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Data sheet for SIMOTICS M-1PH8

Figure similar

MLFB-Ordering data **1PH8135-1FF20-0BE1**

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	**25.5**	**139.0**	**51.0**	**395**	**59.8**	**1750**	**320**	**117.0**	**8000.0**	**172.0**	**58**	**0.914**	**0.85**	**20.1**
Y	BLM/SLM 400V	22.0	140.0	51.0	342	51.5	1500	320	117.0	8000.0	172.0	58	0.901	0.85	20.3
	ALM/BLM/SLM 480V	29.0	138.0	52.0	448	68.2	2000	320	117.0	8000.0	172.0	58	0.931	0.85	19.9

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	132
Cooling	Water cooling
Vibration severity grade	R/A
Shaft and flange accuracy	R
Degree of protection	IP65
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 extension	Plain shaft
Encoder system	Absolut encoder 22 bit Singleturn + 12 bit Multiturn, 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	gk843

Physical constants

Thermal time constant	12 min
Moment of inertia	0.09400 kgm²
Weight (approx.)	141 kg

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Figure similar

Cooling data and sound pressure level

Flow rate, min.	12 l/min
Sound pressure level LpA(1m) motor rated load, tolerance + 3dB	68 dB *
Pressure drop	0.9 bar
NDE thread connection	0.375 Inches

Cooling water specification

pH value	6 ... 9
Total hardness	1.7 mmol/l
Electrical conductivity	500 µS/cm
Chloride ions	40 mg/l
Sulfate ions	50 mg/l
Nitrate ions	50 mg/l
Dissolved substances	340 mg/l
Maximum particle size	100 µm
Antifreeze/corrosion protection	20 ... 30 %

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