SIEMENS

Data sheet for SIMOTICS M-1PH8



Figure similar

Article No. : 1PH8163-1DG23-1LA1

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**	**48.0**	**199.0**	**93.0**	**382**	**77.6**	**2,300**	**560**	**253.0**	**9,000**	**281.0**	**120**	**0.939**	**0.880**	**30.2**
	BLM/SLM 400V	42.0	201.0	93.0	335	67.6	2,000	560	253.0	9,000	281.0	120	0.937	0.880	30.8
	ALM 480V	56.0	191.0	89.0	462	94.3	2,800	560	253.0	9,000	281.0	120	0.940	0.880	33.6
	BLM/SLM 480V	55.0	198.0	90.0	450	89.2	2,650	560	253.0	9,000	281.0	120	0.940	0.860	33.6

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	Feather key with full key balancing
Encoder system	Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm

Physical constants

Thermal time constant	14 min
Moment of inertia	2,160 kgcm²
Weight (approx.)	229 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