

Rated output at 50 Hz	Frame size	Operating characteristics at rated output							Order No.	Price	Weight
		Rated speed at 50 Hz	Rated torque at 50 Hz	Relevant for IE changeover			Power factor at 50 Hz 100 %-load	Rated current at 400 V, 50 Hz			
				Efficiency Class according to IEC 60034-30 standard	Efficiency at 50 Hz 100 %-load	Efficiency at 50 Hz 75 %-load			For Order No. supplements for voltage and type of construction, see table below	IM B3 type of construction approx.	
P_{rated} kW	FS	n_{rated} rpm	M_{rated} Nm		η_{rated} %	η_{rated} %	$\cos\varphi_{\text{rated}}$	I_{rated} A		m kg	
2-pole, 3000 rpm at 50 Hz, temperature class 155 (F), IP55 degree of protection											
22	180 M	2955	71	IE2	91.3	91.7	0.88	39.5 ¹⁾	1LG6 183-2AA□□	180	
30	200 L	2960	97	IE2	92.0	91.9	0.88	53 ¹⁾	1LG6 206-2AA□□	225	
37	200 L	2960	119	IE2	92.5	92.4	0.89	65 ¹⁾	1LG6 207-2AA□□	255	
45	225 M	2965	145	IE2	92.9	93.1	0.89	79 ¹⁾	1LG6 223-2AA□□	330	
55	250 M	2975	177	IE2	93.2	93.2	0.9	95	1LG6 253-2AA□□	420	
75	280 S	2975	241	IE2	93.8	93.8	0.89	130 ¹⁾	1LG6 280-2AB□□	530	
90	280 M	2978	289	IE2	94.1	94.2	0.9	153 ¹⁾	1LG6 283-2AB□□	615	
110	315 S	2982	352	IE2	94.3	94.2	0.91	185 ¹⁾	1LG6 310-2AB□□	790	
132	315 M	2982	423	IE2	94.6	94.5	0.91	220 ¹⁾	1LG6 313-2AB□□	915	
160	315 L	2982	512	IE2	94.8	94.8	0.92	265	1LG6 316-2AB□□	1055	
200	315 L	2982	641	IE2	95.0	95.0	0.93	325	1LG6 317-2AB□□	1245	
4-pole, 1500 rpm at 50 Hz, temperature class 155 (F), IP55 degree of protection											
18.5	180 M	1470	120	IE2	91.2	91.8	0.83	35.5 ¹⁾	1LG6 183-4AA□□	155	
22	180 L	1470	143	IE2	91.6	91.9	0.84	41.5 ¹⁾	1LG6 186-4AA□□	180	
30	200 L	1470	195	IE2	92.3	92.4	0.85	55 ¹⁾	1LG6 207-4AA□□	225	
37	225 S	1480	239	IE2	92.7	93.1	0.85	68 ¹⁾	1LG6 220-4AA□□	290	
45	225 M	1480	290	IE2	93.1	93.3	0.85	82 ¹⁾	1LG6 223-4AA□□	330	
55	250 M	1485	354	IE2	93.5	93.7	0.87	98	1LG6 253-4AA□□	460	
75	280 S	1485	482	IE2	94.0	94.1	0.87	132 ¹⁾	1LG6 280-4AA□□	575	
90	280 M	1486	578	IE2	94.2	94.3	0.86	160 ¹⁾	1LG6 283-4AA□□	675	
110	315 S	1488	706	IE2	94.5	94.6	0.87	193 ¹⁾	1LG6 310-4AA□□	810	
132	315 M	1488	847	IE2	94.7	94.8	0.88	230 ¹⁾	1LG6 313-4AA□□	965	
160	315 L	1490	1026	IE2	94.9	95.0	0.88	275 ²⁾	1LG6 316-4AA□□	1105	
200	315 L	1490	1282	IE2	95.1	95.2	0.88	345 ²⁾	1LG6 317-4AA□□	1305	

