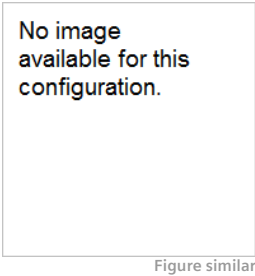


MLFB-Ordering data1FK7042-5AF71-1DG2



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	3.010 kgcm²	Connector size	1
Efficiency	89.0 %	Degree of protection	IP65 and DE flange IP67
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	without
Rotating field inductance	29.0 mH	Holding brake	without holding brake
Electrical time constant	5.60 ms	Shaft end	Plain shaft
Mechanical time constant	2.37 ms	Encoder system	Encoder IC22DQ: incremental encoder 22 bits (resolution 4194304, encoder-internal 2048 S/R) + commutation position 11 bits
Thermal time constant	30 min		
Shaft torsional stiffness	16000 Nm/rad		
Net weight of the motor	4.9 kg		

MLFB-Ordering data 1FK7042-5AF71-1DG2

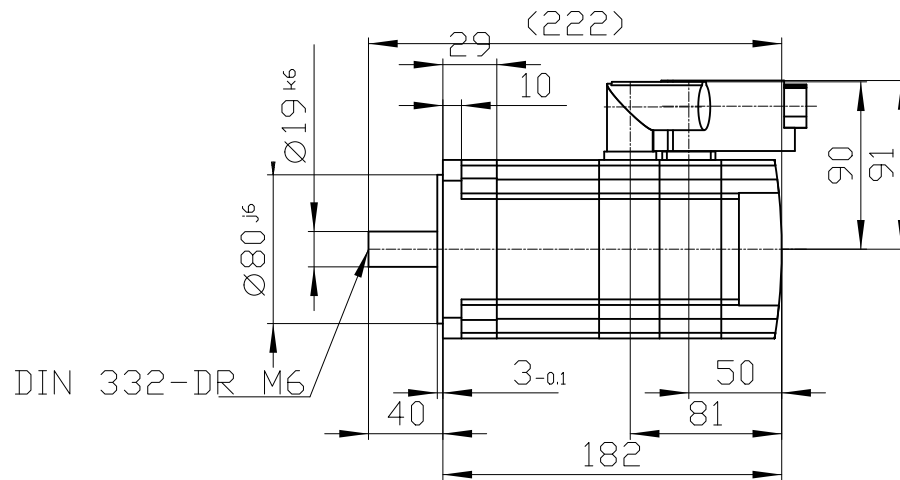
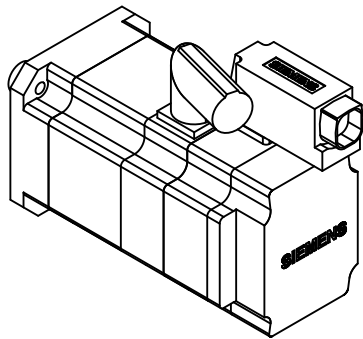
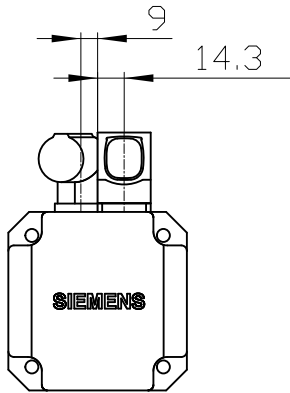
Optimum operating point		Recommended Motor Module	
Optimum speed	3000 rpm	Rated inverter current	3 A
Optimum power	0.8 kW	Maximum inverter current	6 A
Limiting data		Maximum torque	8.40 Nm
Max. permissible speed (mech.)	9000 rpm		
Max. permissible speed (inverter)	6500 rpm		
Maximum torque	10.5 Nm		
Maximum current	7.4 A		

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

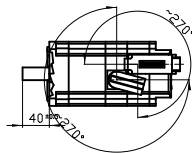
Weitergabe sowie Vervielfältigung dieser Unterlage. Verwer-
tung und Mitteilung ihres Inhalts nicht gestattet, soweit nicht
ausdrücklich zugestanden. Zuwahlungen verpflichten
zu Schadenersatz. Alle Rechte vorbehalten, insbesondere für
den Fall der Patenterteilung oder der Eintragung

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

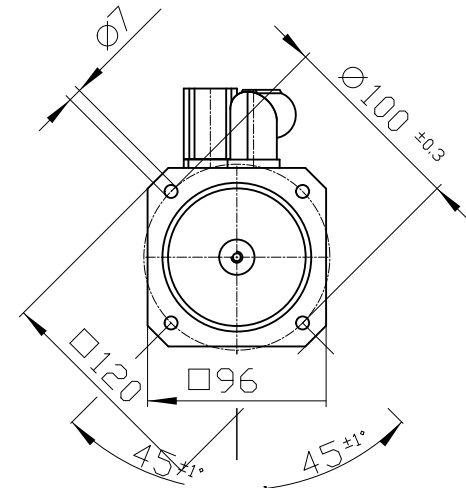
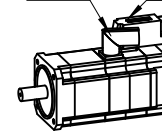
Copyright© Siemens AG 2005
Cada-drawing do not make any
manual changes



DIN 332-DR M6



Connector size 1 = M23;
6-pole for power and brake 10-pole RJ45 socket



Unit	mm [in]	1FK7042-5AF71-1DG2	
Date	3/9/23		
SIEMENS AG			
		DT	