

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8105-1DS00-0BA1



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	10.0	48.0	23.0	366	68.9	2,000	100	46.0	9,000	55.0	25	0.891	0.800	10.9
	BLM/SLM 400V	7.5	48.0	23.0	285	52.1	1,500	100	46.0	9,000	55.0	25	0.864	0.790	11.5
	ALM/BLM/SLM 480V	12.5	48.0	23.0	451	85.5	2,500	100	46.0	9,000	55.0	25	0.922	0.800	10.9
Δ	ALM 400V	9.3	18.0	24.0	398	167.9	5,000	65	86.0	9,000	36.0	34	0.914	0.710	13.2
	BLM/SLM 400V	7.5	18.0	24.0	308	134.6	4,000	65	86.0	9,000	36.0	35	0.907	0.730	12.7
	ALM/BLM/SLM 480V	11.2	18.0	22.0	460	201.3	6,000	65	86.0	9,000	36.0	35	0.932	0.730	12.7

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 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	Plain shaft
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 kgcm ²
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	gk826

Cooling data and sound pressure level

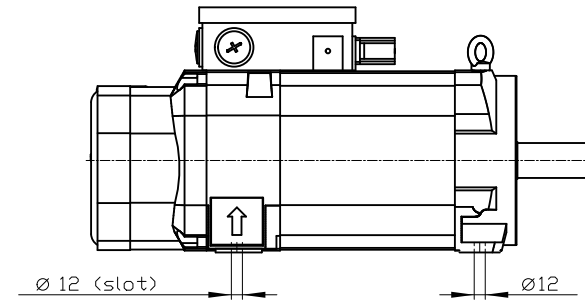
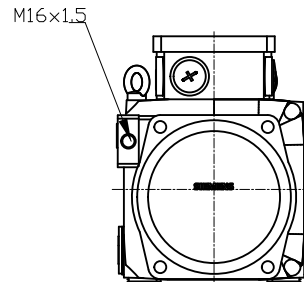
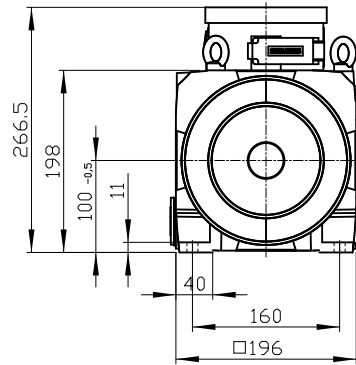
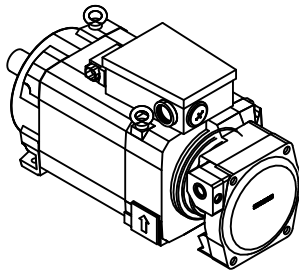
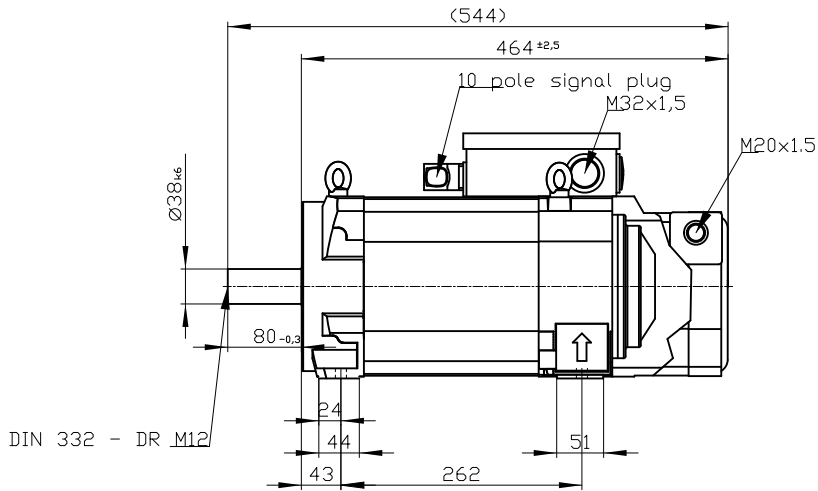
Airflow, min.	0.04 m ³ /s
Sound pressure level L _{pA} (1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	70 dB ¹⁾
Air discharge	axial
Pressure drop	110 Pa

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Type of construction: IM B3 (IM V5, IM V6) / Type of protection: IP55

			
Terminal box		gk826	1PH8105-1DS00-0BA1
Weight		65 kg	
Unit		mm [in]	
Date		4/13/23	
SIEMENS AG			DT
not toleranced dimensions: ± 1			