



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8167-2DL12-2QC1

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	98.0	335.0	164.0	385	187.0	2,800	1,280	661.0	4,000	500.0	230	0.959	0.000	0.0
	BLM/SLM 400V	95.0	360.0	177.0	350	167.0	2,500	1,280	661.0	4,000	500.0	230	0.955	0.000	0.0
	ALM/BLM/SLM 480V	99.0	315.0	155.0	410	200.0	3,000	1,280	661.0	4,000	500.0	230	0.960	0.000	0.0

Mechanical data

Motor type	Permanent-magnet synchronous motor
Shaft height	160
Cooling	Forced ventilation NDE -> DE
Vibration severity grade	S/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	Advanced Lifetime
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%)	0.17 A
3 AC 400 V / 60 Hz (±10%)	0.22 A
3 AC 480 V / 60 Hz (±10%)	0.22 A

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

Physical constants

Thermal time constant	10 min
Moment of inertia	2,440 kgcm ²
Weight (approx.)	240 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	NDE
Signal connection	left
Terminal box designation	gk874

Cooling data and sound pressure level

Airflow, min.	0.16 m ³ /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

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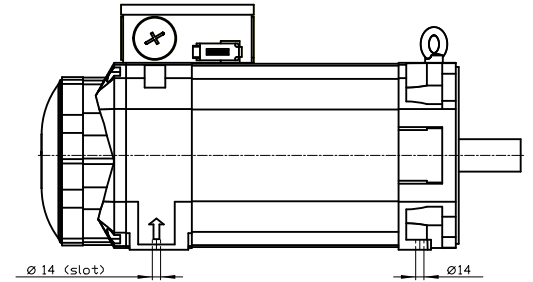
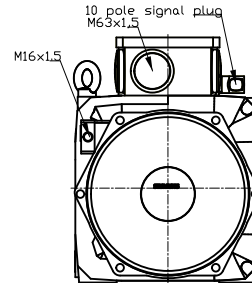
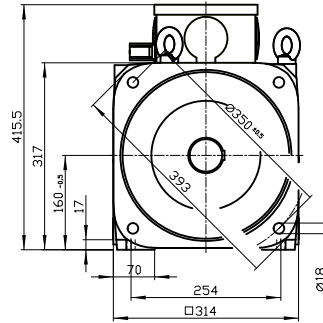
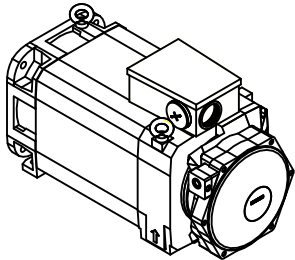
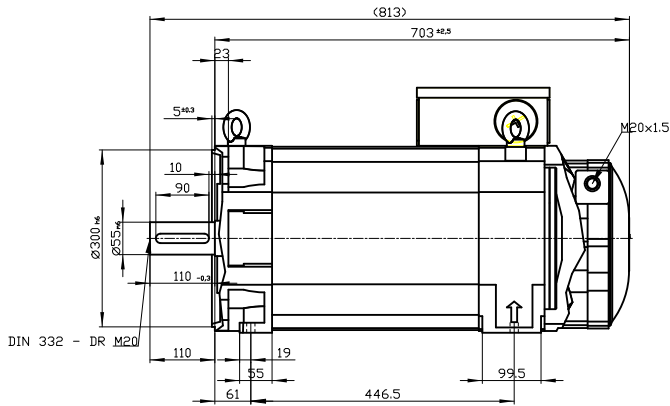
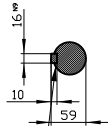
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DE - shaft extension version with Featherkey

deviation acc. to DIN 6885 sheet 1



Type of construction: IM B5 (IM V1, IM V3) / Type of protection: IP55

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		-	
Terminal box	gk874	1PH8167-2DL12-2QC1	
Weight	240 kg		
Unit	mm [in]		
Date	4/20/23		
SIEMENS AG		-	
not toleranced dimensions: ± 1			
		DT	