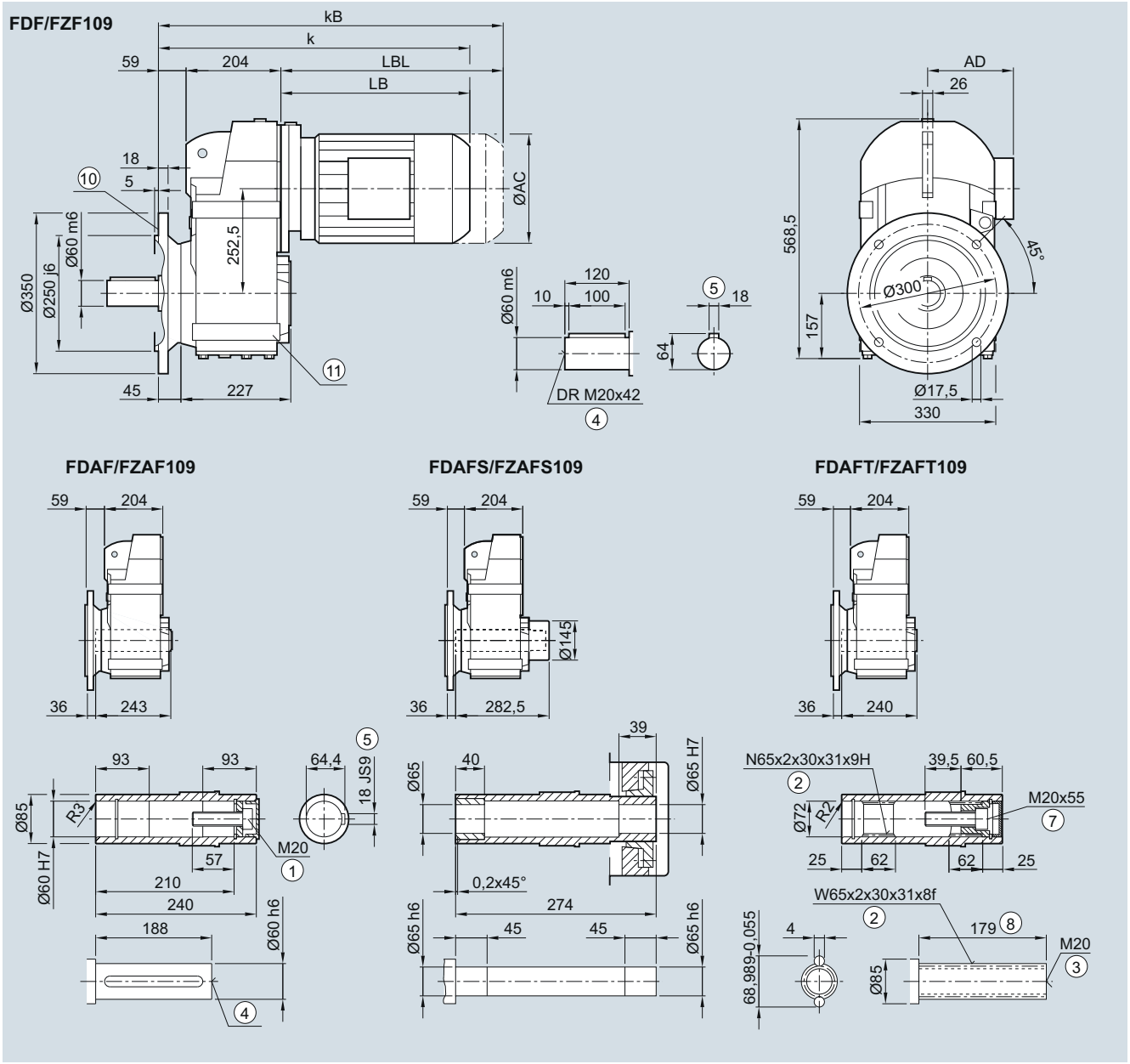


Motor	LE 90	90Z	100	100Z	112	112Z	132	132Z	160	160Z	LES 180	180Z	200	200Z	225[2)]	225Y[2)]
AC	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0
AD[1)]	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	382.0	382.0
k	543.0	583.0	593.5	628.5	603.5	628.5	656.5	706.5	738.5	798.5	811.5	841.5	879.5	904.5	925.0	985.0
kB	613.0	653.0	672.0	707.0	676.5	701.5	761.0	811.0	854.5	914.5	940.5	970.5	1 026.5	1 051.5	1 153.0	1 213.0
LB	316.0	356.0	366.5	401.5	376.5	401.5	429.5	479.5	511.5	571.5	584.5	614.5	652.5	677.5	698.0	758.0
LBL	386.0	426.0	445.0	480.0	449.5	474.5	534.0	584.0	627.5	687.5	713.5	743.5	799.5	824.5	926.0	986.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for foot-mounted design
⑨ For pin holes see page 4/124 [1)] AD depends on the motor options, for other dimensions see page 8/36. [2)] FDAS/FZAS not possible

FD.F./FZ.F.109 gearbox in a flange-mounted design

FF030, FAF030, FAFS030, FAFT030

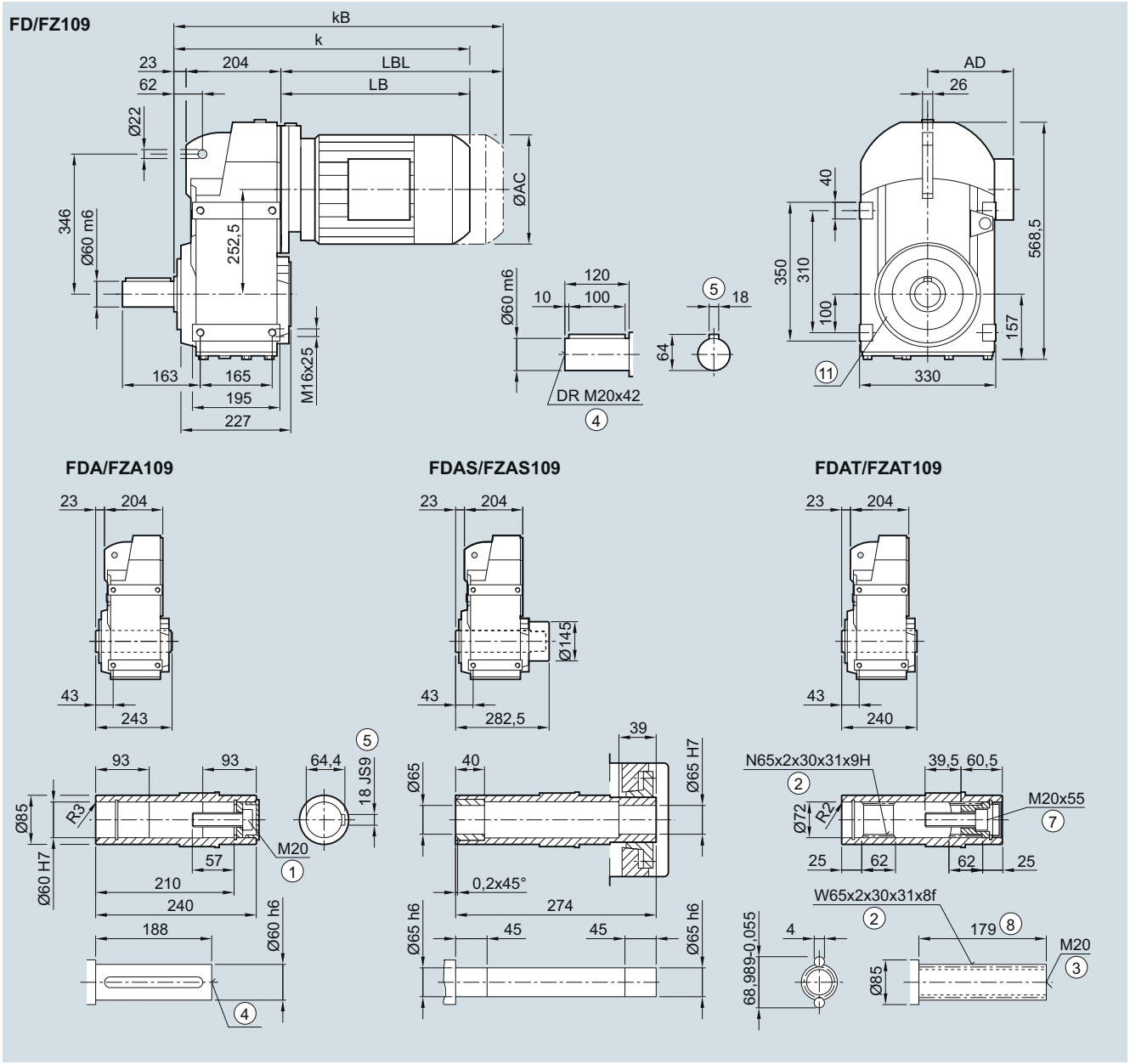


Motor	LE 90	90Z	100	100Z	112	112Z	132	132Z	160	160Z	LES 180	180Z	200	200Z	225[2)]	225Y[2)]
AC	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0
AD[1)]	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	382.0	382.0
k	579.0	619.0	629.5	664.5	639.5	664.5	692.5	742.5	774.5	834.5	847.5	877.5	915.5	940.5	961.0	1 021.0
kB	649.0	689.0	708.0	743.0	712.5	737.5	797.0	847.0	890.5	950.5	976.5	1 006.5	1 062.5	1 087.5	1 189.0	1 249.0
LB	316.0	356.0	366.5	401.5	376.5	401.5	429.5	479.5	511.5	571.5	584.5	614.5	652.5	677.5	698.0	758.0
LBL	386.0	426.0	445.0	480.0	449.5	474.5	534.0	584.0	627.5	687.5	713.5	743.5	799.5	824.5	926.0	986.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑩ For inner contour see page 4/123 ⑪ Use bores only for foot-mounted design
1) AD depends on the motor options, for other dimensions see page 8/36.
2) FDAS/FZAS not possible

FD../FZ.109 gearbox in a foot-mounted design

F030, FA030, FAS030, FAT030



Motor	LE 90	90Z	100	100Z	112	112Z	132	132Z	160	160Z	LES 180	180Z	200	200Z	225[2)]	225Y[2)]
AC	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0
AD[1)]	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	382.0	382.0
k	543.0	583.0	593.5	628.5	603.5	628.5	656.5	706.5	738.5	798.5	811.5	841.5	879.5	904.5	925.0	985.0
kB	613.0	653.0	672.0	707.0	676.5	701.5	761.0	811.0	854.5	914.5	940.5	970.5	1 026.5	1 051.5	1 153.0	1 213.0
LB	316.0	356.0	366.5	401.5	376.5	401.5	429.5	479.5	511.5	571.5	584.5	614.5	652.5	677.5	698.0	758.0
LBL	386.0	426.0	445.0	480.0	449.5	474.5	534.0	584.0	627.5	687.5	713.5	743.5	799.5	824.5	926.0	986.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for housing flange design

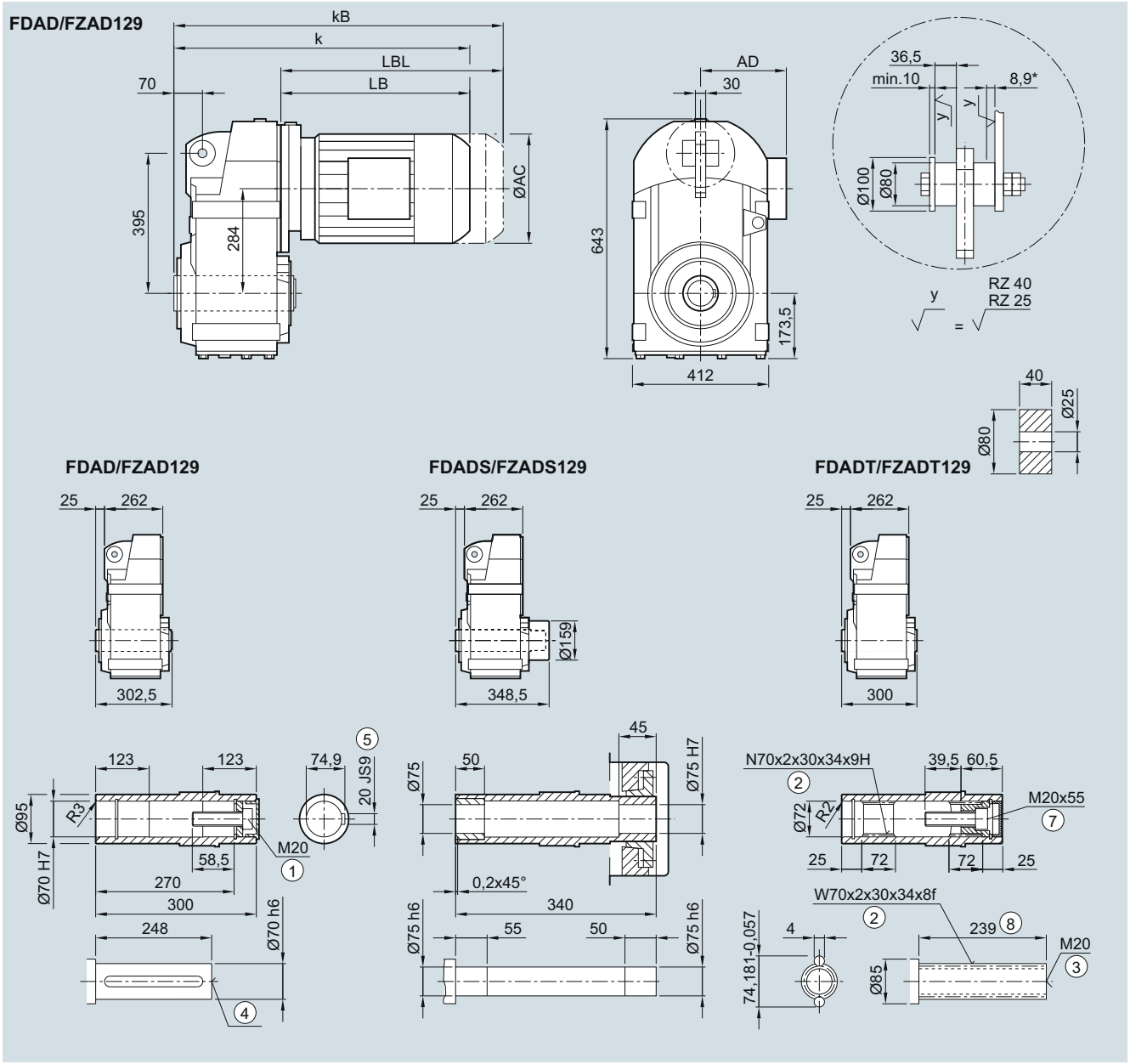
1) AD depends on the motor options, for other dimensions see page 8/36.

