



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8228-1JL00-2FA2-Z
A12+A72+K09+K45+K85

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	215.0	708.0	390.0	395	97.1	2,900	1,750	880.0	4,500	880.0	390	0.961	0.84	183.0
	BLM/SLM 400V	205.0	783.0	420.0	340	83.8	2,500	1,750	880.0	4,500	783.0	420	0.963	0.86	181.0
	ALM/BLM/SLM 480V	95.0	267.0	225.0	460	113.5	3,400	1,750	880.0	4,500	267.0	225	0.922	0.57	183.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	225
Cooling	Forced ventilation DE -> NDE
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	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Increased cantilever forces
Shaft extension	Feather key with half key balancing
Encoder system	Incremental encoder HTL 2048 S/R, max. encoder speed = 4600 rpm

Physical constants

Thermal time constant	55 min
Moment of inertia	23,300 kgcm ²
Weight (approx.)	870 kg

Connection

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

Cooling data and sound pressure level

Airflow, min.	0.31 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	650 Pa

Special design

- A12 Additional PTC thermistor chain for alarm and tripping
- A72 Two PT100 resistance thermometers to monitor roller bearing temperature (DE and NDE)
- K09 Terminal box NDE right
- K45 Anti-condensation heater 230 V
- K85 Terminal box rotated through +180 degrees

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