

## Data sheet for SIMOTICS M-1PH8

Article No. : **1PH8224-1DF05-2AD1-Z**  
K24+L00



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	110.0	600.0	198.0	395	58.9	1,750	1,550	485.0	4,500	600.0	198	0.956	0.85	87.0
	BLM/SLM 400V	95.0	605.0	200.0	340	50.5	1,500	1,550	485.0	4,500	605.0	200	0.953	0.85	87.0
	ALM/BLM/SLM 480V	124.0	592.0	196.0	460	67.2	2,000	1,550	485.0	4,500	592.0	196	0.957	0.83	90.0

### Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	225
Cooling	Forced ventilation DE -> NDE
Vibration severity grade	A
Shaft and flange accuracy	N
Degree of protection	IP55
Design acc. to Code I	IM V15 with A550 flange
Temperature monitoring	Pt1000 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 22 bit with commutation position 11 bit, 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	DE
Signal connection	right
Terminal box designation	1XB7422-P06

### 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
L00	Terminal box replaced by the next larger terminal box

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