SIEMENS

Data sheet for SIMOTICS M-1PH8



Figure similar

Article No. : 1PH8228-1DF15-1ED1

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	**179.0**	**977.0**	**330.0**	**395**	**58.7**	**1,750**	**2,450**	**750.0**	**4,500**	**977.0**	**330**	**0.961**	**0.820**	**170.0**
Y	BLM/SLM 400V	160.0	1,019.0	340.0	340	50.4	1,500	2,450	750.0	4,500	1,019.0	340	0.959	0.830	170.0
	ALM/BLM/SLM 480V	196.0	936.0	325.0	450	67.1	2,000	2,450	750.0	4,500	36.0	325	0.962	0.810	169.0

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 V15 with A550 flange
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Increased cantilever forces
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	55 min
Moment of inertia	23,300 kgcm²
Weight (approx.)	870 kg

Connection

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

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