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Data sheet for SIMOTICS M-1PH8

Figure similar

MLFB-Ordering data **1PH8135-1SS00-0LA1**

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	24.5	117.0	51.0	372	68.0	2000	300	132.0	10000.0	157.0	62	0.917	0.85	20.9
	BLM/SLM 400V	18.5	118.0	51.0	283	51.3	1500	300	132.0	10000.0	157.0	62	0.901	0.85	21.1
	ALM/BLM/SLM 480V	30.5	117.0	50.0	460	84.6	2500	300	132.0	10000.0	157.0	62	0.949	0.85	20.8
Δ	ALM 400V	24.5	47.0	52.0	425	167.5	5000	131	145.0	10000.0	94.0	78	0.939	0.81	22.8
	BLM/SLM 400V	18.5	44.0	51.0	364	134.0	4000	131	145.0	10000.0	94.0	78	0.912	0.76	23.3
	ALM/BLM/SLM 480V	30.5	49.0	50.0	460	201.0	6000	131	145.0	10000.0	94.0	78	0.941	0.86	20.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	132
Cooling	Forced ventilation DE -> NDE
Vibration severity grade	SPECIAL/B
Shaft and flange accuracy	SPECIAL
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	Performance
Shaft extension	Plain shaft
Encoder system	Incremental encoder 19 bit without commutation position (encoder IN19DQ)

Connection

Type of electrical connection	Terminal box
Terminal box position	NDE top
Power connection	right
Signal connection	DE
Terminal box designation	gk846

Physical constants

Thermal time constant	30 min
Moment of inertia	0.09400 kgm²
Weight (approx.)	125 kg

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Figure similar

Cooling data and sound pressure level

Airflow, min.	0.09 m³/s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	70 dB *
Air discharge	axial
Pressure drop	140 Pa

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