



MLFB-Ordering data 1FK7084-2AF74-1EH0

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)	10.0 Nm	Shaft height	80
Rated current	6.5 A	Cooling	Natural cooling
Static torque (60 K)	16.60 Nm	Radial runout tolerance	0.050 mm
Static torque (100 K)	20.00 Nm	Concentricity tolerance	0.10 mm
Stall current (60 K)	9.80 A	Axial runout tolerance	0.10 mm
Stall current (100 K)	12.10 A	Vibration severity grade	Grade A
Moment of inertia	35.500 kgcm ²	Connector size	1
Efficiency	93.0 %	Degree of protection	IP64
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	1.66 Nm/A	Temperature monitoring	Pt1000 temperature sensor
Voltage constant at 20° C	106.5 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
Winding resistance at 20° C	0.28 Ω	Color of the housing	Standard (Anthracite RAL 7016)
Rotating field inductance	5.9 mH	Holding brake	with holding brake
Electrical time constant	21.00 ms	Shaft end	Plain shaft
Mechanical time constant	1.01 ms	Encoder system	Encoder AM2048S/R: absolute encoder 2048 S/R, 4096 revolutions multi-turn, with EnDat interface
Thermal time constant	55 min		
Shaft torsional stiffness	68000 Nm/rad		
Net weight of the motor	21.5 kg		



MLFB-Ordering data 1FK7084-2AF74-1EH0

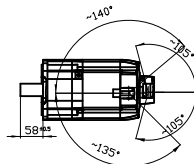
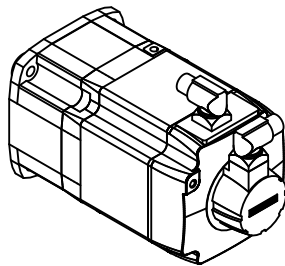
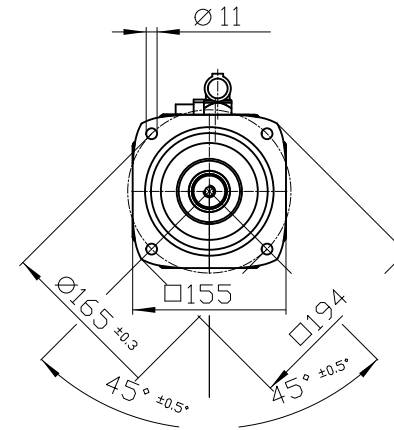
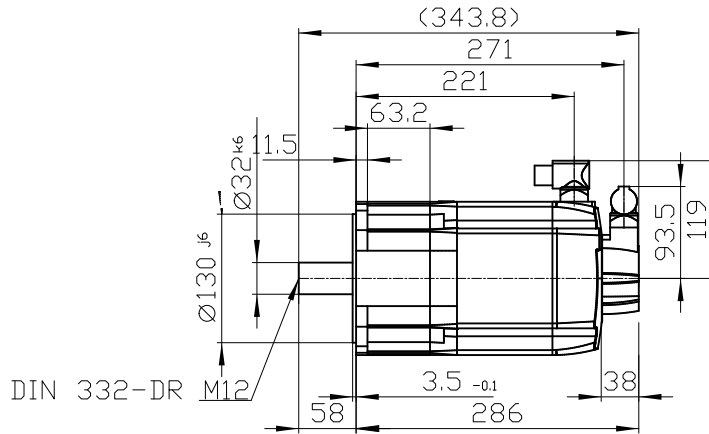
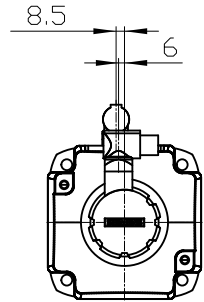
Optimum operating point		Recommended Motor Module	
Optimum speed	2500 rpm	Rated inverter current	18 A
Optimum power	3.2 kW	Maximum inverter current	54 A
Limiting data		Maximum torque	61.00 Nm
Max. permissible speed (mech.)	6000 rpm		
Max. permissible speed (inverter)	5400 rpm		
Maximum torque	61.0 Nm		
Maximum current	41.0 A		
Holding brake			
Holding brake version	Permanent-magnet brake		
Holding torque	22.0 Nm		
Power supply voltage	DC 24 V ± 10 %		
Coil current	0.9 A		
Opening time	200 ms		
Closing time	60 ms		
Highest braking work	1400 J		

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

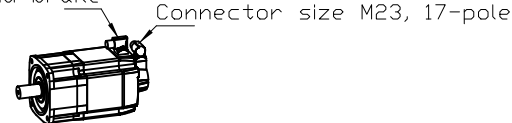
Weitergabe sowie Vervielfältigung dieser Unterlage. Verwer-
tung und Mitteilung ihres Inhalts nicht gestattet, soweit nicht
ausdrücklich zugestanden. Zuwiderhandlungen verpflichten
zu Schadenersatz. Alle Rechte vorbehalten, insbesondere fuer
den Fall der Patenterteilung oder GK-Entragung.

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



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



	-	
	-	
Unit	mm [in]	1FK7084-2AF74-1EH0
Date	7/12/23	
SIEMENS AG		-
-		DT