



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8186-1HF13-2BD1

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	85.0	464.0	164.0	385	58.9	1,750	1,230	400.0	5,000	464.0	164	0.949	0.820	83.0
	BLM/SLM 400V	74.0	471.0	166.0	330	50.6	1,500	1,230	400.0	5,000	471.0	166	0.945	0.830	82.0
	ALM/BLM/SLM 480V	94.0	449.0	160.0	445	67.2	2,000	1,230	400.0	5,000	449.0	160	0.952	0.800	86.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	180
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 with A450 flange (IM V35)
Temperature monitoring	KTY84 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	Incremental encoder HTL 1024 S/R, max. encoder speed = 9000 rpm

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

Physical constants

Thermal time constant	25 min
Moment of inertia	6,520 kgcm ²
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

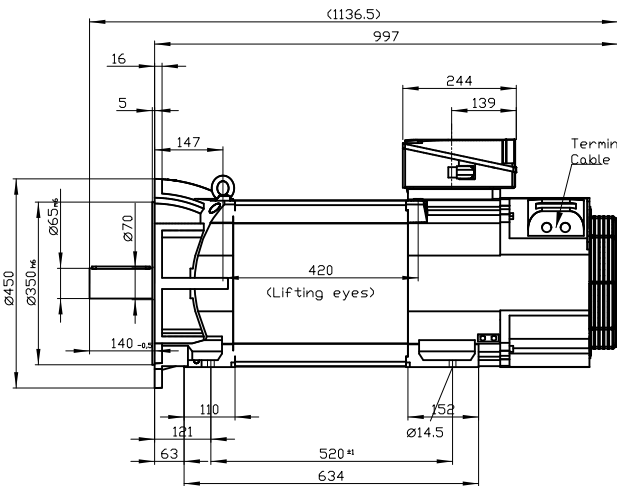
Airflow, min.	0.17 m ³ /s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	73 dB ¹⁾
Air discharge	axial
Pressure drop	550 Pa

External fan

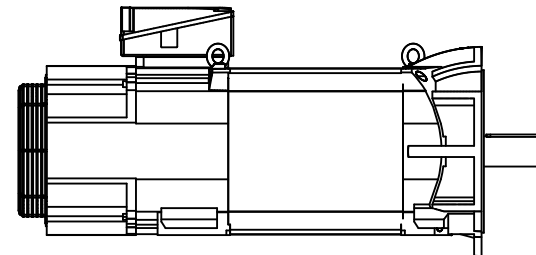
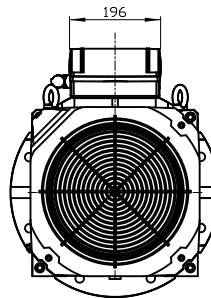
Max. power consumption

1 AC 200 ... 277 V (±10%) 50/60 Hz ±10%	1.1 ... 1.3 A
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Technical drawing of the front view of a motor. The drawing shows a circular motor body with a central circular feature. Dimensions are provided in millimeters: overall width 275, overall height 412, mounting flange diameter 279, mounting flange thickness 68, base diameter 356, base thickness 15, and overall base diameter 400. A cable entry is shown on the right side with a diameter of 218.3. The motor is labeled "P2-Motor Encoder".



		
Terminal box	1XB7322-P05	1PH8186-1HF13-2BD1
Weight	422 kg	
Unit	mm [in]	
Date	24/05/23	
SIEMENS AG		DT
not toleranced dimensions: ± 1		