

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8107-1DG12-0GA1

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	12.0	50.0	26.0	406	78.6	2,300	120	60.0	9,000	63.0	29	0.909	0.780	13.0
	BLM/SLM 400V	10.5	50.0	26.0	355	68.6	2,000	120	60.0	9,000	63.0	29	0.897	0.780	12.9
	ALM/BLM/SLM 480V	13.0	47.0	24.0	460	90.0	2,650	120	60.0	9,000	63.0	29	0.932	0.770	12.8

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	Plain shaft
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%)	0.12 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

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

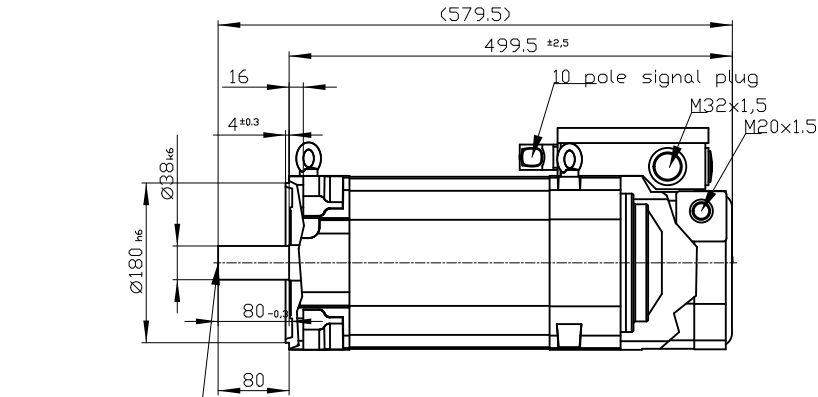
Cooling data and sound pressure level	
Airflow, min.	0.04 m³/s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	70 dB ¹⁾
Air discharge	axial
Pressure drop	110 Pa

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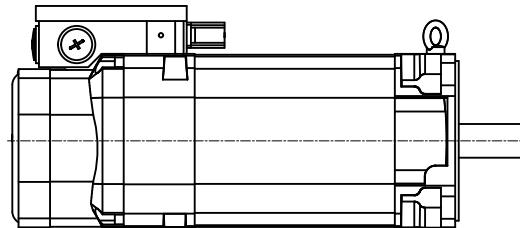
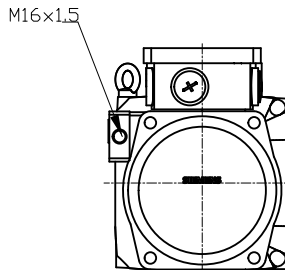
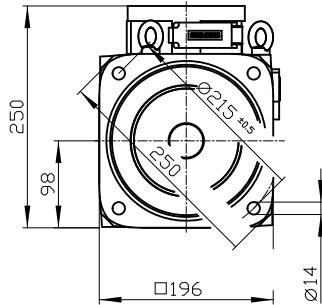
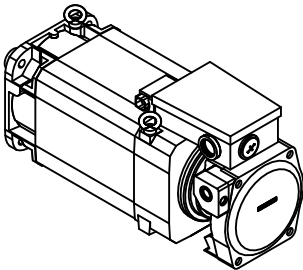
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DIN 332 - DR M12



Type of construction: IM B5 (IM V1, IM V3) / Type of protection: IP55

	Terminal box	gk813	1PH8107-1DG12-0GA1
	Weight	73 kg	
	Unit	mm (in)	
	Date	4/26/23	
SIEMENS AG			
not toleranced dimensions: ± 1			DT