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Error:
No CAD-Data available for this configuration.

Data sheet for SIMOTICS S-1FT7

Article No. : 1FT7065-7SF70-1BA0

Figure similar

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

Item no. :
Consignment no. :
Project :

Engineering data	
Rated speed	3,000 rpm
Number of poles	6
Rated torque (100 K)	12.0 Nm
Rated current	10.50 A
Static torque (60 K)	11.0 Nm
Static torque (100 K)	14.0 Nm
Stall current (60 K)	9.50 A
Stall current (100 K)	12.00 A
Rotor moment of inertia	6.40 kgcm²
Efficiency	92.0 %

Physical constants	
Torque constant	1.17 Nm/A
Voltage constant at 20° C	75.0 V/1000*min^{-1}
Winding resistance at 20° C	0.45 Ω
Rotary field inductance	8.2 mH
Electrical time constant	18.00 ms
Mechanical time constant	0.60 ms
Thermal time constant	20 min
Shaft torsional stiffness	27,500 Nm/rad
Net weight of the motor	19.0 kg

Mechanical data	
Motor type	Permanent-magnet synchronous motor
Motor type	High Dynamic
Shaft height	63
Cooling	Forced ventilation
Radial runout tolerance	0.040 mm
Concentricity tolerance	0.100 mm
Axial runout tolerance	0.100 mm
Vibration severity grade	Grade A
Degree of protection	IP64
Design acc. to Code I	IM B5 (new flange design)
Temperature monitoring	Pt1000 temperature sensor
Color of the housing	Standard (pearl dark gray similar to RAL 9023)
Shaft end type	Fitted key and keyway
Sensor design	Encoder AS24DQI: Absolut encoder Singleturn 24 bit - with signal connection RJ45
Safety Integrated - Suitable encoder	Yes
Electrical connection	Connector turnable
Connector size	1.5

Optimum operating point	
Optimum speed	3,000 rpm
Optimum power	3.8 kW

Limiting data	
Max. permissible speed (mech.)	9,000 rpm
Max. permissible speed (inverter)	7,700 rpm
Maximum torque	45.0 Nm
Maximum current	49.00 A

Recommended Motor Module	
Rated inverter current	18.00 A
Maximum inverter current	54.00 A
Maximum torque	45.0 Nm

Subject to change. Calculated values may differ from nameplate ratings. © Copyright Siemens