

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8137-1FG02-1LA1



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	29.0	120.0	56.0	400	77.9	2,300	340	152.0	10,000	176.0	73	0.929	0.860	21.9
	BLM/SLM 400V	28.0	134.0	60.0	350	68.1	2,000	340	152.0	10,000	176.0	73	0.924	0.870	21.5
	ALM/BLM/SLM 480V	30.0	108.0	52.0	460	89.4	2,650	340	152.0	10,000	176.0	73	0.941	0.830	22.4

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	132
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 B5 (IM V1, IM V3)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Performance
Shaft end	Feather key with full key balancing
Encoder system	Absolut encoder 22 bit Singleturn + 12 bit Multiturn, max. encoder speed = 12000 rpm

External fan

Max. power consumption

3 AC 400 V / 50 Hz (±10%)	0.21 A
3 AC 400 V / 60 Hz (±10%)	0.19 A
3 AC 480 V / 60 Hz (±10%)	0.23 A

¹⁾ at a rated frequency of 4 kHz and a speed range of up to 5000 rpm

Physical constants

Thermal time constant	30 min
Moment of inertia	1,090 kgcm ²
Weight (approx.)	141 kg

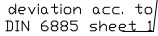
Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	right
Signal connection	DE
Terminal box designation	gk833

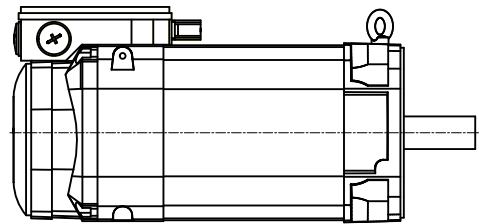
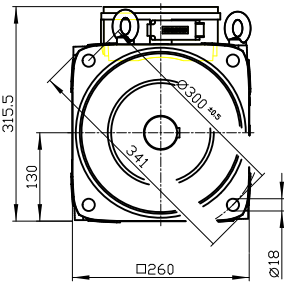
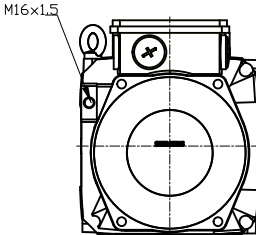
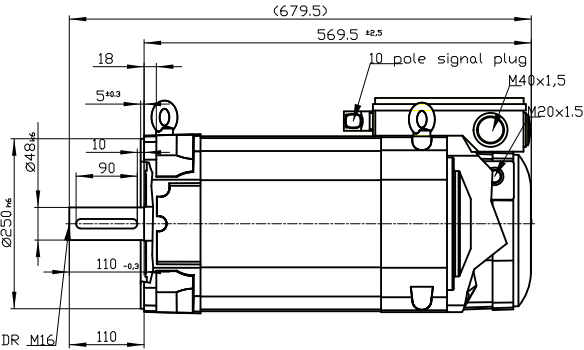
Cooling data and sound pressure level

Airflow, min.	0.09 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	140 Pa

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DIN 332 - DR M16



Type of construction IM B5 (IM V1, IM V3)		/ Type of protection IP55	
			
Terminal box	gl833	1PH8137-1FG02-1LA1	
Weight	141 kg		
Unit	mm [in]		
Date	4/18/23		
SIEMENS AG		-	
not toleranced dimensions: ± 1		DT	