



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8137-1HF13-2GB1-Z
M39+V90

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	l _μ [A]
Y	ALM 400V	25.0	136.0	56.0	353	59.6	1,750	380	151.0	8,000	172.0	68	0.907	0.84	23.1
	BLM/SLM 400V	22.0	140.0	56.0	308	51.3	1,500	380	151.0	8,000	172.0	68	0.904	0.84	24.2
	ALM/BLM/SLM 480V	28.0	134.0	55.0	401	67.9	2,000	380	151.0	8,000	172.0	68	0.931	0.84	23.1

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	132
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 B35 (IM V15, IM V35)
Temperature monitoring	KTY84 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard
Shaft extension	Feather key with half key balancing
Encoder system	Incremental encoder HTL 1024 S/R, max. encoder speed = 9000 rpm

Physical constants

Thermal time constant	30 min
Moment of inertia	1,090 kgcm ²
Weight (approx.)	141 kg

Connection

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

Special design

M39	Version for Zone 22 hazardous areas according to EN 50281/IEC 61241
V90	1PH7-compatible shaft extension 42 mm x 110 mm

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