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Data sheet for SIMOTICS M-1PH8

Figure similar

MLFB-Ordering data **1PH8224-1DC10-0BA1**

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	**57.0**	**681.0**	**126.0**	**350**	**27.1**	**800**	**1760**	**285.0**	**4500.0**	**681.0**	**126**	**0.934**	**0.80**	**67.0**
Y	BLM/SLM 400V	55.0	750.0	136.0	310	23.8	700	1760	285.0	4500.0	750.0	136	0.925	0.82	67.0
	ALM/BLM/SLM 480V	71.0	678.0	126.0	425	33.8	1000	1760	185.0	4500.0	678.0	126	0.943	0.81	64.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	225
Cooling	Forced ventilation NDE -> DE
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 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	1XB7322-P05

Physical constants

Thermal time constant	49 min
Moment of inertia	1.48000 kgm²
Weight (approx.)	610 kg

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Figure similar

Cooling data and sound pressure level

Airflow, min.	0.31 m³/s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	73 dB *
Air discharge	axial
Pressure drop	650 Pa

* at a rated frequency of 2 kHz and a speed range of up to 3500 rpm