



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8107-1HM20-2CB2

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	$\cos \phi$	$I\mu$ [A]	
Y	ALM 400V	20.0	58.0	60.0	290	112.2	3,300	180	183.0	9,000	82.0	73	0.900	0.800	26.1
	BLM/SLM 400V	18.0	57.0	60.0	264	102.2	3,000	180	183.0	9,000	82.0	73	0.900	0.800	26.0
	ALM 480V	21.6	53.0	58.0	329	131.9	3,900	180	183.0	9,000	82.0	73	0.900	0.800	26.1
	BLM/SLM 480V	21.0	56.0	59.0	315	122.1	3,600	180	183.0	9,000	82.0	73	0.910	0.790	26.1

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	100
Cooling	Water cooling
Vibration severity grade	S/A
Shaft and flange accuracy	R
Degree of protection	IP65
Design acc. to Code I	IM B3 (IM V5, IM V6)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard with fixed bearing
Shaft end	Feather key with half key balancing
Encoder system	Incremental encoder HTL 1024 S/R, max. encoder speed = 9000 rpm

Cooling water specification

pH value	6 ... 9
Total hardness	1.7 mmol/l
Electrical conductivity	500 μ S/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 μ m
Antifreeze/corrosion protection	20 ... 30 %

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

Physical constants

Thermal time constant	10 min
Moment of inertia	289 kgcm ²
Weight (approx.)	83 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