



Figure similar

## Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8105-1DF02-2BE1

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]	$\eta$	$\cos \varphi$	$I_{\mu}$ [A]
Y	ALM 400V	8.0	44.0	17.5	400	60.2	103	41.0	9,000	52.0	20	0.878	0.780	8.8
	BLM/SLM 400V	7.0	45.0	17.5	348	51.9	103	41.0	9,000	52.0	20	0.867	0.790	8.8
	ALM 480V	9.9	43.0	17.0	485	75.3	103	41.0	9,000	52.0	20	0.900	0.790	8.7
	BLM/SLM 480V	9.0	43.0	17.0	453	68.5	103	41.0	9,000	52.0	20	0.911	0.780	8.7

### Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	100
Cooling	Forced ventilation DE -> NDE
Vibration severity grade	R/A
Shaft and flange accuracy	R
Degree of protection	IP55
Design acc. to Code I	IM B5 (IM V1, IM V3)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard with fixed bearing
Shaft end	Feather key with half key balancing
Encoder system	Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm

### External fan

#### Max. power consumption

3 AC 400 V / 50 Hz ( $\pm 10\%$ )	0.10 A
3 AC 400 V / 60 Hz ( $\pm 10\%$ )	0.08 A
3 AC 480 V / 60 Hz ( $\pm 10\%$ )	0.11 A

<sup>1)</sup> at a rated frequency of 4 kHz and a speed range of up to 5000 rpm

### Physical constants

Thermal time constant	20 min
Moment of inertia	252 kgcm <sup>2</sup>
Weight (approx.)	65 kg

### Connection

Type of electrical connection	Power connector
Position of the connection	Power connector, top
Power connection	right
Signal connection	DE

### Cooling data and sound pressure level

Airflow, min.	0.04 m <sup>3</sup> /s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	70 dB <sup>1)</sup>
Air discharge	axial
Pressure drop	110 Pa