Order No. supplements

Motor type	Penultimate position: Voltage code					Final position: Type of construction code							
	50 Hz					Without flange	With flange			With standard flange		With special flange	
	230 VΔ/400 VY	400 VΔ/690 VY	500 VY	500 VΔ	IM B3/6/7/8, IM V6, IM V5 without protective cover ³⁾	IM B5, IM V1 without protective cover ^{4) 5)}	IM V1 without protective cover ⁴⁾	IM V1 with protective cover ^{4) 6)}	IM B35	IM B14, IM V19, IM V18 without protective cover	IM B34	IM B14, IM V19, IM V18 without protective cover	
	1	6	3	5	0	1	8	4	6	2	7	3	
1LG6 18 -.-.-.□□	○	○	○	○	□	✓	–	✓	✓	–	–	–	
1LG6 20 -.-.-.□□	○	○	○	○	□	✓	–	✓	✓	–	–	–	
1LG6 22 -.-.-.□□	○	○	○	○	□	✓	–	✓	✓	–	–	–	
1LG6 25 -.-.-.□□	○	○	○	○	□	✓	–	✓	✓	–	–	–	
1LG6 28 -.-.-.□□	○	○	○	○	□	✓	–	✓	✓	–	–	–	
1LG6 310 -.-.-.□□	○	○	○	○	□	✓	–	✓	✓	–	–	–	
1LG6 313 -.-.-.□□													
1LG6 316 -.-.-.□□	–	○	–	○	□ ⁷⁾	–	✓ ⁸⁾	✓ ⁸⁾	✓	–	–	–	
1LG6 317 -.-.-.□□													

- Standard version
- Without additional charge
- ✓ With additional charge
- Not possible

Order other voltages with voltage code **9** in the penultimate position and the corresponding order code (see “Special versions” in the “Options” under “Voltages”).

Order other types of construction with type of construction code **9** in the final position and the corresponding order code (see “Special versions” in the “Options” under “Types of construction”).

For footnotes, see Page 2 bottom.

Order No.	Locked-rotor torque with direct starting torque	Locked-rotor current as multiple of rated current	Breakdown torque	Torque class	Moment of inertia	Noise at rated output	
	T_{LR}/T_{rated}	I_{LR}/I_{rated}	T_B/T_{rated}	CL	J kgm ²	Measuring surface sound pressure level at 50 Hz L_{pA} dB(A)	Sound pressure level at 50 Hz L_{WA} dB(A)
2-pole, 3000 rpm at 50 Hz, temperature class 155 (F), IP55 degree of protection							
1LG6 183-2AA□□	2.5	7.2	3.4	16	0.086	67	80
1LG6 206-2AA□□	2.4	7	3.3	16	0.15	71	84
1LG6 207-2AA□□	2.5	7.2	3.3	16	0.18	71	84
1LG6 223-2AA□□	2.5	7.3	3.2	16	0.27	71	84
1LG6 253-2AA□□	2.4	6.8	3	16	0.47	71	84
1LG6 280-2AB□□	2.5	7	3	13	0.83	73	86
1LG6 283-2AB□□	2.6	7.6	3.1	13	1	73	86
1LG6 310-2AB□□	2.4	6.9	2.8	13	1.4	76	89
1LG6 313-2AB□□	2.6	7.1	2.9	13	1.6	76	89
1LG6 316-2AB□□	2.5	7.1	2.9	13	2.1	76	89
1LG6 317-2AB□□	2.5	6.9	2.8	13	2.5	76	89
4-pole, 1500 rpm at 50 Hz, temperature class 155 (F), IP55 degree of protection							
1LG6 183-4AA□□	2.5	6.4	3	16	0.12	60	73
1LG6 186-4AA□□	2.5	6.7	3.1	16	0.14	60	73
1LG6 207-4AA□□	2.6	6.7	3.3	16	0.23	62	75
1LG6 220-4AA□□	2.7	6.8	3	16	0.4	60	73
1LG6 223-4AA□□	2.8	6.9	3	16	0.49	60	73
1LG6 253-4AA□□	2.6	7.5	3	16	0.86	65	78
1LG6 280-4AA□□	2.5	6.8	2.9	16	1.4	67	80
1LG6 283-4AA□□	2.7	7.5	3.1	16	1.7	68	82
1LG6 310-4AA□□	2.7	7.1	2.9	16	2.3	68	82
1LG6 313-4AA□□	2.7	7.3	2.9	16	2.9	69	83
1LG6 316-4AA□□	3	7.4	3	16	3.5	69	83
1LG6 317-4AA□□	3.2	7.6	3	16	4.2	69	83

