



Figure similar

## Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8186-1HD12-2FA1

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	58.0	482.0	112.0	390	38.9	1,150	1,230	265.0	3,000	482.0	112	0.933	0.820	57.0
	BLM/SLM 400V	51.0	487.0	112.0	340	34.0	1,000	1,230	265.0	3,000	487.0	112	0.926	0.830	56.0
	ALM/BLM/SLM 480V	67.0	474.0	112.0	450	45.6	1,350	1,230	265.0	3,000	474.0	112	0.939	0.820	55.0

### Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	180
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 B5 with A450 flange (IM V3)
Temperature monitoring	KTY84 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Increased cantilever forces
Shaft end	Feather key with half key balancing
Encoder system	Incremental encoder HTL 1024 S/R, max. encoder speed = 9000 rpm

<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

### External fan

#### Max. power consumption

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