

## Data sheet for SIMOTICS M-1PH8

Article No. : **1PH8224-1HD40-2EA1-Z**  
K80



Figure similar

Client order no. :

Item no. :

Order no. :

Consignment no. :

Offer no. :

Project :

Remarks :

### Engineering data

		$P_N$ [kW]	$M_N$ [Nm]	$I_N$ [A]	$U_N$ [V]	$f_N$ [Hz]	$n_N$ [rpm]	$M_{max}$ [Nm]	$I_{max}$ [A]	$n_{max}$ [rpm]	$M_0$ [Nm]	$I_0$ [A]	$\eta$	$\cos \varphi$	$I_{\mu}$ [A]
Y	ALM 400V	120.0	997.0	220.0	385	39.1	1,150	1,760	385.0	4,500.0	997.0	220	0.934	0.88	74.0
	BLM/SLM 400V	105.0	1,003.0	220.0	335	34.1	1,000	1,760	385.0	4,500.0	1,003.0	2,200	0.926	0.88	73.0
	ALM/BLM/SLM 480V	137.0	969.0	215.0	450	45.7	1,350	1,760	385.0	4,500.0	969.0	215	0.941	0.87	75.0

### Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	225
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 B3 (IM B6, IM B7, IM B8, IM V6)
Temperature monitoring	KTY84 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 HTL 1024 S/R, max. encoder speed = 9000 rpm

### Physical constants

Thermal time constant	21 min
Moment of inertia	1.48 kgm <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	1XB7422-P06

### Cooling data and sound pressure level

Airflow, min.	0.33 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	600 Pa

### Special design

K80 Pipe connection NDE

<sup>1)</sup> at a rated frequency of 2 kHz and a speed range of up to 2000 rpm