2) FDAS/FZAS not possible

4

FDAD./FZAD.129 gearbox in a shaft-mounted design

FAD030, FADS030, FADT030



Motor	LE 90	90Z	100	100Z	112	112Z	132	132Z	160	160Z	LES 180	180Z	200	200Z	225	225Y	250[2]
AC	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD[1]	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	382.0	382.0	457.5
k	596.0	636.0	644.5	679.5	654.5	679.5	705.5	755.5	787.5	847.5	860.5	890.5	928.5	953.5	980.0	1 040.0	1 085.5
kB	666.0	706.0	723.0	758.0	727.5	752.5	810.0	860.0	903.5	963.5	989.5	1 019.5	1 075.5	1 100.5	1 208.0	1 268.0	1 310.5
LB	309.0	349.0	357.5	392.5	367.5	392.5	418.5	468.5	500.5	560.5	573.5	603.5	641.5	666.5	693.0	753.0	798.5
LBL	379.0	419.0	436.0	471.0	440.5	465.5	523.0	573.0	616.5	676.5	702.5	732.5	788.5	813.5	921.0	981.0	1 023.5

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm

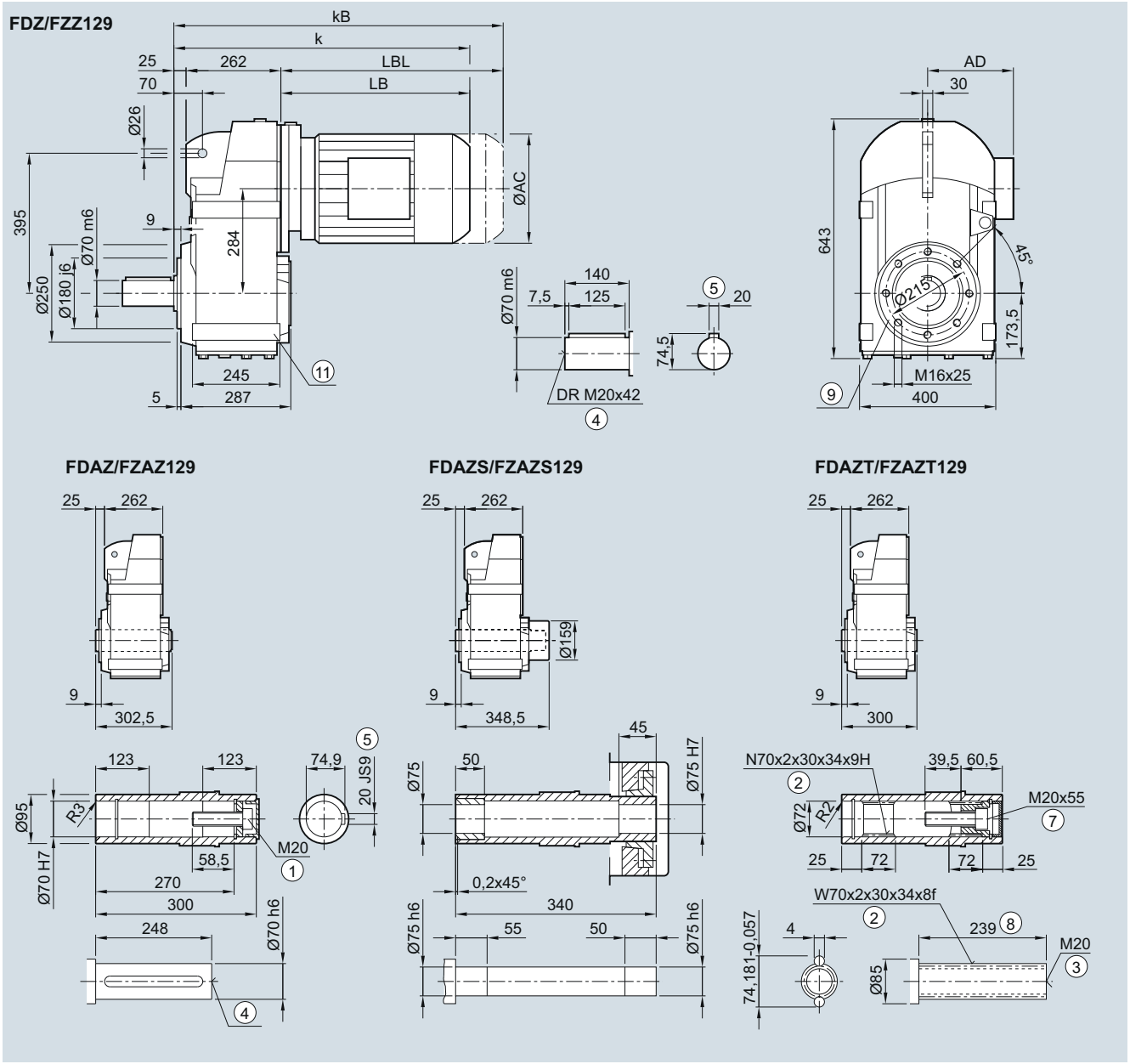
1) AD depends on the motor options, for other dimensions see page 8/36.

* Spring compression at max. torque

2) FDAS/FZAS not possible

FD.Z./FZ.Z.129 gearbox in a housing flange design

FZ030, FAZ030, FAZS030, FAZT030



Motor	LE 90	90Z	100	100Z	112	112Z	132	132Z	160	160Z	LES 180	180Z	200	200Z	225	225Y	250[2]
AC	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD[1]	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	382.0	382.0	457.5
k	596.0	636.0	644.5	679.5	654.5	679.5	705.5	755.5	787.5	847.5	860.5	890.5	928.5	953.5	980.0	1 040.0	1 085.5
kB	666.0	706.0	723.0	758.0	727.5	752.5	810.0	860.0	903.5	963.5	989.5	1 019.5	1 075.5	1 100.5	1 208.0	1 268.0	1 310.5
LB	309.0	349.0	357.5	392.5	367.5	392.5	418.5	468.5	500.5	560.5	573.5	603.5	641.5	666.5	693.0	753.0	798.5
LBL	379.0	419.0	436.0	471.0	440.5	465.5	523.0	573.0	616.5	676.5	702.5	732.5	788.5	813.5	921.0	981.0	1 023.5

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑨ For pin holes see page 4/124 ⑪ Use bores only for foot-mounted design

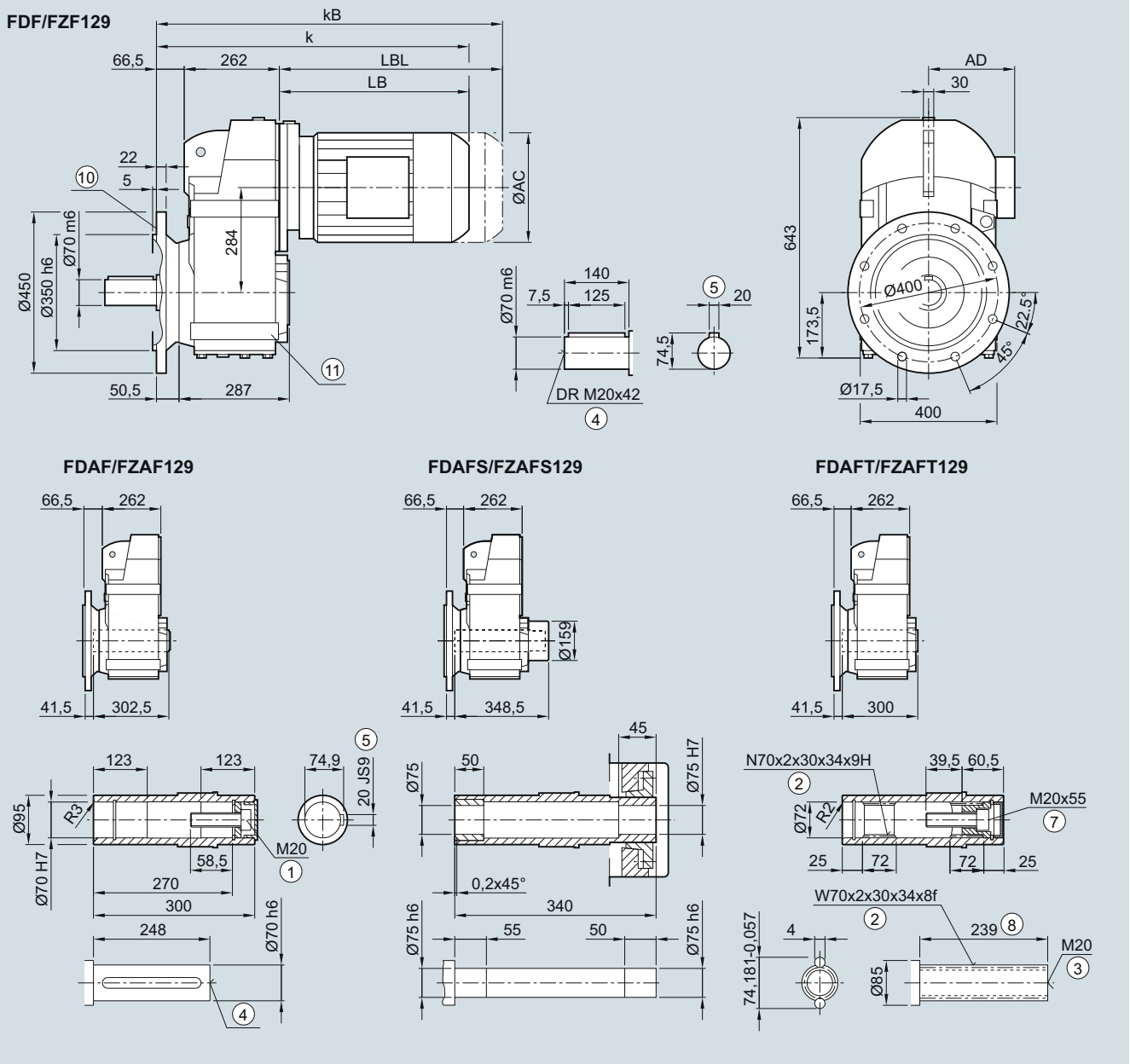
1) AD depends on the motor options, for other dimensions see page 8/36.

2) FDAS/FZAS not possible

4

FD.F./FZ.F.129 gearbox in a flange-mounted design

FF030, FAF030, FAFS030, FAFT030

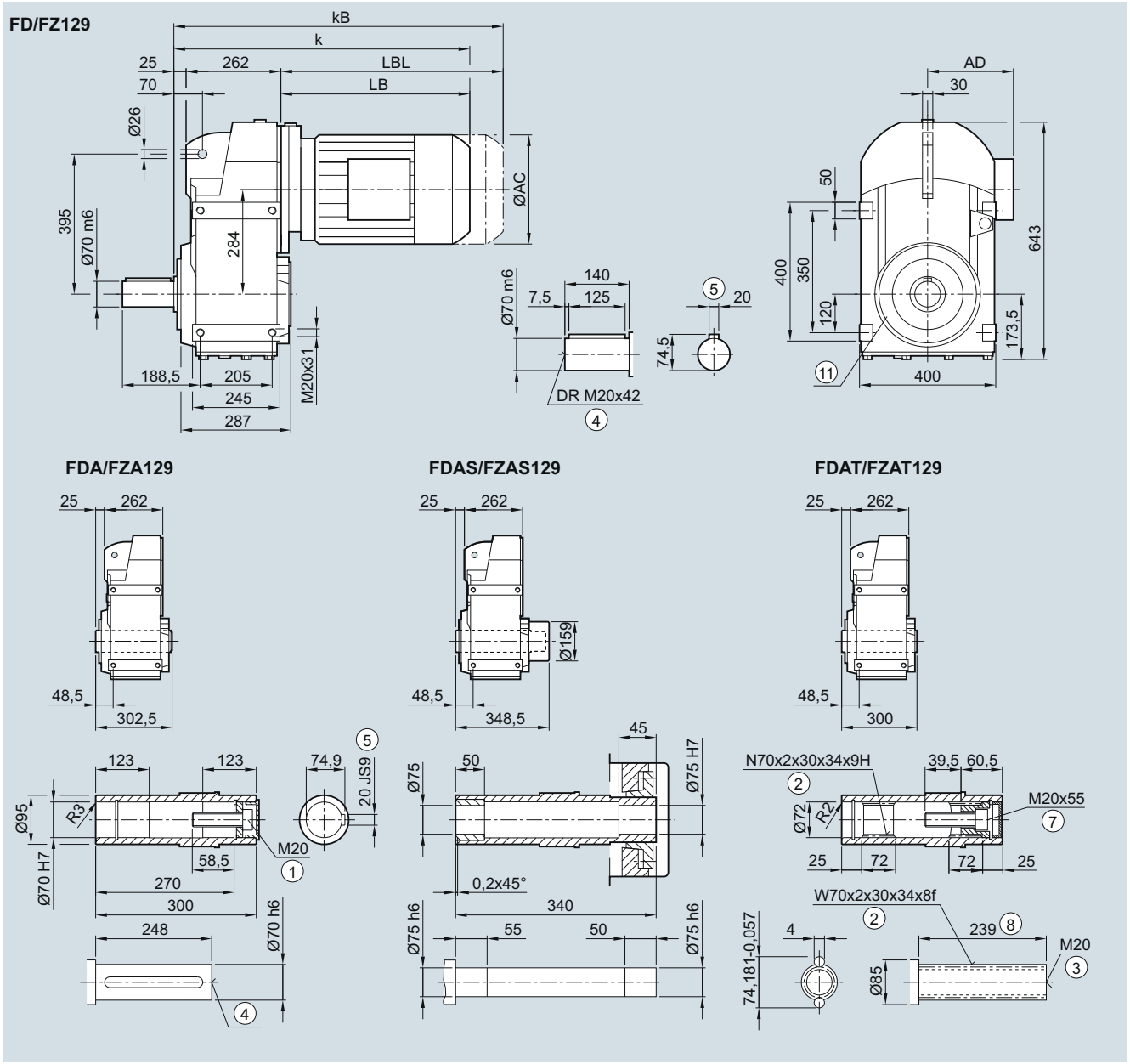


Motor	LE 90	90Z	100	100Z	112	112Z	132	132Z	160	160Z	LES 180	180Z	200	200Z	225	225Y	250[2]
AC	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD[1]	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	382.0	382.0	457.5
k	637.5	677.5	686.0	721.0	696.0	721.0	747.0	797.0	829.0	889.0	902.0	932.0	970.0	995.0	1 021.5	1 081.5	1 127.0
kB	707.5	747.5	764.5	799.5	769.0	794.0	851.5	901.5	945.0	1 005.0	1 031.0	1 061.0	1 117.0	1 142.0	1 249.5	1 309.5	1 352.0
LB	309.0	349.0	357.5	392.5	367.5	392.5	418.5	468.5	500.5	560.5	573.5	603.5	641.5	666.5	693.0	753.0	798.5
LBL	379.0	419.0	436.0	471.0	440.5	465.5	523.0	573.0	616.5	676.5	702.5	732.5	788.5	813.5	921.0	981.0	1 023.5

