

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8186-1DD30-0BC1



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]	η	cos φ	I _μ [A]
Y	ALM 400V	85.0	706.0	154.0	390	39.3	1,150	1,230	265.0	5,000	706.0	154	0.918	0.890	54.0
	BLM/SLM 400V	74.0	707.0	156.0	340	34.3	1,000	1,230	265.0	5,000	707.0	156	0.908	0.890	53.0
	ALM/BLM/SLM 480V	98.0	693.0	152.0	450	45.9	1,350	1,230	265.0	5,000	693.0	152	0.928	0.890	53.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	180
Cooling	Open circuit cooling DE-> NDE
Vibration severity grade	R/A
Shaft and flange accuracy	R
Degree of protection	IP23
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	Plain shaft
Encoder system	Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm

Physical constants

Thermal time constant	29 min
Moment of inertia	6,520 kgcm ²
Weight (approx.)	422 kg

Connection

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

Cooling data and sound pressure level

Airflow, min.	0.21 m ³ /s
Sound pressure level L _{pA} (1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	73 dB ¹⁾
Air discharge	axial
Pressure drop	450 Pa

External fan

Max. power consumption

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

¹⁾ at a rated frequency of 2 kHz and a speed range of up to 3000 rpm