

SIMOTICS SD 1LG Standard Motors

NEMA Energy Efficient MG1 motors, Table 12-11

Self-ventilated motors – Cast-iron series 1LG6 with increased output with order code D42



Selection and ordering data

Operating values at 60 Hz rated output															Cast-iron series		$m_{IM\ B3\ J}$	Torque class		
$P_{rated, 50\ Hz}$	$P_{rated, 60\ Hz}$	Frame size	$n_{rated, 60\ Hz}$	$T_{rated, 60\ Hz}$	EISA CC No. CC032A	$\eta_{rated, 60\ Hz, 4/4}$	$\eta_{rated, 60\ Hz, 3/4}$	$\eta_{rated, 60\ Hz, 2/4}$	$\cos\phi_{rated, 60\ Hz, 4/4}$	$I_{LR}/I_{rated, 60\ Hz, 460\ V}$	T_{β}/T_{rated}	$L_{ptA, 60\ Hz}$	$L_{WA, 60\ Hz}$	Order No.	kg	kgm ²			CL	
45	60	200 L	3565	120	✓	93.0	92.6	91.3	0.89	68	2.8	7.9	3.6	75	88	▲ 1LG6208-2AA	■ -Z D42	300	0.22	16
55	75	225 M	3570	150	✓	93.0	93.0	92.2	0.90	84	3.3	8.7	3.7	74	87	1LG6228-2AA	■ -Z D42	390	0.32	16
75	100	250 M	3580	199	✓	93.6	93.3	92.0	0.89	112	2.8	8.4	3.5	79	92	1LG6258-2AA	■ -Z D42	470	0.57	16
110	150	280 M	3580	299	✓	94.5	94.4	93.6	0.90	165	3.1	8.5	3.6	77	90	1LG6288-2AA	■ -Z D42	660	1.2	16
4-pole: 1800 rpm at 60 Hz																				
55	75	225 M	1785	299	✓	94.1	94.3	93.8	0.85	88	3.0	7.8	3.3	65	78	1LG6228-4AA	■ -Z D42	355	0.66	16
75	100	250 M	1788	398	✓	94.5	94.6	94.0	0.86	115	3.0	8.1	3.3	68	81	1LG6258-4AA	■ -Z D42	495	0.99	16
110	150	280 M	1788	598	✓	95.0	94.9	94.1	0.86	172	3.1	8.4	3.5	71	84	1LG6288-4AA	■ -Z D42	710	1.9	16
6-pole: 1200 rpm at 60 Hz																				
37	50	225 M	1184	301	✓	93.0	94.1	93.7	0.83	61	3.2	7.6	3.4	62	75	1LG6228-6AA	■ -Z D42	355	0.76	16
45	60	250 M	1186	360	✓	93.6	93.8	93.3	0.82	73	3.4	7.7	2.9	63	76	1LG6258-6AA	■ -Z D42	435	1.1	16
75	100	280 M	1190	599	✓	94.1	94.3	93.9	0.84	118	4.0	8.4	3.3	62	75	1LG6288-6AA	■ -Z D42	615	1.9	16
Ordering code structure																				
 Voltages ($\leq 600\ V$)¹⁾															No. of poles		Motor type	Version		Order code(s)
50 Hz			230 VΔ/400 VY		60 Hz		460 VY		2, 4, 6		1LG6208 ... 288		Standard		1		-			
50 Hz			400 VΔ		60 Hz		460 VΔ		2, 4, 6		1LG6208 ... 288		Standard		9		L1U			
50 Hz			500 VY						2, 4, 6		1LG6208 ... 288		Without additional charge		3		-			
50 Hz			500 VΔ						2, 4, 6		1LG6208 ... 288		Without additional charge		5		-			
Further voltages															9		...			
Types of construction²⁾																				
With flange			IM B5, IM V1 without protective cover ⁴⁾		2, 4, 6		1LG6208 ... 288		With additional charge		1		-							
			IM V3 ⁴⁾		2, 4, 6		1LG6208 ... 288		With additional charge		9		M1G							
			IM V1 with protective cover ⁴⁾⁵⁾		2, 4, 6		1LG6208 ... 288		With additional charge		4		-							
Further types of construction															9		...			
Special versions																				
Options															1LG6 M . ■ -Z		...+...+...+...			

1) Operating voltages only $\leq 600\ V$ admissible in accordance with MG1 Table 12-11.

2) Types of construction with feet are not possible for 2-pole, 4-pole and 6-pole motors $\leq 200\ hp$ in accordance with MG1 Table 12-11.

3) If 1LG6 motors 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) 1LG6228 to 1LG6288 motors are supplied with two screw-in eyebolts conforming to IM B5, whereby one can be repositioned to conform to IM V1 or IM V3. It is important to note that stress must not be applied perpendicular to the ring plane.

5) The "Second shaft extension" option, order code K16 is not possible.