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑩ For inner contour see page 4/123 ⑪ Use bores only for foot-mounted design
1) AD depends on the motor options, for other dimensions see page 8/36.
2) FDAS/FZAS not possible

FD../FZ..129 gearbox in a foot-mounted design

F030, FA030, FAS030, FAT030



Motor	LE 90	90Z	100	100Z	112	112Z	132	132Z	160	160Z	LES 180	180Z	200	200Z	225	225Y	250[2]
AC	173.8	173.8	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD[1]	154.2	154.2	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	382.0	382.0	457.5
k	596.0	636.0	644.5	679.5	654.5	679.5	705.5	755.5	787.5	847.5	860.5	890.5	928.5	953.5	980.0	1 040.0	1 085.5
kB	666.0	706.0	723.0	758.0	727.5	752.5	810.0	860.0	903.5	963.5	989.5	1 019.5	1 075.5	1 100.5	1 208.0	1 268.0	1 310.5
LB	309.0	349.0	357.5	392.5	367.5	392.5	418.5	468.5	500.5	560.5	573.5	603.5	641.5	666.5	693.0	753.0	798.5
LBL	379.0	419.0	436.0	471.0	440.5	465.5	523.0	573.0	616.5	676.5	702.5	732.5	788.5	813.5	921.0	981.0	1 023.5

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for housing flange design

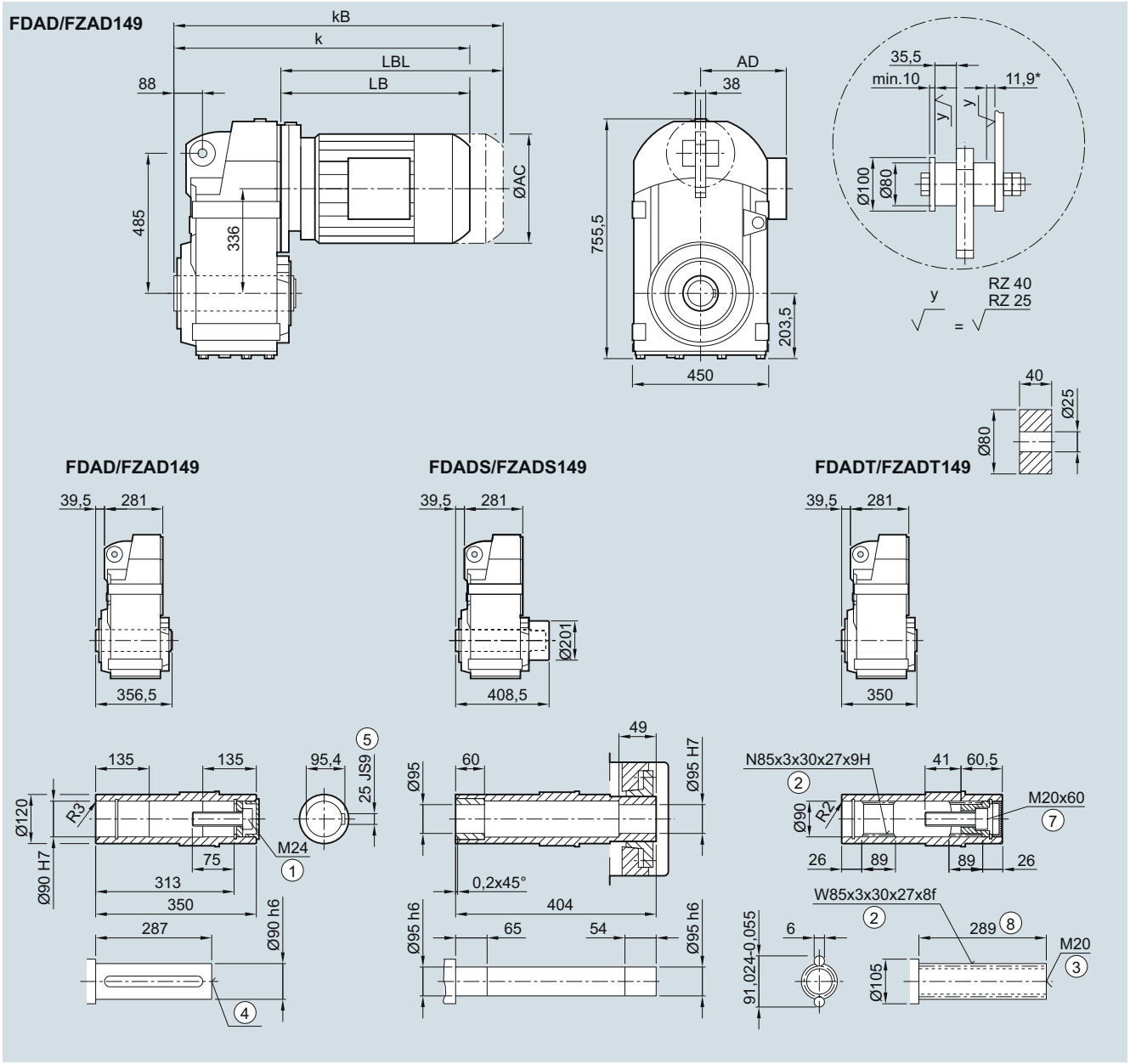
[1] AD depends on the motor options, for other dimensions see page 8/36.

[2] FDAS/FZAS not possible

4

FDAD./FZAD.149 gearbox in a shaft-mounted design

FAD030, FADS030, FADT030



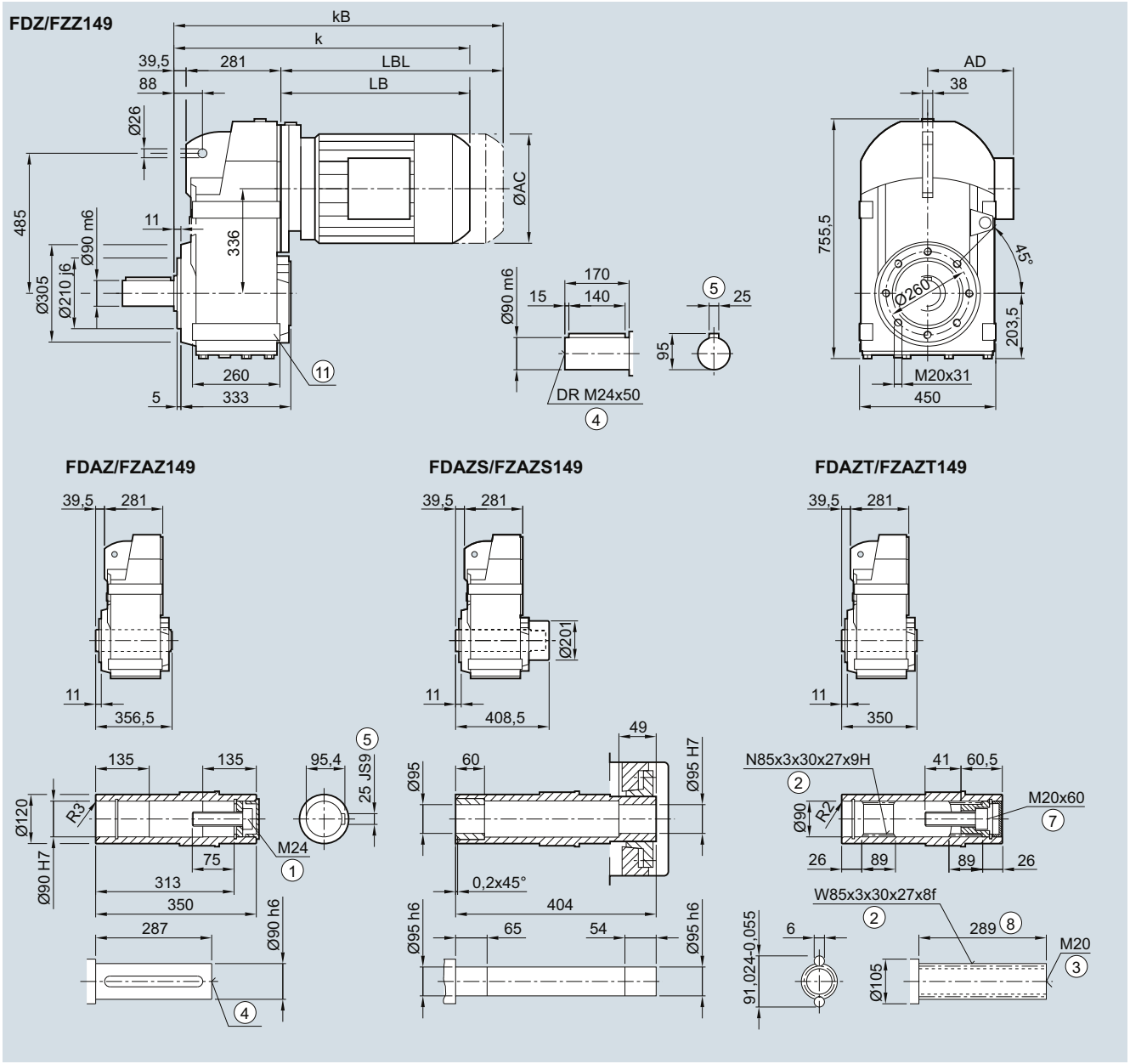
Motor	LE								LES						
	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y	250
AC	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD[1)]	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	382.0	382.0	457.5
k	676.5	711.5	686.5	711.5	732.5	782.5	814.5	874.5	887.5	917.5	955.5	980.5	1 000.5	1 060.5	1 112.0
kB	755.0	790.0	759.5	784.5	837.0	887.0	930.5	990.5	1 016.5	1 046.5	1 102.5	1 127.5	1 229.0	1 289.0	1 337.0
LB	356.0	391.0	366.0	391.0	412.0	462.0	494.0	554.0	567.0	597.0	635.0	660.0	680.5	740.5	792.0
LBL	434.5	469.5	439.0	464.0	516.5	566.5	610.0	670.0	696.0	726.0	782.0	807.0	908.5	968.5	1 017.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm

1) AD depends on the motor options, for other dimensions see page 8/36. * Spring compression at max. torque

FD.Z./FZ.Z.149 gearbox in a housing flange design

FZ030, FAZ030, FAZS030, FAZT030



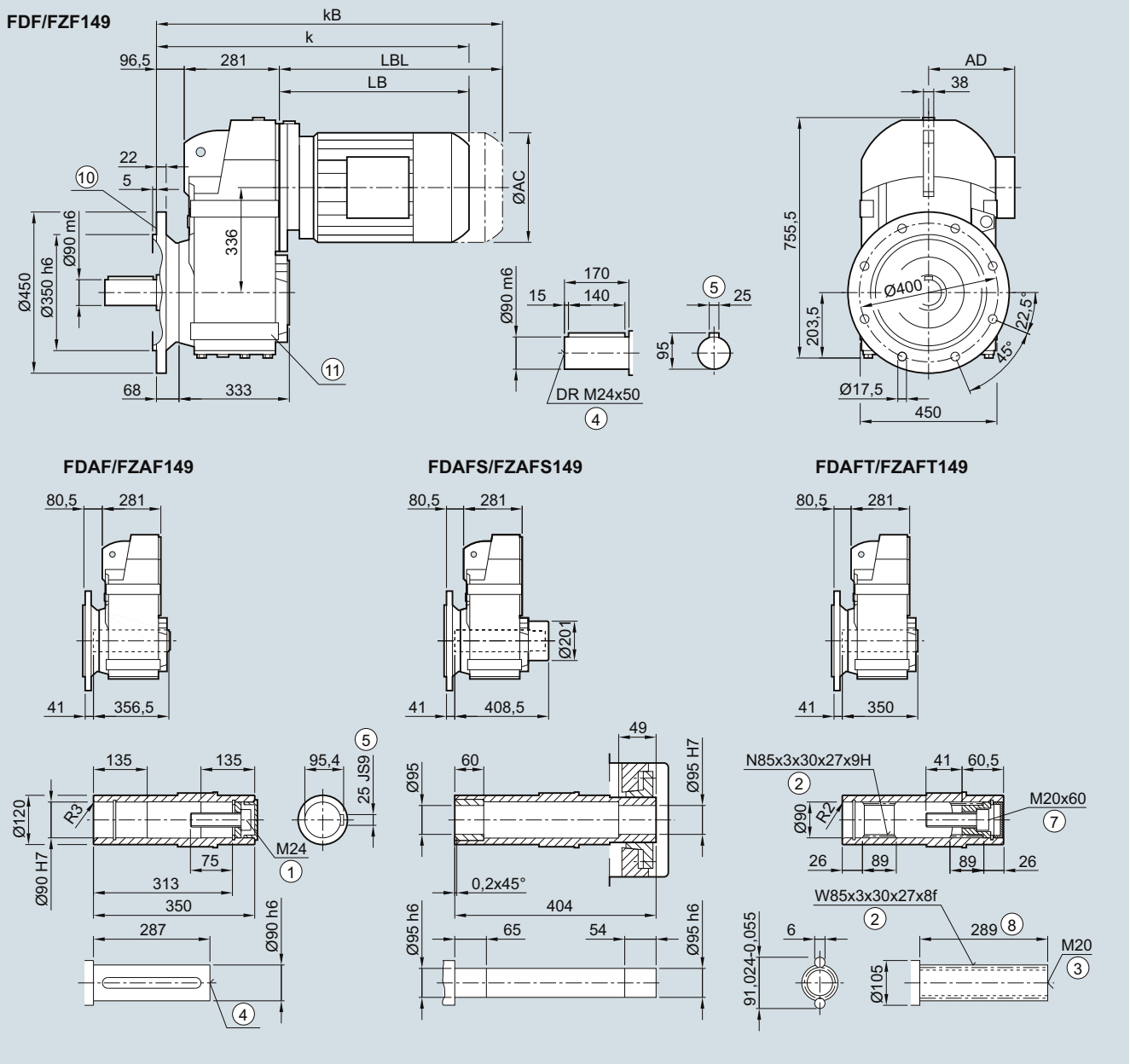
Motor	LE								LES						
	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y	250
AC	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD[1)]	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	382.0	382.0	457.5
k	676.5	711.5	686.5	711.5	732.5	782.5	814.5	874.5	887.5	917.5	955.5	980.5	1 000.5	1 060.5	1 112.0
kB	755.0	790.0	759.5	784.5	837.0	887.0	930.5	990.5	1 016.5	1 046.5	1 102.5	1 127.5	1 229.0	1 289.0	1 337.0
LB	356.0	391.0	366.0	391.0	412.0	462.0	494.0	554.0	567.0	597.0	635.0	660.0	680.5	740.5	792.0
LBL	434.5	469.5	439.0	464.0	516.5	566.5	610.0	670.0	696.0	726.0	782.0	807.0	908.5	968.5	1 017.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for foot-mounted design

