SIEMENS

Data sheet for SIMOTICS M-1PH8



Figure similar

Article No. : **1PH8224-1AL10-2EA1**

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	**149.0**	**491.0**	**270.0**	**395**	**97.2**	**2,900**	**1,170**	**600.0**	**4,500**	**491.0**	**270**	**0.957**	**0.850**	**115.0**
Y	BLM/SLM 400V	142.0	542.0	295.0	340	83.9	2,500	1,170	600.0	4,500	542.0	295	0.958	0.860	113.0
	ALM/BLM/SLM 480V	85.0	239.0	168.0	460	113.6	3,400	1,170	600.0	4,500	239.0	168	0.934	0.680	115.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	225
Cooling	Forced ventilation NDE -> DE
Vibration severity grade	A
Shaft and flange accuracy	N
Degree of protection	IP55
Design acc. to Code I	IM B3 (IM B6, IM B7, IM B8, IM V6)
Temperature monitoring	KTY84 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Increased cantilever forces
Shaft end	Feather key with half key balancing
Encoder system	Without encoder

Physical constants

Thermal time constant	49 min
Moment of inertia	14,800 kgcm²
Weight (approx.)	610 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	right
Signal connection	DE
Terminal box designation	1XB7700-P02

Cooling data and sound pressure level

Airflow, min.	0.31 m³/s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	73 dB [1]
Air discharge	axial
Pressure drop	650 Pa

External fan

Max. power consumption

1 AC 200 ... 277 V (±10%) 50/60 Hz ±10%	2.0 ... 2.3 A

[1] at a rated frequency of 2 kHz and a speed range of up to 3500 rpm