



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8286-1DF10-1AV1

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]
Δ	ALM 400V	270.0	1,474.0	460.0	400	58.7	1,750	4,500	1,360.0	3,300	1,474.0	460	0.966	0.880	183.0
	BLM/SLM 400V	250.0	1,592.0	490.0	345	50.4	1,500	4,500	1,360.0	3,300	1,592.0	490	0.965	0.890	182.0
	ALM/BLM/SLM 480V	310.0	1,481.0	460.0	455	67.0	2,000	4,500	1,360.0	3,300	1,481.0	460	0.967	0.880	182.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	280
Cooling	Forced ventilation NDE -> DE
Vibration severity grade	A
Shaft and flange accuracy	N
Degree of protection	IP55
Design acc. to Code I	IM B3 (IM V6)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard
Shaft end	Feather key with full key balancing
Encoder system	Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm

External fan

Max. power consumption

3 AC 380 ... 480 V (-5% / +10%) 50/60 Hz ±10%	0.75 ... 0.90 A
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¹⁾ at a rated frequency of 2 kHz and a speed range of up to 3300 rpm

Physical constants

Thermal time constant	50 min
Moment of inertia	52,000 kgcm ²
Weight (approx.)	1,400 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE left
Power connection	below
Signal connection	DE
Terminal box designation	1XB7700-P02

Cooling data and sound pressure level

Airflow, min.	0.42 m ³ /s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	74 dB ¹⁾
Air discharge	radial
Pressure drop	600 Pa