

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8107-1SM03-2LA1

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	13.0	38.0	38.0	314	111.7	3,300	170	166.0	12,000	59.0	48	0.900	0.780	12.2
	BLM/SLM 400V	12.0	38.0	38.0	294	101.6	3,000	170	166.0	12,000	59.0	48	0.900	0.760	19.2
	ALM/BLM/SLM 480V	14.0	37.0	37.5	350	121.6	3,600	170	166.0	12,000	59.0	48	0.910	0.770	12.3

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	100
Cooling	Forced ventilation DE -> NDE
Vibration severity grade	SPECIAL/B
Shaft and flange accuracy	SPECIAL
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	Performance
Shaft end	Feather key with half key balancing
Encoder system	Incremental encoder 19 bit without commutation position (encoder IN19DQ)

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

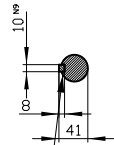
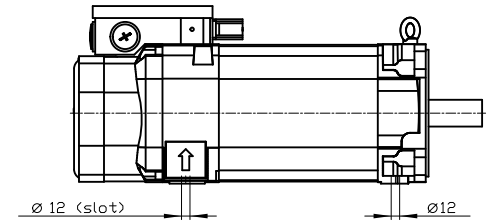
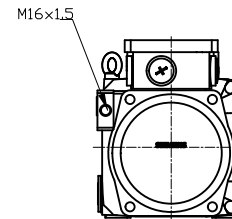
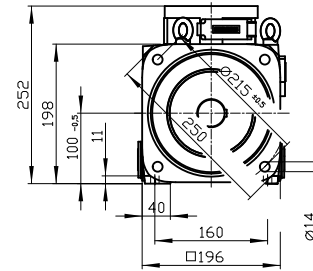
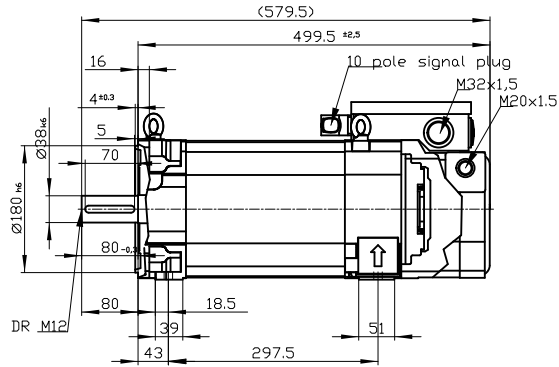
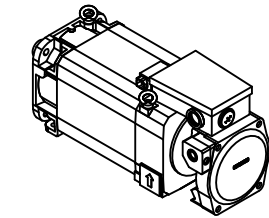
Cooling data and sound pressure level

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

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

DIN 332 - DR M12

Type of construction: IM B35 (IM V15, IM V35)		/ Type of protection: IP55
		
Terminal box	gk813	1PH8107-1SM03-2LA1
Weight	73 kg	
Unit	mm [in]	
Date	4/26/23	
SIEMENS AG		
not tolerated dimensions: ± 1		DT