

## Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8165-1HD00-2GA1



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	31.0	257.0	69.0	333	39.2	1,150	740	192.0	6,500	302.0	77	0.921	0.890	20.9
	BLM/SLM 400V	28.0	267.0	71.0	292	34.2	1,000	740	192.0	6,500	302.0	77	0.914	0.890	22.2
	ALM/BLM/SLM 480V	34.0	241.0	66.0	387	45.8	1,350	740	192.0	6,500	302.0	77	0.928	0.860	22.5

### Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	160
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 V5, IM V6, IM B6, IM B7, IM B8)
Temperature monitoring	KTY84 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

### External fan

#### Max. power consumption

3 AC 400 V / 50 Hz (±10%)	0.16 A
3 AC 400 V / 60 Hz (±10%)	0.21 A
3 AC 480 V / 60 Hz (±10%)	0.21 A

<sup>1)</sup> at a rated frequency of 4 kHz and a speed range of up to 5000 rpm

### Physical constants

Thermal time constant	35 min
Moment of inertia	2,320 kgcm <sup>2</sup>
Weight (approx.)	230 kg

### Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	right
Signal connection	DE
Terminal box designation	gk863

### Cooling data and sound pressure level

Airflow, min.	0.16 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	200 Pa