



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8184-1AF20-2AC2

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	82.0	447.0	150.0	390	59.3	1,750	895	300.0	5,000	447.0	150	0.933	0.87	65.0
	BLM/SLM 400V	70.0	446.0	150.0	335	51.9	1,500	891	300.0	5,000	446.0	150	0.928	0.87	66.0
	ALM/BLM/SLM 480V	95.0	454.0	152.0	450	67.3	2,000	907	304.0	5,000	454.0	152	0.938	0.85	68.0

Mechanical data

Motor type	Squirrel cage asynchronous 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 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 half key balancing
Encoder system	Without encoder

Physical constants

Thermal time constant	25 min
Moment of inertia	4,890 kgcm ²
Weight (approx.)	340 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

Flow rate, min.	15 l/min
Sound pressure level L _{pA} (1m) motor rated load, tolerance + 3dB	70 dB ¹⁾
Pressure drop	0.6 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