SIEMENS

Data sheet for SIMOTICS M-1PH8



Figure similar

Article No. : 1PH8165-1MG23-0LA2

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**	**60.0**	**249.0**	**107.0**	**410**	**77.6**	**2,300**	**600**	**250.0**	**9,000**	**334.0**	**140**	**0.946**	**0.880**	**33.7**
	BLM/SLM 400V	53.0	253.0	110.0	352	67.6	2,000	600	250.0	9,000	334.0	140	0.938	0.890	32.1
	ALM 480V	68.0	232.0	100.0	494	94.2	2,800	600	250.0	9,000	334.0	140	0.940	0.880	31.9
	BLM/SLM 480V	65.0	234.0	100.0	460	89.2	2,650	600	250.0	9,000	334.0	140	0.948	0.890	31.9

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	160
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	Performance
Shaft end	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	14 min
Moment of inertia	2,320 kgcm²
Weight (approx.)	264 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	right
Signal connection	DE
Terminal box designation	gk873

Cooling data and sound pressure level

Flow rate, min.	15 l/min
Sound pressure level LpA(1m) motor rated load, tolerance + 3dB	69 dB [1]
Pressure drop	0.2 bar
NDE thread connection	0.5 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