

Data sheet for SIMOTICS S-1FK7 servo geared motor

Article No. : 1FK7061-4CF71-1QG1-Z
J36

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

Item no. :
Consignment no. :
Project :



Figure similar

Engineering data	
Rated speed (100 K)	3,000 rpm
Number of poles	6
Rated torque (100 K)	5.4 Nm
Rated current	5.3 A
Static torque (60 K)	5.30 Nm
Static torque (100 K)	6.40 Nm
Stall current (60 K)	4.95 A
Stall current (100 K)	6.10 A
Moment of inertia	6.200 kgcm ²

Physical constants	
Torque constant	1.05 Nm/A
Voltage constant at 20° C	67.5 V/1000*min ⁻¹
Winding resistance at 20° C	0.71 Ω
Rotating field inductance	22.0 mH
Electrical time constant	31.00 ms
Mechanical time constant	0.79 ms
Thermal time constant	45 min
Shaft torsional stiffness	36,500 Nm/rad
Net weight of the motor	26.5 kg

Recommended Motor Module	
Rated inverter current	9 A
Maximum inverter current	27 A
Maximum torque	17.30 Nm

Mechanical data	
Motor type	Permanent-magnet synchronous motor
Motor type	High Dynamic
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	without holding brake
Shaft end	Plain shaft
Encoder system	Encoder AS20DQI: absolute encoder single-turn 20 bits

Gearbox data	
Gearbox type	Planetary gearbox SP+
Designation	SP 140S-MF2
Gearbox shaft end	Without feather key
Gear ratio + steps	40 (2-step)
Motor speed S3-60 %	6,000 rpm
Motor speed S1	2,900 rpm
Output torque S1	581 Nm
Rated output torque at duty type S3-60 %	726 Nm
Moment of inertia of gearbox	2.100 kgcm ²
Radial output shaft loading, max.	9,900 N
Axial output shaft load, max.	9,870 N
Efficiency of gearbox	0.94
Torsional backlash	5 '
Gearbox weight	17.00 kg

Limiting data	
Max. permissible speed (mech.)	7,500 rpm
Max. permissible speed (inverter)	7,500 rpm
Maximum torque	17.3 Nm
Maximum current	18.5 A

Special design	
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J36 Mounting of SP+ planetary gearbox

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