



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8103-1MM22-0LB1

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	11.7	34.0	30.0	340	112.4	3,300	95	82.0	12,000	46.0	35	0.900	0.80	13.2
	BLM/SLM 400V	10.6	34.0	30.0	309	102.4	3,000	95	82.0	12,000	46.0	35	0.900	0.80	13.0
	ALM/BLM/SLM 480V	12.7	34.0	29.7	368	122.5	3,600	95	82.0	12,000	46.0	35	0.910	0.80	13.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	100
Cooling	Water cooling
Vibration severity grade	SPECIAL/B
Shaft and flange accuracy	SPECIAL
Degree of protection	IP65
Design acc. to Code I	IM B5 (IM V1, IM V3)
Temperature monitoring	KTY84 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Performance
Shaft extension	Plain shaft
Encoder system	Incremental encoder sin/cos 1Vpp 2048 S/R with C- and D-Spur, max. encoder speed = 12000 rpm

Physical constants

Thermal time constant	10 min
Moment of inertia	172 kgcm ²
Weight (approx.)	60 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	left
Signal connection	DE
Terminal box designation	gk823

Cooling data and sound pressure level

Flow rate, min.	8 l/min
Sound pressure level LpA(1m) motor rated load, tolerance + 3dB	68 dB ¹⁾
Pressure drop	0.4 bar
NDE thread connection	0.25 Inches

Cooling water specification

pH value	6 ... 9
Total hardness	1.7 mmol/l
Electrical conductivity	500 μS/cm
Chloride ions	40 mg/l
Sulfate ions	50 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 4 kHz and a speed range of up to 5000 rpm