

Rated output at 50 Hz	Frame size	Operating values at rated output								Order No. For Order No. supplements for voltage and type of construction, see table below	Price	Weight Type of construction IM B3 approx. <i>m</i> kg
		Rated speed at 50 Hz	Rated torque at 50 Hz	Efficiency at 50 Hz 4/4-load	Efficiency at 50 Hz 3/4-load	Power factor at 50 Hz 4/4-load	Power factor at 50 Hz 3/4-load	Rated current at 400 V, at 50 Hz				
<i>P</i> _{rated} kW	FS	<i>n</i> _{rated} rpm	<i>T</i> _{rated} Nm	<i>η</i> _{rated} %	<i>η</i> _{rated} %	<i>cos φ</i> _{rated}	<i>cos φ</i> _{rated}	<i>I</i> _{rated} A	<i>I</i> _{rated} A			
2-pole, 3000 rpm at 50 Hz, temperature class 155 (F), IP55 degree of protection, specially for operation on SIMOVERT MASTERDRIVES												
22	180 M	2955	71	93.7	94.1	0.88	0.85	38.5	22.5	1LG6 183-2PMQQ	180	
30	200 L	2960	97	93.1	93	0.89	0.85	53	30.5	1LG6 206-2PMQQ	225	
37	200 L	2960	119	93.6	93.5	0.89	0.86	64	37	1LG6 207-2PMQQ	255	
45	225 M	2965	145	94.4	94.6	0.89	0.87	77	45	1LG6 223-2PMQQ ¹⁾	330	
55	250 M	2975	177	95	95	0.9	0.88	93	54	1LG6 253-2PMQQ ¹⁾	420	
75	280 S	2975	241	95	95	0.89	0.87	128	74	1LG6 280-2PMQQ ¹⁾	530	
90	280 M	2978	289	95.3	95.4	0.9	0.88	150	88	1LG6 283-2PMQQ ¹⁾	615	
110	315 S	2982	352	95.5	95.4	0.91	0.89	182	106	1LG6 310-2PMQQ ¹⁾	790	
132	315 M	2982	423	95.8	95.7	0.91	0.91	220	126	1LG6 313-2PMQQ ¹⁾	915	
160	315 L	2982	512	96.2	96.2	0.92	0.91	260	152	1LG6 316-2PMQQ ¹⁾	1055	
200	315 L	2982	641	96.2	96.2	0.93	0.92	320	188	1LG6 317-2PMQQ ¹⁾	1245	
4-pole, 1500 rpm at 50 Hz, temperature class 155 (F), IP55 degree of protection, specially for operation on SIMOVERT MASTERDRIVES												
18.5	180 M	1470	120	92.1	92.7	0.83	0.78	34.5	20	1LG6 183-4PMQQ	155	
22	180 L	1470	143	92.7	93	0.84	0.79	40.5	23.5	1LG6 186-4PMQQ	180	
30	200 L	1470	195	92.7	92.8	0.85	0.8	55	32	1LG6 207-4PMQQ	225	
37	225 S	1480	239	93.6	94	0.85	0.81	67	39	1LG6 220-4PMQQ ¹⁾	290	
45	225 M	1480	290	94.1	94.3	0.85	0.82	81	47	1LG6 223-4PMQQ ¹⁾	330	
55	250 M	1485	354	94.8	95	0.87	0.83	96	56	1LG6 253-4PMQQ ¹⁾	460	
75	280 S	1485	482	94.7	94.8	0.87	0.84	130	76	1LG6 280-4PMQQ ¹⁾	575	
90	280 M	1486	578	95.1	95.2	0.86	0.83	158	92	1LG6 283-4PMQQ ¹⁾	675	
