

Rated output at			Frame size	Operating characteristics at rated output						Order No.	Price	Weight
50 Hz	60 Hz	Rated speed at 50 Hz		Rated torque at 50 Hz	Relevant for IE changeover				Rated current at 400 V, 50 Hz			
			n_{rated} rpm	M_{rated} Nm	Efficiency Class according to IEC 60034-30 standard	Efficiency at 50 Hz 100 %-load η_{rated} %	Efficiency at 50 Hz 75 %-load η_{rated} %	Power factor at 50 Hz 100 %-load $\cos\varphi_{\text{rated}}$		For Order No. supplements for voltage and type of construction, see table below	IM B3 type of construction approx.	
P_{rated} kW	P_{rated} kW	FS							I_{rated} A		m kg	
2-pole, 3000 rpm at 50 Hz, 3600 rpm at 60 Hz, temperature class 155 (F), IP55 degree of protection, with increased output, used acc. to temperature class 130 (B)												
30	33.5	180 L	2950	97	IE1	90.7	90.8	0.86	56 ¹⁾	1LG4 188-2AA□□	175	
45	51	200 L	2955	145	IE1	91.7	91.8	0.89	80 ¹⁾	1LG4 208-2AA□□	255	
55	62	225 M	2960	177	IE1	92.1	92.3	0.89	97 ¹⁾	1LG4 228-2AA□□	335	
75	84	250 M	2970	241	IE1	92.7	92.7	0.88	133 ¹⁾	1LG4 258-2AA□□	420	
110	123	280 M	2975	353	IE1	93.3	93.4	0.9	189 ¹⁾	1LG4 288-2AB□□	630	
4-pole, 1500 rpm at 50 Hz, 1800 rpm at 60 Hz, temperature class 155 (F), IP55 degree of protection, with increased output, used acc. to temperature class 130 (B)												
30	34.5	180 L	1465	196	IE1	90.7	90.9	0.8	60 ¹⁾	1LG4 188-4AA□□	180	
37	42.5	200 L	1465	241	IE1	91.2	91.5	0.83	71 ¹⁾	1LG4 208-4AA□□	230	
55	63	225 M	1475	356	IE1	92.1	92.6	0.86	100 ¹⁾	1LG4 228-4AA□□	330	
75	86	250 M	1482	483	IE1	92.7	92.8	0.85	137 ¹⁾	1LG4 258-4AA□□	460	
110	127	280 M	1488	706	IE1	93.3	93.0	0.84	205 ¹⁾	1LG4 288-4AA□□	680	
6-pole, 1000 rpm at 50 Hz, 1200 rpm at 60 Hz, temperature class 155 (F), IP55 degree of protection, with increased output, used acc. to temperature class 130 (B)												
18.5	22	180 L	970	182	IE1	88.6	89.3	0.8	37.7 ¹⁾	1LG4 188-6AA□□	175	
30	36	200 L	975	294	IE1	90.2	90.6	0.8	60 ¹⁾	1LG4 208-6AA□□	245	
37	44.5	225 M	978	361	IE1	90.8	91.6	0.83	71 ¹⁾	1LG4 228-6AA□□	325	
45	54	250 M	982	438	IE1	91.4	91.9	0.83	86	1LG4 258-6AA□□	405	
75	90	280 M	985	727	IE1	92.6	93.1	0.85	138 ¹⁾	1LG4 288-6AA□□	570	
8-pole, 750 rpm at 50 Hz, 900 rpm at 60 Hz, temperature class 155 (F), IP55 degree of protection, with increased output, used acc. to temperature class 130 (B)												
15	18	180 L	720	199		87.8	88.5	0.73	34 ¹⁾	1LG4 188-8AB□□	165	
18.5	22	200 L	725	244		88.3	89.2	0.78	39	1LG4 208-8AB□□	230	
30	36	225 M	730	392		90.4	91.2	0.79	61 ¹⁾	1LG4 228-8AB□□	340	
37	44.5	250 M	730	484		91.9	92.8	0.82	71	1LG4 258-8AB□□	430	
55	66	280 M	735	715		92.9	93.7	0.81	106	1LG4 288-8AB□□	565	

