



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8228-1HF23-2AB1

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	221.0	1,206.0	390.0	390	58.8	1,750	2,412	780.0	4,500	1,206.0	390	0.961	0.870	165.0
	BLM/SLM 400V	192.0	1,222.0	390.0	340	50.5	1,500	2,445	780.0	4,500	1,222.0	390	0.959	0.870	169.0
	ALM/BLM/SLM 480V	245.0	1,170.0	380.0	450	67.1	2,000	2,340	760.0	4,500	1,170.0	380	0.963	0.860	169.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	225
Cooling	Water cooling
Vibration severity grade	A
Shaft and flange accuracy	N
Degree of protection	IP55
Design acc. to Code I	IM B35 with A550 flange (IM V35)
Temperature monitoring	KTY84 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard
Shaft end	Feather key with half key balancing
Encoder system	Incremental encoder HTL 1024 S/R, max. encoder speed = 9000 rpm

Physical constants

Thermal time constant	34 min
Moment of inertia	23,540 kgcm ²
Weight (approx.)	870 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	left
Signal connection	DE
Terminal box designation	1XB7700-P02

Cooling data and sound pressure level

Flow rate, min.	20 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 4500 rpm