The motors can also be used for 60 Hz according to EPACT.

The motors of frame size 315 can also be used according to IEC 60034-30 “Premium Efficiency” IE3, see “Self-ventilated motors 1LG6-cast-iron with “Premium Efficiency” IE3”.

- 1) For connection to 230 V, parallel supply cables are necessary (see Catalog D 81.1 part 0 “Introduction”, “Connection, circuit and connection box”).
- 2) For connection to 400 V, parallel supply cables are necessary (see Catalog D 81.1 part 0 “Introduction”, “Connection, circuit and connection box”).
- 3) If motors 1LG6 183-... to 1LG6 317-... (motor series 1LG6 frame sizes 180 M to 315 L) in types of construction with feet IM B6, IM B7, IM V6 or IM V5 without protective cover are fixed to the wall, it is recommended that the motor feet are supported.

- 4) 1LG6 220-... to 1LG6 317-... motors (motor series 1LG6 frame sizes 225 S to 315 L) are supplied with two screw-in eyebolts in accordance with IM B5, whereby one can be rotated in accordance with IM V1 or IM V3. It is important to note that stress must not be applied perpendicular to the ring plane.
- 5) Type of construction IM V3 is only possible using type of construction code **9** and order code **M1G**.
- 6) The “Second shaft extension” option, order code **K16** is not possible.
- 7) Type of construction IM V6 and IM V5 without protective cover is only possible using type of construction code **9** and order code **M1E** or **M1D**.
- 8) 2-pole motors in 60 Hz version available on request.

Rated out- put at	Frame size	Operating characteristics at rated output							Order No.	Price	Weight
		Rated speed at 50 Hz	Rated torque at 50 Hz	Relevant for IE changeover							
Efficiency Class according to IEC 60034-30 standard	Efficiency at 50 Hz 100 %-load			Efficiency at 50 Hz 75 %-load	Power factor at 50 Hz 100 %-load	Rated current at 400 V, 50 Hz	For Order No. supplements for voltage and type of construction, see table below	IM B3 type of con- struc- tion approx.			
P_{rated} kW	FS	n_{rated} rpm	M_{rated} Nm		η_{rated} %	η_{rated} %	$\cos\varphi_{\text{rated}}$	I_{rated} A		m kg	
6-pole, 1000 rpm at 50 Hz, temperature class 155 (F), IP55 degree of protection											
15	180 L	975	147	IE2	89.7	90.5	0.81	30	1LG6 186-6AA□□	175	
18.5	200 L	978	181	IE2	90.4	91.0	0.81	36.5	1LG6 206-6AA□□	210	
22	200 L	978	215	IE2	90.9	91.5	0.82	42.5	1LG6 207-6AA□□	240	
30	225 M	980	292	IE2	91.7	92.2	0.83	57 ¹⁾	1LG6 223-6AA□□	325	
37	250 M	985	359	IE2	92.2	92.6	0.83	70	1LG6 253-6AA□□	405	
45	280 S	988	435	IE2	92.7	92.9	0.85	82	1LG6 280-6AA□□	520	
55	280 M	988	532	IE2	93.1	93.3	0.85	100	1LG6 283-6AA□□	570	
75	315 S	990	723	IE2	93.7	93.7	0.83	139	1LG6 310-6AA□□	760	
90	315 M	990	868	IE2	94.0	94.1	0.85	163 ¹⁾	1LG6 313-6AA□□	935	
110	315 L	990	1061	IE2	94.3	94.4	0.85	198	1LG6 316-6AA□□	1010	
132	315 L	990	1273	IE2	94.6	94.6	0.85	235	1LG6 317-6AA□□	1180	
160	315 L	990	1543	IE2	94.8	94.9	0.86	285 ²⁾	1LG6 318-6AA□□	1245	
8-pole, 750 rpm at 50 Hz, temperature class 155 (F), IP55 degree of protection											
11	180 L	725	145		88.7	89.6	0.76	23.5	1LG6 186-8AB□□	165	
15	200 L	725	198		89.3	89.8	0.8	30.5	1LG6 207-8AB□□	235	
18.5	225 S	730	242		91.1	91.8	0.81	36	1LG6 220-8AB□□	295	
22	225 M	730	288		91.6	92.1	0.81	43	1LG6 223-8AB□□	335	
30	250 M	735	390		92.8	93.3	0.82	57	1LG6 253-8AB□□	435	
37	280 S	738	479		93.1	93.3	0.81	71	1LG6 280-8AB□□	510	
45	280 M	738	582		93.7	94	0.81	86	1LG6 283-8AB□□	560	
55	315 S	740	710		94.3	94.4	0.82	102	1LG6 310-8AB□□	750	
75	315 M	740	968		94.5	94.7	0.83	138	1LG6 313-8AB□□	840	
90	315 L	740	1161		94.7	95.1	0.84	164	1LG6 316-8AB□□	1005	
110	315 L	740	1420		94.8	95.1	0.84	200	1LG6 317-8AB□□	1100	
132	315 L	740	1704		94.9	95.2	0.84	240	1LG6 318-8AB□□	1270	

