

No image
available for this
configuration.

Figure similar

MLFB-Ordering data 1FK7042-5AF71-1FH3

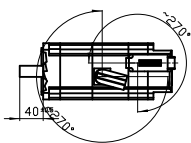
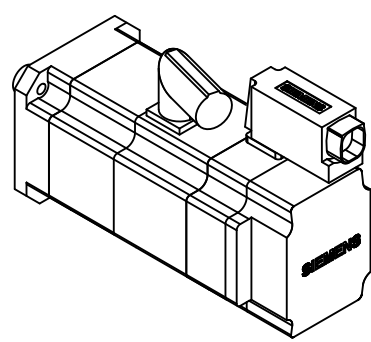
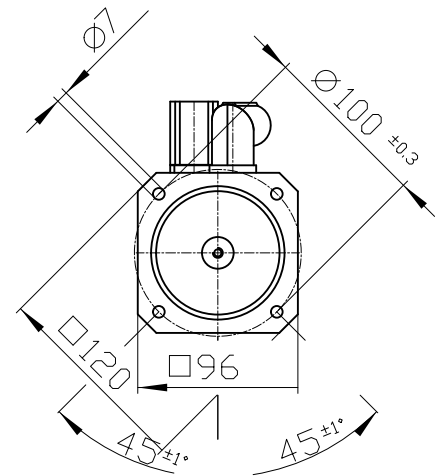
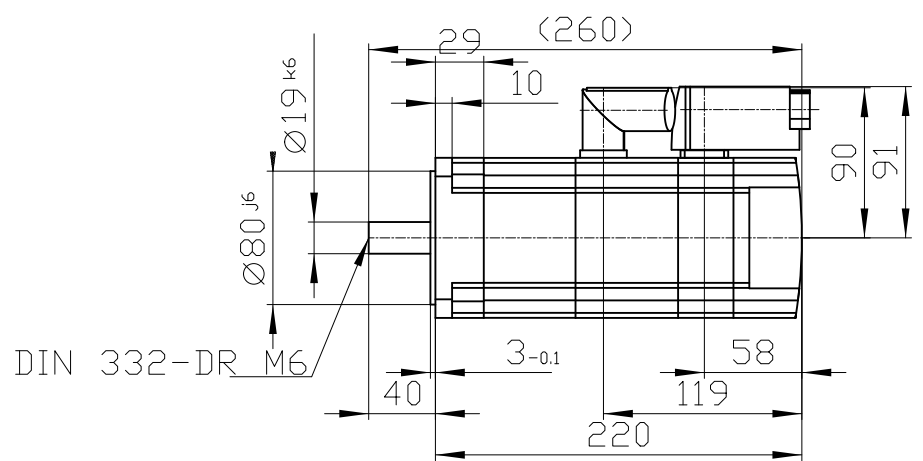
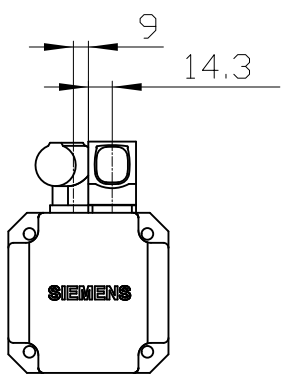
Client order no. :
Order no. :
Offer no. :
Remarks :

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)	2.6 Nm	Shaft height	48
Rated current	1.9 A	Cooling	Natural cooling
Static torque (60 K)	2.50 Nm	Radial runout tolerance	0.040 mm
Static torque (100 K)	3.00 Nm	Concentricity tolerance	0.08 mm
Stall current (60 K)	1.80 A	Axial runout tolerance	0.08 mm
Stall current (100 K)	2.20 A	Vibration severity grade	Grade A
Moment of inertia	3.450 kgcm²	Connector size	1
Efficiency	89.0 %	Degree of protection	IP64
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	1.40 Nm/A	Temperature monitoring	KTY84 temperature sensor in the stator winding
Voltage constant at 20° C	89.0 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
Winding resistance at 20° C	5.15 Ω	Color of the housing	Standard (Anthracite RAL 7016)
Rotating field inductance	29.0 mH	Holding brake	with holding brake
Electrical time constant	5.60 ms	Shaft end	Plain shaft
Mechanical time constant	2.37 ms	Encoder system	Encoder AM22DQ: absolute encoder 22 bits (resolution 4194304, encoder-internal 2048 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)
Thermal time constant	30 min		
Shaft torsional stiffness	16000 Nm/rad		
Net weight of the motor	5.4 kg		

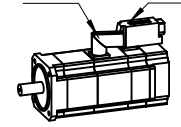
MLFB-Ordering data 1FK7042-5AF71-1FH3

Optimum operating point		Recommended Motor Module	
Optimum speed	3000 rpm	Rated inverter current	3 A
Optimum power	0.8 kW	Maximum inverter current	6 A
Limiting data		Maximum torque	8.40 Nm
Max. permissible speed (mech.)	9000 rpm		
Max. permissible speed (inverter)	6500 rpm		
Maximum torque	10.5 Nm		
Maximum current	7.4 A		
Holding brake			
Holding brake version	Permanent-magnet brake		
Holding torque	4.0 Nm		
Power supply voltage	DC 24 V ± 10 %		
Coil current	0.5 A		
Opening time	70 ms		
Closing time	30 ms		
Highest braking work	150 J		



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

10-pole RJ45 socket



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. Confiado como secreto industrial. Nos reservados todos los derechos Comunicado como segredo empresarial. Reservados todos os direitos

		
Unit	mm [in]	1FK7042-5AF71-1FH3
Date	12/23/22	
SIEMENS AG		-
-		
		DT