

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8105-1HF12-2GA2

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	8.0	44.0	17.5	400	60.2	1,750	95	38.0	9,000	52.0	20	0.878	0.780	8.8
	BLM/SLM 400V	7.0	45.0	17.5	348	51.9	1,500	95	38.0	9,000	52.0	20	0.867	0.790	8.8
	ALM/BLM/SLM 480V	9.0	43.0	17.0	453	68.5	2,000	95	38.0	9,000	52.0	20	0.911	0.780	8.7

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 HTL 1024 S/R, max. encoder speed = 9000 rpm

Physical constants	
Thermal time constant	20 min
Moment of inertia	252 kgcm²
Weight (approx.)	65 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

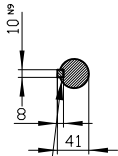
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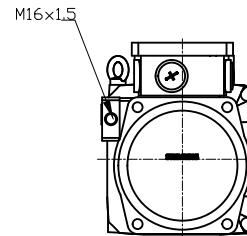
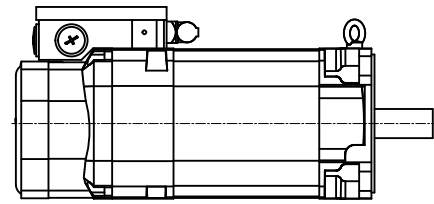
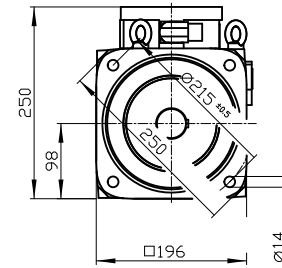
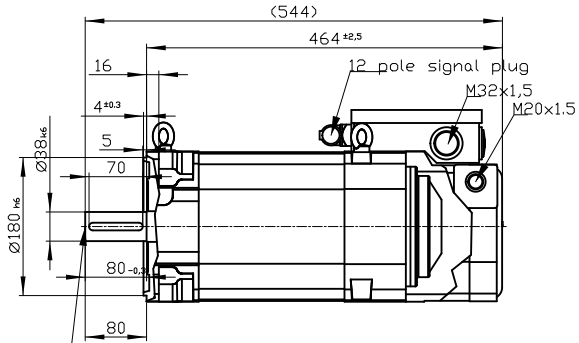
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Cada-drawing do not make any manual changes

DE - shaft extension
version with featherkey



deviation acc. to
DIN 6885 sheet 1

DIN 332 - DR M12



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

		—	
Terminal box		gk813	1PH8105-1HF12-2GA2
Weight		65 kg	
Unit		mm [in]	
Date		4/26/23	
SIEMENS AG			
not toleranced dimensions: ± 1		DT	