



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8286-1DC15-0BU1-Z
A72+G14+K84+P00+X15

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]
Δ	ALM 400V	155.0	1,850.0	285.0	385	27.0	800	5,250	800.0	3,300	1,850.0	285	0.955	0.850	133.0
	BLM/SLM 400V	138.0	1,883.0	295.0	325	23.7	700	5,250	800.0	3,300	1,883.0	295	0.949	0.870	121.0
	ALM/BLM/SLM 480V	185.0	1,767.0	280.0	460	33.7	1,000	5,250	800.0	3,300	1,767.0	280	0.960	0.860	122.0

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 V15 with A660 flange
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Pure white RAL 9010
Type of the bearing	Standard
Shaft end	Plain shaft
Encoder system	Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 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 right
Power connection	NDE
Signal connection	below
Terminal box designation	1XB7700-P02

Cooling data and sound pressure level

Airflow, min.	0.42 m³/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 ±10%

0.75 ... 0.90 A

Special design

- A72 Two PT100 resistance thermometers to monitor roller bearing temperature (DE and NDE)
- G14 with air filter
- K84 Terminal box rotated through -90 degrees
- P00 Undrilled cable entry plate
- X15 Paint finish: Pure white RAL 9010

¹⁾ at a rated frequency of 2 kHz and a speed range of up to 3300 rpm