



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8083-1SM02-1LA1

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	4.5	13.0	13.5	327	112.6	3,300	45	36.0	15,000	21.0	17	0.875	0.740	7.3
	BLM/SLM 400V	4.1	13.0	13.6	298	102.6	3,000	45	36.0	15,000	21.0	17	0.869	0.740	7.3
	ALM/BLM/SLM 480V	4.9	13.0	14.0	355	122.6	3,600	45	36.0	15,000	21.0	17	0.881	0.740	7.3

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	80
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 19 bit without commutation position (encoder IN19DQ)

Physical constants

Thermal time constant	10 min
Moment of inertia	64 kgcm²
Weight (approx.)	32 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	right
Signal connection	DE
Terminal box designation	gk803

Cooling data and sound pressure level

Airflow, min.	0.02 m³/s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	70 dB ¹⁾
Air discharge	axial
Pressure drop	95 Pa

External fan

Max. power consumption

1 AC 230 V / 50 Hz (±10%)	0.20 A
1 AC 230 V / 60 Hz (±10%)	0.16 A
1 AC 265 V / 60 Hz (±10%)	0.19 A

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

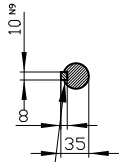
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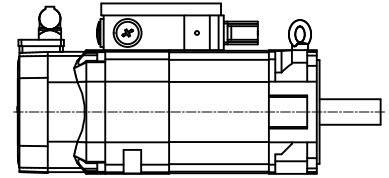
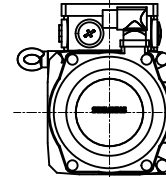
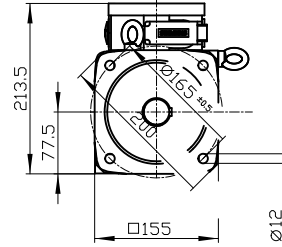
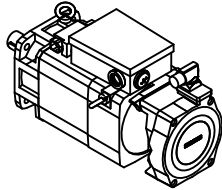
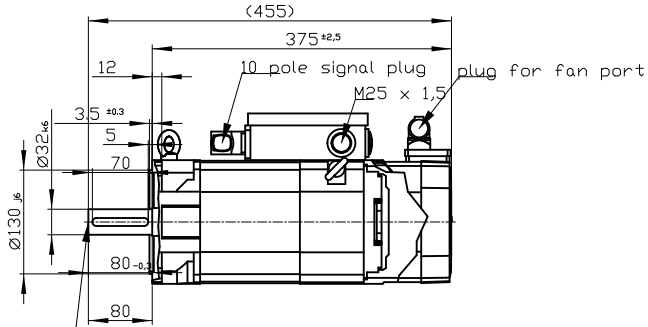
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Cada-drawing do not make any manual changes

DE - shaft extension
version with featherkey



deviation acc. to
DIN 6885 sheet 1

DIN 332 - DR M12



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

			
Terminal box		gk803	1PH8083-1SM02-1LA1
Weight		32 kg	
Unit		mm [in]	
Date		4/25/23	
SIEMENS AG			
not toleranced dimensions: ± 1		DT	