



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8186-2DD05-0CD1

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]	η	$\cos \phi$	I_{μ} [A]
Y	ALM 400V	71.0	590.0	148.0	315	77.0	1,950	490.0	3,800	640.0	157	0.948	0.000	0.0
	BLM/SLM 400V	62.0	592.0	148.0	275	67.0	1,950	490.0	3,800	640.0	157	0.943	0.000	0.0
	ALM/BLM/SLM 480V	83.0	587.0	146.0	368	90.0	1,950	490.0	3,800	640.0	157	0.952	0.000	0.0

Mechanical data

Motor type	Permanent-magnet synchronous motor
Shaft height	180
Cooling	Forced ventilation DE -> NDE
Vibration severity grade	S/A
Shaft and flange accuracy	R
Degree of protection	IP55
Design acc. to Code I	IM V15 with A450 flange
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard
Shaft end	Plain shaft
Encoder system	Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm

External fan

Max. power consumption

1 AC 200 ... 277 V ($\pm 10\%$) 50/60 Hz $\pm 10\%$ 1.1 ... 1.3 A

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

Physical constants

Thermal time constant	21 min
Moment of inertia	6,000 kgcm ²
Weight (approx.)	400 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	DE
Signal connection	right
Terminal box designation	1XB7322-P05

Cooling data and sound pressure level

Airflow, min.	0.17 m ³ /s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	73 dB ¹⁾
Air discharge	axial
Pressure drop	550 Pa