



Figure similar

## Data sheet for SIMOTICS M-1PH8

Article No. : **1PH8186-1HF40-2BD2-Z**  
G14+L27

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	125.0	682.0	225.0	385	59.2	1,750	1,230	400.0	5,000	682.0	225	0.942	0.880	80.0
	BLM/SLM 400V	108.0	688.0	225.0	330	50.9	1,500	1,230	400.0	5,000	688.0	225	0.936	0.890	79.0
	ALM/BLM/SLM 480V	135.0	645.0	210.0	445	67.5	2,000	1,230	400.0	5,000	645.0	210	0.948	0.870	83.0

### Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	180
Cooling	Open circuit cooling NDE-> DE
Vibration severity grade	R/A
Shaft and flange accuracy	R
Degree of protection	IP23
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 HTL 1024 S/R, max. encoder speed = 9000 rpm

### Physical constants

Thermal time constant	29 min
Moment of inertia	6,520 kgcm <sup>2</sup>
Weight (approx.)	422 kg

### Connection

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

### Cooling data and sound pressure level

Airflow, min.	0.21 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	450 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

L27 Insulated NDE bearing

<sup>1)</sup> at a rated frequency of 2 kHz and a speed range of up to 3000 rpm