

## Data sheet for SIMOTICS S-1FT7



Figure similar

MLFB-Ordering data

1FT7064-5AF71-1DH0

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
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)	4.9 A	Degree of protection	IP64
Stall current (100 K)	5.7 A	Design acc. to Code I	IM B5 (compatible with 1FT6)
Rotor moment of inertia	0.0014700 kgm <sup>2</sup>	Temperature monitoring	Pt1000 temperature sensor
Efficiency	93.0 %	Color of the housing	Standard (pearl dark gray similar to RAL 9023)
<b>Physical constants</b>		Holding brake version	Permanent-magnet brake
Torque constant	1.57 Nm/A	Shaft end type	Plain shaft
Voltage constant at 20° C	100.0 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	0.92 Ω	Electrical connectors	Connector turnable
Rotating field inductance	10.0 mH	Connector size	1
Electrical time constant	11.00 ms		
Mechanical time constant	1.30 ms		
Thermal time constant	30 min		
Shaft torsional stiffness	26000 Nm/rad		
Net weight of the motor	11.4 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	27 A
Limiting data		Maximum torque	34.70 Nm
Max. permissible speed (mech.)	9000 rpm		
Max. permissible speed (inverter)	5700 rpm		
Maximum torque	36.0 Nm		
Maximum current	29.0 A		