110	315 S	1488	706	95.6	95.7	0.87	0.84	190	110	1LG6 310-4PMQQ ¹⁾	810	
132	315 M	1488	847	95.9	96	0.88	0.85	225	130	1LG6 313-4PMQQ ¹⁾	965	
160	315 L	1490	1026	96.1	96.2	0.88	0.85	275	158	1LG6 316-4PMQQ ¹⁾	1105	
200	315 L	1490	1282	96.1	96.2	0.88	0.86	340	198	1LG6 317-4PMQQ ¹⁾	1305	
6-pole, 1000 rpm at 50 Hz, temperature class 155 (F), IP55 degree of protection, specially for operation on SIMOVERT MASTERDRIVES												
15	180 L	975	147	90	90.8	0.81	0.77	29.5	17.2	1LG6 186-6PMQQ	175	
18.5	200 L	978	181	90.5	91.1	0.81	0.76	36	21	1LG6 206-6PMQQ	210	
22	200 L	978	215	91.4	92	0.82	0.78	42	24.5	1LG6 207-6PMQQ	240	
30	225 M	980	292	92.6	93.1	0.83	0.8	56	32.5	1LG6 223-6PMQQ ¹⁾	325	
37	250 M	985	359	93.1	93.5	0.83	0.79	69	40	1LG6 253-6PMQQ ¹⁾	405	
45	280 S	988	435	93.9	94.1	0.85	0.81	81	47	1LG6 280-6PMQQ ¹⁾	520	
55	280 M	988	532	93.9	94.1	0.85	0.81	99	58	1LG6 283-6PMQQ ¹⁾	570	
75	315 S	990	723	94.6	94.6	0.83	0.79	138	80	1LG6 310-6PMQQ ¹⁾	760	
90	315 M	990	868	94.9	95	0.85	0.81	160	93	1LG6 313-6PMQQ ¹⁾	935	
110	315 L	990	1061	95.2	95.3	0.85	0.82	196	114	1LG6 316-6PMQQ ¹⁾	1010	
132	315 L	990	1273	95.4	95.4	0.85	0.82	235	136	1LG6 317-6PMQQ ¹⁾	1180	
160	315 L	990	1543	95.3	95.4	0.86	0.82	280	164	1LG6 318-6PMQQ ¹⁾	1245	
8-pole, 750 rpm at 50 Hz, temperature class 155 (F), IP55 degree of protection, specially for operation on SIMOVERT MASTERDRIVES												
11	180 L	725	145	88.1	89	0.76	0.69	23.5	13.8	1LG6 186-8PMQQ	165	
15	200 L	725	198	88.2	88.7	0.8	0.73	30.5	17.8	1LG6 207-8PMQQ	235	
18.5	225 S	730	242	89.9	90.6	0.81	0.75	36	21.5	1LG6 220-8PMQQ ¹⁾	295	
22	225 M	730	288	90.6	91.1	0.81	0.75	43	25	1LG6 223-8PMQQ ¹⁾	335	
30	250 M	735	390	91.9	92.4	0.82	0.77	57	33.5	1LG6 253-8PMQQ ¹⁾	435	
37	280 S	738	479	92.6	92.8	0.81	0.76	71	41.5	1LG6 280-8PMQQ ¹⁾	510	
45	280 M	738	582	93.3	93.6	0.81	0.77	86	50	1LG6 283-8PMQQ ¹⁾	560	
55	315 S	740	710	93.8	93.9	0.82	0.77	102	60	1LG6 310-8PMQQ ¹⁾	750	
75	315 M	740	968	93.9	94.1	0.83	0.78	138	81	1LG6 313-8PMQQ ¹⁾	840	
90	315 L	740	1161	94.2	94.6	0.84	0.8	164	95	1LG6 316-8PMQQ ¹⁾	1005	
110	315 L	740	1420	94.3	94.6	0.84	0.79	200	116	1LG6 317-8PMQQ ¹⁾	1100	
132	315 L	740	1704	94.4	94.7	0.84	0.8	240	140	1LG6 318-8PMQQ ¹⁾	1270	

