

Data sheet for SIMOTICS S-1FT7



Figure similar

MLFB-Ordering data

1FT7084-5AH71-1BG1-Z
J09

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data		Mechanical data																					
Rated speed	4500 rpm	Motor type	Permanent-magnet synchronous motor																				
Number of poles	10	Design of the motor type	Compact																				
Rated torque (100 K)	9.5 Nm	Shaft height	80 mm																				
Rated current	7.8 A	Cooling	Natural cooling																				
Static torque (60 K)	16.80 Nm	Radial runout tolerance	N																				
Static torque (100 K)	20.0 Nm	Vibration severity grade	Grade A																				
Stall current (60 K)	13.4 A	Connector size	1.5																				
Stall current (100 K)	15.6 A	Degree of protection	IP65																				
Rotor moment of inertia	0.0053540 kgm ²	Design acc. to Code I	IM B5 (compatible with 1FT6)																				
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Net weight of the motor	20.8 kg																						
		Electrical connectors	Connector turnable																				
		Color of the housing																					
		Holding brake version	no value																				
		Shaft end type	Plain shaft																				
		Sensor design	Encoder AS24DQI: Absolut encoder Singleturn 24 bit - with signal connection RJ45																				
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Gearbox data

Gearbox type	Planetary gearbox	Moment of inertia of gearbox	0.0008440 kgm ²
Designation	SP 140S-MF1	Radial output shaft loading, max.	9450 N
Gearbox ratio	10	Axial output shaft load, max.	9870 N
Motor speed S3-60 %	4000 rpm	Efficiency of gearbox	0.97
Motor speed S1	2600 rpm	Torsional backlash	3 '
Output torque S1	220 Nm	Gearbox weight	17.20 kg
Rated output torque at duty type S3-60 %	480 Nm		

Limiting data

Max. permissible speed (mech.)	8000 rpm
Max. permissible speed (inverter)	7200 rpm
Maximum torque	81.0 Nm
Maximum current	80.0 A

Special design

J09 Mounting of SP+ planetary gearbox