SIEMENS

Data sheet for SIMOTICS M-1PH8



Figure similar

Article No. : **1PH8186-1DF20-0BA1**

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	**111.0**	**606.0**	**200.0**	**385**	**59.3**	**1,750**	**1,211**	**400.0**	**5,000**	**606.0**	**200**	**0.939**	**0.890**	**85.0**
Y	BLM/SLM 400V	93.0	592.0	198.0	330	51.0	1,500	1,184	396.0	5,000	592.0	198	0.935	0.870	85.0
	ALM/BLM/SLM 480V	126.0	602.0	200.0	445	67.3	2,000	1,203	400.0	5,000	602.0	200	0.943	0.870	89.0

Mechanical data

Motor type	Squirrel cage asynchronous 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 B3 (IM B6, IM B7, IM B8, IM V6)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard
Shaft end	Plain shaft
Encoder system	Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm

Physical constants

Thermal time constant	28 min
Moment of inertia	6,520 kgcm²
Weight (approx.)	410 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	right
Signal connection	DE
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	0.7 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