



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8087-1DF02-0DA1

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	4.3	23.0	10.0	396	61.3	1,750	49	20.0	10,000	27.0	11	0.838	0.780	5.3
	BLM/SLM 400V	3.7	24.0	10.0	336	53.2	1,500	49	20.0	10,000	27.0	11	0.817	0.810	4.9
	ALM/BLM/SLM 480V	4.9	23.0	10.0	435	69.9	2,000	49	20.0	10,000	27.0	11	0.864	0.800	4.9

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	80
Cooling	Forced ventilation DE -> NDE
Vibration severity grade	SR/A
Shaft and flange accuracy	R
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	Standard with fixed bearing
Shaft end	Plain shaft
Encoder system	Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm

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

Physical constants

Thermal time constant	10 min
Moment of inertia	89 kgcm²
Weight (approx.)	39 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

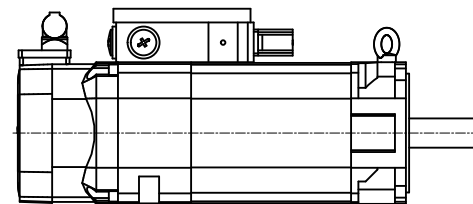
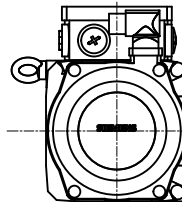
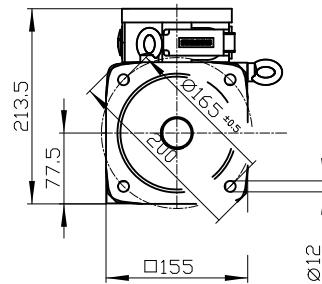
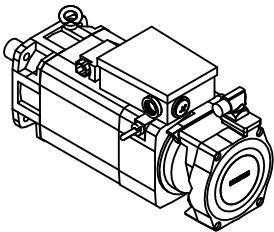
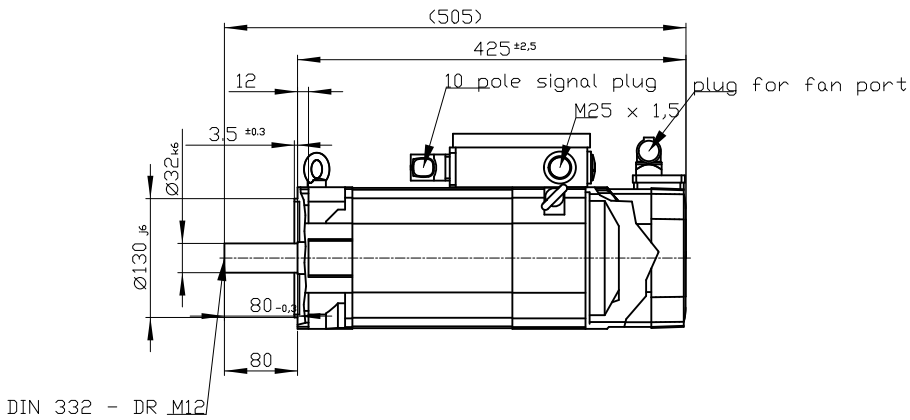
Airflow, min.	0.02 m³/s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	70 dB ¹⁾
Air discharge	axial
Pressure drop	95 Pa

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 GK-Entragung.

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
Cod-drawing do not make any
manual changes



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

		—	
		—	
Terminal box	gk803	1PH8087-1DF02-0DA1	
Weight	39 kg		
Unit	mm [in]		
Date	4/25/23		
SIEMENS AG			
not toleranced dimensions: ± 1		DT	