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Data sheet for SIMOTICS S-1FK7 servo geared motor

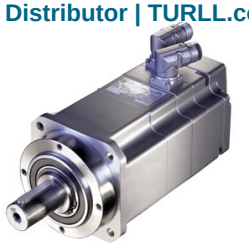

Figure similar

Article No. : 1FK7060-2AF71-1BH1-Z
J13

Client order no. :
Order no. :
Offer no. :
Remarks :

Item no. :
Consignment no. :
Project :

Engineering data	
Rated speed (100 K)	3,000 rpm
Number of poles	8
Rated torque (100 K)	4.7 Nm
Rated current	3.7 A
Static torque (60 K)	5.00 Nm
Static torque (100 K)	6.00 Nm
Stall current (60 K)	3.60 A
Stall current (100 K)	4.45 A
Moment of inertia	10.770 kgcm²

Physical constants	
Torque constant	1.33 Nm/A
Voltage constant at 20° C	85.5 V/1000*min⁻¹
Winding resistance at 20° C	1.35 Ω
Rotating field inductance	15.2 mH
Electrical time constant	11.30 ms
Mechanical time constant	1.71 ms
Thermal time constant	30 min
Shaft torsional stiffness	28,500 Nm/rad
Net weight of the motor	16.4 kg

Recommended Motor Module	
Rated inverter current	5 A
Maximum inverter current	15 A
Maximum torque	18.00 Nm

Mechanical data	
Motor type	Permanent-magnet synchronous motor
Motor type	Compact
Shaft height	63
Cooling	Natural cooling
Radial runout tolerance	0.040 mm
Concentricity tolerance	0.10 mm
Axial runout tolerance	0.10 mm
Vibration severity grade	Grade A
Connector size	1
Degree of protection	IP65
Design acc. to Code I	IM B5 (IM V1, IM V3)
Temperature monitoring	Pt1000 temperature sensor
Electrical connectors	Connectors for signals and power rotatable
Color of the housing	Standard (Anthracite RAL 7016)
Holding brake	with holding brake
Shaft end	Plain shaft
Encoder system	Encoder AS24DQI: absolute encoder single-turn 24 bits

Gearbox data	
Gearbox type	Planetary gearbox SP+
Designation	SP 100S-MF2
Gearbox shaft end	With feather key
Gear ratio + steps	20 (2-step)
Motor speed S3-60 %	6,500 rpm
Motor speed S1	3,100 rpm
Output torque S1	259 Nm
Rated output torque at duty type S3-60 %	347 Nm
Moment of inertia of gearbox	2.070 kgcm²
Radial output shaft loading, max.	6,600 N
Axial output shaft load, max.	5,650 N
Efficiency of gearbox	0.94
Torsional backlash	5 ′
Gearbox weight	7.90 kg

Limiting data	
Max. permissible speed (mech.)	7,200 rpm
Max. permissible speed (inverter)	6,700 rpm
Maximum torque	18.0 Nm
Maximum current	15.0 A

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Technical data are subject to change! There may be discrepancies ... Generated: Fri, 08 Sep 2023 06:41:41 CEST

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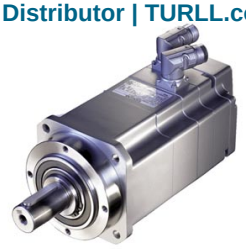

Figure similar

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Holding brake	
Holding brake version	Permanent-magnet brake
Holding torque	13.0 Nm
Power supply voltage	DC 24 V ± 10 %
Coil current	0.8 A
Opening time	100 ms
Closing time	50 ms
Highest braking work	380 J

Special design

J13 Mounting of SP+ planetary gearbox

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