



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8137-1DF02-1LA1

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	25.0	136.0	56.0	353	59.6	1,750	380	151.0	10,000	172.0	68	0.907	0.840	23.1
	BLM/SLM 400V	22.0	140.0	56.0	308	51.3	1,500	380	151.0	10,000	172.0	68	0.904	0.840	24.2
	ALM/BLM/SLM 480V	28.0	134.0	55.0	401	67.9	2,000	380	151.0	10,000	172.0	68	0.931	0.840	23.1

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	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%)	0.21 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

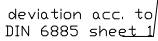
Connection

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

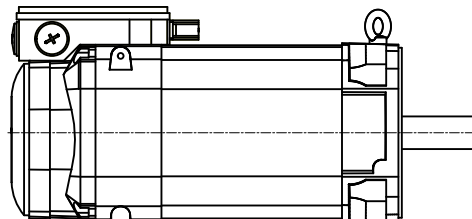
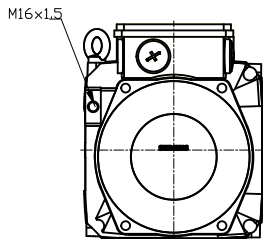
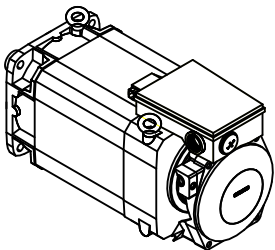
Cooling data and sound pressure level

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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 Cad-drawings do not make any
 manual changes



DIN 332 - DR M16



			
Terminal box	gk833	1PH8137-1DF02-1LA1	
Weight	141 kg		
Unit	mm [in]		
Date	4/18/23		
SIEMENS AG		DT	
not toleranced dimensions: ± 1			