

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8105-1SS02-1LA1

Figure similar

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	10.0	48.0	23.0	366	68.9	2,000	100	46.0	12,000	55.0	25	0.891	0.800	10.9
	BLM/SLM 400V	7.5	48.0	23.0	285	52.1	1,500	100	46.0	12,000	55.0	25	0.864	0.790	11.5
	ALM/BLM/SLM 480V	12.5	48.0	23.0	451	85.5	2,500	100	46.0	12,000	55.0	25	0.922	0.800	10.9
Δ	ALM 400V	9.3	18.0	24.0	398	167.9	5,000	65	86.0	12,000	36.0	34	0.914	0.710	13.2
	BLM/SLM 400V	7.5	18.0	24.0	308	134.6	4,000	65	86.0	12,000	36.0	35	0.907	0.730	12.7
	ALM/BLM/SLM 480V	11.2	18.0	22.0	460	201.3	6,000	65	86.0	12,000	36.0	35	0.932	0.730	12.7

Mechanical data	
Motor type	Squirrel cage asynchronous motor
Shaft height	100
Cooling	Forced ventilation DE -> NDE
Vibration severity grade	SPECIAL/B
Shaft and flange accuracy	SPECIAL
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	Performance
Shaft end	Feather key with full key balancing
Encoder system	Incremental encoder 19 bit without commutation position (encoder IN19DQ)

Physical constants	
Thermal time constant	20 min
Moment of inertia	252 kgcm²
Weight (approx.)	65 kg

Connection	
Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	right
Signal connection	DE
Terminal box designation	gk826

Cooling data and sound pressure level	
Airflow, min.	0.04 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	110 Pa

External fan	
Max. power consumption	
3 AC 400 V / 50 Hz (±10%)	0.13 A
3 AC 400 V / 60 Hz (±10%)	0.09 A
3 AC 480 V / 60 Hz (±10%)	0.13 A

¹⁾ at a rated frequency of 4 kHz and a speed range of up to 5000 rpm

Confine 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

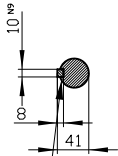
Weitergabe sowie Vervielfältigung dieser Unterlage, Verwertung und Mitteilung ihres Inhalts nicht gestattet, soweit nicht ausdrücklich zugestanden. Zuwiderhandlungen verpflichten zu Schadenersatz. Alle Rechte vorbehalten, insbesondere fuer den Fall der Patenterteilung oder GK-Entragung.

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

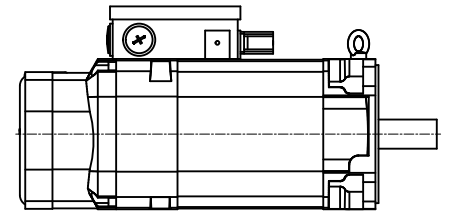
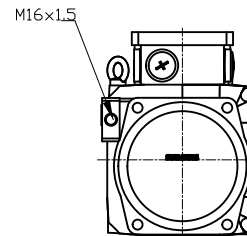
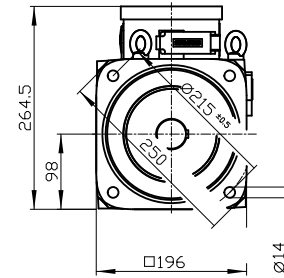
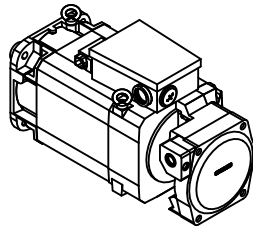
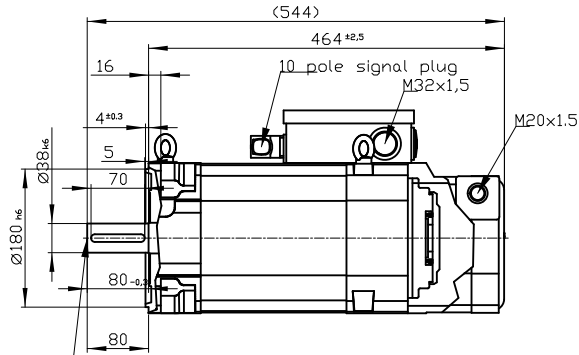
Copyright© Siemens AG 2005
Cod-drawing do not make any manual changes

DE - shaft extension
version with featherkey

deviation acc. to
DIN 6885 sheet 1



DIN 332 - DR M12



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

			
Terminal box		gk826	1PH8105-1SS02-1LA1
Weight		65 kg	
Unit		mm [in]	
Date		4/26/23	
SIEMENS AG			DT
not toleranced dimensions: ± 1			