

Data sheet for SIMOTICS S-1FK7



MLFB-Ordering data 1FK7062-2AH71-1CG0

Client order no. :
Order no. :
Offer no. :
Remarks :

Item no. :
Consignment no. :
Project :

Engineering data		Mechanical data	
Rated speed (100 K)	4500 rpm	Motor type	Permanent-magnet synchronous motor
Number of poles	8	Motor type	Compact
Rated torque (100 K)	3.0 Nm	Shaft height	63
Rated current	3.3 A	Cooling	Natural cooling
Static torque (60 K)	7.10 Nm	Radial runout tolerance	0.040 mm
Static torque (100 K)	8.50 Nm	Concentricity tolerance	0.10 mm
Stall current (60 K)	6.50 A	Axial runout tolerance	0.10 mm
Stall current (100 K)	8.00 A	Vibration severity grade	Grade A
Moment of inertia	11.200 kgcm ²	Connector size	1
Efficiency	91.0 %	Degree of protection	IP64
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	1.06 Nm/A	Temperature monitoring	Pt1000 temperature sensor
Voltage constant at 20° C	67.5 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
Winding resistance at 20° C	0.48 Ω	Color of the housing	Standard (Anthracite RAL 7016)
Rotating field inductance	6.4 mH	Holding brake	without holding brake
Electrical time constant	13.20 ms	Shaft end	Plain shaft
Mechanical time constant	1.44 ms	Encoder system	Encoder AM24DQI: absolute encoder 24 bits (resolution 16777216, encoder-internal 2048 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)
Thermal time constant	35 min		
Shaft torsional stiffness	37000 Nm/rad		
Net weight of the motor	9.1 kg		



Figure similar

MLFB-Ordering data 1FK7062-2AH71-1CG0

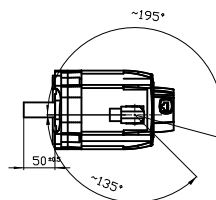
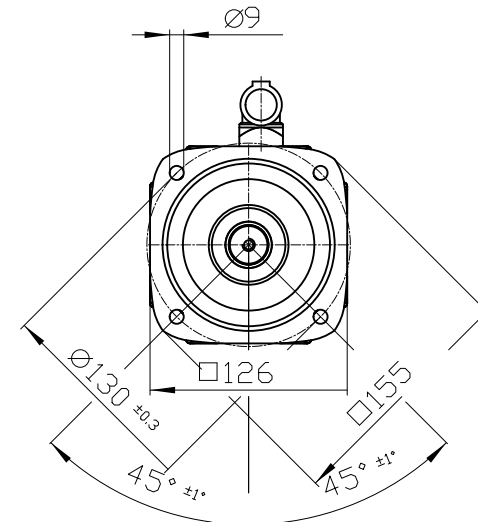
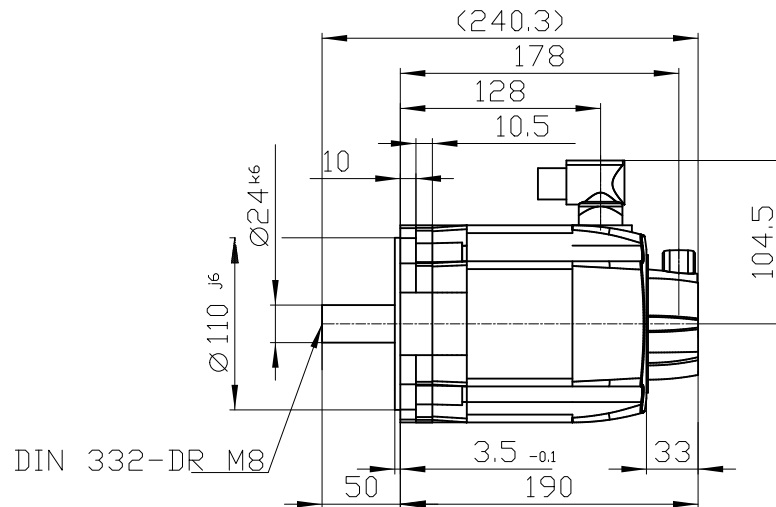
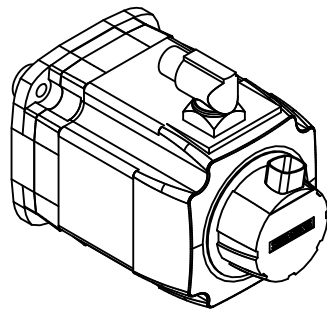
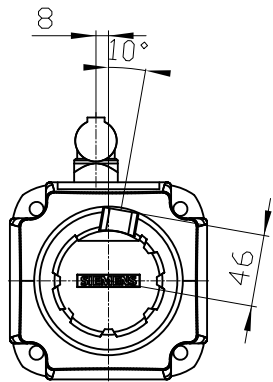
Optimum operating point		Recommended Motor Module	
Optimum speed	3500 rpm	Rated inverter current	9 A
Optimum power	1.9 kW	Maximum inverter current	27 A
Limiting data		Maximum torque	24.80 Nm
Max. permissible speed (mech.)	7200 rpm		
Max. permissible speed (inverter)	7200 rpm		
Maximum torque	26.0 Nm		
Maximum current	29.0 A		

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

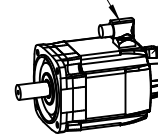
Weitergabe sowie Vervielfältigung dieser Unterlage. Verwer-
tung und Mitteilung ihres Inhalts nicht gestattet, soweit nicht
ausdrücklich zugestanden. Zuwahlhandlungen verpflichten
zu Schadenersatz. Alle Rechte vorbehalten, insbesondere fuer
den Fall der Patenterteilung oder GK-Entragung.

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
Cada-drawing do not make any
manual changes



Connector size 1 = M23;
6-pole for power and brake



		-
		-
Unit	mm [in]	1FK7062-2AH71-1CG0
Date	4/14/23	
SIEMENS AG		-
-		DT