1) AD depends on the motor options, for other dimensions see page 8/36.

FD.F./FZ.F.149 gearbox in a flange-mounted design

FF030, FAF030, FAFS030, FAFT030

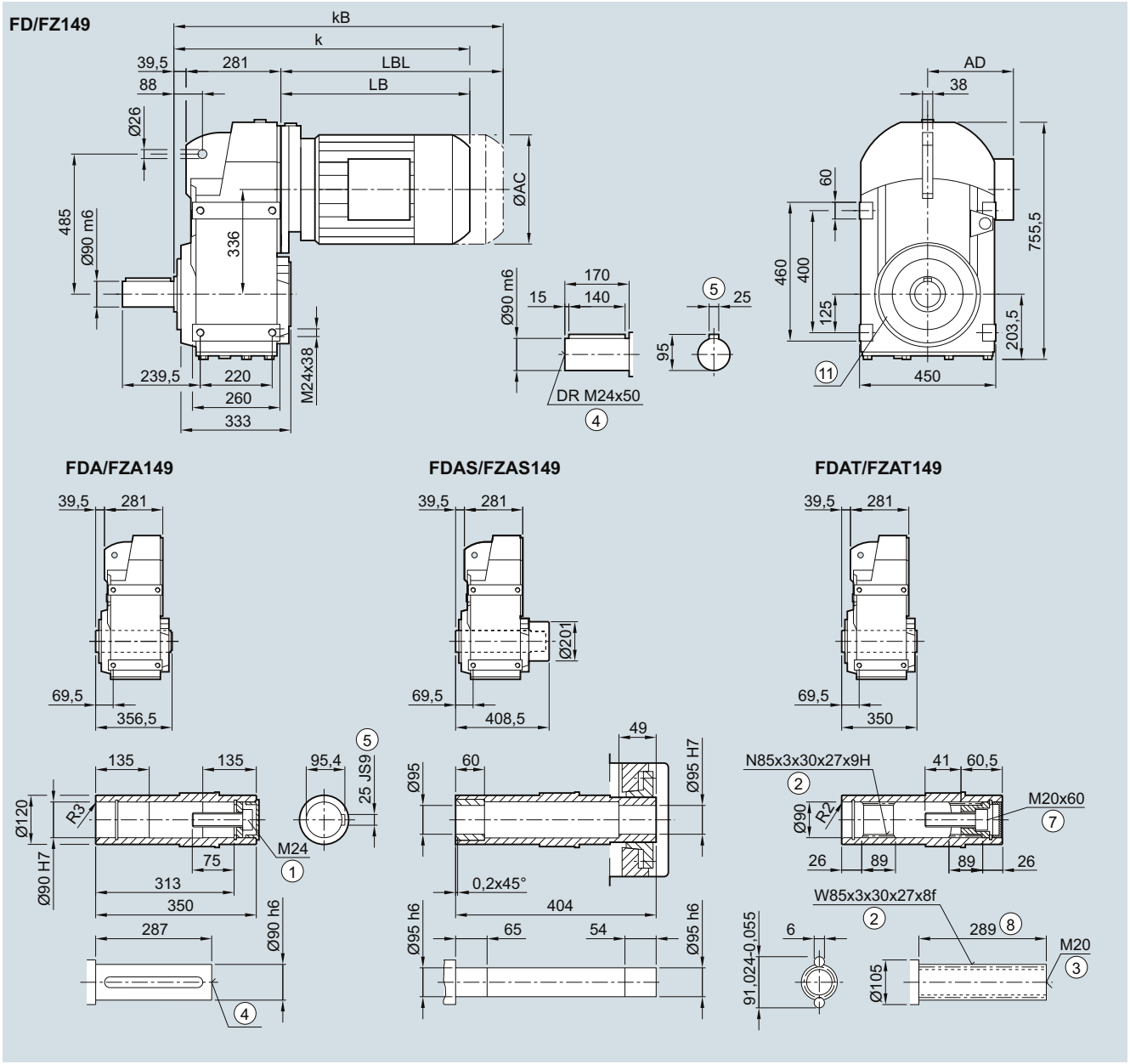


Motor	LE 100	100Z	112	112Z	132	132Z	160	160Z	LES 180	180Z	200	200Z	225	225Y	250
AC	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD[1)]	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	382.0	382.0	457.5
k	734.0	769.0	744.0	769.0	790.0	840.0	872.0	932.0	945.0	975.0	1 013.0	1 038.0	1 058.5	1 118.5	1 170.0
kB	812.5	847.5	817.0	842.0	894.5	944.5	988.0	1 048.0	1 074.0	1 104.0	1 160.0	1 185.0	1 286.5	1 346.5	1 395.0
LB	356.0	391.0	366.0	391.0	412.0	462.0	494.0	554.0	567.0	597.0	635.0	660.0	680.5	740.5	792.0
LBL	434.5	469.5	439.0	464.0	516.5	566.5	610.0	670.0	696.0	726.0	782.0	807.0	908.5	968.5	1 017.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑩ For inner contour see page 4/123 ⑪ Use bores only for foot-mounted design
1) AD depends on the motor options, for other dimensions see page 8/36.

FD../FZ..149 gearbox in a foot-mounted design

F030, FA030, FAS030, FAT030



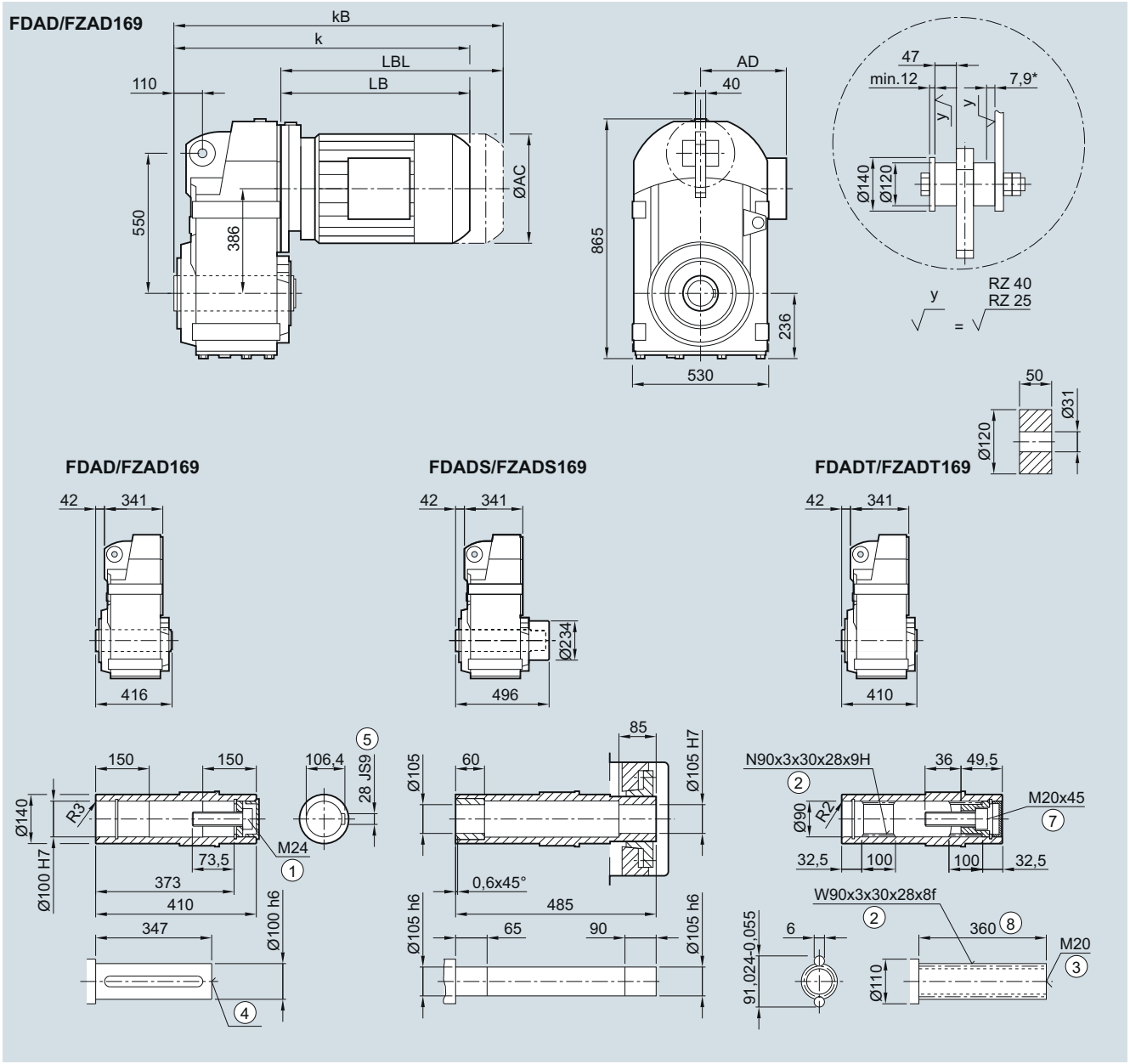
Motor	LE								LES						
	100	100Z	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y	250
AC	198.0	198.0	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD[1)]	170.5	170.5	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	382.0	382.0	457.5
k	676.5	711.5	686.5	711.5	732.5	782.5	814.5	874.5	887.5	917.5	955.5	980.5	1 000.5	1 060.5	1 112.0
kB	755.0	790.0	759.5	784.5	837.0	887.0	930.5	990.5	1 016.5	1 046.5	1 102.5	1 127.5	1 229.0	1 289.0	1 337.0
LB	356.0	391.0	366.0	391.0	412.0	462.0	494.0	554.0	567.0	597.0	635.0	660.0	680.5	740.5	792.0
LBL	434.5	469.5	439.0	464.0	516.5	566.5	610.0	670.0	696.0	726.0	782.0	807.0	908.5	968.5	1 017.0

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for housing flange design

1) AD depends on the motor options, for other dimensions see page 8/36.

