

## Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8186-1FF00-0BA1

Figure similar

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	85.0	464.0	164.0	385	58.9	1,750	1,230	400.0	5,000	464.0	164	0.949	0.820	83.0
	BLM/SLM 400V	74.0	471.0	166.0	330	50.6	1,500	1,230	400.0	5,000	471.0	166	0.945	0.830	82.0
	ALM/BLM/SLM 480V	94.0	449.0	160.0	445	67.2	2,000	1,230	400.0	5,000	449.0	160	0.952	0.800	86.0

### Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	180
Cooling	Forced ventilation DE -> NDE
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	Plain shaft
Encoder system	Absolut encoder 22 bit Singleturn + 12 bit Multiturn, max. encoder speed = 12000 rpm

### External fan

#### Max. power consumption

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

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

### Physical constants

Thermal time constant	25 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	right
Signal connection	DE
Terminal box designation	1XB7322-P05

### Cooling data and sound pressure level

Airflow, min.	0.17 m <sup>3</sup> /s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	73 dB <sup>1)</sup>
Air discharge	axial
Pressure drop	550 Pa