



Figure similar

MLFB-Ordering data 1FK7011-5AK74-1JA3

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	8	Motor type	Compact
Rated torque (100 K)	0.1 Nm	Shaft height	20
Rated current	0.8 A	Cooling	Natural cooling
Static torque (60 K)	0.15 Nm	Radial runout tolerance	-/-
Static torque (100 K)	0.18 Nm	Concentricity tolerance	-/-
Stall current (60 K)	1.20 A	Axial runout tolerance	-/-
Stall current (100 K)	1.50 A	Vibration severity grade	Grade A
Moment of inertia	0.064 kgcm²	Connector size	0.5
Efficiency	62.0 %	Degree of protection	IP54
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	0.12 Nm/A	Temperature monitoring	Pt1000 temperature sensor
Voltage constant at 20° C	8.0 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
Winding resistance at 20° C	3.00 Ω	Color of the housing	Standard (Anthracite RAL 7016)
Rotating field inductance	4.2 mH	Holding brake	without holding brake
Electrical time constant	1.40 ms	Shaft end	Feather key
Mechanical time constant	4.00 ms	Encoder system	Encoder AM16S/R: absolute encoder 16 S/R, 4096 revolutions multi-turn, with EnDat interface
Thermal time constant	14 min		
Shaft torsional stiffness	1400 Nm/rad		
Net weight of the motor	0.9 kg		



Figure similar

MLFB-Ordering data 1FK7011-5AK74-1JA3

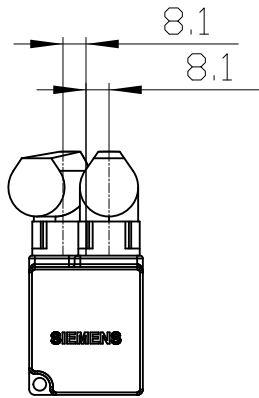
Optimum operating point		Recommended Motor Module	
Optimum speed	5000 rpm	Rated inverter current	3 A
Optimum power	0.1 kW	Maximum inverter current	6 A
Limiting data		Maximum torque	0.50 Nm
Max. permissible speed (mech.)	8000 rpm		
Max. permissible speed (inverter)	8000 rpm		
Maximum torque	0.5 Nm		
Maximum current	4.2 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

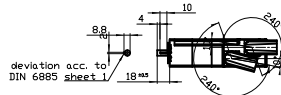
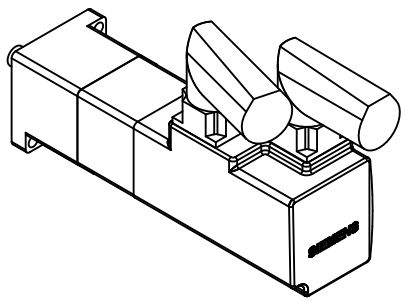
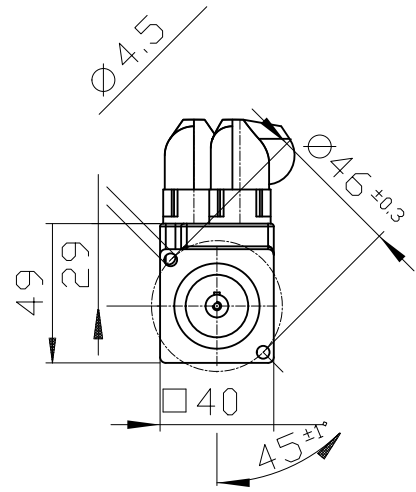
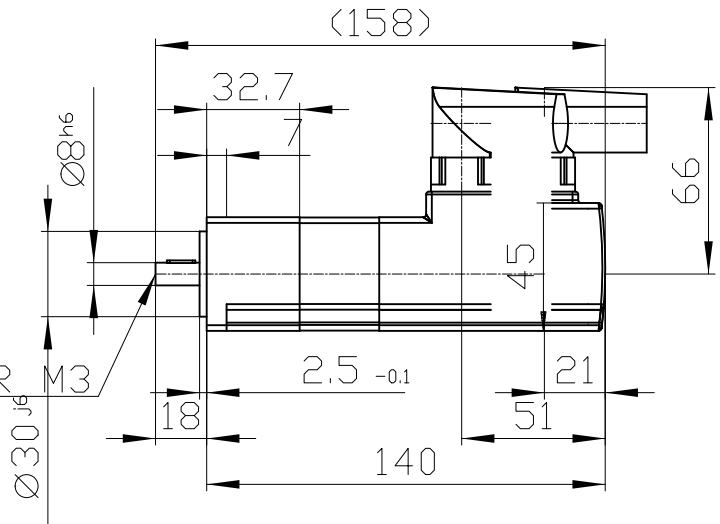
Weitergabe sowie Vervielfältigung dieser Unterlage. Verwertung und Mitteilung ihres Inhalts nicht gestattet, soweit nicht ausdrücklich zugestanden. Zuwiderhandlungen verpflichten zu Schadenersatz. Alle Rechte vorbehalten, insbesondere fuer den Fall der Patenterteilung oder GK-Entragung.

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

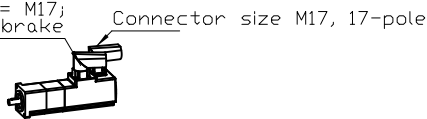


DIN 332-DR



deviation acc. to
DIN 6885 sheet 1

Connector size 0,5 = M17;
7-pole for power and brake



Connector size M17, 17-pole

	-	
	-	
Unit	mm [in]	1FK7011-5AK74-1JA3
Date	7/31/23	
SIEMENS AG		-
-		DT