

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8226-2MF10-2BA1-Z
K09+L12+P00



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 φ	I _μ [A]
Y	ALM 400V	156.0	851.0	295.0	335	117.0	1,750	3,200	1,120.0	3,500	944.0	320	0.966	0.000	0.0
	BLM/SLM 400V	134.0	853.0	295.0	288	100.0	1,500	3,200	1,120.0	3,500	944.0	320	0.967	0.000	0.0
	ALM/BLM/SLM 480V	157.0	750.0	260.0	378	133.0	2,000	3,200	1,120.0	3,500	944.0	320	0.964	0.000	0.0

Mechanical data

Motor type	Permanent-magnet synchronous motor
Shaft height	225
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 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	Standard
Shaft end	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	26 min
Moment of inertia	16,600 kgcm ²
Weight (approx.)	700 kg

Connection

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

Cooling data and sound pressure level

Airflow, min.	0.31 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	650 Pa

External fan

Max. power consumption

1 AC 200 ... 277 V (±10%) 50/60 Hz ±10% 2.0 ... 2.3 A

Special design

K09 Terminal box NDE right
L12 Condensate drain hole
P00 Undrilled cable entry plate

¹⁾ at a rated frequency of 2 kHz and a speed range of up to 3500 rpm