



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8286-1DB10-2BU1

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]
Δ	ALM 400V	100.0	1,909.0	188.0	400	17.0	500	5,350	530.0	3,300	1,909.0	188	0.939	0.820	96.0
	BLM/SLM 400V	80.0	1,910.0	186.0	325	13.6	400	5,350	530.0	3,300	1,910.0	186	0.928	0.820	98.0
	ALM/BLM/SLM 480V	120.0	1,916.0	188.0	460	20.3	600	5,350	530.0	3,300	1,916.0	188	0.945	0.850	88.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	280
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 B3 (IM V6)
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	Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm

External fan

Max. power consumption

3 AC 380 ... 480 V (-5% / +10%)
50/60 Hz ±10%

0.75 ... 0.90 A

¹⁾ at a rated frequency of 2 kHz and a speed range of up to 3300 rpm

Physical constants

Thermal time constant	50 min
Moment of inertia	52,000 kgcm ²
Weight (approx.)	1,400 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE right
Power connection	below
Signal connection	DE
Terminal box designation	1XB7700-P02

Cooling data and sound pressure level

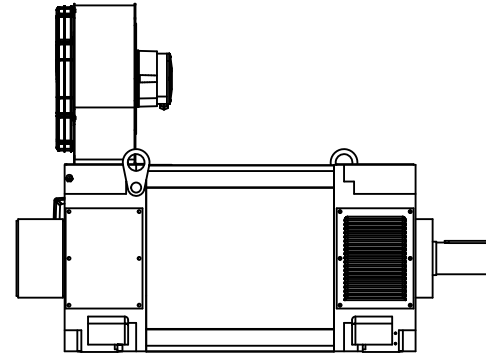
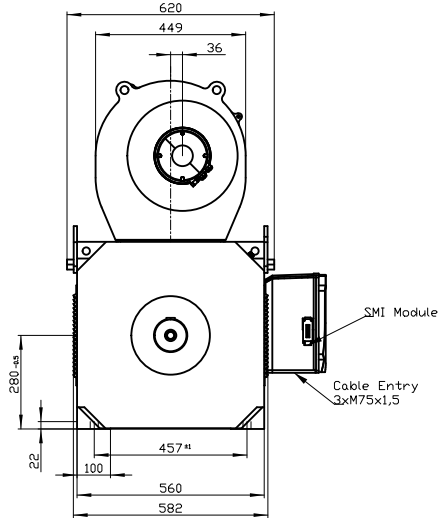
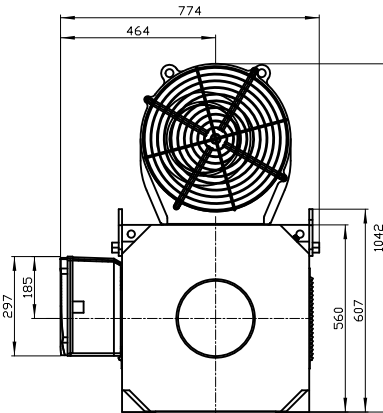
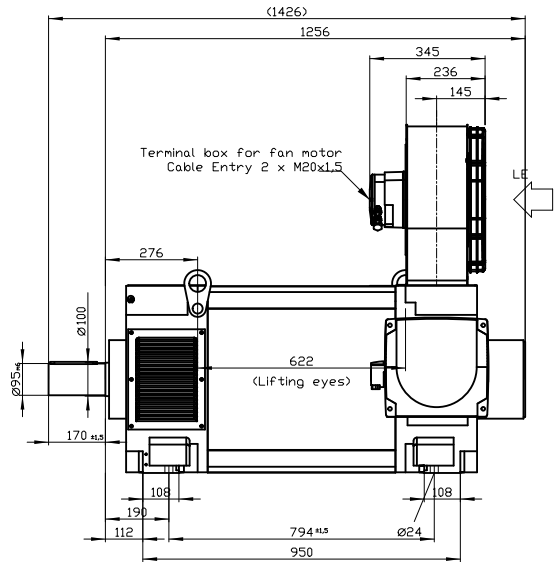
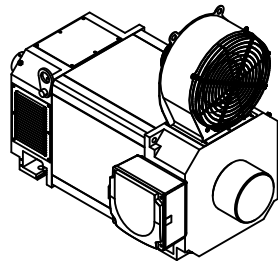
Airflow, min.	0.42 m ³ /s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	74 dB ¹⁾
Air discharge	radial
Pressure drop	600 Pa

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Type of construction: IM B3 (IM V6) / Type of protection: IP55

		1PH8286-1DB10-2BU1	
Terminal box	1XB7700-P02		
Weight	1400 kg		
Unit	mm (in)		
Date	4/24/23		
SIEMENS AG			
not toleranced dimensions: ± 1		DT	