SIEMENS



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : **1PH8137-1DD02-0CE1**

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]
Y	**ALM 400V**	**19.5**	**162.0**	**43.0**	**350**	**39.9**	**1,150**	**405**	**108.0**	**8,000**	**176.0**	**45**	**0.891**	**0.880**	**16.1**
	BLM/SLM 400V	17.0	162.0	43.0	307	34.8	1,000	405	108.0	8,000	176.0	45	0.881	0.880	15.1
	ALM 480V	24.0	153.0	41.0	447	51.5	1,500	405	108.0	8,000	176.0	45	0.890	0.860	15.9
	BLM/SLM 480V	22.0	156.0	42.0	404	46.4	1,350	405	108.0	8,000	176.0	45	0.902	0.860	15.9

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	132
Cooling	Forced ventilation DE -> NDE
Vibration severity grade	S/A
Shaft and flange accuracy	R
Degree of protection	IP55
Design acc. to Code I	IM B5 (IM V1, IM V3)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard with fixed bearing
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	30 min
Moment of inertia	1,090 kgcm²
Weight (approx.)	141 kg

Connection

Type of electrical connection	Power connector
Position of the connection	Power connector, top
Power connection	right
Signal connection	DE

Cooling data and sound pressure level

Airflow, min.	0.09 m³/s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	70 dB [1)]
Air discharge	axial
Pressure drop	140 Pa

External fan

Max. power consumption

3 AC 400 V / 50 Hz (±10%)	0.10 A
3 AC 400 V / 60 Hz (±10%)	0.12 A
3 AC 480 V / 60 Hz (±10%)	0.12 A

[1)] at a rated frequency of 4 kHz and a speed range of up to 5000 rpm

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