



Figure similar

## Data sheet for SIMOTICS M-1PH8

Article No. : **1PH8284-1HF10-0BV2-Z**  
A12

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]
Δ	ALM 400V	225.0	1,228.0	390.0	400	58.7	1,750	3,650	1,100.0	3,300	1,228.0	390	0.964	0.860	162.0
	BLM/SLM 400V	196.0	1,248.0	390.0	345	50.4	1,500	3,650	1,100.0	3,300	1,248.0	390	0.963	0.870	162.0
	ALM/BLM/SLM 480V	255.0	1,218.0	390.0	455	67.0	2,000	3,650	1,100.0	3,300	1,218.0	390	0.965	0.860	162.0

### Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	280
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 V6)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard
Shaft end	Plain shaft
Encoder system	Incremental encoder HTL 1024 S/R, max. encoder speed = 9000 rpm

### Physical constants

Thermal time constant	47 min
Moment of inertia	42,000 kgcm <sup>2</sup>
Weight (approx.)	1,200 kg

### Connection

Type of electrical connection	Terminal box
Position of the connection	NDE left
Power connection	below
Signal connection	DE
Terminal box designation	1XB7700-P02

### Cooling data and sound pressure level

Airflow, min.	0.42 m <sup>3</sup> /s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	74 dB <sup>1)</sup>
Air discharge	radial
Pressure drop	600 Pa

### External fan

#### Max. power consumption

3 AC 380 ... 480 V (-5% / +10%)  
50/60 Hz ±10%      0.75 ... 0.90 A

### Special design

A12 Additional PTC thermistor chain for alarm and tripping

<sup>1)</sup> at a rated frequency of 2 kHz and a speed range of up to 3300 rpm