

## Data sheet for SIMOTICS S-1FT7

MLFB-Ordering data

1FT7062-1AF71-1DG1



Figure similar

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)	5.4 Nm	Shaft height	63 mm
Rated current	3.9 A	Cooling	Natural cooling
Static torque (60 K)	5.00 Nm	Radial runout tolerance	N
Static torque (100 K)	6.0 Nm	Vibration severity grade	Grade A
Stall current (60 K)	3.2 A	Degree of protection	IP65
Stall current (100 K)	3.9 A	Design acc. to Code I	IM B5 (compatible with 1FT6)
Rotor moment of inertia	0.0007360 kgm <sup>2</sup>	Temperature monitoring	Pt1000 temperature sensor
Efficiency	91.0 %	Color of the housing	
Physical constants		Holding brake version	no value
Torque constant	1.54 Nm/A	Shaft end type	Plain shaft
Voltage constant at 20° C	95.0 V/1000*min <sup>-1</sup>	Sensor design	Encoder IC22DQ: incremental encoder 22 bits (resolution 4194304, encoder-internal 2048 S/R) + commutation position 11 bits
Winding resistance at 20° C	1.57 Ω	Electrical connectors	Connector turnable
Rotating field inductance	15.2 mH	Connector size	1
Electrical time constant	9.70 ms		
Mechanical time constant	1.50 ms		
Thermal time constant	25 min		
Shaft torsional stiffness	28000 Nm/rad		
Net weight of the motor	7.1 kg		

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Optimum operating point		Recommended Motor Module	
Optimum speed	3000 rpm	Rated inverter current	5 A
Optimum power	1.7 kW	Maximum inverter current	10 A

  

Limiting data	
Max. permissible speed (mech.)	9000 rpm
Max. permissible speed (inverter)	6100 rpm
Maximum torque	24.0 Nm
Maximum current	22.0 A