SIEMENS

Data sheet for SIMOTICS M-1PH8



Figure similar

Article No. : 1PH8224-2DD23-1BA1

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]
	ALM 400V	**115.0**	**955.0**	**250.0**	**310**	**77.0**	**1,150**	**2,400**	**640.0**	**3,500**	**1,007.0**	**262**	**0.959**	**0.000**	**0.0**
Y	BLM/SLM 400V	101.0	964.0	255.0	275	67.0	1,000	2,400	640.0	3,500	1,007.0	262	0.956	0.000	0.0
	ALM/BLM/SLM 480V	135.0	955.0	250.0	365	90.0	1,350	2,400	640.0	3,500	1,007.0	262	0.961	0.000	0.0

Mechanical data

Motor type	Permanent-magnet synchronous motor
Shaft height	225
Cooling	Water cooling
Vibration severity grade	R/A
Shaft and flange accuracy	R
Degree of protection	IP55
Design acc. to Code I	IM B35 with A550 flange (IM V35)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard
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	16 min
Moment of inertia	12,800 kgcm²
Weight (approx.)	580 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	right
Signal connection	DE
Terminal box designation	1XB7422-P06

Cooling data and sound pressure level

Flow rate, min.	25 l/min
Sound pressure level LpA(1m) motor rated load, tolerance + 3dB	70 dB [1]
Pressure drop	0.9 bar
NDE thread connection	0.375 Inches

Cooling water specification

pH value	6 ... 9
Total hardness	1.7 mmol/l
Electrical conductivity	2,000 µS/cm
Chloride ions	250 mg/l
Sulfate ions	240 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 2 kHz and a speed range of up to 4500 rpm