



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8186-1FD03-2BD1

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	58.0	482.0	112.0	390	38.9	1,150	1,230	265.0	5,000	482.0	112	0.933	0.820	57.0
	BLM/SLM 400V	51.0	487.0	112.0	340	34.0	1,000	1,230	265.0	5,000	487.0	112	0.926	0.830	56.0
	ALM/BLM/SLM 480V	67.0	474.0	112.0	450	45.6	1,350	1,230	265.0	5,000	474.0	112	0.939	0.820	55.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	180
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 with A450 flange (IM V35)
Temperature monitoring	Pt1000 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	Absolut encoder 22 bit Singleturn + 12 bit Multiturn, max. encoder speed = 12000 rpm

Physical constants

Thermal time constant	25 min
Moment of inertia	6,520 kgcm²
Weight (approx.)	422 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	DE
Signal connection	right
Terminal box designation	1XB7322-P05

Cooling data and sound pressure level

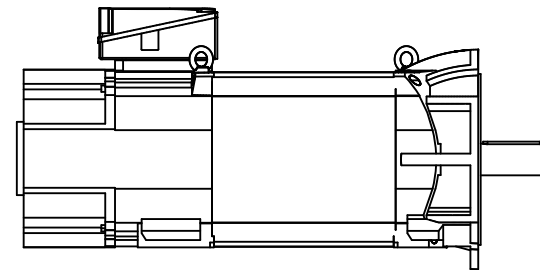
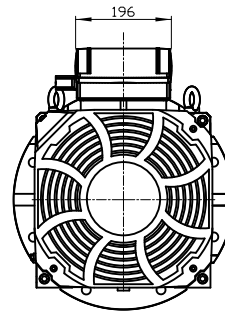
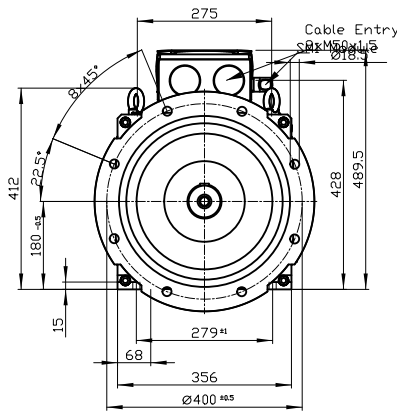
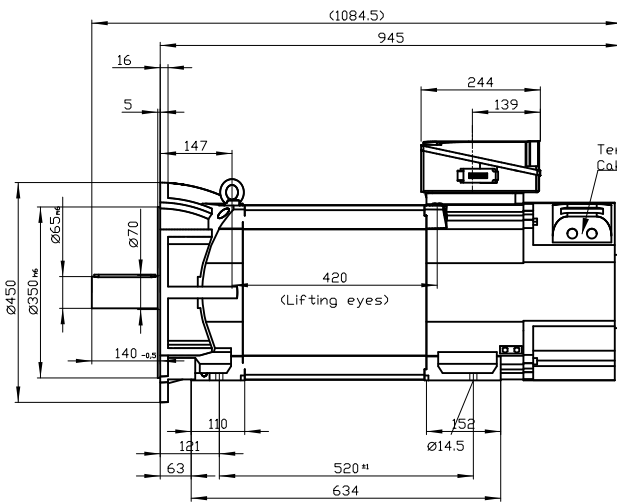
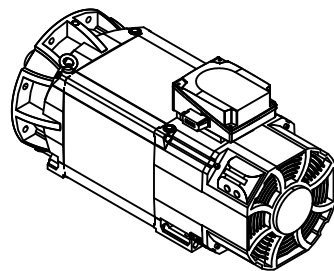
Airflow, min.	0.17 m³/s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	73 dB ¹⁾
Air discharge	axial
Pressure drop	550 Pa

External fan

Max. power consumption	
1 AC 200 ... 277 V (±10%) 50/60 Hz ±10%	1.1 ... 1.3 A

¹⁾ at a rated frequency of 2 kHz and a speed range of up to 5000 rpm

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Type of construction: IM B35 with A450 flange (IM V35)/ Type of protection: IP55	
Terminal box	1X87322-P05
Weight	422 kg
Unit	mm (in)
Date	5/4/23
SIEMENS AG	
not toleranced dimensions: ± 1	
DT	

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