FDAD./FZAD.169 gearbox in a shaft-mounted design

FAD030, FADS030, FADT030

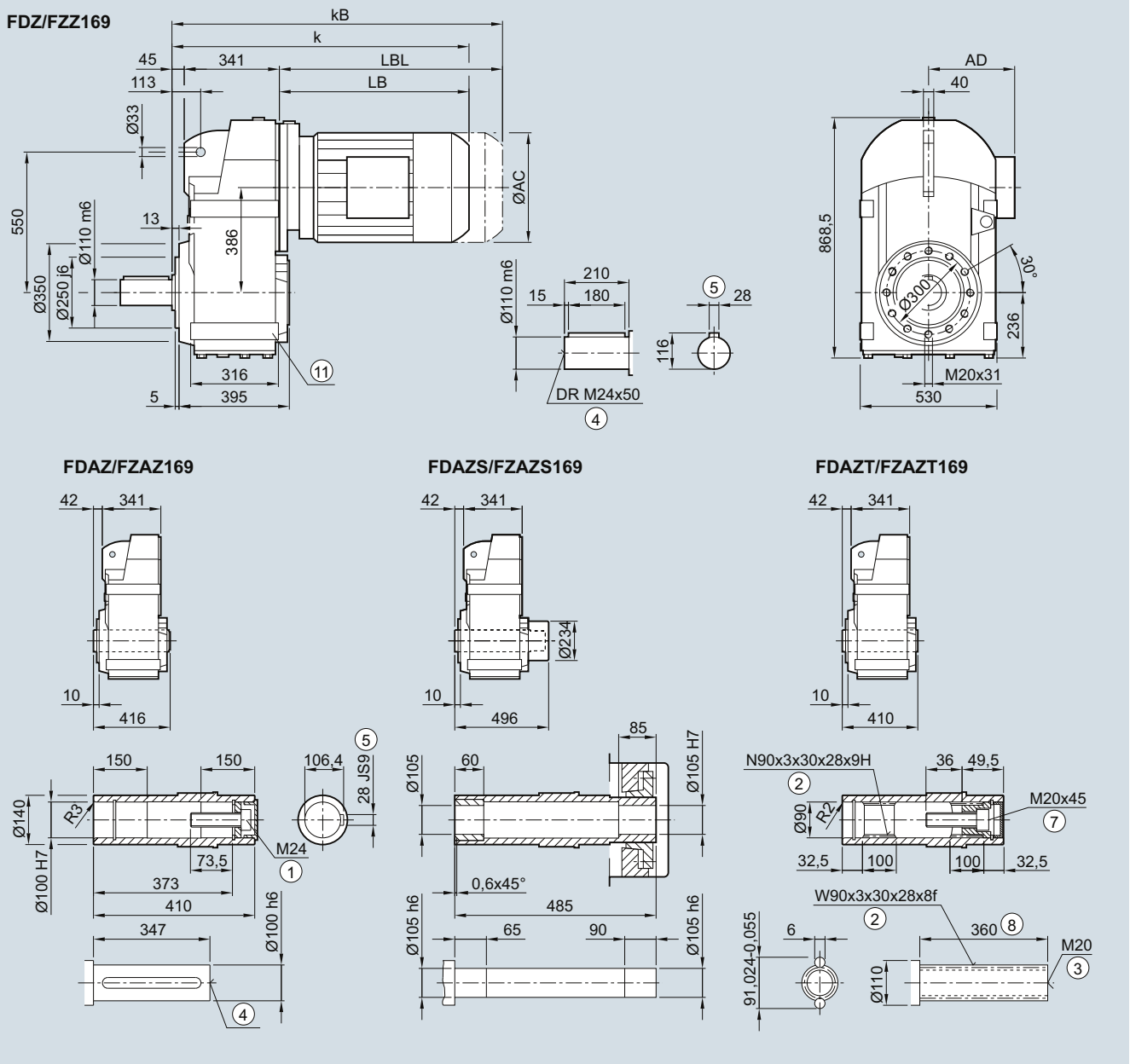


Motor	LE						LES						
	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y	250
AC	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD[1)]	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	382.0	382.0	457.0
k	739.5	764.5	785.0	835.0	867.0	927.0	939.5	969.5	1 007.5	1 032.5	1 052.5	1 112.0	1 159.5
kB	812.5	837.5	889.5	939.5	983.0	1 043.0	1 068.5	1 098.5	1 154.5	1 179.5	1 280.0	1 340.0	1 384.5
LB	353.5	378.5	399.0	449.0	481.0	541.0	553.5	583.0	621.5	646.5	666.0	726.0	773.5
LBL	426.5	451.5	503.5	553.5	597.0	657.0	682.5	712.5	768.5	793.5	894.0	954.0	998.5

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
1) AD depends on the motor options, for other dimensions see page 8/36. * Spring compression at max. torque

FD.Z./FZ.Z.169 gearbox in a housing flange design

FZ030, FAZ030, FAZS030, FAZT030



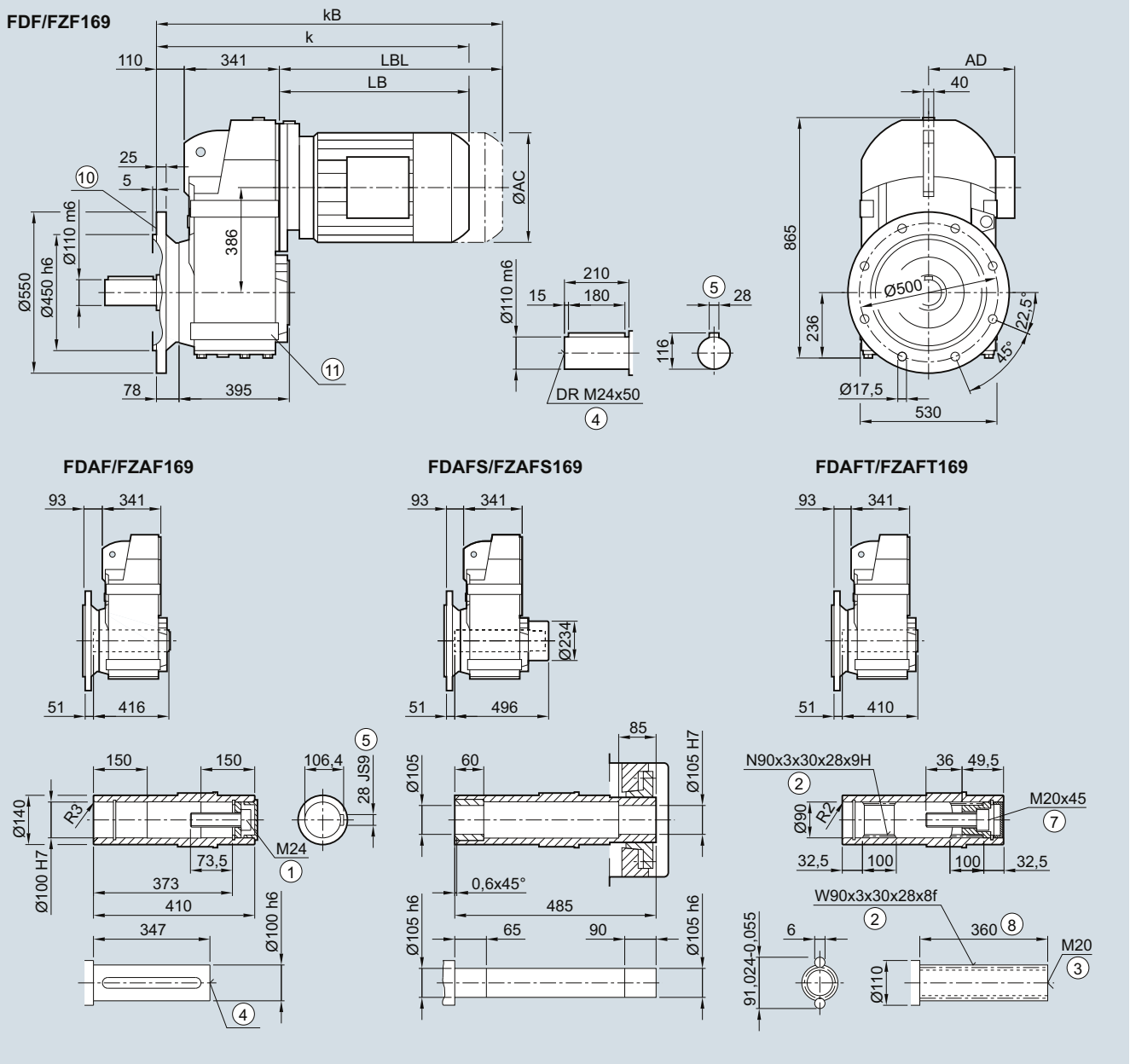
Motor	LE						LES						
	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y	250
AC	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD[1)]	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	382.0	382.0	457.0
k	739.5	764.5	785.0	835.0	867.0	927.0	939.5	969.5	1 007.5	1 032.5	1 052.5	1 112.0	1 159.5
kB	812.5	837.5	889.5	939.5	983.0	1 043.0	1 068.5	1 098.5	1 154.5	1 179.5	1 280.0	1 340.0	1 384.5
LB	353.5	378.5	399.0	449.0	481.0	541.0	553.5	583.0	621.5	646.5	666.0	726.0	773.5
LBL	426.5	451.5	503.5	553.5	597.0	657.0	682.5	712.5	768.5	793.5	894.0	954.0	998.5

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for foot-mounted design

1) AD depends on the motor options, for other dimensions see page 8/36.

FD.F./FZ.F.169 gearbox in a flange-mounted design

FF030, FAF030, FAFS030, FAFT030

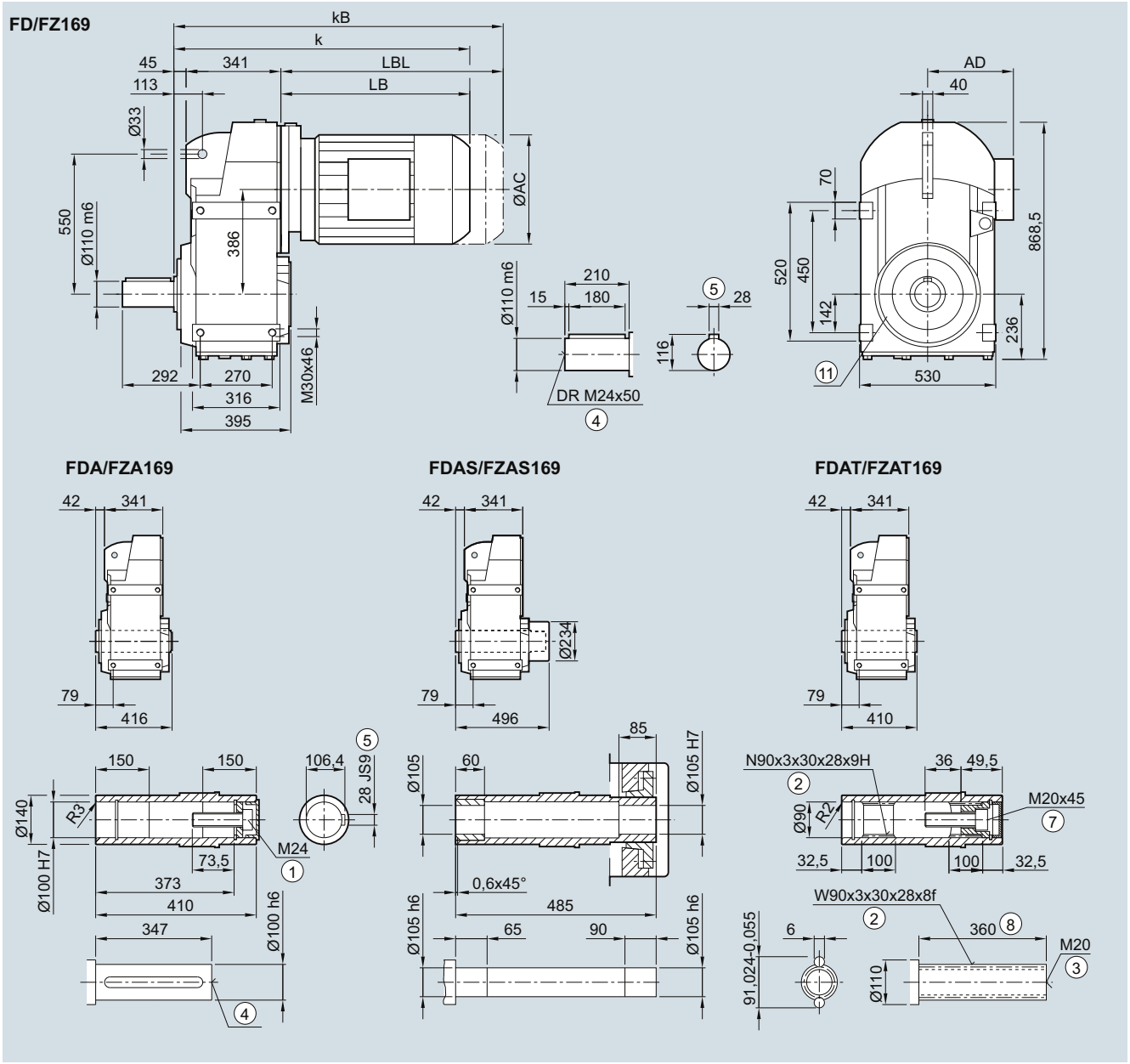


Motor	LE 112	112Z	132	132Z	160	160Z	LES 180	180Z	200	200Z	225	225Y	250
AC	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD[1)]	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	382.0	382.0	457.5
k	804.5	829.5	850.0	900.0	932.0	992.0	1 004.5	1 034.5	1 072.5	1 097.5	1 117.0	1 177.0	1 224.5
kB	877.5	902.5	954.5	1 004.5	1 048.0	1 108.0	1 133.5	1 163.5	1 219.5	1 244.5	1 345.0	1 405.0	1 449.5
LB	353.5	378.5	399.0	449.0	481.0	541.0	553.5	583.5	621.5	646.5	666.0	726.0	773.5
LBL	426.5	451.5	503.5	553.5	597.0	657.0	682.5	712.5	768.5	793.5	894.0	954.0	998.5

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑩ For inner contour see page 4/123 ⑪ Use bores only for foot-mounted design
1) AD depends on the motor options, for other dimensions see page 8/36.

