

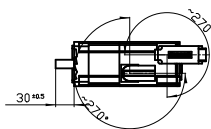
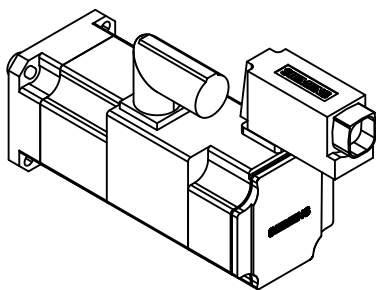
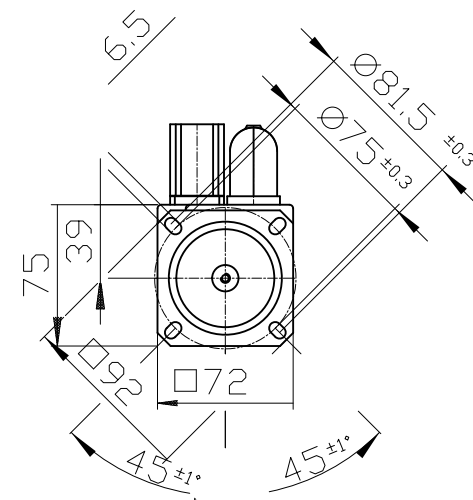
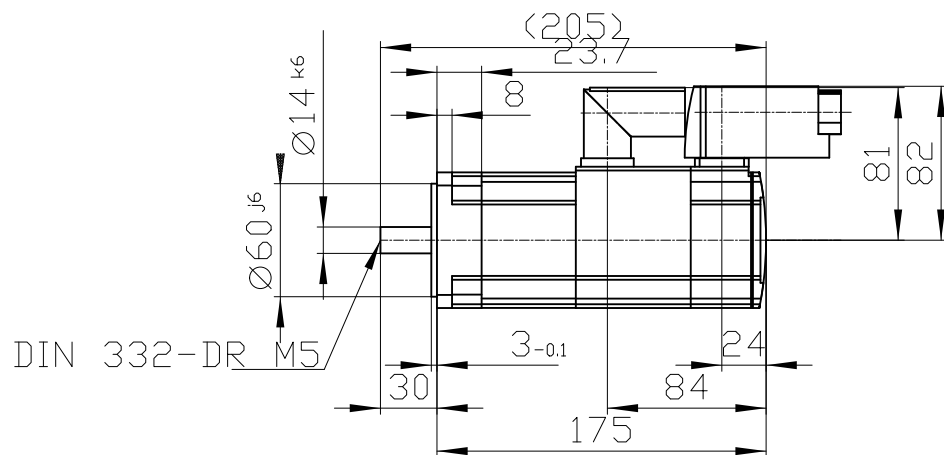
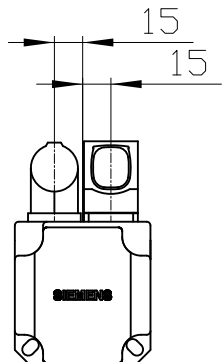
MLFB-Ordering data 1FK7032-5AK71-1PH0

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

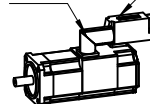
Engineering data		Mechanical data	
Rated speed (100 K)	6000 rpm	Motor type	Permanent-magnet synchronous motor
Number of poles	6	Motor type	Compact
Rated torque (100 K)	0.8 Nm	Shaft height	36
Rated current	1.4 A	Cooling	Natural cooling
Static torque (60 K)	0.85 Nm	Radial runout tolerance	0.035 mm
Static torque (100 K)	1.10 Nm	Concentricity tolerance	0.08 mm
Stall current (60 K)	1.40 A	Axial runout tolerance	0.08 mm
Stall current (100 K)	1.70 A	Vibration severity grade	Grade A
Moment of inertia	0.690 kgcm²	Connector size	1
Efficiency	88.0 %	Degree of protection	IP64
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	0.67 Nm/A	Temperature monitoring	KTY84 temperature sensor in the stator winding
Voltage constant at 20° C	45.0 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
Winding resistance at 20° C	5.20 Ω	Color of the housing	without
Rotating field inductance	18.5 mH	Holding brake	with holding brake
Electrical time constant	3.60 ms	Shaft end	Plain shaft
Mechanical time constant	2.20 ms	Encoder system	Resolver R14DQ: resolver 14 bits (resolution 16384, internal 2-pole)
Thermal time constant	25 min		
Shaft torsional stiffness	6500 Nm/rad		
Net weight of the motor	3.0 kg		

MLFB-Ordering data 1FK7032-5AK71-1PH0

Optimum operating point		Recommended Motor Module	
Optimum speed	6000 rpm	Rated inverter current	3 A
Optimum power	0.5 kW	Maximum inverter current	6 A
Limiting data		Maximum torque	3.90 Nm
Max. permissible speed (mech.)	10000 rpm		
Max. permissible speed (inverter)	12800 rpm		
Maximum torque	4.5 Nm		
Maximum current	7.0 A		
Holding brake			
Holding brake version	Permanent-magnet brake		
Holding torque	1.9 Nm		
Power supply voltage	DC 24 V ± 10 %		
Coil current	0.3 A		
Opening time	50 ms		
Closing time	30 ms		
Highest braking work	40 J		



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



10-pole RJ45 socket

	Unit	mm [in]	1FK7032-5AK71-1PH0
	Date	12/29/22	
SIEMENS AG			
		DT	

Confie a titre de secret d'entreprise. Tous droits réservés.
Confidado como secreto industrial. Nos reservados 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. Zuwiderhandlungen verpflichten
zu Schadenersatz. Alle Rechte vorbehalten, insbesondere fuer
den Fall der Patenterteilung oder der Eintragung.

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