

MLFB-Ordering data 1FK7101-5AF71-1EA0

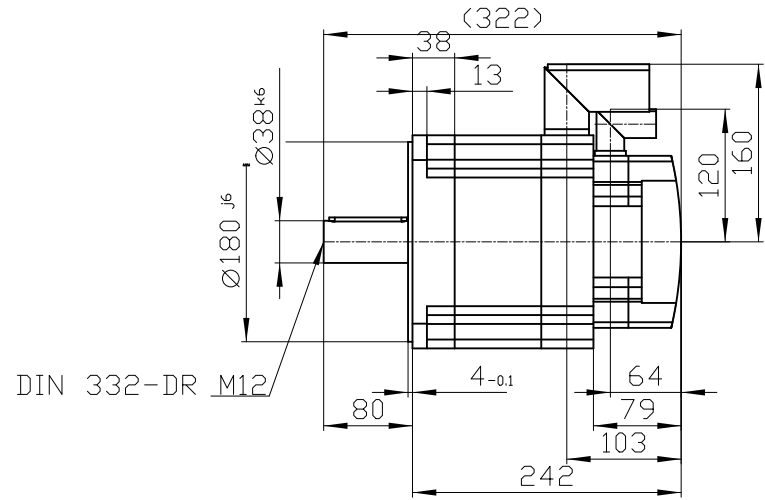
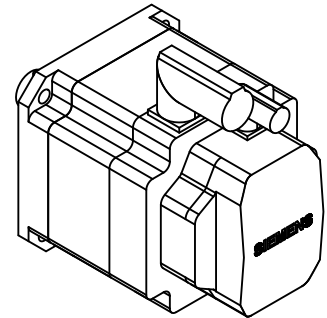
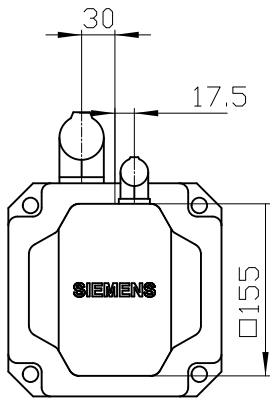
Client order no. :
Order no. :
Offer no. :
Remarks :
Item no. :
Consignment no. :
Project :

Engineering data		Mechanical data	
Rated speed (100 K)	3000 rpm	Motor type	Permanent-magnet synchronous motor
Number of poles	8	Motor type	Compact
Rated torque (100 K)	15.5 Nm	Shaft height	100
Rated current	11.8 A	Cooling	Natural cooling
Static torque (60 K)	22.40 Nm	Radial runout tolerance	0.050 mm
Static torque (100 K)	27.00 Nm	Concentricity tolerance	0.10 mm
Stall current (60 K)	15.70 A	Axial runout tolerance	0.10 mm
Stall current (100 K)	19.00 A	Vibration severity grade	Grade A
Moment of inertia	79.900 kgcm²	Connector size	1.5
Efficiency	93.0 %	Degree of protection	IP64
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	1.41 Nm/A	Temperature monitoring	KTY84 temperature sensor in the stator winding
Voltage constant at 20° C	90.0 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
Winding resistance at 20° C	0.15 Ω	Color of the housing	without
Rotating field inductance	3.0 mH	Holding brake	without holding brake
Electrical time constant	20.00 ms	Shaft end	Feather key
Mechanical time constant	1.80 ms	Encoder system	Encoder AM2048S/R: absolute encoder 2048 S/R, 4096 revolutions multi-turn, with EnDat interface
Thermal time constant	60 min		
Shaft torsional stiffness	165000 Nm/rad		
Net weight of the motor	21.0 kg		

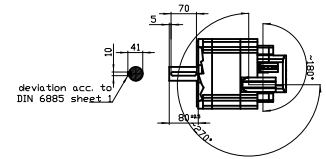
MLFB-Ordering data 1FK7101-5AF71-1EA0

Optimum operating point		Recommended Motor Module	
Optimum speed	3000 rpm	Rated inverter current	18 A
Optimum power	4.9 kW	Maximum inverter current	36 A
Limiting data		Maximum torque	51.00 Nm
Max. permissible speed (mech.)	5000 rpm		
Max. permissible speed (inverter)	6400 rpm		
Maximum torque	80.0 Nm		
Maximum current	63.0 A		

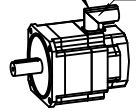
Copyright© Siemens AG 2005
Cod-drawing do not make any manual changes
The reproduction or use of this document or its contents is not permitted without express written authority. Offenders will be liable for damages. All rights, including rights created by patent grant or registration of a utility model or design, are reserved.
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.
Confide a titre de secret d'entreprise. Tous droits reserves. Confido como secreto industrial. Nos reservamos todos los derechos Comunicado como segredo empresarial. Reservados todos os direitos



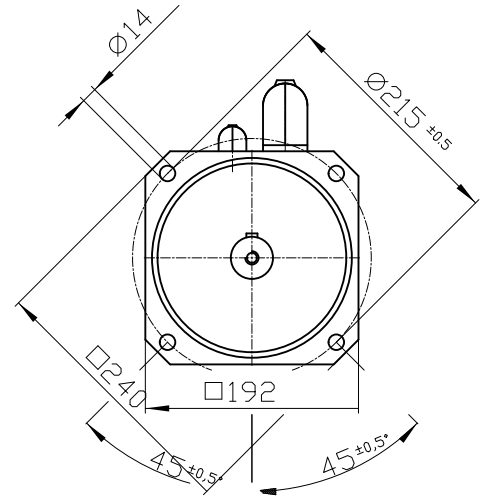
DIN 332-DR M12



Connector size 1.5 = M40;
6-pole for power and brake



Connector size M23, 17-pole



		-	
Unit		mm [in]	1FK7101-5AF71-1EA0
Date		7/27/23	
SIEMENS AG		-	
-		DT	