FD../FZ..169 gearbox in a foot-mounted design

F030, FA030, FAS030, FAT030



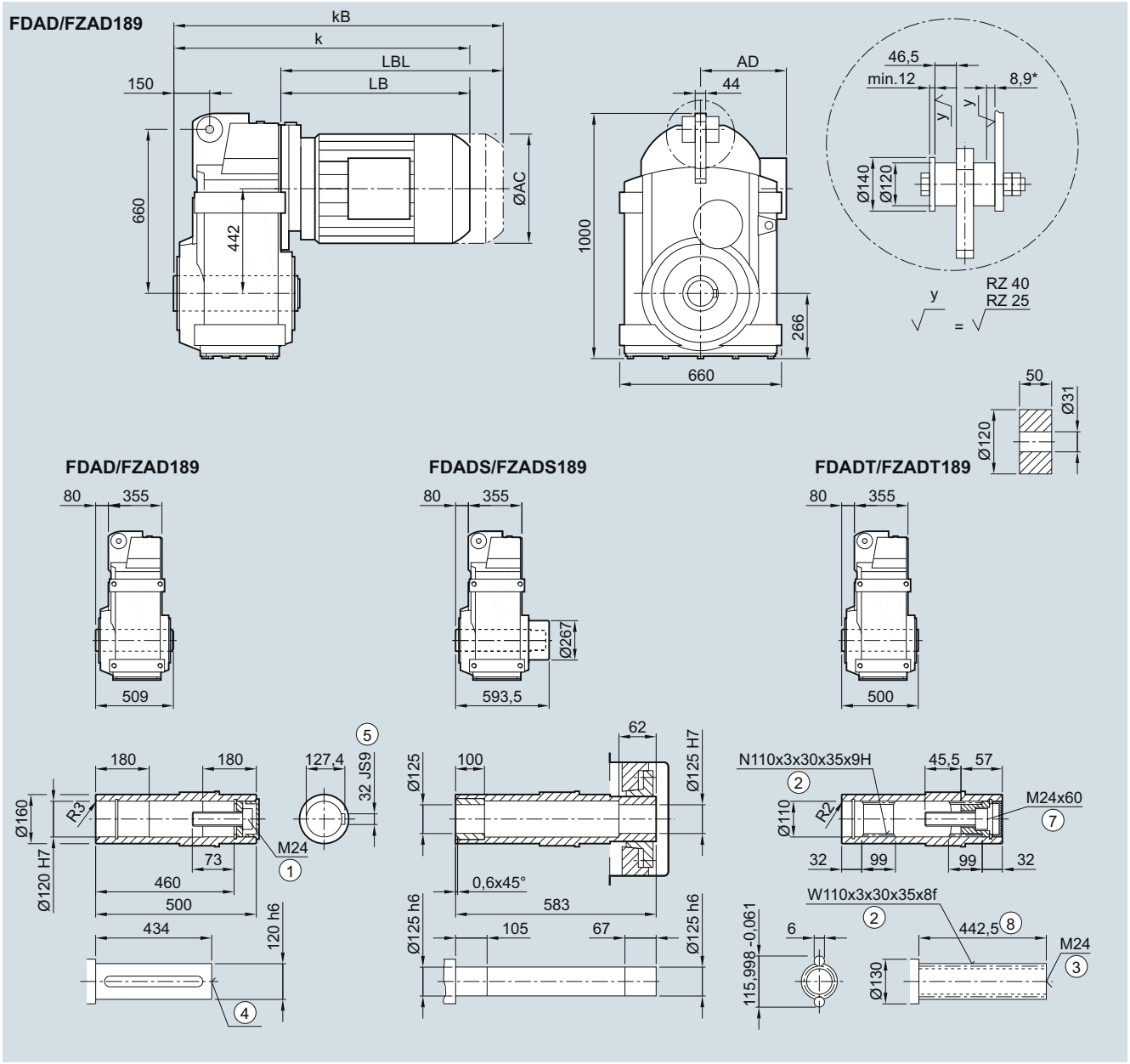
Motor	LE						LES						
	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y	250
AC	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD[1)]	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	382.0	382.0	457.0
k	739.5	764.5	785.0	835.0	867.0	927.0	939.5	969.5	1 007.5	1 032.5	1 052.5	1 112.0	1 159.5
kB	812.5	837.5	889.5	939.5	983.0	1 043.0	1 068.5	1 098.5	1 154.5	1 179.5	1 280.0	1 340.0	1 384.5
LB	353.5	378.5	399.0	449.0	481.0	541.0	553.5	583.0	621.5	646.5	666.0	726.0	773.5
LBL	426.5	451.5	503.5	553.5	597.0	657.0	682.5	712.5	768.5	793.5	894.0	954.0	998.5

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for housing flange design

1) AD depends on the motor options, for other dimensions see page 8/36.

FDAD./FZAD.189 gearbox in a shaft-mounted design

FAD030, FADS030, FADT030



Motor	LE 112	112Z	132	132Z	160	160Z	LES 180	180Z	200	200Z	225	225Y	250
AC	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD[1)]	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	382.0	382.0	457.5
k	788.5	813.5	834.0	884.0	916.0	976.0	988.5	1 018.5	1 056.5	1 081.5	1 101.0	1 161.0	1 208.5
kB	861.5	886.5	938.5	988.5	1 032.0	1 092.0	1 117.5	1 147.5	1 203.5	1 228.5	1 329.0	1 389.0	1 433.5
LB	353.5	378.5	399.0	449.0	481.0	541.0	553.5	583.5	621.5	646.5	666.0	726.0	773.5
LBL	426.5	451.5	503.5	553.5	597.0	657.0	682.5	712.5	768.5	793.5	894.0	954.0	998.5

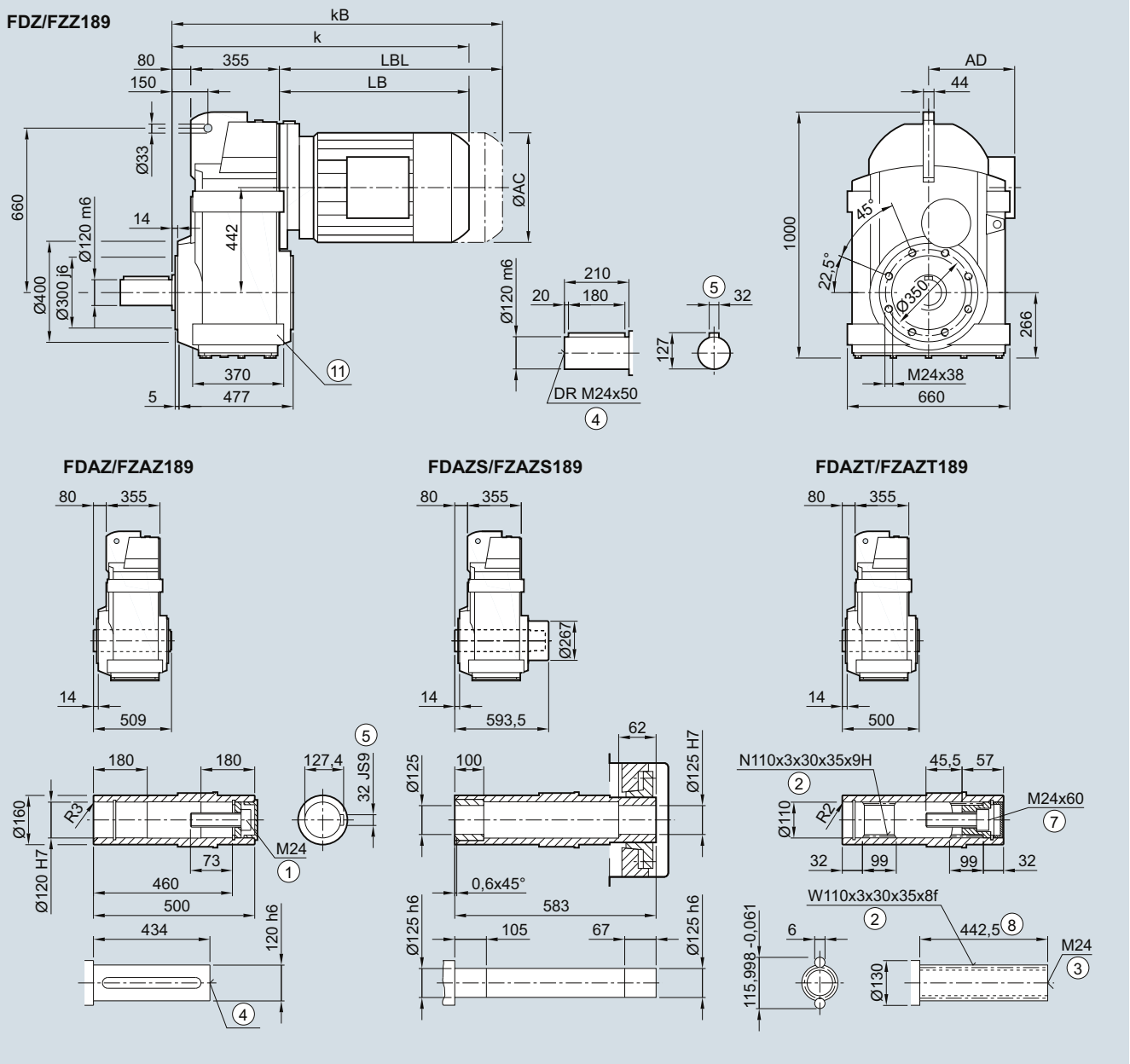
① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for foot-mounted design

1) AD depends on the motor options, for other dimensions see page 8/36.

* Spring compression at max. torque

FD.Z./FZ.Z.189 gearbox in a housing flange design

FZ030, FAZ030, FAZS030, FAZT030



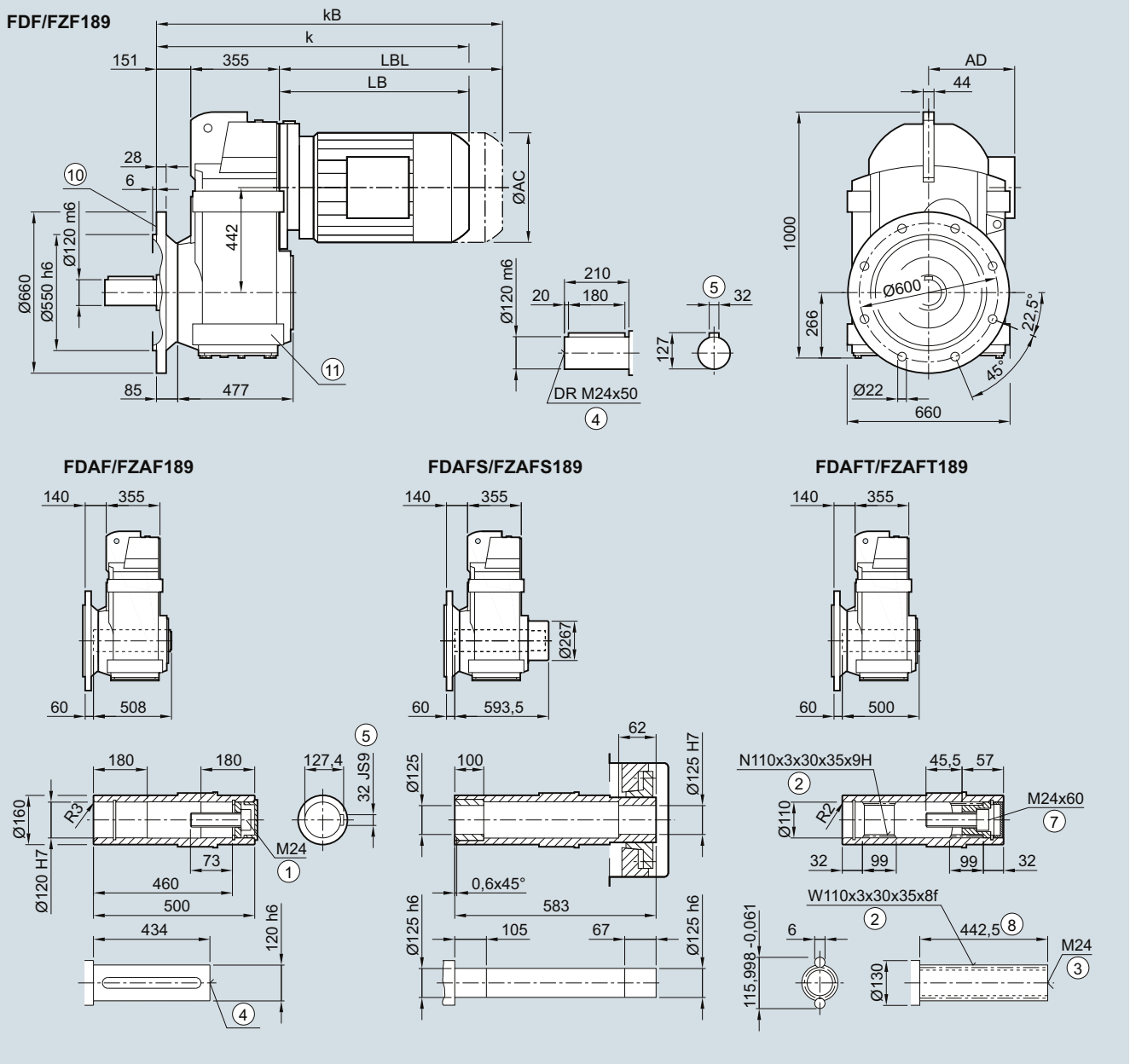
Motor	LE						LES						
	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y	250
AC	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD[1)]	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	382.0	382.0	457.5
k	788.5	813.5	834.0	884.0	916.0	976.0	988.5	1 018.5	1 056.5	1 081.5	1 101.0	1 161.0	1 208.5
kB	861.5	886.5	938.5	988.5	1 032.0	1 092.0	1 117.5	1 147.5	1 203.5	1 228.5	1 329.0	1 389.0	1 433.5
LB	353.5	378.5	399.0	449.0	481.0	541.0	553.5	583.5	621.5	646.5	666.0	726.0	773.5
LBL	426.5	451.5	503.5	553.5	597.0	657.0	682.5	712.5	768.5	793.5	894.0	954.0	998.5

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for foot-mounted design

1) AD depends on the motor options, for other dimensions see page 8/36.