Order No. supplements

Motor type	Penultimate position: Voltage code					Final position: Type of construction code						
	50 Hz					Without flange	With flange			With standard flange		With special flange
	230 VΔ/400 VY	400 VΔ/690 VY	500 VY	500 VΔ	IM B3/6/7/8, IM V6, IM V5 without protective cover ³⁾	IM B5, IM V1 without protective cover IM V3 ^{4) 5)}	IM V1 without protective cover ⁴⁾	IM V1 with protective cover ^{4) 6)}	IM B35	IM B14, IM V19, IM V18 without protective cover	IM B34	IM B14, IM V19, IM V18 without protective cover
	1	6	3	5	0	1	8	4	6	2	7	3
1LG6 18 - . . . □□	○	○	○	○	□	✓	–	✓	✓	–	–	–
1LG6 20 - . . . □□	○	○	○	○	□	✓	–	✓	✓	–	–	–
1LG6 22 - . . . □□	○	○	○	○	□	✓	–	✓	✓	–	–	–
1LG6 25 - . . . □□	○	○	○	○	□	✓	–	✓	✓	–	–	–
1LG6 28 - . . . □□	○	○	○	○	□	✓	–	✓	✓	–	–	–
1LG6 310 - . . . □□	○	○	○	○	□	✓	–	✓	✓	–	–	–
1LG6 313 - . . . □□												
1LG6 316 - . . . □□	–	○	–	○	□ ⁷⁾	–	✓	✓	✓	–	–	–
1LG6 317 - . . . □□												
1LG6 318 - . . . □□												

- Standard version
- Without additional charge
- ✓ With additional charge
- Not possible

Order other voltages with voltage code **9** in the penultimate position and the corresponding order code (see “Special versions” in the “Options” under “Voltages”).

Order other types of construction with type of construction code **9** in the final position and the corresponding order code (see “Special versions” in the “Options” under “Types of construction”).

For footnotes, see Page 4 bottom.

