

MLFB-Ordering data1FK7034-5AK71-1SB0

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)	1.0 Nm	Shaft height	36
Rated current	1.3 A	Cooling	Natural cooling
Static torque (60 K)	1.35 Nm	Radial runout tolerance	0.035 mm
Static torque (100 K)	1.60 Nm	Concentricity tolerance	0.08 mm
Stall current (60 K)	1.60 A	Axial runout tolerance	0.08 mm
Stall current (100 K)	1.90 A	Vibration severity grade	Grade A
Moment of inertia	0.980 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	0.86 Nm/A	Temperature monitoring	KTY84 temperature sensor in the stator winding
Voltage constant at 20° C	55.0 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
Winding resistance at 20° C	4.50 Ω	Color of the housing	without
Rotating field inductance	16.5 mH	Holding brake	with holding brake
Electrical time constant	3.70 ms	Shaft end	Feather key
Mechanical time constant	1.60 ms	Encoder system	Multi-pole resolver (number of pole pairs corresponds to number of pole pairs of the motor)
Thermal time constant	30 min		
Shaft torsional stiffness	5500 Nm/rad		
Net weight of the motor	4.0 kg		

MLFB-Ordering data 1FK7034-5AK71-1SB0

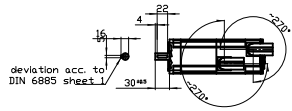
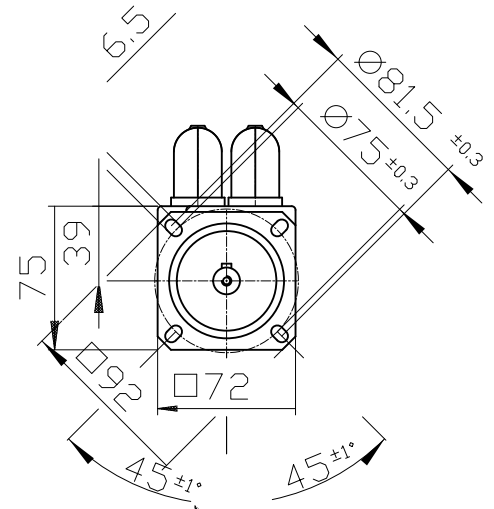
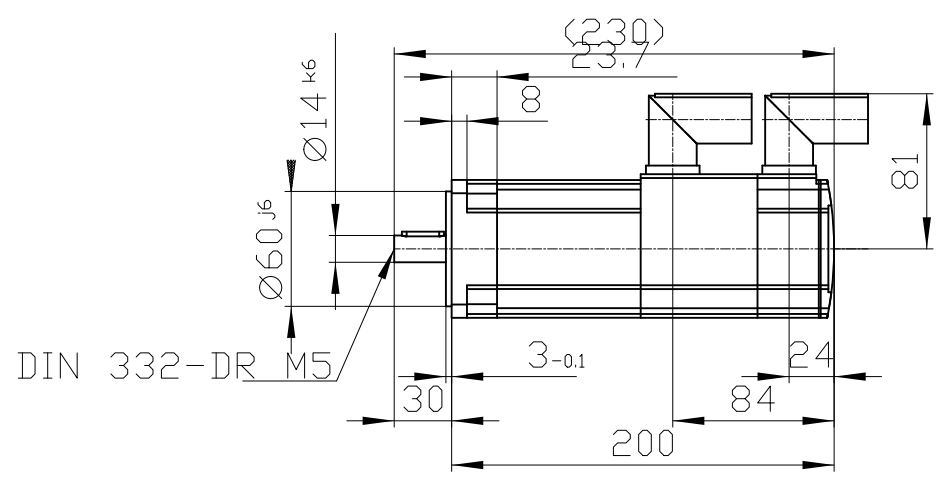
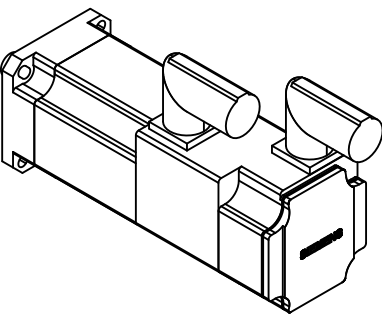
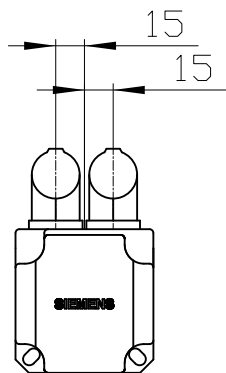
Optimum operating point		Recommended Motor Module	
Optimum speed	6000 rpm	Rated inverter current	3 A
Optimum power	0.6 kW	Maximum inverter current	6 A
Limiting data		Maximum torque	4.90 Nm
Max. permissible speed (mech.)	10000 rpm		
Max. permissible speed (inverter)	10500 rpm		
Maximum torque	6.5 Nm		
Maximum current	8.0 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		

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

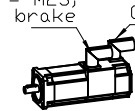
The reproduction or use of this document or its contents is not permitted without express written authority. Offenders will be liable for damages. All rights, including rights created by patent grant or registration of a utility model or design, are reserved.

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.

Confie a titre de secret d'entreprise. Tous droits reserves. Confiado como secreto industrial. No reservados todos los derechos. Comunicado como segredo empresarial. Reservados todos os direitos.



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



Connector size M23, 12-pole

Unit	mm [in]	1FK7034-5AK71-1SB0	
Date	2/23/23		
SIEMENS AG			
		DT	