



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8083-1FG12-2BA1-Z
K24+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]
Y	ALM 400V	4.1	17.0	11.3	332	80.0	2,300	45	24.0	10,000	21.0	12	0.852	0.780	5.7
	BLM/SLM 400V	3.7	18.0	11.6	293	70.2	2,000	45	24.0	10,000	21.0	12	0.832	0.790	5.7
	ALM/BLM/SLM 480V	4.6	17.0	11.2	376	91.6	2,650	45	24.0	10,000	21.0	12	0.862	0.780	5.7

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	80
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	Pt1000 temperature sensor in the stator winding
Color	Primer (pale green)
Type of the bearing	Standard with fixed bearing
Shaft end	Feather key with half key balancing
Encoder system	Absolut encoder 22 bit Singleturn + 12 bit Multiturn, max. encoder speed = 12000 rpm

Physical constants

Thermal time constant	10 min
Moment of inertia	64 kgcm ²
Weight (approx.)	32 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	right
Signal connection	DE
Terminal box designation	gk803

Cooling data and sound pressure level

Airflow, min.	0.02 m³/s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	70 dB ¹⁾
Air discharge	axial
Pressure drop	95 Pa

External fan

Max. power consumption

1 AC 230 V / 50 Hz (±10%)	0.33 A
1 AC 230 V / 60 Hz (±10%)	0.25 A
1 AC 265 V / 60 Hz (±10%)	0.32 A

Special design

K24	Primer
Y84	Customer specifications on rating plate:

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