

Data sheet for SIMOTICS S-1FT7



Figure similar

MLFB-Ordering data

1FT7064-1AF70-1CG1

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

Item no. :
Consignment no. :
Project :

Engineering data		Mechanical data	
Rated speed	3000 rpm	Motor type	Permanent-magnet synchronous motor
Number of poles	10	Design of the motor type	Compact core type
Rated torque (100 K)	7.6 Nm	Shaft height	63 mm
Rated current	5.2 A	Cooling	Natural cooling
Static torque (60 K)	7.70 Nm	Radial runout tolerance	N
Static torque (100 K)	9.0 Nm	Vibration severity grade	Grade A
Stall current (60 K)	4.7 A	Degree of protection	IP65
Stall current (100 K)	5.7 A	Design acc. to Code I	IM B5 (new flange design)
Rotor moment of inertia	0.0011900 kgm ²	Temperature monitoring	Pt1000 temperature sensor
Efficiency	93.0 %	Color of the housing	Pearl dark grey RAL 9023
Physical constants		Holding brake version	no value
Torque constant	1.58 Nm/A	Shaft end type	Plain shaft
Voltage constant at 20° C	100.0 V/1000*min ⁻¹	Sensor design	Encoder AM24DQI: Absolute encoder 24 bit (resolution 16777216, encoder-internal 2048 S/R) + 12 bit Multiturn (traversing range 4096 revolutions) - with signal connection RJ45
Winding resistance at 20° C	0.90 Ω	Electrical connectors	Connector turnable
Rotating field inductance	10.0 mH	Connector size	1
Electrical time constant	11.10 ms		
Mechanical time constant	1.30 ms		
Thermal time constant	30 min		
Shaft torsional stiffness	26000 Nm/rad		
Net weight of the motor	9.7 kg		

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Optimum operating point		Recommended Motor Module	
Optimum speed	3000 rpm	Rated inverter current	9 A
Optimum power	2.4 kW	Maximum inverter current	18 A

Limiting data	
Max. permissible speed (mech.)	9000 rpm
Max. permissible speed (inverter)	5700 rpm
Maximum torque	36.0 Nm
Maximum current	29.0 A