SIEMENS

Data sheet for SIMOTICS M-1PH8



Figure similar

Article No. : 1PH8184-1DB00-2BA1

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**	**20.5**	**392.0**	**49.0**	**335**	**17.4**	**500**	**925**	**124.0**	**5,000**	**392.0**	**49**	**0.861**	**0.840**	**23.0**
	BLM/SLM 400V	16.3	389.0	49.0	271	14.1	400	925	124.0	5,000	389.0	49	0.834	0.850	23.0
	ALM 480V	29.0	396.0	49.0	475	24.0	700	925	124.0	5,000	389.0	49	0.895	0.810	26.0
	BLM/SLM 480V	25.0	398.0	49.0	410	20.7	600	925	124.0	5,000	398.0	49	0.882	0.810	26.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	180
Cooling	Forced ventilation DE -> NDE
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	Feather key with half key balancing
Encoder system	Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm

Physical constants

Thermal time constant	22 min
Moment of inertia	4,890 kgcm²
Weight (approx.)	350 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

Airflow, min.	0.17 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	550 Pa

External fan

Max. power consumption

1 AC 200 ... 277 V (±10%) 50/60 Hz ±10%	1.1 ... 1.3 A

[1] at a rated frequency of 2 kHz and a speed range of up to 5000 rpm