

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8186-1DD20-1BA1



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	74.0	615.0	148.0	370	38.9	1,150	1,229	296.0	5,000	615.0	148	0.927	0.84	80.0
	BLM/SLM 400V	64.0	611.0	148.0	320	34.0	1,000	1,222	296.0	5,000	611.0	148	0.920	0.85	78.0
	ALM/BLM/SLM 480V	86.0	608.0	148.0	420	45.7	1,350	1,217	296.0	5,000	608.0	148	0.933	0.86	73.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	180
Cooling	Water cooling
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 extension	Feather key with full key balancing
Encoder system	Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm

Physical constants

Thermal time constant	28 min
Moment of inertia	6,520 kgcm ²
Weight (approx.)	410 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

Flow rate, min.	15 l/min
Sound pressure level L _{pA} (1m) motor rated load, tolerance + 3dB	70 dB ¹⁾
Pressure drop	0.7 bar
NDE thread connection	0.375 Inches

Cooling water specification

pH value	6 ... 9
Total hardness	1.7 mmol/l
Electrical conductivity	2,000 μS/cm
Chloride ions	250 mg/l
Sulfate ions	240 mg/l
Nitrate ions	50 mg/l
Dissolved substances	340 mg/l
Maximum particle size	100 μm
Antifreeze/corrosion protection	20 ... 30 %

¹⁾ at a rated frequency of 2 kHz or 4 kHz and a speed range of up to 5000 rpm