



Figure similar

## Data sheet for SIMOTICS M-1PH8

Article No. : **1PH8184-1DD42-2EA1-Z**  
G14+K10+K90+V92

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	65.0	540.0	120.0	390	39.4	1,150	925	205.0	5,000	540.0	120	0.911	0.88	39.0
	BLM/SLM 400V	57.0	544.0	120.0	340	34.4	1,000	925	205.0	5,000	544.0	120	0.899	0.89	39.0
	ALM/BLM/SLM 480V	74.0	523.0	118.0	450	46.0	1,350	925	205.0	5,000	523.0	118	0.922	0.88	39.0

### Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	180
Cooling	Open circuit cooling NDE-> DE
Vibration severity grade	A
Shaft and flange accuracy	N
Degree of protection	IP23
Design acc. to Code I	IM B5 with A450 flange (IM V3)
Temperature monitoring	Pt1000 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 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm

### Physical constants

Thermal time constant	26 min
Moment of inertia	4,890 kgcm <sup>2</sup>
Weight (approx.)	350 kg

### Connection

Type of electrical connection	Terminal box
Position of the connection	NDE left
Power connection	DE
Signal connection	top
Terminal box designation	1XB7322-P05

### Cooling data and sound pressure level

Airflow, min.	0.21 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	450 Pa

### Special design

G14	with air filter
K10	Terminal box NDE left
K90	Version with flange size A400
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 3000 rpm