

## Data sheet for SIMOTICS S-1FT7

MLFB-Ordering data

1FT7132-5SF71-3BG1



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	8	Design of the motor type	Compact
Rated torque (100 K)	113.0 Nm	Shaft height	132 mm
Rated current	69.0 A	Cooling	Forced ventilation
Static torque (60 K)	120.00 Nm	Radial runout tolerance	N
Static torque (100 K)	140.0 Nm	Vibration severity grade	Grade A
Stall current (60 K)	72.0 A	Degree of protection	IP65
Stall current (100 K)	85.0 A	Design acc. to Code I	IM B5 (compatible with 1FT6)
Rotor moment of inertia	0.0459000 kgm <sup>2</sup>	Temperature monitoring	Pt1000 temperature sensor
Efficiency	95.0 %	Color of the housing	
Physical constants		Holding brake version	no value
Torque constant	1.69 Nm/A	Shaft end type	Plain shaft
Voltage constant at 20° C	116.0 V/1000*min <sup>-1</sup>	Sensor design	Encoder AS24DQI: Absolut encoder Singleturn 24 bit - with signal connection RJ45
Winding resistance at 20° C	0.04 Ω	Electrical connectors	Axial NDE
Rotating field inductance	1.2 mH	Connector size	3
Electrical time constant	28.00 ms		
Mechanical time constant	2.10 ms		
Thermal time constant	20 min		
Shaft torsional stiffness	231000 Nm/rad		
Net weight of the motor	81.0 kg		

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Optimum operating point		Recommended Motor Module	
Optimum speed	3000 rpm	Rated inverter current	85 A
Optimum power	35.5 kW	Maximum inverter current	141 A
<b>Limiting data</b>		Maximum torque	220.00 Nm
Max. permissible speed (mech.)	3600 rpm		
Max. permissible speed (inverter)	3600 rpm		
Maximum torque	305.0 Nm		
Maximum current	210.0 A		