



Figure similar

MLFB-Ordering data 1FK7022-5AK71-1VH0

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)	0.6 Nm	Shaft height	28
Rated current	1.4 A	Cooling	Natural cooling
Static torque (60 K)	0.70 Nm	Radial runout tolerance	0.035 mm
Static torque (100 K)	0.85 Nm	Concentricity tolerance	0.08 mm
Stall current (60 K)	1.50 A	Axial runout tolerance	0.08 mm
Stall current (100 K)	1.80 A	Vibration severity grade	Grade A
Moment of inertia	0.350 kgcm²	Connector size	1
Efficiency	86.0 %	Degree of protection	IP64
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	0.46 Nm/A	Temperature monitoring	Pt1000 temperature sensor
Voltage constant at 20° C	29.0 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
Winding resistance at 20° C	4.20 Ω	Color of the housing	without
Rotating field inductance	9.1 mH	Holding brake	with holding brake
Electrical time constant	2.20 ms	Shaft end	Plain shaft
Mechanical time constant	1.70 ms	Encoder system	Encoder AM15DQ: absolute encoder 15 bits (resolution 32768, encoder-internal 16 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)
Thermal time constant	18 min		
Shaft torsional stiffness	3000 Nm/rad		
Net weight of the motor	2.0 kg		



Figure similar

MLFB-Ordering data 1FK7022-5AK71-1VH0

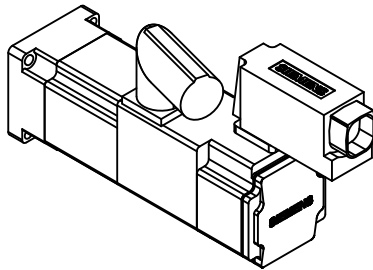
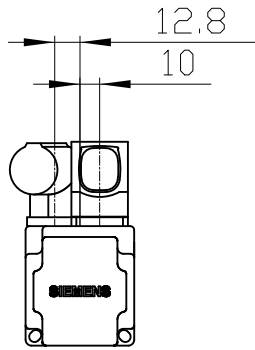
Optimum operating point		Recommended Motor Module	
Optimum speed	6000 rpm	Rated inverter current	3 A
Optimum power	0.4 kW	Maximum inverter current	6 A
Limiting data		Maximum torque	2.65 Nm
Max. permissible speed (mech.)	10000 rpm		
Max. permissible speed (inverter)	10000 rpm		
Maximum torque	3.4 Nm		
Maximum current	8.0 A		
Holding brake			
Holding brake version	Permanent-magnet brake		
Holding torque	1.0 Nm		
Power supply voltage	DC 24 V ± 10 %		
Coil current	0.3 A		
Opening time	30 ms		
Closing time	20 ms		
Highest braking work	8 J		

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

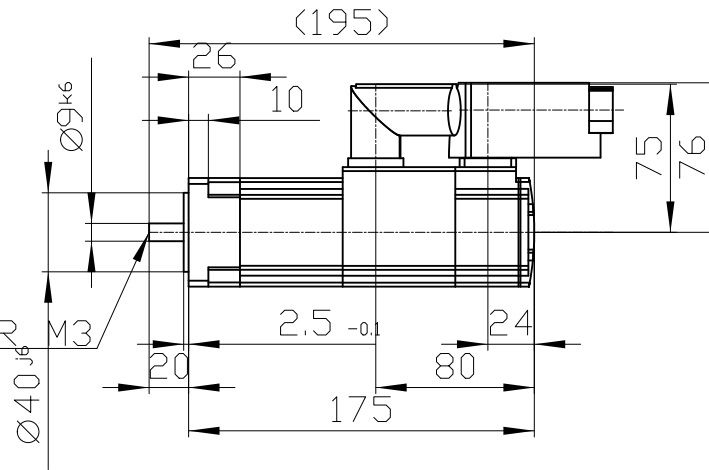
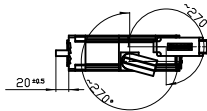
The reproduction or use of this document or its
contents is not permitted without express written authority.
Defenders will be liable for damages. All rights, including rights
created by patent grant or registration of a utility model or design,
are reserved.

Weitergabe sowie Vervielfältigung dieser Unterlage, Verwen-
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 GK-Entragung.

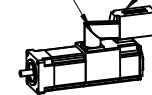
Confide a titre de secret d'entreprise. Tous droits reserves.
Confido como secreto Industrial. Nos reservamos todos los derechos
Comunicado como segredo empresarial. Reservados todos os direitos



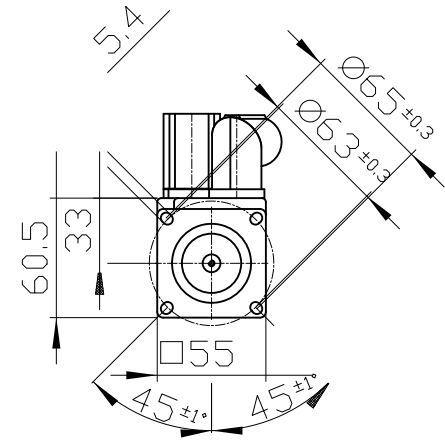
DIN 332-DR



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



10-pole RJ45 socket



	-	
	-	
Unit	mm [in]	1FK7022-5AK71-1VH0
Date	7/31/23	
SIEMENS AG		-
-		DT