

No image
available for this
configuration.

Figure similar

MLFB-Ordering data1FK7044-7AF71-1SG3

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	6	Motor type	High Dynamic
Rated torque (100 K)	3.5 Nm	Shaft height	48
Rated current	4.0 A	Cooling	Natural cooling
Static torque (60 K)	3.00 Nm	Radial runout tolerance	0.040 mm
Static torque (100 K)	4.00 Nm	Concentricity tolerance	0.08 mm
Stall current (60 K)	3.40 A	Axial runout tolerance	0.08 mm
Stall current (100 K)	4.50 A	Vibration severity grade	Grade A
Moment of inertia	1.280 kgcm²	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	0.86 Nm/A	Temperature monitoring	KTY84 temperature sensor in the stator winding
Voltage constant at 20° C	57.0 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
Winding resistance at 20° C	1.50 Ω	Color of the housing	Standard (Anthracite RAL 7016)
Rotating field inductance	20.0 mH	Holding brake	without holding brake
Electrical time constant	13.30 ms	Shaft end	Plain shaft
Mechanical time constant	0.78 ms	Encoder system	Multi-pole resolver (number of pole pairs corresponds to number of pole pairs of the motor)
Thermal time constant	45 min		
Shaft torsional stiffness	9500 Nm/rad		
Net weight of the motor	7.7 kg		

Figure similar

1FK7044-7AF71-1SG3

Technical data are subject to change! There may be discrepancies between calculated and rating plate values.

Page 2 of 2

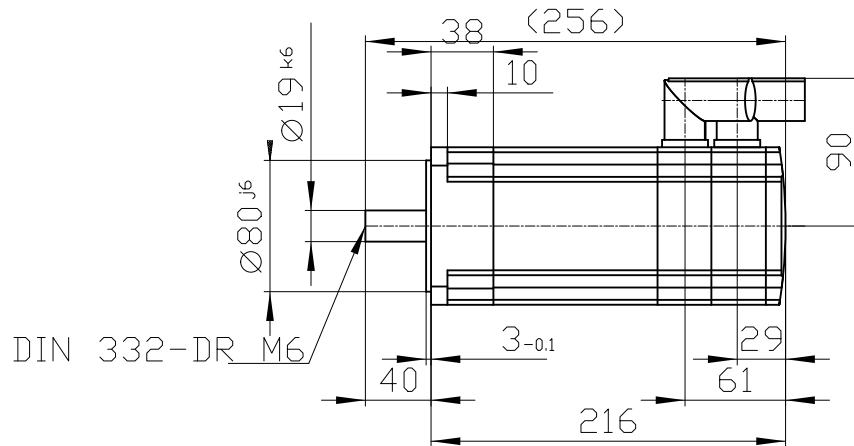
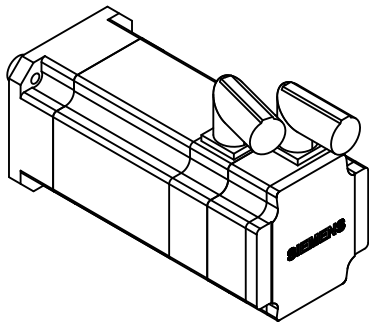
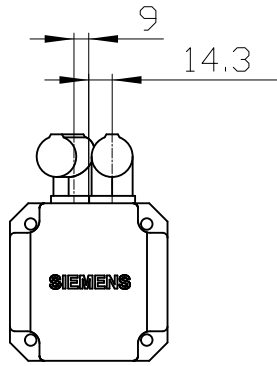
Generated Fri Mar 10 14:49:41 CET 2023

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

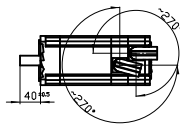
Weitergabe sowie Vervielfältigung dieser Unterlage. Verwertung und Mitteilung ihres Inhalts nicht gestattet, soweit nicht ausdrücklich zugestanden. Zuwiderhandlungen verpflichten zu Schadenersatz. Alle Rechte vorbehalten, insbesondere fuer den Fall der Patenterteilung oder GK-Entragung.

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.

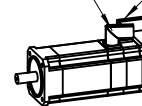
Copyright© Siemens AG 2005
Cada-drawing do not make any
manual changes



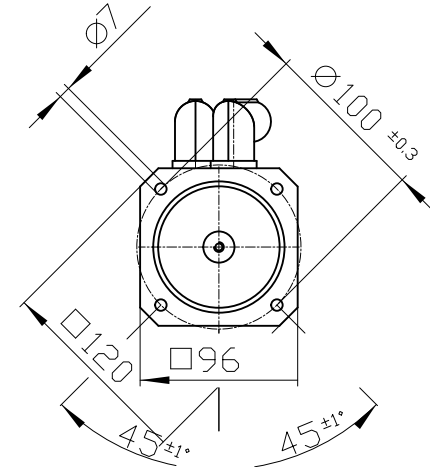
DIN 332-DR M6



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



Connector size M23, 12-pole



	Unit	mm [in]	1FK7044-7AF71-1SG3
	Date	3/10/23	
SIEMENS AG		-	
-		DT	