



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8083-1UF20-1LA1

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	4.0	22.0	8.7	416	62.4	1,750	32	13.0	12,000	23.0	9	0.808	0.820	4.0
	BLM/SLM 400V	3.5	22.0	8.9	357	54.5	1,500	32	13.0	12,000	23.0	9	0.784	0.840	3.6
	ALM/BLM/SLM 480V	4.6	22.0	8.7	457	71.0	2,000	32	13.0	12,000	23.0	9	0.839	0.830	3.8

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	80
Cooling	Water cooling
Vibration severity grade	SPECIAL/B
Shaft and flange accuracy	SPECIAL
Degree of protection	IP65
Design acc. to Code I	IM B3 (IM V5, IM V6)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Performance
Shaft end	Feather key with full key balancing
Encoder system	Incremental encoder 20 bit without commutation position (encoder IN20DQ)

Cooling water specification

pH value	6 ... 9
Total hardness	1.7 mmol/l
Electrical conductivity	500 μS/cm
Chloride ions	40 mg/l
Sulfate ions	50 mg/l
Nitrate ions	50 mg/l
Dissolved substances	340 mg/l
Maximum particle size	100 μm
Antifreeze/corrosion protection	20 ... 30 %

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

Physical constants

Thermal time constant	8 min
Moment of inertia	64 kgcm ²
Weight (approx.)	36 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

Flow rate, min.	6 l/min
Sound pressure level L _{pA} (1m) motor rated load, tolerance + 3dB	68 dB ¹⁾
Pressure drop	0.6 bar
NDE thread connection	0.125 Inches