



Figure similar

## Data sheet for SIMOTICS M-1PH8

Article No. : **1PH8224-1MD00-2DA1-Z**  
K24

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	81.0	673.0	156.0	385	38.8	1,150	1,760	380.0	4,500	673.0	156	0.946	0.82	78.0
	BLM/SLM 400V	71.0	678.0	158.0	335	33.8	1,000	1,760	380.0	4,500	678.0	158	0.942	0.82	77.0
	ALM/BLM/SLM 480V	92.0	651.0	154.0	450	45.5	1,350	1,760	380.0	4,500	651.0	154	0.951	0.81	78.0

### Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	225
Cooling	Forced ventilation DE -> NDE
Vibration severity grade	SR/A
Shaft and flange accuracy	R
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	Primer (light gray)
Type of the bearing	Standard
Shaft extension	Feather key with half key balancing
Encoder system	Incremental encoder sin/cos 1Vpp 2048 S/R with C- and D-Spur, max. encoder speed = 12000 rpm

### Physical constants

Thermal time constant	49 min
Moment of inertia	14,800 kgcm <sup>2</sup>
Weight (approx.)	610 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.	0.31 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	650 Pa

### Special design

K24 Primer

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