

## Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8186-1HF00-1EA2



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]	$\eta$	$\cos \phi$	$I_{\mu}$ [A]	
Y	ALM 400V	85.0	464.0	164.0	385	58.9	1,750	1,230	400.0	5,000.0	464.0	164	0.949	0.82	83.0
	BLM/SLM 400V	74.0	471.0	166.0	330	50.6	1,500	1,230	400.0	5,000.0	471.0	166	0.945	0.83	82.0
	ALM/BLM/SLM 480V	94.0	449.0	160.0	445	67.2	2,000	1,230	400.0	5,000.0	449.0	160	0.952	0.80	86.0

### Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	180
Cooling	Forced ventilation DE -> NDE
Vibration severity grade	A
Shaft and flange accuracy	N
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	Increased cantilever forces
Shaft extension	Feather key with full key balancing
Encoder system	Incremental encoder HTL 1024 S/R, max. encoder speed = 9000 rpm

### Physical constants

Thermal time constant	25 min
Moment of inertia	0.652 kgm <sup>2</sup>
Weight (approx.)	422 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.	0.17 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	550 Pa

<sup>1)</sup> at a rated frequency of 2 kHz and a speed range of up to 5000 rpm