SIEMENS

Data sheet for SIMOTICS M-1PH8



Figure similar

Article No. : **1PH8105-1CG23-3MA2**

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	Iμ [A]
Y	**ALM 400V**	**15.0**	**62.0**	**34.0**	**370**	**79.3**	**2,300**	**140**	**75.0**	**12,000**	**74.0**	**38**	**0.891**	**0.810**	**15.1**
	BLM/SLM 400V	13.0	62.0	34.5	326	69.3	2,000	140	75.0	12,000	74.0	38	0.879	0.810	15.6
	ALM 480V	18.0	61.0	33.5	450	96.0	2,800	140	75.0	12,000	74.0	38	0.890	0.800	15.3
	BLM/SLM 480V	17.0	61.0	33.5	424	90.9	2,650	140	75.0	12,000	74.0	38	0.911	0.810	15.3

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 B35 (IM V15, IM V35)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	High Performance
Shaft end	Smooth hollow shaft
Encoder system	Incremental encoder sin/cos 1Vpp 256 S/R without ND-end at terminal box (encoder IN256S/R)

Physical constants

Thermal time constant	10 min
Moment of inertia	252 kgcm²
Weight (approx.)	74 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	right
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

Subject to change. Calculated values may differ from nameplate ratings. © Copyright Siemens