



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8165-1DF13-2BD1

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	41.0	224.0	76.0	400	59.1	1,750	630	206.0	6,500	304.0	95	0.934	0.880	25.8
	BLM/SLM 400V	37.0	236.0	78.0	350	50.8	1,500	630	206.0	6,500	304.0	95	0.926	0.880	27.0
	ALM/BLM/SLM 480V	45.0	215.0	75.0	440	67.5	2,000	630	206.0	6,500	304.0	95	0.936	0.890	23.6

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	160
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 B35 (IM V15, IM V35)
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%)	0.17 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	35 min
Moment of inertia	2,320 kgcm ²
Weight (approx.)	230 kg

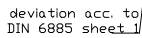
Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	DE
Signal connection	left
Terminal box designation	gk873

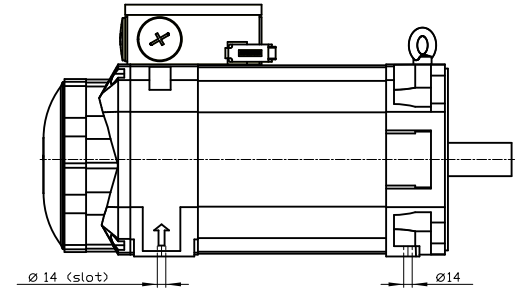
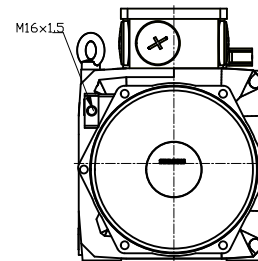
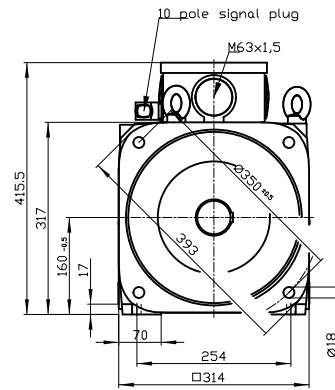
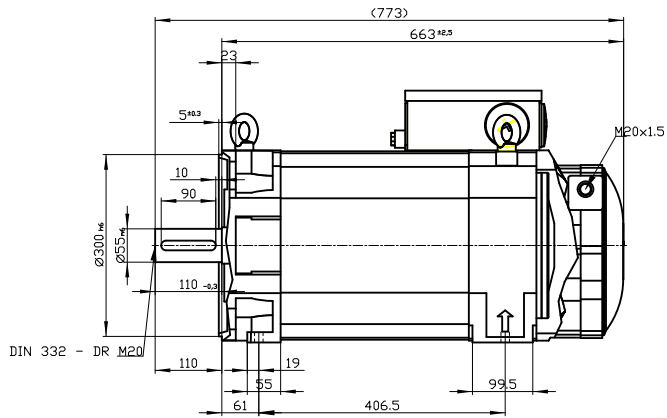
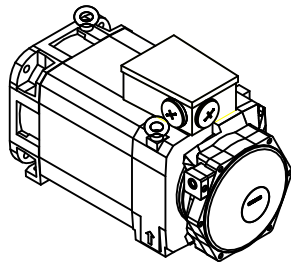
Cooling data and sound pressure level

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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DIN 332 - DR M20



Type of construction IM B35 (IM V15, IM V35)		/ Type of protection: IP55	
		—	
		—	
Terminal box	gk873	1PH8165-1DF13-2BD1	
Weight	230 kg		
Unit	mm (in)		
Date	5/3/23		
SIEMENS AG		—	
not tolerated dimensions: ± 1		DT	