



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : **1PH8131-1TS03-0MC2-Z**
A12+V90+X01

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	14.6	70.0	39.0	302	68.2	2,000	200	111.0		94.0	47	0.908	0.840	15.9
	BLM/SLM 400V	11.0	70.0	39.0	227	51.5	1,500	200	111.0		94.0	47	0.884	0.850	15.1
	ALM/BLM/SLM 480V	18.0	69.0	38.0	372	84.8	2,500	200	111.0		94.0	47	0.922	0.840	15.6
Δ	ALM 400V	14.6	28.0	40.0	360	167.5	5,000	80	114.0		55.0	56	0.897	0.780	18.5
	BLM/SLM 400V	11.0	28.0	40.0	285	134.1	4,000	80	114.0		55.0	56	0.893	0.750	18.1
	ALM/BLM/SLM 480V	18.0	29.0	35.0	453	200.8	6,000	80	114.0		55.0	56	0.908	0.750	20.2

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	132
Cooling	Forced ventilation DE -> NDE
Vibration severity grade	SPECIAL/B
Shaft and flange accuracy	SPECIAL
Degree of protection	IP55
Design acc. to Code I	IM B35 (IM V15, IM V35)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Jet black, matt RAL 9005
Type of the bearing	High Performance
Shaft end	Plain shaft
Encoder system	Incremental encoder sin/cos 1 Vpp 512 pulses/rev without C and D track (encoder IN512S/R)

Physical constants

Thermal time constant	30 min
Moment of inertia	590 kgcm ²
Weight (approx.)	89 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	NDE
Signal connection	left
Terminal box designation	gk846

Cooling data and sound pressure level

Airflow, min.	0.09 m ³ /s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	70 dB ¹⁾
Air discharge	axial
Pressure drop	140 Pa

External fan

Max. power consumption

3 AC 400 V / 50 Hz (±10%) 0.21 A

3 AC 400 V / 60 Hz (±10%) 0.19 A

3 AC 480 V / 60 Hz (±10%) 0.23 A

Special design

A12 Additional PTC thermistor chain for alarm and tripping

V90 1PH7-compatible shaft end 42 mm x 110 mm

X01 Paint finish: Jet black, matt RAL 9005

¹⁾ at a rated frequency of 4 kHz and a speed range of up to 5000 rpm