

Data sheet for SIMOTICS M-1PH8

Article No. : **1PH8137-1MG12-2GA1-Z**
G14+K18+K23+V90



Figure similar

Client order no. :

Item no. :

Order no. :

Consignment no. :

Offer no. :

Project :

Remarks :

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	29.0	120.0	56.0	400	77.9	2,300	340	152.0	8,000.0	176.0	73	0.929	0.86	21.9
	BLM/SLM 400V	28.0	134.0	60.0	350	68.1	2,000	340	152.0	8,000.0	176.0	73	0.924	0.87	21.5
	ALM/BLM/SLM 480V	30.0	108.0	52.0	460	89.4	2,650	340	152.0	8,000.0	176.0	73	0.941	0.83	22.4

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 B5 (IM V1, IM V3)
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 sin/cos 1Vpp 2048 S/R with C- and D-Spur, max. encoder speed = 12000 rpm

Physical constants

Thermal time constant	30 min
Moment of inertia	0.109 kgm ²
Weight (approx.)	141 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	right
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

G14	with air filter
K18	Radial shaft sealing ring DE
K23	Special paint finish worldwide
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