

Data sheet for SIMOTICS M-1PH8

Article No. : **1PH8131-1JD03-2CC2-Z**
V90+Y84



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	9.0	75.0	20.0	360	39.8	1,150	170	44.0	4,600	84.0	21	0.880	0.850	8.1
	BLM/SLM 400V	7.9	75.0	20.0	316	34.8	1,000	170	44.0	4,600	84.0	21	0.870	0.860	8.0
	ALM 480V	11.7	74.0	20.0	460	51.5	1,500	170	44.0	4,600	84.0	21	0.910	0.850	8.0
	BLM/SLM 480V	10.6	75.0	20.0	416	46.5	1,350	170	44.0	4,600	84.0	21	0.900	0.860	7.9

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	132
Cooling	Forced ventilation DE -> NDE
Vibration severity grade	S/A
Shaft and flange accuracy	R
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	Standard (Anthracite RAL 7016)
Type of the bearing	Standard with fixed bearing
Shaft end	Feather key with half key balancing
Encoder system	Incremental encoder HTL 2048 S/R, max. encoder speed = 4600 rpm

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	gk833

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%)	0.10 A
3 AC 400 V / 60 Hz (±10%)	0.12 A
3 AC 480 V / 60 Hz (±10%)	0.12 A

Special design

V90	1PH7-compatible shaft end 42 mm x 110 mm
Y84	Customer specifications on rating plate:

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