



Figure similar

## Data sheet for SIMOTICS M-1PH8

Article No. : **1PH8165-1FD10-1BA1-Z**  
A25+G14+K10

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	0.89	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	0.89	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	0.86	22.5

### Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	160
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 B3 (IM V5, IM V6, IM B6, IM B7, IM B8)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard with fixed bearing
Shaft extension	Feather key with full key balancing
Encoder system	Absolut encoder 22 bit Singleturn + 12 bit Multiturn, max. encoder speed = 12000 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 left
Power connection	top
Signal connection	DE
Terminal box designation	gk873

### 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

### Special design

A25	Additional PT1000 temperature sensor as reserve connected to signal terminal strip
G14	with air filter
K10	Terminal box NDE left

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