



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8133-1DD12-2BA1

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	13.5	112.0	29.0	361	40.0	1,150	250	65.0	8,000	128.0	32	0.884	0.870	10.7
	BLM/SLM 400V	12.0	115.0	30.0	319	35.0	1,000	250	65.0	8,000	128.0	32	0.871	0.880	10.1
	ALM/BLM/SLM 480V	15.0	106.0	28.0	417	46.5	1,350	250	65.0	8,000	128.0	32	0.904	0.860	10.7

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	132
Cooling	Forced ventilation NDE -> DE
Vibration severity grade	R/A
Shaft and flange accuracy	R
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	Standard with fixed bearing
Shaft end	Feather key with half 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%)	0.16 A
3 AC 480 V / 60 Hz (±10%)	0.17 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	760 kgcm ²
Weight (approx.)	106 kg

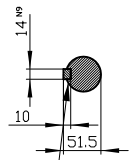
Connection

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

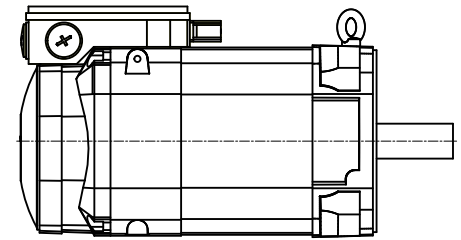
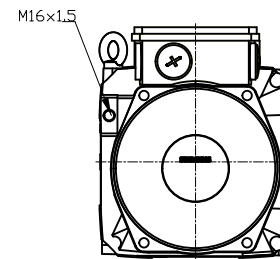
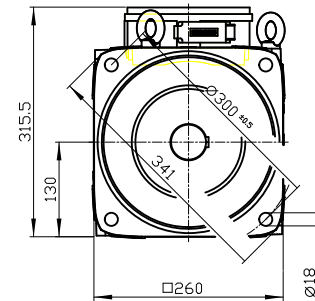
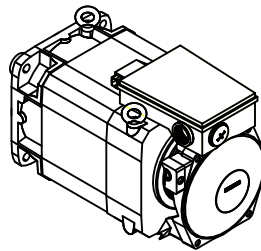
Cooling data and sound pressure level

Airflow, min.	0.09 m ³ /s
Sound pressure level L _{pA} (1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	70 dB ¹⁾
Air discharge	axial
Pressure drop	140 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 a flange on the right side. Key dimensions include a total length of 484.5 ± 2.5, a flange diameter of Ø18 ± 0.16, and a flange thickness of 18. The flange has four mounting holes with a diameter of Ø10 and a center-to-center distance of 90. The main body has a diameter of Ø250 ± 0.16. The flange has a 10-pole signal plug and two mounting holes with diameters of M40x1.5 and M20x1.5. The drawing also shows a 10-pole signal plug on the left side. The bottom left corner is labeled DR M16.



Type of construction: IM B5 (IM V1, IM V3)		/ Type of protection: IP55	
			
Terminal box	gk833	1PH8133-1DD12-2BA1	
Weight	106 kg		
Unit	mm (in)		
Date	5/12/23		
SIEMENS AG		DT	
not tolerated dimensions: ± 1			