



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : **1PH8186-1DC10-2FA1-Z**
G14+L00+P00

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	40.0	478.0	83.0	360	27.3	800	1,230	205.0	5,000	478.0	83	0.916	0.840	41.0
	BLM/SLM 400V	35.0	478.0	83.0	330	23.9	700	1,230	205.0	5,000	478.0	83	0.909	0.810	44.0
	ALM/BLM/SLM 480V	50.0	478.0	83.0	450	33.9	1,000	1,230	205.0	5,000	478.0	83	0.929	0.830	42.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	180
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 end	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	25 min
Moment of inertia	6,520 kgcm ²
Weight (approx.)	422 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	right
Signal connection	DE
Terminal box designation	1XB7422-P06

Cooling data and sound pressure level

Airflow, min.	0.17 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	550 Pa

External fan

Max. power consumption

1 AC 200 ... 277 V (±10%) 50/60 Hz ±10% 1.1 ... 1.3 A

Special design

- G14 with air filter
- L00 Terminal box replaced by the next larger terminal box
- P00 Undrilled cable entry plate

¹⁾ at a rated frequency of 2 kHz and a speed range of up to 5000 rpm