



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8286-1HF10-1FU1-Z
K84+L02+P00+Y84

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	270.0	1,474.0	460.0	400	58.7	1,750	4,500	1,360.0	3,300	1,474.0	460	0.966	0.88	183.0
	BLM/SLM 400V	250.0	1,592.0	490.0	345	50.4	1,500	4,500	1,360.0	3,300	1,592.0	490	0.965	0.89	182.0
	ALM/BLM/SLM 480V	310.0	1,481.0	460.0	455	67.0	2,000	4,500	1,360.0	3,300	1,481.0	460	0.967	0.88	182.0

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	Increased cantilever forces
Shaft extension	Feather key with full key balancing
Encoder system	Incremental encoder HTL 1024 S/R, max. encoder speed = 9000 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

Special design

K84	Terminal box rotated through -90 degrees
L02	Screws locked with Loctite and a stronger fan version
P00	Undrilled cable entry plate
Y84	Customer specifications on rating plate:

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