



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8186-1DF30-2BD1

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	125.0	682.0	225.0	385	59.2	1,750	1,230	400.0	5,000	682.0	225	0.942	0.880	80.0
	BLM/SLM 400V	108.0	688.0	225.0	330	50.9	1,500	1,230	400.0	5,000	688.0	225	0.936	0.890	79.0
	ALM/BLM/SLM 480V	135.0	645.0	210.0	445	67.5	2,000	1,230	400.0	5,000	645.0	210	0.948	0.870	83.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	180
Cooling	Open circuit cooling DE-> NDE
Vibration severity grade	R/A
Shaft and flange accuracy	R
Degree of protection	IP23
Design acc. to Code I	IM B3 (IM B6, IM B7, IM B8, 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

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

¹⁾ at a rated frequency of 2 kHz and a speed range of up to 3000 rpm

Physical constants

Thermal time constant	29 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	1XB7422-P06

Cooling data and sound pressure level

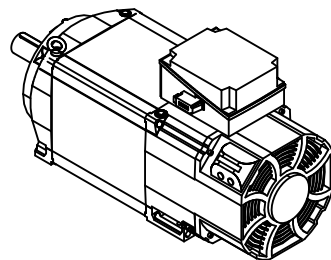
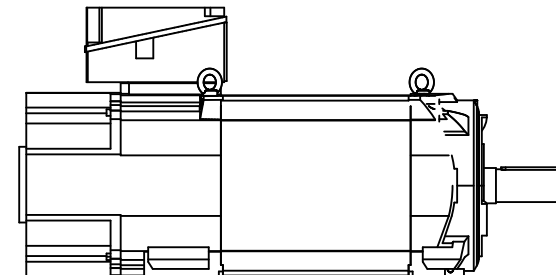
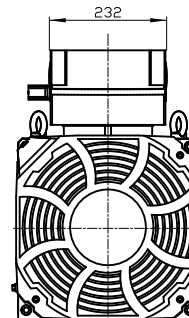
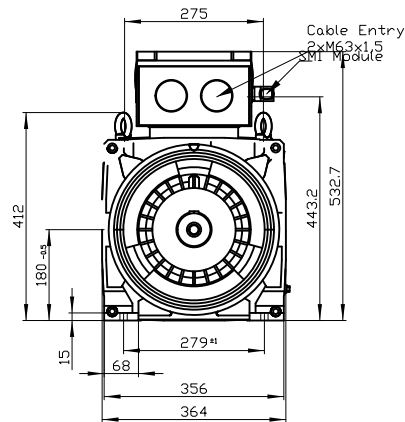
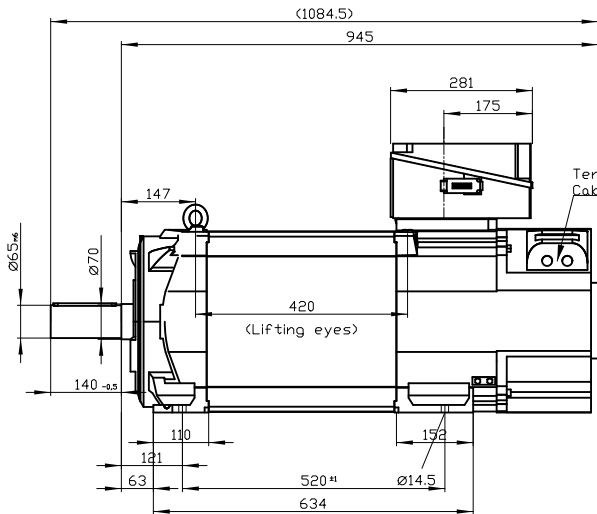
Airflow, min.	0.21 m ³ /s
Sound pressure level L _{pA} (1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	73 dB ¹⁾
Air discharge	axial
Pressure drop	450 Pa

Confie a titre de secret d'entreprise. Tous droits réservés.
Confidado como secreto industrial. Nos reservados todos los derechos
Comunicado como segredo empresarial. Reservados todos os direitos

Weitergabe sowie Vervielfältigung dieser Unterlage, Verwer-
tung und Mitteilung ihres Inhalts nicht gestattet, soweit nicht
ausdrücklich zugestanden. Zuwiderhandlungen verpflichten
zu Schadenersatz. Alle Rechte vorbehalten, insbesondere fuer
den Fall der Patenterteilung oder der Eintragung.

The reproduction or use of this document or its
contents is not permitted without express written authority.
Diffenders will be liable for damages. All rights, including rights
created by patent grant or registration of a utility model or design,
are reserved.

Copyright© Siemens AG 2005
Cada-drawing do not make any
manual changes



Type of construction: IM B3 (IM B6, IM B7, IM B8, IM V6) Type of protection: IP23

		-
		-
Terminal box	1XB7422-P06	1PH8186-1DF30-2BD1
Weight	422 kg	
Unit	mm [in]	
Date	5/4/23	
SIEMENS AG		-
not toleranced dimensions: ± 1		
		DT