Order No. supplements

Motor type	Penultimate position: Voltage code						Final position: Type of construction code						
	50 Hz				60 Hz		Without flange	With flange		With standard flange		With special flange	
	230 VΔ/400 VY	400 VΔ/690 VY	500 VY	500 VΔ	460 VY	460 VΔ (see “Introduction” for outputs at 60 Hz)	IM B3/6/7/8, IM V6, IM V5 without protective cover ²⁾	IM B5, IM V1 without protective cover ^{3) 4)}	IM V1 with protec- tive cover ³⁾	IM B35	IM B14, IM V19, IM V18 without protec- tive cover	IM B34	IM B14, IM V19, IM V18 without protective cover
	1	6	3	5	1	6	0	1	4	6	2	7	3
1LG4 18 □□	○	○	○	○	○	○	□	✓ ⁵⁾	✓	✓	–	–	–
1LG4 20 □□	○	○	○	○	○	○	□	✓ ⁵⁾	✓	✓	–	–	–
1LG4 22 □□	○	○	○	○	○	○	□	✓ ⁵⁾	✓	✓	–	–	–
1LG4 25 □□	○	○	○	○	○	○	□	✓ ⁵⁾	✓	✓	–	–	–
1LG4 28 □□	○	○	○	○	○	○	□	✓ ⁵⁾	✓	✓	–	–	–
□	Standard version		✓		With additional charge								
○	Without 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⁾ For connection to 230 V, parallel supply cables are necessary (see Catalog D 81.1 part 0 “Introduction”, “Connection, circuit and connection box”).

²⁾ If motors 1LG4 188-... to 1LG4 288-... (motor series 1LG4 frame sizes 180 L to 280 M) 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.

³⁾ 1LG4 220-... to 1LG4 288-... motors (motor series 1LG4 frame sizes 225 M to 280 M) 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.

⁴⁾ The “Second shaft extension” option, order code **K16** is not possible.

⁵⁾ Type of construction IM V3 is only possible using type of construction code **9** and order code **M1G**.

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, 3600 rpm at 60 Hz, temperature class 155 (F), IP55 degree of protection, with increased output, used acc. to temperature class 130 (B)							
1LG4 188-2AA□□	2.4	7.1	3.4	16	0.09	71	84
1LG4 208-2AA□□	2.5	6.9	3.2	16	0.18	73	86
1LG4 228-2AA□□	2.6	7.3	3.2	16	0.27	73	86
1LG4 258-2AA□□	2.4	7.1	3.1	16	0.48	74	87
1LG4 288-2AB□□	2.5	7	3	13	1	74	87
4-pole, 1500 rpm at 50 Hz, 1800 rpm at 60 Hz, temperature class 155 (F), IP55 degree of protection, with increased output, used acc. to temperature class 130 (B)							
1LG4 188-4AA□□	2.6	6.3	2.9	16	0.14	65	78
1LG4 208-4AA□□	2.6	6.5	3	16	0.23	66	79
1LG4 228-4AA□□	2.5	6.5	2.7	16	0.49	66	79
1LG4 258-4AA□□	2.5	7	3	16	0.86	68	81
1LG4 288-4AA□□	2.8	7.9	3.3	16	1.71	70	84
6-pole, 1000 rpm at 50 Hz, 1200 rpm at 60 Hz, temperature class 155 (F), IP55 degree of protection, with increased output, used acc. to temperature class 130 (B)							
1LG4 188-6AA□□	2.3	4.9	2.4	16	0.2	60	73
1LG4 208-6AA□□	2.6	5.8	2.6	16	0.36	61	74
1LG4 228-6AA□□	2.5	5.9	2.8	16	0.62	61	74
1LG4 258-6AA□□	2.7	6.3	2.3	16	0.93	61	74
1LG4 288-6AA□□	3	6.8	2.8	16	1.65	61	74
8-pole, 750 rpm at 50 Hz, 900 rpm at 60 Hz, temperature class 155 (F), IP55 degree of protection, with increased output, used acc. to temperature class 130 (B)							
1LG4 188-8AB□□	2	4.5	2.4	13	0.21	69	82
1LG4 208-8AB□□	2.4	5.2	2.6	13	0.37	58	71
1LG4 228-8AB□□	2.6	5.6	2.8	13	0.66	61	74
1LG4 258-8AB□□	2.4	5.6	2.6	13	1.06	55	68
1LG4 288-8AB□□	2.4	5.6	2.3	13	1.63	58	71