



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8105-1DF00-1CA1

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 DE -> NDE
Vibration severity grade	S/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 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	252 kgcm²
Weight (approx.)	65 kg

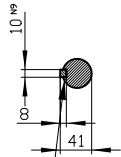
Connection

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

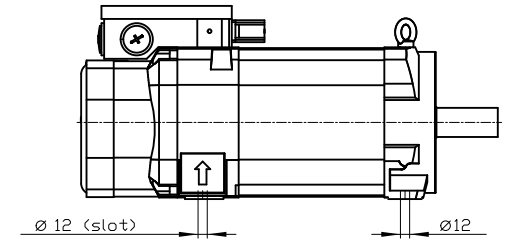
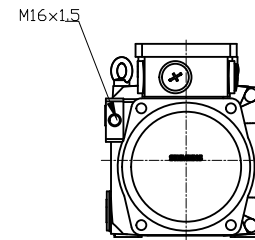
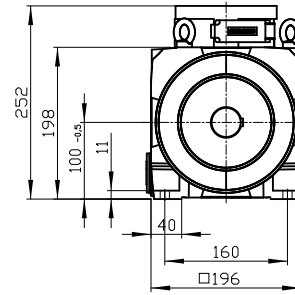
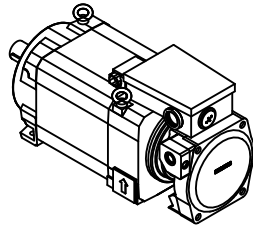
Cooling data and sound pressure level

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

deviation acc. to
DIN 6885 sheet 1



Technical drawing of the front view of a 10-pole signal plug. The drawing shows a cylindrical component with various mounting features. Key dimensions include a total width of 464 ± 0.5 mm, a mounting flange diameter of Ø38 mm, and a mounting hole diameter of Ø12 mm. The drawing also shows a 10-pole signal plug, an M32x1.5 thread, and an M20x1.5 thread. A 51 mm dimension is shown for the distance from the center of the mounting hole to the center of the 10-pole signal plug.



Type of construction IM B3 (IM V5, IM V6)		/ Type of protection: IP55	
	—		
	—		
Terminal box	gk813	1PH8105-1DF00-1CA1	
Weight	65 kg		
Unit	mm (in)		
Date	4/12/23		
SIEMENS AG		—	
not tolerated dimensions: ± 1			
		DT	