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Data sheet for SIMOTICS M-1PH8

Figure similar

MLFB-Ordering data **1PH8103-1DM02-0CE1**

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]
	ALM 400V	**9.3**	**27.0**	**25.7**	**326**	**112.1**	**3300**	**100**	**93.0**	**9000.0**	**38.0**	**31**	**0.900**	**0.78**	**12.2**
Y	BLM/SLM 400V	8.4	27.0	25.7	297	102.1	3000	100	93.0	9000.0	38.0	31	0.900	0.78	12.2
	ALM/BLM/SLM 480V	10.0	27.0	25.4	355	122.1	3600	100	93.0	9000.0	38.0	31	0.910	0.77	12.3

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	100
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 extension	Plain shaft
Encoder system	Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm

Connection

Type of electrical connection	Power connector
Terminal box position	Power connector, top
Power connection	right
Signal connection	DE
Terminal box designation	gk813

Physical constants

Thermal time constant	20 min
Moment of inertia	0.01720 kgm²
Weight (approx.)	51 kg

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Figure similar

Cooling data and sound pressure level

Airflow, min.	0.04 m³/s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	70 dB *
Air discharge	axial
Pressure drop	110 Pa

* at a rated frequency of 4 kHz and a speed range of up to 5000 rpm