FD.F./FZ.F.189 gearbox in a flange-mounted design

FF030, FAF030, FAFS030, FAFT030



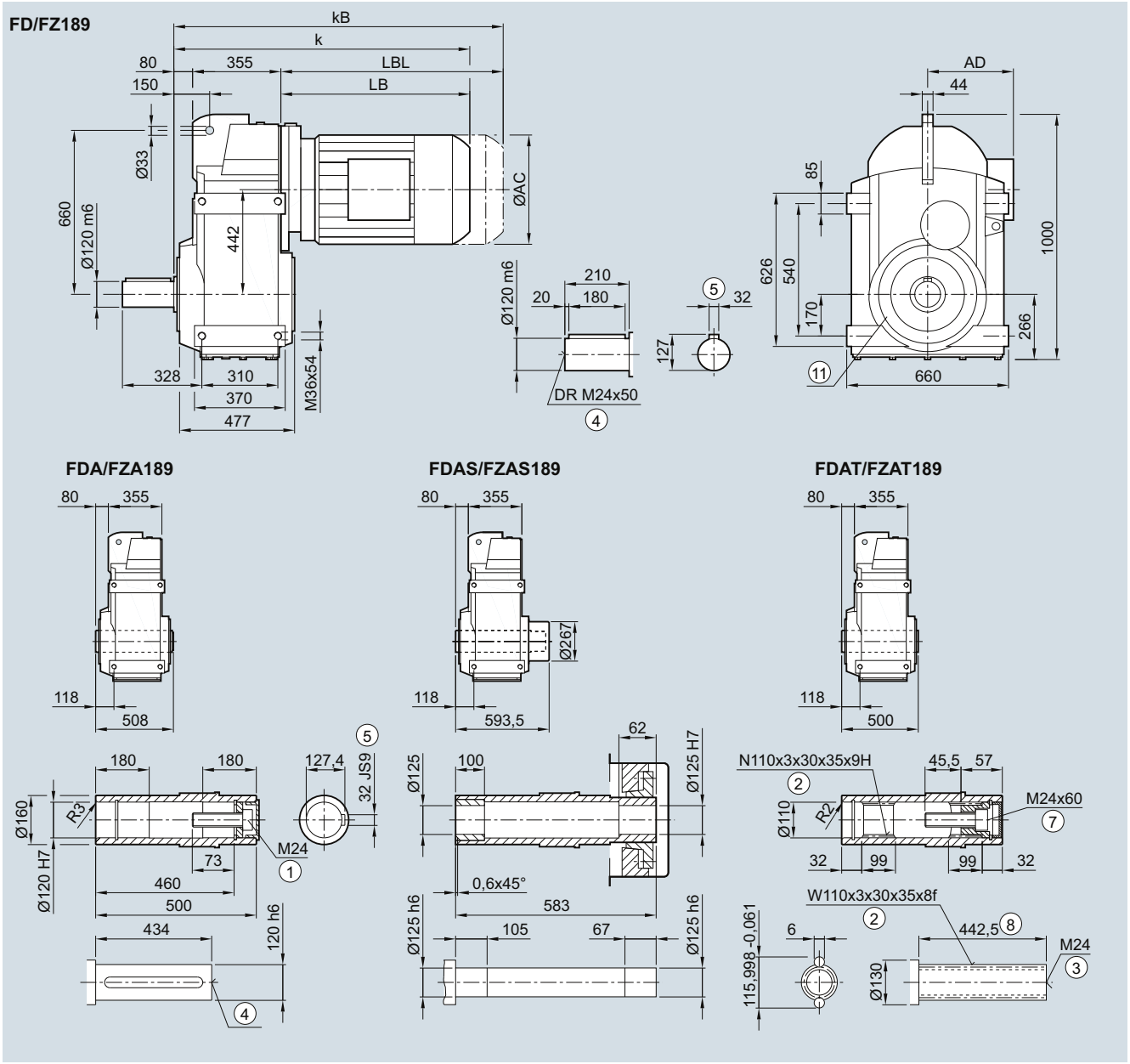
Motor	LE 112	112Z	132	132Z	160	160Z	LES 180	180Z	200	200Z	225	225Y	250
AC	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD[1)]	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	382.0	382.0	457.5
k	859.5	884.5	905.0	955.0	987.0	1 047.0	1 059.5	1 089.5	1 127.5	1 152.5	1 172.0	1 232.0	1 279.5
kB	932.5	957.5	1 009.5	1 059.5	1 103.0	1 163.0	1 188.5	1 218.5	1 274.5	1 299.5	1 400.0	1 460.0	1 504.5
LB	353.5	378.5	399.0	449.0	481.0	541.0	553.5	583.5	621.5	646.5	666.0	726.0	773.5
LBL	426.5	451.5	503.5	553.5	597.0	657.0	682.5	712.5	768.5	793.5	894.0	954.0	998.5

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑩ For inner contour see page 4/123 ⑪ Use bores only for foot-mounted design

1) AD depends on the motor options, for other dimensions see page 8/36.

FD../FZ..189 gearbox in a foot-mounted design

F030, FA030, FAS030, FAT030



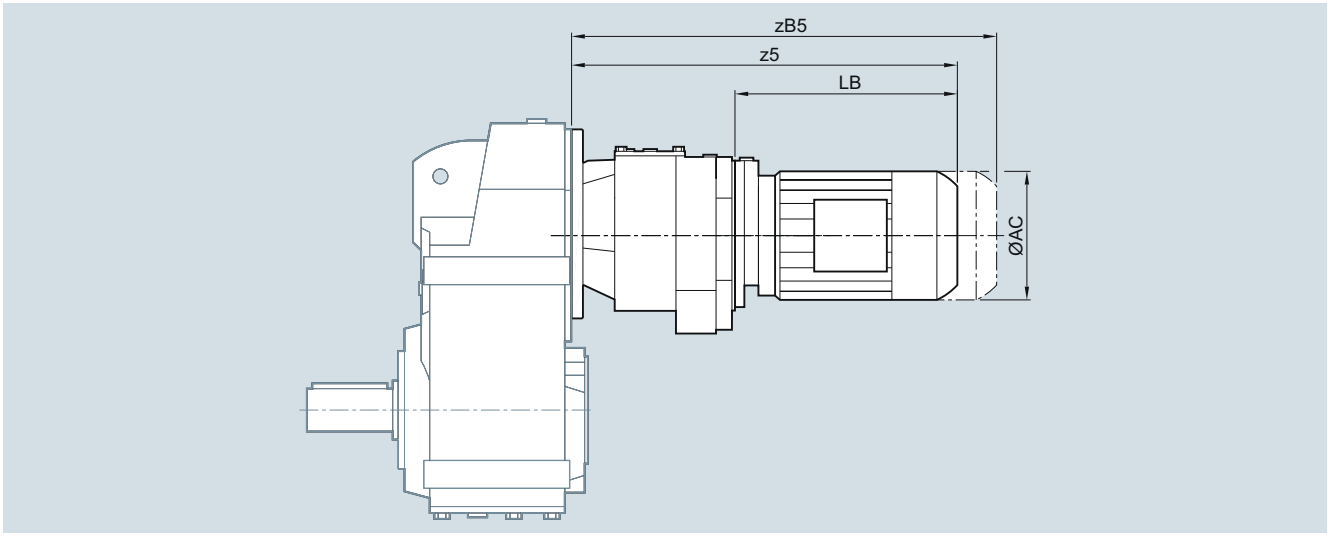
Motor	LE						LES						
	112	112Z	132	132Z	160	160Z	180	180Z	200	200Z	225	225Y	250
AC	222.0	222.0	264.0	264.0	318.0	318.0	352.5	352.5	392.5	392.5	439.0	439.0	487.0
AD[1)]	181.5	181.5	207.0	207.0	241.0	241.0	292.0	292.0	315.0	315.0	382.0	382.0	457.5
k	788.5	813.5	834.0	884.0	916.0	976.0	988.5	1 018.5	1 056.5	1 081.5	1 101.0	1 161.0	1 208.5
kB	861.5	886.5	938.5	988.5	1 032.0	1 092.0	1 117.5	1 147.5	1 203.5	1 228.5	1 329.0	1 389.0	1 433.5
LB	353.5	378.5	399.0	449.0	481.0	541.0	553.5	583.5	621.5	646.5	666.0	726.0	773.5
LBL	426.5	451.5	503.5	553.5	597.0	657.0	682.5	712.5	768.5	793.5	894.0	954.0	998.5

① ISO 4014 ② DIN 5480 ③ DIN 332-D ④ DIN 332 ⑤ Feather key/keyway DIN 6885-1 ⑦ ISO 4762 ⑧ Without locating shoulder +1 mm
⑪ Use bores only for housing flange design

1) AD depends on the motor options, for other dimensions see page 8/36.

Dimensions

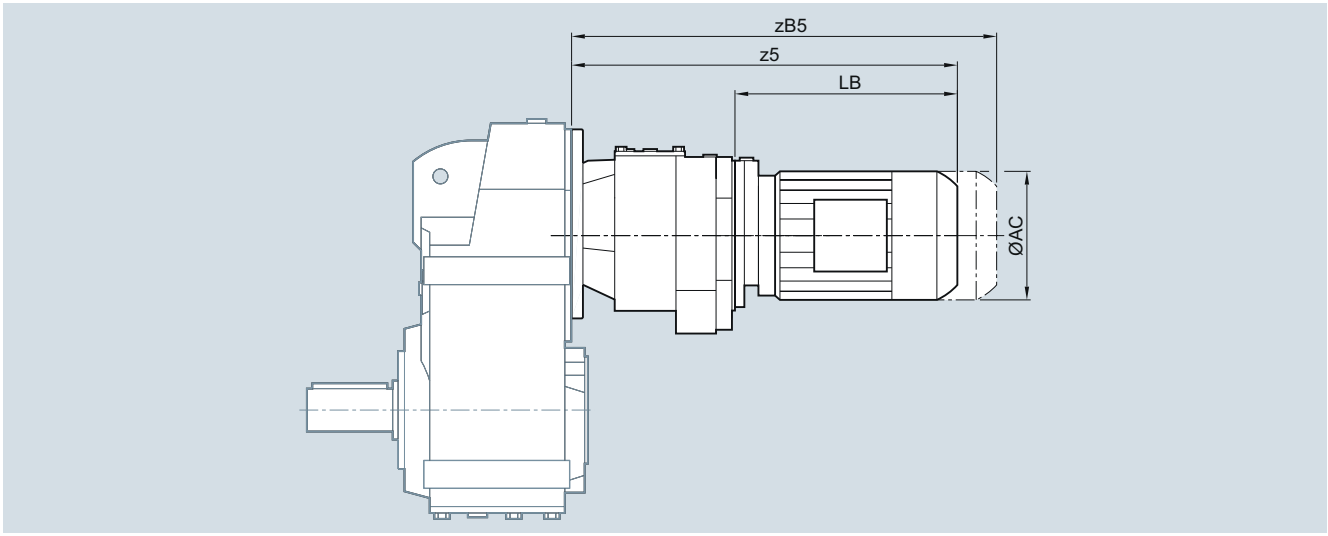
Parallel shaft tandem geared motors



Gearbox	Motor	AC	z5	zB5	LB
FD../FZ..29-D/Z19	LA63	117.8	331.0	375.5	160.5
FD../FZ..39-D/Z19	LA63	117.8	331.0	375.5	160.5
	LA71	138.8	363.0	418.0	184.5
	LA71Z	138.8	382.0	437.0	203.5
FD../FZ..49-D/Z19	LA63	117.8	322.0	366.5	160.5
	LA71	138.8	354.0	409.0	184.5
	LA71Z	138.8	373.0	428.0	203.5
	LE80	156.3	410.0	470.0	240.0
	LE80Z	156.3	445.0	505.0	275.0
FD../FZ..69-D/Z19	LA63	117.8	322.0	366.5	160.5
	LA71	138.8	354.0	409.0	184.5
	LA71Z	138.8	373.0	428.0	203.5
	LE80	156.3	410.0	470.0	240.0
	LE80Z	156.3	445.0	505.0	275.0
FD../FZ..79-D/Z39	LA63	117.8	373.5	418.0	194.0
	LA71	138.8	405.5	460.5	226.0
	LA71Z	138.8	424.5	479.5	245.0
	LE80	156.3	469.5	529.5	290.0
	LE80Z	156.3	504.5	564.5	325.0
FD../FZ..89-D/Z39	LA63	117.8	356.5	401.0	194.0
	LA71	138.8	388.5	443.5	226.0
	LA71Z	138.8	407.5	462.5	245.0
	LE80	156.3	452.5	512.5	290.0
	LE80Z	156.3	487.5	547.5	325.0
	LE90	173.8	514.0	584.0	351.5
	LE90Z	173.8	554.0	624.0	391.5
FD..109-D/Z39	LA63	117.8	347.5	392.0	194.0
	LA71	138.8	379.5	434.5	226.0
	LA71Z	138.8	398.5	453.5	245.0
	LE80	156.3	443.5	503.5	290.0
	LE80Z	156.3	478.5	538.5	325.0
	LE90	173.8	505.0	575.0	351.5
	LE90Z	173.8	545.0	615.0	391.5
	LE100	198.0	561.5	640.0	408.0
	LE100Z	198.0	596.5	675.0	443.0

Gearbox	Motor	AC	z5	zB5	LB
FD..129-D/Z49	LA63	117.8	376.5	421.0	184.5
	LA71	138.8	408.5	463.5	216.5
	LA71Z	138.8	427.5	482.5	235.5
	LE80	156.3	472.5	532.5	280.5
	LE80Z	156.3	507.5	567.5	315.5
	LE90	173.8	534.0	604.0	342.0
	LE90Z	173.8	574.0	644.0	382.0
	LE100	198.0	590.5	669.0	398.5
	LE100Z	198.0	625.5	704.0	433.5
	LE112	222.0	600.5	673.5	408.5
	LE112Z	222.0	635.0	708.0	443.0
FD..149-D/Z49	LA63	117.8	366.0	410.5	184.5
	LA71	138.8	398.0	453.0	216.5
	LA71Z	138.8	417.0	472.0	235.5
	LE80	156.3	462.0	522.0	280.5
	LE80Z	156.3	497.0	557.0	315.5
	LE90	173.8	523.5	593.5	342.0
	LE90Z	173.8	563.5	633.5	382.0
	LE100	198.0	580.0	658.5	398.5
	LE100Z	198.0	615.0	693.5	433.5
	LE112	222.0	590.0	663.0	408.5
	LE112Z	222.0	624.5	697.5	443.0
	LE132	264.0	643.0	747.5	461.5
	LE132Z	264.0	693.0	797.5	511.5

