SIEMENS



Figure similar

Data sheet for SIMOTICS S-1FT7

Article No. : **1FT7062-5AF70-1BD5**

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

Item no. :
Consignment no. :
Project :

Engineering data	
Rated speed	3,000 rpm
Number of poles	10
Rated torque (100 K)	5.4 Nm
Rated current	3.90 A
Static torque (60 K)	5.0 Nm
Static torque (100 K)	6.0 Nm
Stall current (60 K)	3.40 A
Stall current (100 K)	3.90 A
Rotor moment of inertia	7.36 kgcm²
Efficiency	91.0 %

Physical constants	
Torque constant	1.49 Nm/A
Voltage constant at 20° C	94.5 V/1000*min^{-1}
Winding resistance at 20° C	1.57 Ω
Rotary field inductance	15.2 mH
Electrical time constant	10.00 ms
Mechanical time constant	1.60 ms
Thermal time constant	25 min
Shaft torsional stiffness	39,500 Nm/rad
Net weight of the motor	7.1 kg

Mechanical data	
Motor type	Permanent-magnet synchronous motor
Motor type	Compact
Shaft height	63
Cooling	Natural cooling
Radial runout tolerance	0.021 mm
Concentricity tolerance	0.050 mm
Axial runout tolerance	0.050 mm
Vibration severity grade	Grade R
Degree of protection	IP67
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

Optimum operating point	
Optimum speed	3,000 rpm
Optimum power	1.7 kW

Limiting data	
Max. permissible speed (mech.)	9,000 rpm
Max. permissible speed (inverter)	6,100 rpm
Maximum torque	24.0 Nm
Maximum current	22.00 A

Recommended Motor Module	
Rated inverter current	5.00 A
Maximum inverter current	15.00 A
Maximum torque	18.7 Nm

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