For Order No. supplement, see Page 3.

1) Insulated bearing cartridge at non-drive-end NDE is recommended (order code L27).

Order No.	Locked-rotor torque	Locked-rotor current	Breakdown torque	Torque class	Moment of inertia	Noise at rated output	
	with direct starting torque	as multiple of rated current	torque			Measuring surface sound pressure level at 50 Hz	Sound pressure level at 50 Hz
	T_{LR}/T_{rated}	I_{LR}/I_{rated}	T_B/T_{rated}	CL	J kgm²	L_{pA} dB(A)	L_{WA} DB(A)
2-pole, 3000 rpm at 50 Hz, temperature class 155 (F), IP55 degree of protection, specially for operation on SIMOVERT MASTERDRIVES							
1LG6 183-2PMQ0	2.5	7.2	3.4	16	0.086	67	80
1LG6 206-2PMQ0	2.4	7	3.3	16	0.15	71	84
1LG6 207-2PMQ0	2.5	7.2	3.3	16	0.18	71	84
1LG6 223-2PMQ0	2.5	7.3	3.2	16	0.27	71	84
1LG6 253-2PMQ0	2.4	6.8	3	16	0.47	71	84
1LG6 280-2PMQ0	2.5	7	3	13	0.83	73	86
1LG6 283-2PMQ0	2.6	7.6	3.1	13	1	73	86
1LG6 310-2PMQ0	2.4	6.9	2.8	13	1.4	76	89
1LG6 313-2PMQ0	2.6	7.1	2.9	13	1.6	76	89
1LG6 316-2PMQ0	2.5	7.1	2.9	13	2.1	76	89
1LG6 317-2PMQ0	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, specially for operation on SIMOVERT MASTERDRIVES							
1LG6 183-4PMQ0	2.5	6.4	3	16	0.12	60	73
1LG6 186-4PMQ0	2.5	6.7	3.1	16	0.14	60	73
1LG6 207-4PMQ0	2.6	6.7	3.3	16	0.23	62	75
1LG6 220-4PMQ0	2.7	6.8	3	16	0.4	60	73
1LG6 223-4PMQ0	2.8	6.9	3	16	0.49	60	73
1LG6 253-4PMQ0	2.6	7.5	3	16	0.86	65	78
1LG6 280-4PMQ0	2.5	6.8	2.9	16	1.4	67	80
1LG6 283-4PMQ0	2.7	7.5	3.1	16	1.7	68	82
1LG6 310-4PMQ0	2.7	7.1	2.9	16	2.3	68	82
1LG6 313-4PMQ0	2.7	7.3	2.9	16	2.9	69	83
1LG6 316-4PMQ0	3	7.4	3	16	3.5	69	83
1LG6 317-4PMQ0	3.2	7.6	3	16	4.2	69	83
6-pole, 1000 rpm at 50 Hz, temperature class 155 (F), IP55 degree of protection, specially for operation on SIMOVERT MASTERDRIVES							
1LG6 186-6PMQ0	2.4	5.5	2.5	16	0.2	56	69
1LG6 206-6PMQ0	2.4	5.6	2.4	16	0.29	59	72
1LG6 207-6PMQ0	2.4	5.6	2.4	16	0.36	59	72
1LG6 223-6PMQ0	2.8	6.5	2.9	16	0.63	59	72
1LG6 253-6PMQ0	2.9	6.8	2.5	16	0.93	59	72
1LG6 280-6PMQ0	3	6.8	2.7	16	1.4	58	71
1LG6 283-6PMQ0	3.3	7.3	2.9	16	1.6	58	71
1LG6 310-6PMQ0	2.8	7.3	3	16	2.5	61	74
1LG6 313-6PMQ0	2.7	7.3	2.9	16	3.2	61	74
1LG6 316-6PMQ0	2.9	7.4	2.9	16	4	61	74
1LG6 317-6PMQ0	3.1	7.8	3.1	16	4.7	61	74
1LG6 318-6PMQ0	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, specially for operation on SIMOVERT MASTERDRIVES							
1LG6 186-8PMQ0	1.7	4.6	2.2	13	0.21	62	75
1LG6 207-8PMQ0	2.3	5.3	2.6	13	0.37	62	75
1LG6 220-8PMQ0	2.3	5.6	2.6	13	0.55	54	67
1LG6 223-8PMQ0	2.4	5.8	2.8	13	0.66	58	71
1LG6 253-8PMQ0	2.5	6	2.8	13	1.1	57	70
1LG6 280-8PMQ0	2.3	5.7	2.3	13	1.4	58	71
1LG6 283-8PMQ0	2.6	6.1	2.4	13	1.6	58	71
1LG6 310-8PMQ0	2.5	6.3	2.9	13	2.5	61	75
1LG6 313-8PMQ0	2.5	6.7	2.9	13	3.1	60	74
1LG6 316-8PMQ0	2.4	6.3	2.8	13	3.9	64	77
1LG6 317-8PMQ0	2.4	6.4	2.6	13	4.5	64	77
1LG6 318-8PMQ0	2.5	6.7	2.9	13	5.3	64	77

Order No. supplements

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

- 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”).

¹⁾ 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.

²⁾ 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 relocated in accordance with IM V1 or IM V3. It is important to note that stress must not be applied perpendicular to the ring plane.

³⁾ The “Second shaft extension” option, order code **K16** is not possible.

⁴⁾ Type of construction IM V6/IM V5 without protective cover is only possible using type of construction code **9** and order code **M1E** and **M1D**.

⁵⁾ 2-pole motors in 60 Hz version available on request.