



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8163-1HF03-2GA1

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	34.0	186.0	70.0	366	59.2	1,750	600	217.0	6,500	252.0	87	0.926	0.870	24.6
	BLM/SLM 400V	30.0	191.0	71.0	319	50.8	1,500	600	217.0	6,500	252.0	87	0.923	0.870	25.6
	ALM/BLM/SLM 480V	37.0	177.0	68.0	416	67.4	2,000	600	217.0	6,500	252.0	87	0.932	0.860	24.6

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	160
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 B35 (IM V15, IM V35)
Temperature monitoring	KTY84 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard
Shaft end	Feather key with half key balancing
Encoder system	Incremental encoder HTL 1024 S/R, max. encoder speed = 9000 rpm

Physical constants

Thermal time constant	35 min
Moment of inertia	2,160 kgcm²
Weight (approx.)	196 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	right
Signal connection	DE
Terminal box designation	gk863

Cooling data and sound pressure level

Airflow, min.	0.16 m³/s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	73 dB ¹⁾
Air discharge	axial
Pressure drop	200 Pa

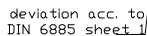
External fan

Max. power consumption

3 AC 400 V / 50 Hz (±10%)	0.26 A
3 AC 400 V / 60 Hz (±10%)	0.32 A
3 AC 480 V / 60 Hz (±10%)	0.33 A

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

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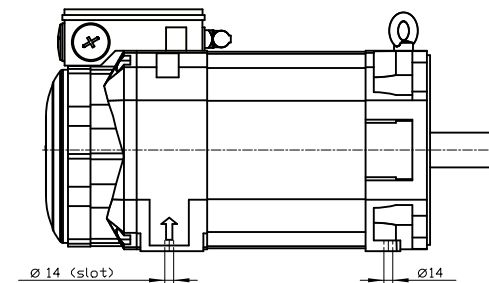
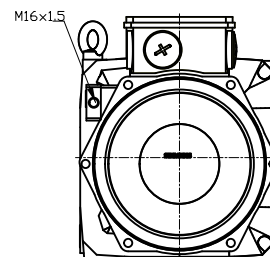
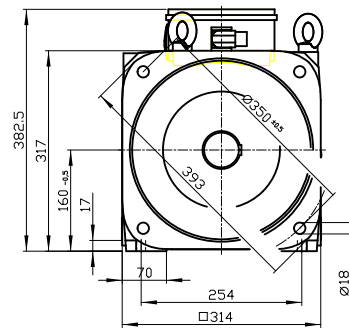
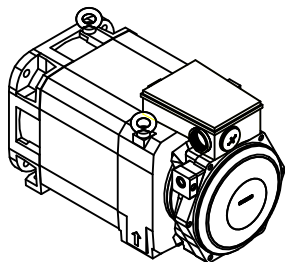


Technical drawing of the DR M20 cable gland, showing a side view with dimensions. The drawing includes a 3D perspective of the cable gland with a cable and a 2D cross-sectional view. Dimensions are given in millimeters. Key dimensions include: total length 603 ±0.5, mounting hole diameter Ø300 ±0.5, mounting hole offset 110 ±0.3, and various other offsets and diameters. A 12-pole signal plug is shown on the right side.

Dimensions (mm):

- Total length: 603 ±0.5
- Mounting hole diameter: Ø300 ±0.5
- Mounting hole offset: 110 ±0.3
- Other dimensions: 23, 5 ±0.3, 10, 90, 110, 19, 55, 61, 346.5, 99.5, 12 pole signal plug, M50x1.5, M20x1.5

DIN 332 - DR M20

Type of construction: IM B35 (IM V15, IM V35) / Type of protection: IP55

		
Terminal box	gk863	1PH8163-1HF03-2GA1
Weight	196 kg	
Unit	mm [in]	
Date	4/19/23	
SIEMENS AG		
not toleranced dimensions: ± 1		DT