



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8107-1DF10-2BA1

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 B3 (IM V5, IM V6)
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 half 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%)	0.12 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 kgcm ²
Weight (approx.)	73 kg

Connection

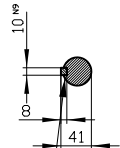
Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	right
Signal connection	DE
Terminal box designation	gk813

Cooling data and sound pressure level

Airflow, min.	0.04 m ³ /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

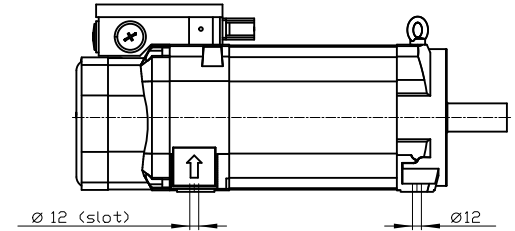
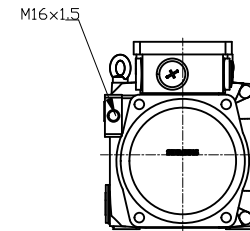
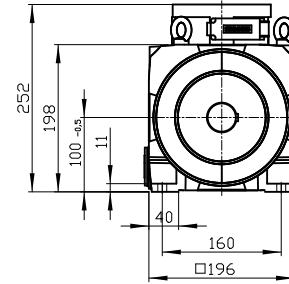
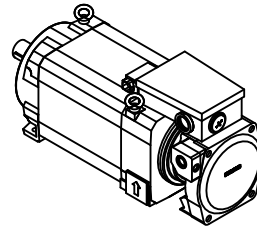
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deviation acc. to
DIN 6885 sheet 1



Technical drawing showing the front view of a motor assembly. Key dimensions and features include:

- Total width: 499.5 ±0.5
- Top mounting flange diameter: Ø38₊₆
- Flange thickness: 5
- Distance from flange face to centerline: 70
- Bottom mounting flange diameter: M12
- Bottom flange thickness: 80 -0.3
- Internal shaft diameter: 24
- Internal bore diameter: 44
- Internal bore length: 43
- Motor body length: 297.5
- Terminal box height: 51
- Terminal box mounting holes: 10 pole signal plug, M32x1.5, M20x1.5



Type of construction IM B3 (IM V5, IM V6)		/ Type of protection IP55	
		—	
		—	
Terminal box	gk813	1PH8107-1DF10-2BA1	
Weight	73 kg		
Unit	mm (in)		
Date	4/13/23		
SIEMENS AG		—	
not toleranced dimensions: ± 1			
		DT	