



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8101-1MF03-0GB2

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	4.3	23.0	12.5	304	60.8	1,750	60	32.0	9,000	29.0	14	0.852	0.800	6.0
	BLM/SLM 400V	3.7	24.0	12.5	265	52.4	1,500	60	32.0	9,000	29.0	14	0.835	0.800	6.0
	ALM/BLM/SLM 480V	4.7	22.0	12.5	343	69.0	2,000	60	32.0	9,000	29.0	14	0.871	0.790	6.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	100
Cooling	Forced ventilation DE -> NDE
Vibration severity grade	R/A
Shaft and flange accuracy	R
Degree of protection	IP55
Design acc. to Code I	IM B35 (IM V15, IM V35)
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 sin/cos 1Vpp 2048 S/R with C- and D-Spur, 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

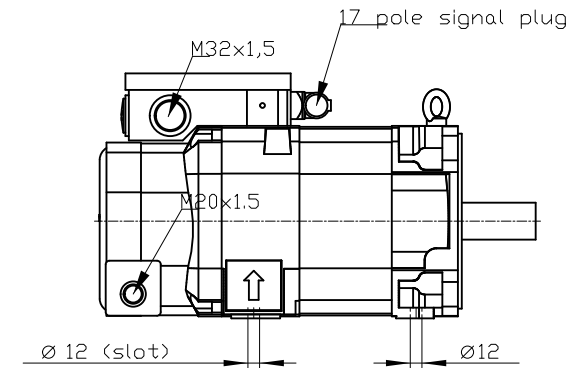
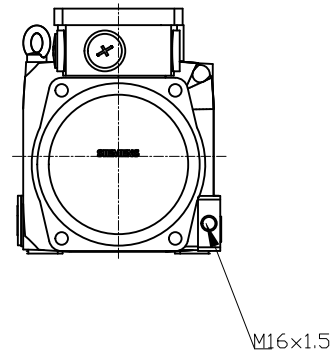
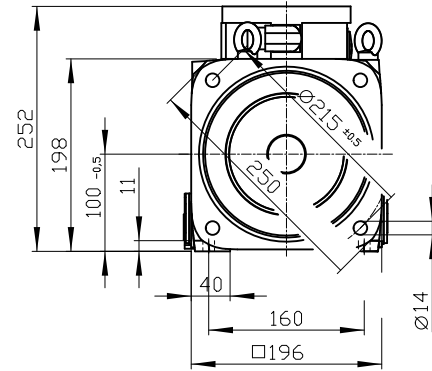
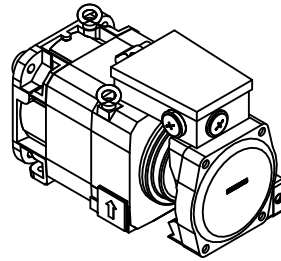
Thermal time constant	20 min
Moment of inertia	138 kgcm ²
Weight (approx.)	42 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	left
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



Type of construction: IM B35 (IM V15, IM V35)		/ Type of protection: IP55	
		-	
Terminal box		gk813	
Weight		42 kg	
Unit		mm [in]	
Date		4/25/23	
SIEMENS AG		1PH8101-1MF03-0GB2	
not toleranced dimensions: ± 1		DT	