SIEMENS

Data sheet for SIMOTICS M-1PH8



Figure similar

Article No. : **1PH8184-2DD23-1BC1**

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	**70.0**	**581.0**	**140.0**	**386**	**77.0**	**1,150**	**1,450**	**355.0**	**3,800**	**600.0**	**143**	**0.942**	**0.000**	**0.0**
Y	BLM/SLM 400V	61.0	583.0	140.0	313	67.0	1,000	1,450	355.0	3,800	600.0	143	0.937	0.000	0.0
	ALM/BLM/SLM 480V	82.0	580.0	140.0	417	90.0	1,350	1,450	355.0	3,800	600.0	143	0.946	0.000	0.0

Mechanical data

Motor type	Permanent-magnet synchronous motor
Shaft height	180
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 A450 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	13 min
Moment of inertia	4,500 kgcm²
Weight (approx.)	330 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	NDE
Signal connection	right
Terminal box designation	1XB7322-P05

Cooling data and sound pressure level

Flow rate, min.	15 l/min
Sound pressure level LpA(1m) motor rated load, tolerance + 3dB	70 dB [1]
Pressure drop	0.6 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 or 4 kHz and a speed range of up to 5000 rpm