

## Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8228-1HD10-1BB2

Figure similar

Client order no. :  
Order no. :  
Offer no. :  
Remarks :

Item no. :  
Consignment no. :  
Project :

### 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]	$\eta$	$\cos \phi$	$I_{\mu}$ [A]
Y	ALM 400V	129.0	1,071.0	235.0	390	38.8	1,150	2,750	570.0	4,500	1,071.0	235	0.953	0.860	97.0
	BLM/SLM 400V	113.0	1,079.0	235.0	340	33.9	1,000	2,750	570.0	4,500	1,079.0	235	0.948	0.870	97.0
	ALM/BLM/SLM 480V	147.0	1,040.0	225.0	460	45.5	1,350	2,750	570.0	4,500	1,040.0	225	0.957	0.860	99.0

### Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	225
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 B6, IM B7, IM B8, IM V6)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard
Shaft end	Feather key with full key balancing
Encoder system	Incremental encoder HTL 1024 S/R, max. encoder speed = 9000 rpm

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

### Physical constants

Thermal time constant	55 min
Moment of inertia	23,300 kgcm <sup>2</sup>
Weight (approx.)	870 kg

### Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	left
Signal connection	DE
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

### External fan

#### Max. power consumption

1 AC 200 ... 277 V (±10%) 50/60 Hz ±10%	2.0 ... 2.3 A
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