

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8284-1MC10-2BV1



Figure similar

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	125.0	1,492.0	235.0	400	27.0	800	4,250	660.0	3,300	1,492.0	235	0.952	0.810	124.0
Δ BLM/SLM 400V	110.0	1,501.0	240.0	330	23.7	700	4,250	660.0	3,300	1,501.0	240	0.947	0.850	106.0
Δ ALM/BLM/SLM 480V	150.0	1,433.0	230.0	455	33.7	1,000	4,250	660.0	3,300	1,433.0	230	0.957	0.860	101.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	280
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 V6)
Temperature monitoring	KTY84 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard
Shaft extension	Feather key with half key balancing
Encoder system	Incremental encoder sin/cos 1Vpp 2048 S/R with C- and D-Spur, max. encoder speed = 12000 rpm

Physical constants

Thermal time constant	47 min
Moment of inertia	42,000 kgcm ²
Weight (approx.)	1,200 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

External fan

Max. power consumption

3 AC 380 ... 480 V (-5% / +10%) 50/60 Hz \pm 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