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Data sheet for SIMOTICS M-1PH8

Figure similar

MLFB-Ordering data **1PH8107-1DD02-0BA1**

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	**7.2**	**60.0**	**17.5**	**348**	**40.6**	**1150**	**135**	**40.0**	**9000.0**	**63.0**	**25**	**0.852**	**0.82**	**8.2**
Y	BLM/SLM 400V	6.3	60.0	17.5	307	35.5	1000	135	40.0	9000.0	63.0	25	0.834	0.82	8.2
	ALM/BLM/SLM 480V	8.0	57.0	17.0	400	47.1	1350	135	40.0	9000.0	63.0	25	0.867	0.80	8.2

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	100
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 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	Terminal box
Terminal box position	NDE top
Power connection	right
Signal connection	DE
Terminal box designation	gk813

Physical constants

Thermal time constant	20 min
Moment of inertia	0.02890 kgm²
Weight (approx.)	73 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