

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8107-1DF12-2GA1

Figure similar

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	10.0	55.0	22.0	380	60.4	1,750	135	54.0	9,000	63.0	25	0.878	0.800	10.9
	BLM/SLM 400V	9.0	57.0	23.5	330	52.2	1,500	135	54.0	9,000	63.0	25	0.869	0.810	10.8
	ALM/BLM/SLM 480V	11.0	53.0	21.5	428	68.6	2,000	135	54.0	9,000	63.0	25	0.901	0.790	10.8

Mechanical data	
Motor type	Squirrel cage asynchronous motor
Shaft height	100
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	Standard (Anthracite RAL 7016)
Type of the bearing	Standard
Shaft end	Feather key with half key balancing
Encoder system	Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm

Physical constants	
Thermal time constant	20 min
Moment of inertia	289 kgcm²
Weight (approx.)	73 kg

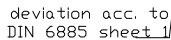
Connection	
Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	right
Signal connection	DE
Terminal box designation	gk813

Cooling data and sound pressure level	
Airflow, min.	0.04 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	110 Pa

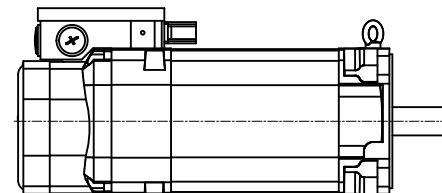
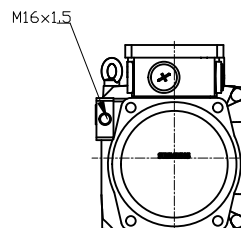
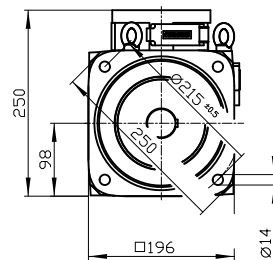
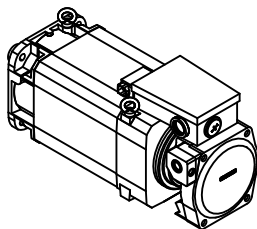
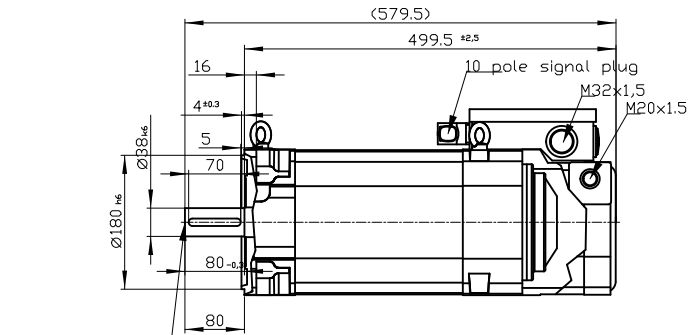
External fan	
Max. power consumption	
3 AC 400 V / 50 Hz (±10%)	0.12 A
3 AC 400 V / 60 Hz (±10%)	0.09 A
3 AC 480 V / 60 Hz (±10%)	0.12 A

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

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DE - shaft extension
version with featherkey



Type of construction: IM B5 (IM V1, IM V3)		/ Type of protection: IP55	
			
Terminal box	gk813	1PH8107-1DF12-2GA1	
Weight	73 kg		
Unit	mm [in]		
Date	4/26/23		
SIEMENS AG			
not toleranced dimensions: ± 1		DT	