Parallel shaft tandem geared motors

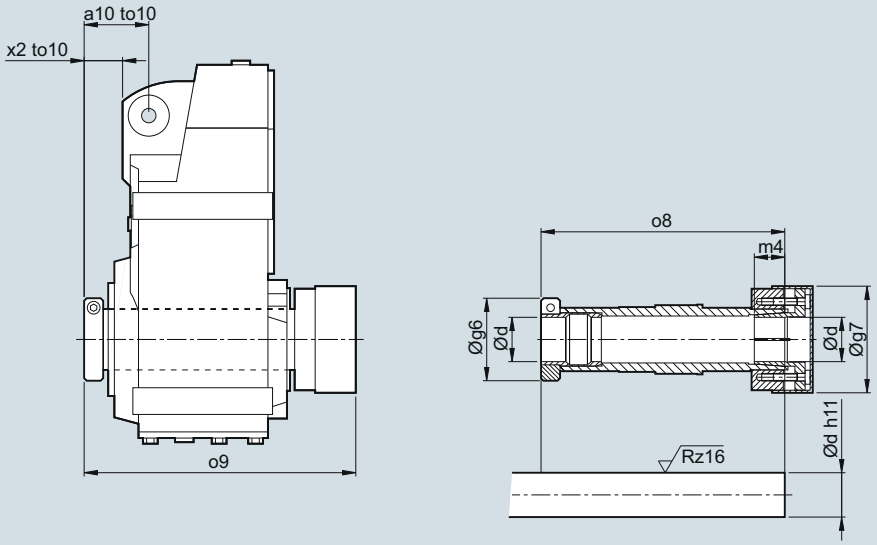


Gearbox	Motor	AC	z5	zB5	LB
FD..169-D/Z69	LA63	117.8	391.5	436.0	184.5
	LA71	138.8	423.5	478.5	216.5
	LA71Z	138.8	442.5	497.5	235.5
	LE80	156.3	487.5	547.5	280.5
	LE80Z	156.3	522.5	582.5	315.5
	LE90	173.8	549.0	619.0	342.0
	LE90Z	173.8	589.0	659.0	382.0
	LE100	198.0	605.5	684.0	398.5
	LE100Z	198.0	640.5	719.0	433.5
	LE112	222.0	615.5	688.5	408.5
	LE112Z	222.0	650.0	723.0	443.0
	LE132	264.0	668.5	773.0	461.5
	LE132Z	264.0	718.5	823.0	511.5
FD..189-D/Z69	LA63	117.8	391.5	436.0	184.5
	LA71	138.8	423.5	478.5	216.5
	LA71Z	138.8	442.5	497.5	235.5
	LE80	156.3	487.5	547.5	280.5
	LE80Z	156.3	522.5	582.5	315.5
	LE90	173.8	549.0	619.0	342.0
	LE90Z	173.8	589.0	659.0	382.0
	LE100	198.0	605.5	684.0	398.5
	LE100Z	198.0	640.5	719.0	433.5
	LE112	222.0	615.5	688.5	408.5
	LE112Z	222.0	650.0	723.0	443.0
	LE132	264.0	668.5	773.0	461.5
	LE132Z	264.0	718.5	823.0	511.5

4

SIMOLOC assembly system

FDADR/FZADR



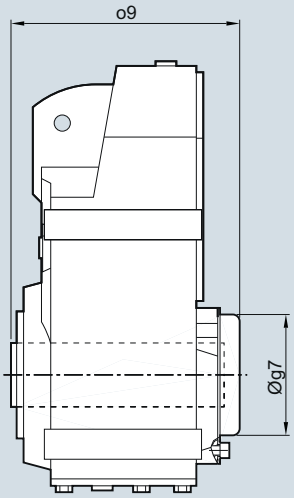
Note mounting tolerance to10 when positioning the torque arm.

d	g6	g7	m4	o8	o9	a10	to10	x2
FDADR/FZADR29								
25	58.5	56	18.5	140.5	161	40.0	+2.1	23.5
20							+0.6	
1"								
0.75“								
FDADR/FZADR39								
30	62.0	76	22	160.5	181	46.5	+2.2	29.5
25							+0.7	
1.25"								
1.1875"								
1"								
FDADR/FZADR49								
35	65.0	84	24	192.0	214	47.0	+2.6	24.5
30							+0.8	
1.375"								
1.4375"								
1.25"								
1.1875"								
FDADR/FZADR.69								
40	79.5	94	30	217.5	240	59.5	+2.5	37.0
35							+0.7	
1.5"								
1.625"								
1.4375"								
1.375"								
FDADR/FZADR79								
40	79.5	94	30	232.0	259	60.0	+3.2	34.0
35							+1.4	
1.5"								
1.625"								
1.4375"								
1.375"								
FDADR/FZADR89								
50	89.0	114	32	264.0	295	69.0	+3.4	32.0
40							+1.5	
2"								
1.9375"								
1.75"								
1.625"								

Protection covers

Protection cover for hollow shaft

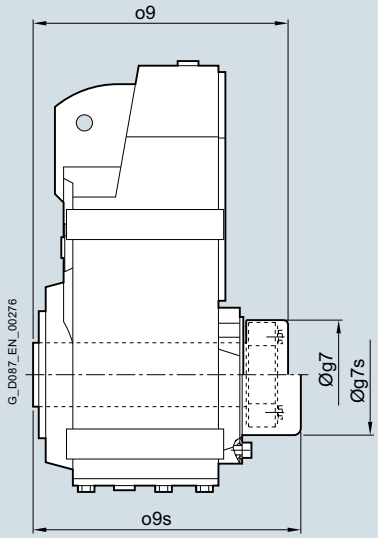
F.A, F.AF, F.AZ, F.AD



Gearbox type	F.A..29	F.A..39	F.A..49	F.A..69	F.A..79	F.A..89	F.A..109	F.A..129	F.A..149	F.A..169	F.A..189
Protection cover											
g7	67.0	82.5	80.0	99.0	99.0	137.0	187.0	187.0	218.0	257.5	309.5
o9	120.5	134.0	177.0	179.0	192.5	232.5	281.5	348.0	425.0	520.0	623.5

Protection cover for hollow shaft with shrink disk

F.AS, F.AFS, F.AZS, F.ADS



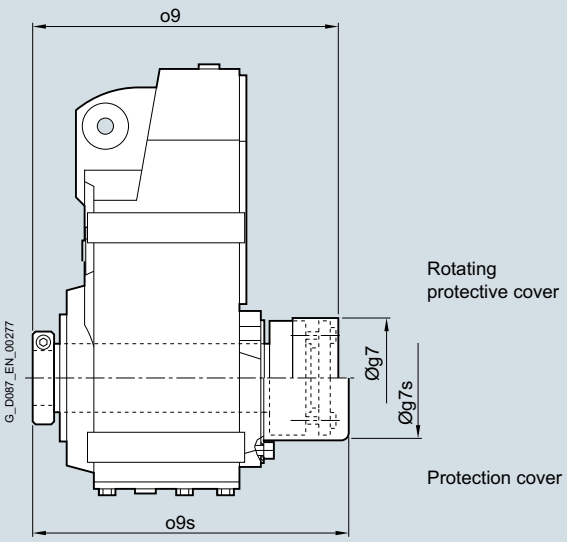
Gearbox type	F.A..29	F.A..39	F.A..49	F.A..69	F.A..79	F.A..89	F.A..109	F.A..129	F.A..149	F.A..169	F.A..189
Rotating protective cover with shrink disk version											
max. motor frame size that can be mounted	80	90	100	100	132	160	200	225	250	250	250
g7	57.0	76.0	84.0	84.0	94.0	119.0	145.0	159.0	201.0	234.0	267.0
o9	132.5	149.5	182.0	198.0	215.5	247.5	282.5	348.5	408.5	496.0	593.5
Protection cover											
max. motor frame size that can be mounted	71	80	100	100	112	132	200	225	250	250	250
g7s	58.0	82.5	86.0	99.0	99.0	137.0	187.0	187.0	218.0	257.5	309.5
o9s	135.5	170.0	198.0	210.0	223.5	284.5	308.5	375.0	425.0	520.0	623.5

4

Protection covers

Protection cover for hollow shaft with SIMOLOC assembly system

F.ADR

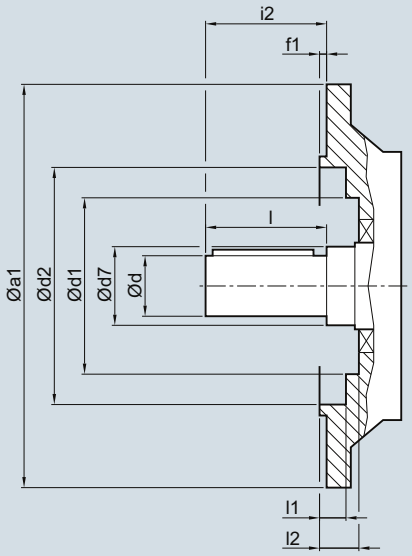


Gearbox type	F.ADR29	F.ADR39	F.ADR49	F.ADR69	F.ADR79	F.ADR89
Rotating protective cover						
max. motor frame size that can be mounted	80	90	100	100	132	160
g7	56.0	76.0	84.0	94.0	94.0	114.0
o9	161.0	181.0	214.0	240.0	259.0	295.0
Protection cover						
max. motor frame size that can be mounted	71	80	100	100	112	132
g7s	58.0	82.5	86.0	99.0	99.0	137.0
o9s	164.0	184.0	219.0	249.5	263.5	303.5

Inner contour of the flange design

Notes regarding the design of the customer's interface for the solid shaft design

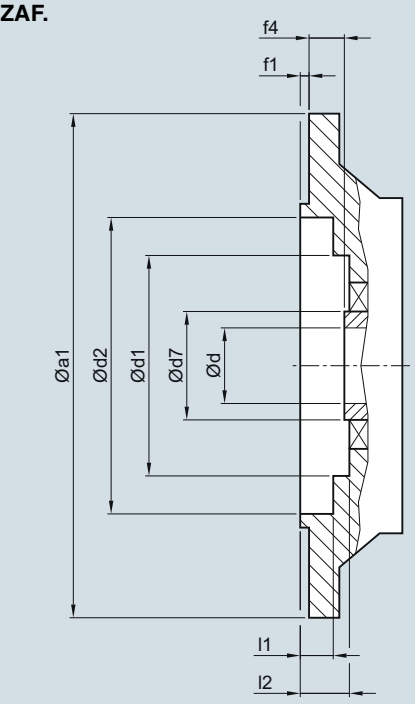
FDF/FZF



Gearbox type	a1	d	d7	d1	d2	f1	i2	l	l1	l2
FDF/FZF29	120	25	40	-	70	3.0	40	40	24.0	-
	160	25	40	70	101	3.5	40	40	8.5	24.5
FDF/FZF39	160	25	30	-	100	3.5	50	50	5.0	-
FDF/FZF49	200	30	35	-	118	3.5	60	60	5.5	-
FDF/FZF69	250	35	45	-	165	4.0	70	70	6.5	-
FDF/FZF79	250	40	55	-	165	4.0	80	80	6.5	-
FDF/FZF89	300	50	55	-	165	4.0	100	100	8.0	-
FDF/FZF109	350	60	65	-	235	5.0	120	120	9.0	-
FDF/FZF129	450	70	75	-	336	5.0	140	140	9.0	-
FDF/FZF149	450	90	100	-	336	5.0	170	170	10.0	-
FDF/FZF169	550	110	120	-	427	5.0	210	210	10.0	-
FDF/FZF189	660	120	160	-	517	6.0	210	210	11.0	-

Notes regarding the design of the customer's interface for the hollow shaft design

FDAF./FZAF.



Gearbox type	a1	d	d7	d1	d2	f1	f4	l1	l2
FDAF./FZAF.29	120	25	40	-	70	3.0	20.0	24.0	-
	160	25	40	70	101	3.5	20.0	8.5	24.5
FDAF./FZAF.39	160	30	45	80	102	3.5	24.0	2.0	29.5
FDAF./FZAF.49	200	35	50	90	120	3.5	25.0	4.0	30.5
FDAF./FZAF.69	250	40	55	104	165	4.0	23.5	2.0	29.5
FDAF./FZAF.79	250	40	55	104	165	4.0	23.0	2.0	29.5
FDAF./FZAF.89	300	50	70	135	215	4.0	37.0	2.0	44.5
FDAF./FZAF.109	350	60	85	184	210	5.0	36.0	13.0	45.0
FDAF./FZAF.129	450	70	95	184	336	5.0	41.5	16.5	48.5
FDAF./FZAF.149	450	90	120	214	330	5.0	41.0	10.5	50.0
FDAF./FZAF.169	550	100	140	254	426	5.0	56.0	14.5	56.0
FDAF./FZAF.189	660	120	160	306	518	6.0	66.0	6.0	62.0

4

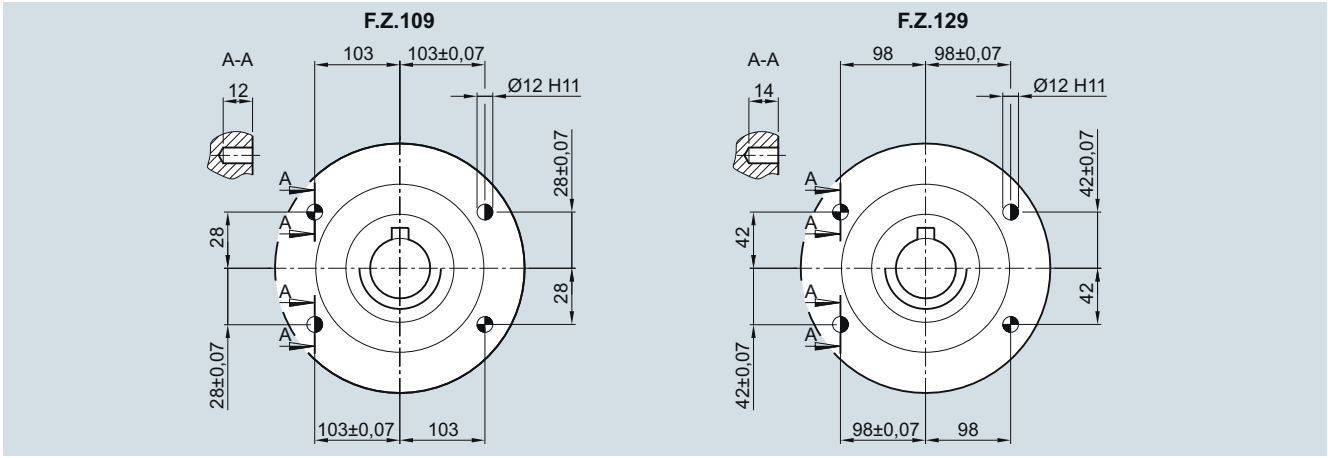
Pin holes

In the case of gearboxes F.Z.109 and F.Z.129, the customer's interface can be pinned on the housing flange (C type).

The output flanges have been designed to ensure the reliable transmission of the permissible torques and radial forces by the bolt connections.

If additional fastening is required, in the case of high shock loads, for example, the existing drilled pin holes can be used.

The gearboxes can also be drilled and pinned together with the machine. The listed dimensions must be complied with.



◑ Spring pins, heavy-duty design, to DIN 1481: Use pin holes provided in the housing flange.

◓ Grooved cylindrical pins with chamfer to EN 28740 / ISO 8740: Drill connecting component together with housing.