Order No.	Locked-rotor torque with direct starting torque	Locked-rotor current as multiple of rated current	Breakdown torque	Torque class	Moment of inertia	Noise at rated output	
	T_{LR}/T_{rated}	I_{LR}/I_{rated}	T_B/T_{rated}	CL	J kgm ²	Measuring surface sound pressure level at 50 Hz L_{pA} dB(A)	Sound pressure level at 50 Hz L_{WA} dB(A)
6-pole, 1000 rpm at 50 Hz, temperature class 155 (F), IP55 degree of protection							
1LG6 186-6AAQQ	2.4	5.5	2.5	16	0.2	56	69
1LG6 206-6AAQQ	2.4	5.6	2.4	16	0.29	59	72
1LG6 207-6AAQQ	2.4	5.6	2.4	16	0.36	59	72
1LG6 223-6AAQQ	2.8	6.5	2.9	16	0.63	59	72
1LG6 253-6AAQQ	2.9	6.8	2.5	16	0.93	59	72
1LG6 280-6AAQQ	3	6.8	2.7	16	1.4	58	71
1LG6 283-6AAQQ	3.3	7.3	2.9	16	1.6	58	71
1LG6 310-6AAQQ	2.8	7.3	3	16	2.5	61	74
1LG6 313-6AAQQ	2.7	7.3	2.9	16	3.2	61	74
1LG6 316-6AAQQ	2.9	7.4	2.9	16	4	61	74
1LG6 317-6AAQQ	3.1	7.8	3.1	16	4.7	61	74
1LG6 318-6AAQQ	3.2	7.8	3.1	16	5.4	64	77
8-pole, 750 rpm at 50 Hz, temperature class 155 (F), IP55 degree of protection							
1LG6 186-8ABQQ	1.7	4.6	2.2	13	0.21	62	75
1LG6 207-8ABQQ	2.3	5.3	2.6	13	0.37	62	75
1LG6 220-8ABQQ	2.3	5.6	2.6	13	0.55	54	67
1LG6 223-8ABQQ	2.4	5.8	2.8	13	0.66	58	71
1LG6 253-8ABQQ	2.5	6	2.8	13	1.1	57	70
1LG6 280-8ABQQ	2.3	5.7	2.3	13	1.4	58	71
1LG6 283-8ABQQ	2.6	6.1	2.5	13	1.6	58	71
1LG6 310-8ABQQ	2.5	6.3	2.9	13	2.5	61	75
1LG6 313-8ABQQ	2.5	6.7	2.9	13	3.1	60	74
1LG6 316-8ABQQ	2.4	6.3	2.8	13	3.9	64	77
1LG6 317-8ABQQ	2.4	6.4	2.6	13	4.5	64	77
1LG6 318-8ABQQ	2.5	6.7	2.9	13	5.3	64	77

The motors can also be used for 60 Hz according to EPACT.

The motors of frame size 315 can also be used according to IEC 60034-30 “Premium Efficiency” IE3, see “Self-ventilated motors 1LG6-cast-iron with “Premium Efficiency” IE3”.

- 1) For connection to 230 V, parallel supply cables are necessary (see Catalog D 81.1 part 0 “Introduction”, “Connection, circuit and connection box”).
- 2) For connection to 400 V, parallel supply cables are necessary (see Catalog D 81.1 part 0 “Introduction”, “Connection, circuit and connection box”).
- 3) If motors 1LG6 183-... to 1LG6 318-... (motor series 1LG6 frame sizes 180 M to 315 L) in types of construction with feet IM B6, IM B7, IM V6 or IM V5 without protective cover are fixed to the wall, it is recommended that the motor feet are supported.
- 4) 1LG6 220-... to 1LG6 318-... motors (motor series 1LG6 frame sizes 225 S to 315 L) are supplied with two screw-in eyebolts in accordance with IM B5, whereby one can be rotated in accordance with IM V1 or IM V3. It is important to note that stress must not be applied perpendicular to the ring plane.
- 5) Type of construction IM V3 is only possible using type of construction code **9** and order code **M1G**.
- 6) The “Second shaft extension” option, order code **K16** is not possible.
- 7) Type of construction IM V6 and IM V5 without protective cover is only possible using type of construction code **9** and order code **M1E** or **M1D**.