SIEMENS



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : **1PH8087-1DF00-1BB1**

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**	**4.3**	**23.5**	**10.0**	**396**	**61.4**	**1,750**	**49**	**20.0**	**10,000**	**27.0**	**11**	**0.838**	**0.780**	**5.3**
	BLM/SLM 400V	3.7	23.6	10.0	336	53.2	1,500	49	20.0	10,000	27.0	11	0.817	0.810	4.9
	ALM 480V	5.3	23.0	10.0	480	76.3	2,200	49	20.0	10,000	27.0	11	0.870	0.780	4.9
	BLM/SLM 480V	4.9	23.4	10.0	435	69.9	2,000	49	20.0	10,000	27.0	11	0.864	0.800	4.9

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	80
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 V5, IM V6)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard with fixed bearing
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	10 min
Moment of inertia	89 kgcm²
Weight (approx.)	39 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	left
Signal connection	DE
Terminal box designation	gk803

Cooling data and sound pressure level

Airflow, min.	0.02 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	95 Pa

External fan

Max. power consumption

1 AC 230 V / 50 Hz (±10%)	0.20 A
1 AC 230 V / 60 Hz (±10%)	0.16 A
1 AC 265 V / 60 Hz (±10%)	0.19 A

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

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