

## Data sheet for SIMOTICS M-1PH8

Article No. : **1PH8184-1HF00-2EA1-Z**  
V92



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	60.0	327.0	120.0	390	58.9	1,750	925	300.0	5,000.0	327.0	120	0.944	0.79	64.0
	BLM/SLM 400V	51.0	325.0	116.0	335	50.6	1,500	925	300.0	5,000.0	325.0	116	0.940	0.80	63.0
	ALM/BLM/SLM 480V	68.0	325.0	118.0	450	67.2	2,000	925	300.0	5,000.0	325.0	118	0.947	0.78	65.0

### Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	180
Cooling	Forced ventilation DE -> NDE
Vibration severity grade	A
Shaft and flange accuracy	N
Degree of protection	IP55
Design acc. to Code I	IM B3 (IM B6, IM B7, IM B8, IM V6)
Temperature monitoring	KTY84 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Increased cantilever forces
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	22 min
Moment of inertia	0.489 kgm <sup>2</sup>
Weight (approx.)	350 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 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	550 Pa

### Special design

V92 1PH7184-/1PL6184-compatible shaft extension 60 mm x 140 mm

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