



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8186-1HL30-2EA1

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	$\cos \phi$	I_{μ} [A]
Y	ALM 400V	150.0	494.0	270.0	385	97.4	2,900	920	480.0	5,000	494.0	270	0.955	0.870	105.0
	BLM/SLM 400V	130.0	497.0	270.0	335	84.1	2,500	920	480.0	5,000	497.0	270	0.954	0.870	105.0
	ALM/BLM/SLM 480V	130.0	365.0	210.0	455	113.9	3,400	920	480.0	5,000	365.0	210	0.954	0.820	108.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	180
Cooling	Open circuit cooling DE-> NDE
Vibration severity grade	A
Shaft and flange accuracy	N
Degree of protection	IP23
Design acc. to Code I	IM B3 (IM B6, IM B7, IM B8, IM V6)
Temperature monitoring	KTY84 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Increased cantilever forces
Shaft end	Feather key with half key balancing
Encoder system	Incremental encoder HTL 1024 S/R, max. encoder speed = 9000 rpm

¹⁾ at a rated frequency of 2 kHz and a speed range of up to 3000 rpm

Physical constants

Thermal time constant	29 min
Moment of inertia	6,520 kgcm ²
Weight (approx.)	422 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	right
Signal connection	DE
Terminal box designation	1XB7422-P06

Cooling data and sound pressure level

Airflow, min.	0.21 m ³ /s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	73 dB ¹⁾
Air discharge	axial
Pressure drop	450 Pa

External fan

Max. power consumption

1 AC 200 ... 277 V (±10%) 50/60 Hz ±10%	1.1 ... 1.3 A
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