

Data sheet for SIMOTICS S-1FT7

MLFB-Ordering data

1FT7134-5SC74-1MG0



Figure similar

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

Item no. :
Consignment no. :
Project :

Engineering data		Mechanical data	
Rated speed	2000 rpm	Motor type	Permanent-magnet synchronous motor
Number of poles	8	Design of the motor type	Compact
Rated torque (100 K)	160.0 Nm	Shaft height	132 mm
Rated current	73.0 A	Cooling	Forced ventilation
Static torque (60 K)	160.00 Nm	Radial runout tolerance	N
Static torque (100 K)	190.0 Nm	Vibration severity grade	Grade A
Stall current (60 K)	70.0 A	Degree of protection	IP64
Stall current (100 K)	85.0 A	Design acc. to Code I	IM B5 (compatible with 1FT6)
Rotor moment of inertia	0.0604000 kgm ²	Temperature monitoring	Pt1000 temperature sensor
Efficiency	95.0 %	Color of the housing	Standard (pearl dark gray similar to RAL 9023)
Physical constants		Holding brake version	no value
Torque constant	2.25 Nm/A	Shaft end type	Plain shaft
Voltage constant at 20° C	154.0 V/1000*min ⁻¹	Sensor design	Encoder AM2048S/R: absolute encoder 2048 S/R, 4096 revolutions multi-turn, with EnDat interface
Winding resistance at 20° C	0.05 Ω	Electrical connectors	Transverse facing to right site
Rotating field inductance	1.6 mH	Connector size	3
Electrical time constant	32.00 ms		
Mechanical time constant	1.80 ms		
Thermal time constant	22 min		
Shaft torsional stiffness	220000 Nm/rad		
Net weight of the motor	97.0 kg		

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Optimum operating point		Recommended Motor Module	
Optimum speed	2000 rpm	Rated inverter current	85 A
Optimum power	33.5 kW	Maximum inverter current	141 A
Limiting data		Maximum torque	300.00 Nm
Max. permissible speed (mech.)	3600 rpm		
Max. permissible speed (inverter)	3600 rpm		
Maximum torque	410.0 Nm		
Maximum current	210.0 A		