

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8186-2FC22-0AA1



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	66.0	788.0	142.0	335	53.0	800	1,950	358.0	3,000	800.0	143	0.931	0.000	0.0
	BLM/SLM 400V	58.0	791.0	142.0	295	47.0	700	1,950	358.0	3,000	800.0	143	0.924	0.000	0.0
	ALM/BLM/SLM 480V	82.0	783.0	140.0	415	67.0	1,000	1,950	358.0	3,000	800.0	143	0.941	0.000	0.0

Mechanical data

Motor type	Permanent-magnet synchronous motor
Shaft height	180
Cooling	Water cooling
Vibration severity grade	A
Shaft and flange accuracy	N
Degree of protection	IP55
Design acc. to Code I	IM B5 with A450 flange (IM V3)
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	Absolut encoder 22 bit Singleturn + 12 bit Multiturn, max. encoder speed = 12000 rpm

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

Physical constants

Thermal time constant	14 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	right
Signal connection	DE
Terminal box designation	1XB7322-P05

Cooling data and sound pressure level

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