



Figure similar

## Data sheet for SIMOTICS M-1PH8

Article No. : **1PH8286-1HF40-2BU2-Z**  
G14

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	445.0	2,429.0	730.0	400	58.9	1,750	4,500	1,360.0	3,300	2,429.0	730	0.962	0.920	178.0
	BLM/SLM 400V	382.0	2,432.0	730.0	345	50.6	1,500	4,500	1,360.0	3,300	2,432.0	730	0.959	0.920	177.0
	ALM/BLM/SLM 480V	500.0	2,387.0	720.0	455	67.2	2,000	4,500	1,360.0	3,300	2,387.0	720	0.963	0.920	178.0

### Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	280
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 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	20 min
Moment of inertia	52,000 kgcm <sup>2</sup>
Weight (approx.)	1,400 kg

### Connection

Type of electrical connection	Terminal box
Position of the connection	NDE right
Power connection	below
Signal connection	DE
Terminal box designation	1XB7712-P03

### Cooling data and sound pressure level

Airflow, min.	0.52 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

G14 with air filter

<sup>1)</sup> at a rated frequency of 2 kHz and a speed range of up to 2800 rpm