



Figure similar

## Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8224-2DF10-2BA1

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

Item no. :  
Consignment no. :  
Project :

### Engineering data

		P <sub>N</sub> [kW]	M <sub>N</sub> [Nm]	I <sub>N</sub> [A]	U <sub>N</sub> [V]	f <sub>N</sub> [Hz]	n <sub>N</sub> [rpm]	M <sub>max</sub> [Nm]	I <sub>max</sub> [A]	n <sub>max</sub> [rpm]	M <sub>0</sub> [Nm]	I <sub>0</sub> [A]	η	cos φ	I <sub>μ</sub> [A]
Y	ALM 400V	117.0	638.0	235.0	315	117.0	1,750	2,400	900.0	3,500	708.0	256	0.965	0.000	0.0
	BLM/SLM 400V	101.0	643.0	235.0	271	100.0	1,500	2,400	900.0	3,500	708.0	256	0.965	0.000	0.0
	ALM/BLM/SLM 480V	118.0	563.0	210.0	355	133.0	2,000	2,400	900.0	3,500	708.0	256	0.963	0.000	0.0

### Mechanical data

Motor type	Permanent-magnet synchronous 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	Standard
Shaft end	Feather key with half key balancing
Encoder system	Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm

### External fan

#### Max. power consumption

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

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

### Physical constants

Thermal time constant	23 min
Moment of inertia	12,800 kgcm <sup>2</sup>
Weight (approx.)	580 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.	0.31 m <sup>3</sup> /s
Sound pressure level L <sub>pA</sub> (1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	73 dB <sup>1)</sup>
Air discharge	axial
Pressure drop	650 Pa