

Data sheet for SIMOTICS M-1PH8

Article No. : **1PH8224-1DC10-2FB1-Z**
G14



Figure similar

Client order no. :
Order no. :
Offer no. :
Remarks :

Item no. :
Consignment no. :
Project :

Engineering data

		P _N [kW]	M _N [Nm]	I _N [A]	U _N [V]	f _N [Hz]	n _N [rpm]	M _{max} [Nm]	I _{max} [A]	n _{max} [rpm]	M ₀ [Nm]	I ₀ [A]	η	cos φ	I _μ [A]
Y	ALM 400V	57.0	681.0	126.0	350	27.1	800	1,760	285.0	4,500	681.0	126	0.934	0.800	67.0
	BLM/SLM 400V	55.0	750.0	136.0	310	23.8	700	1,760	285.0	4,500	750.0	136	0.925	0.820	67.0
	ALM/BLM/SLM 480V	71.0	678.0	126.0	425	33.8	1,000	1,760	185.0	4,500	678.0	126	0.943	0.810	64.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	225
Cooling	Forced ventilation NDE -> DE
Vibration severity grade	R/A
Shaft and flange accuracy	R
Degree of protection	IP55
Design acc. to Code I	IM B3 (IM B6, IM B7, IM B8, IM V6)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Increased cantilever forces
Shaft extension	Feather key with half key balancing
Encoder system	Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm

Physical constants

Thermal time constant	49 min
Moment of inertia	14,800 kgcm ²
Weight (approx.)	610 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	left
Signal connection	DE
Terminal box designation	1XB7322-P05

Cooling data and sound pressure level

Airflow, min.	0.31 m ³ /s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	73 dB ¹⁾
Air discharge	axial
Pressure drop	650 Pa

External fan

Max. power consumption

1 AC 200 ... 277 V (±10%) 50/60 Hz ±10%	2.0 ... 2.3 A
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Special design

G14 with air filter

¹⁾ at a rated frequency of 2 kHz and a speed range of up to 3500 rpm