



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8228-1DF40-2AB1-Z
G14+L76

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	I _μ [A]
Y	ALM 400V	265.0	1,446.0	460.0	390	59.0	1,750	2,450	760.0	4,500	1,446.0	460	0.956	0.890	162.0
	BLM/SLM 400V	230.0	1,464.0	465.0	340	50.6	1,500	2,450	760.0	4,500	1,464.0	465	0.953	0.880	166.0
	ALM/BLM/SLM 480V	288.0	1,375.0	440.0	450	67.3	2,000	2,450	760.0	4,500	1,375.0	440	0.959	0.880	166.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	225
Cooling	Open circuit cooling NDE-> DE
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	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard
Shaft end	Feather key with half key balancing
Encoder system	Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm

Physical constants

Thermal time constant	25 min
Moment of inertia	23,300 kgcm ²
Weight (approx.)	870 kg

Connection

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

Cooling data and sound pressure level

Airflow, min.	0.33 m³/s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	73 dB ¹⁾
Air discharge	axial
Pressure drop	600 Pa

External fan

Max. power consumption

3 AC 380 ... 480 V (-5% / +10%)
50/60 Hz ±10% 0.75 ... 0.90 A

Special design

G14 with air filter
L76 EC fan 400 V 3 AC 50/60 Hz

¹⁾ at a rated frequency of 2 kHz and a speed range of up to 2000 rpm