

Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8131-1DB02-1BA1

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	3.6	69.0	9.0	328	18.0	500	134	22.0	6,000	76.0	10	0.810	0.880	3.5
	BLM/SLM 400V	2.9	69.0	9.0	272	14.7	400	134	22.0	6,000	76.0	10	0.770	0.880	3.5
	ALM/BLM/SLM 480V	4.3	68.0	9.0	384	21.3	600	134	22.0	6,000	76.0	10	0.830	0.880	3.5

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	132
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 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 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	590 kgcm ²
Weight (approx.)	89 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

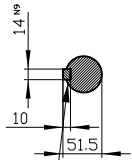
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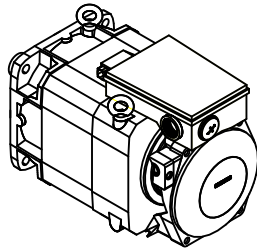
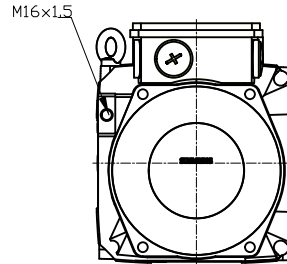
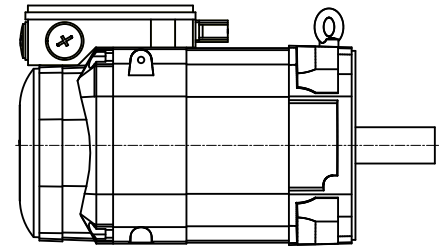
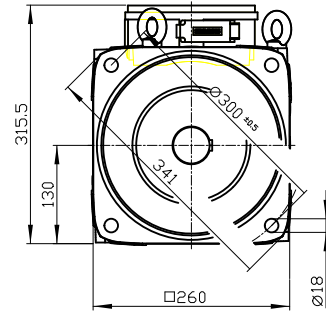
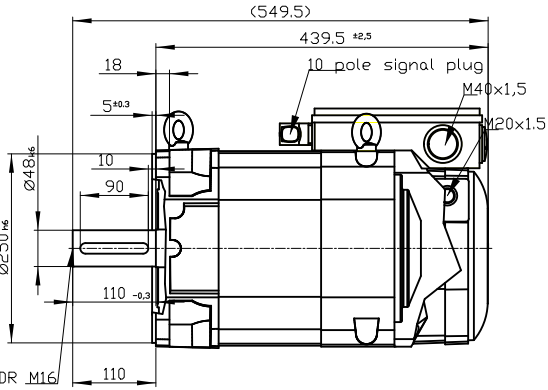
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DE - shaft extension
version with featherkey



deviation acc. to
DIN 6885 sheet 1

DIN 332 - DR M16



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

			
Terminal box		gk833	1PH8131-1DB02-1BA1
Weight		89 kg	
Unit		mm [in]	
Date		4/14/23	
SIEMENS AG			—
not toleranced dimensions: ± 1			
			DT