

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	η _{ra} , 60 Hz, 4/4	η _{ra} , 60 Hz, 3/4	η _{ra} , 60 Hz, 2/4	cos φ _{rated} , 60 Hz, 4/4	I _{rated} , 60 Hz, 460 V	T _{LR} /I _{rated}	I _{LR} /I _{rated}	T _B /I _{rated}	L _{pfA} , 60 Hz	L _{WA} , 60 Hz			1LG6 – NEMA Premium Efficient version (NEMA MG1, Table 12-12)	Order No.	kg	kgm ²	CL	
kW	hp	FS	rpm	Nm		%	%	%	A					dB(A)	dB(A)	▲ New*							
2-pole: 3600 rpm at 60 Hz																							
250	300	315 L	3588	596	✓	95.8	95.3	94.2	0.92	320	4.4	10.5	4.1	83	98	▲ 1LG6318-2MB ■■-Z D41	1290	2.7	16				
315	400	315 L	3588	794	✓	95.8	95.4	94.2	0.89	440	4.5	10.8	4.4	87	101	▲ 1LG6312-2MA ■■-Z D41	1355	2.8	16				
4-pole: 1800 rpm at 60 Hz																							
250	300	315 L	1792	1193	✓	96.2	96.1	95.3	0.85	345	3.8	9.6	3.8	78	92	▲ 1LG6318-4MA ■■-Z D41	1270	4.2	16				
315	400	315 L	1792	1590	✓	96.2	96.0	95.1	0.84	465	4.4	9.9	3.8	78	92	▲ 1LG6312-4MA ■■-Z D41	1480	5.0	16				
6-pole: 1200 rpm at 60 Hz																							
200	250	315 L	1192	1494	✓	95.8	95.7	95.1	0.81	300	3.2	9.3	3.4	70	84	▲ 1LG6312-6MA ■■-Z D41	1545	6.1	16				
Voltages (≤ 600 V) ¹⁾																							
					No. of poles	Motor type		Version													Order code(s)		
50 Hz 400 VΔ					60 Hz 460 VΔ	2, 4, 6	1LG6312, 1LG6318		Standard													9	L1U
50 Hz 500 VΔ						2, 4, 6	1LG6312, 1LG6318		Without additional charge													5	-
Further voltages					For additional charges, code numbers and descriptions, see supplements and special versions.																9	...	
Types of construction																							
					No. of poles	Motor type		Version													Order code(s)		
Without flange					IM B3/6/7/8 ²⁾	2, 4, 6	1LG6312, 1LG6318		Standard													0	-
					IM V6 ²⁾	2, 4, 6	1LG6312, 1LG6318		On request													9	M1E
					IM V5 without protective cover ²⁾	2, 4, 6	1LG6312, 1LG6318		On request													9	M1D
With flange					IM B5 ³⁾	2, 4, 6	1LG6312, 1LG6318		With additional charge													1	-
					IM V1 without protective cover ^{2) 3) 6)}	2, 4, 6	1LG6312, 1LG6318		With additional charge													8	-
					IM V1 with protective cover ^{3) 4) 5)}	2, 4, 6	1LG6312, 1LG6318		With additional charge													4	-
					IM B35	2, 4, 6	1LG6312, 1LG6318		With additional charge													6	-
Further types of construction					For additional charges, code numbers and descriptions, see supplements and special versions.																9	...	
Special versions																							
Options								For additional charges, code numbers and descriptions, see supplements and special versions.										1LG6 M . ■■-Z		. . . + . . . + . . . + . . .			

1) Operating voltages only ≤ 600 V admissible in accordance with MG1 Table 12-12.
 2) 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.
 3) 1LG6220 to 1LG6318 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.
 4) 2-pole motors 1LG6312-... (motor series 1LG6 frame size 315 L) in 60 Hz version available on request.
 5) The "Second shaft extension" option, order code K16 is not possible.

* For 1LG6312-2MA..., 1LG6312-4MA..., 1LG6318-2MB..., 1LG6318-4MA... and 1LG6312-6MA... motors, it is not possible to use the options for country certificates (D31, D33, D34, D35, D40), marine certificates (E11, E21, E31, E51), explosion-proof version (M72, M73, M34, M35, M38, M39, M74, M75, C27), brakes, brakes with encoder (G26, H47, H62, H63, H64, H98, H99), low-noise versions (K37, K38) and mounting of a separately driven fan, separately driven fan with encoder (G17, H61, H64, H97, H99).