



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8103-1DG02-1BA1

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	7.5	31.0	17.0	382	78.9	2,300	70	38.0	9,000	38.0	19	0.891	0.790	8.1
	BLM/SLM 400V	7.0	33.0	17.5	345	69.0	2,000	70	38.0	9,000	38.0	19	0.877	0.790	8.7
	ALM/BLM/SLM 480V	8.0	29.0	16.0	434	90.4	2,650	70	38.0	9,000	38.0	19	0.913	0.780	8.1

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	100
Cooling	Forced ventilation DE -> NDE
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	Standard (Anthracite RAL 7016)
Type of the bearing	Standard with fixed bearing
Shaft end	Feather key with full key balancing
Encoder system	Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm

External fan

Max. power consumption

3 AC 400 V / 50 Hz (±10%)	0.13 A
3 AC 400 V / 60 Hz (±10%)	0.09 A
3 AC 480 V / 60 Hz (±10%)	0.13 A

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

Physical constants

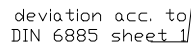
Thermal time constant	20 min
Moment of inertia	172 kgcm ²
Weight (approx.)	51 kg

Connection

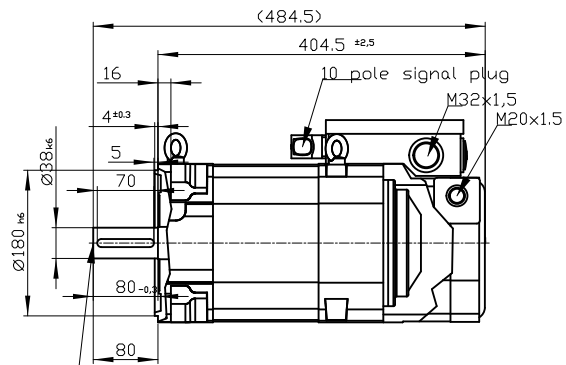
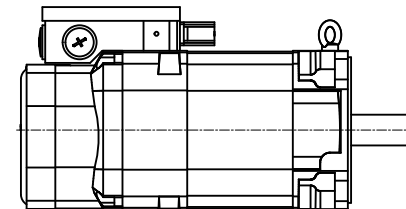
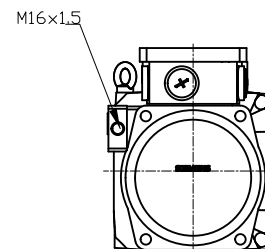
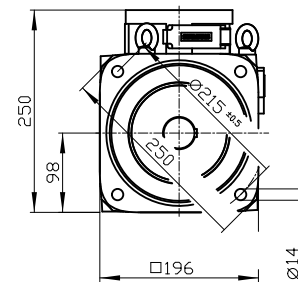
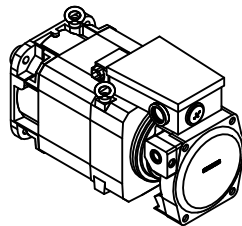
Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	right
Signal connection	DE
Terminal box designation	gk813

Cooling data and sound pressure level

Airflow, min.	0.04 m ³ /s
Sound pressure level L _{pA} (1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	70 dB ¹⁾
Air discharge	axial
Pressure drop	110 Pa



DE - shaft extension
version with featherkey

DIN 332 - DR M12

Type of construction: IM B5 (IM V1, IM V3)		/ Type of protection: IP55	
	—		
	—		
Terminal box	gk813	1PH8103-1DG02-1BA1	
Weight	5l kg		
Unit	mm (in)		
Date	4/12/23		
SIEMENS AG			
not tolerated dimensions: ± 1		DT	