

## Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8228-1HF13-2BD1-Z  
Y84



Figure similar

Client order no. :

Item no. :

Order no. :

Consignment no. :

Offer no. :

Project :

Remarks :

### 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	179.0	977.0	330.0	395	58.7	1,750	2,450	750.0	4,500.0	977.0	330	0.961	0.82	170.0
	BLM/SLM 400V	160.0	1,019.0	340.0	340	50.4	1,500	2,450	750.0	4,500.0	1,019.0	340	0.959	0.83	170.0
	ALM/BLM/SLM 480V	196.0	936.0	325.0	450	67.1	2,000	2,450	750.0	4,500.0	36.0	325	0.962	0.81	169.0

### Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	225
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 B35 with A550 flange (IM V35)
Temperature monitoring	KTY84 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard
Shaft extension	Feather key with half key balancing
Encoder system	Incremental encoder HTL 1024 S/R, max. encoder speed = 9000 rpm

### Physical constants

Thermal time constant	55 min
Moment of inertia	2.33 kgm <sup>2</sup>
Weight (approx.)	870 kg

### Connection

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

### Cooling data and sound pressure level

Airflow, min.	0.31 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	650 Pa

### Special design

Y84 Customer specifications on rating plate:

<sup>1)</sup> at a rated frequency of 2 kHz and a speed range of up to 3500 rpm