SIEMENS

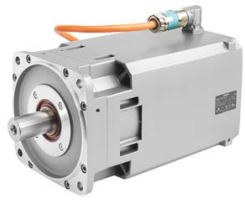

Figure similar

Data sheet for SIMOTICS S-1FT7

Article No. : 1FT7132-5AC71-1CH1

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

Item no. :
Consignment no. :
Project :

Engineering data	
Rated speed	2,000 rpm
Number of poles	8
Rated torque (100 K)	55.0 Nm
Rated current	18.70 A
Static torque (60 K)	75.0 Nm
Static torque (100 K)	90.0 Nm
Stall current (60 K)	24.50 A
Stall current (100 K)	29.50 A
Rotor moment of inertia	512.00 kgcm²
Efficiency	94.0 %

Physical constants	
Torque constant	3.07 Nm/A
Voltage constant at 20° C	202.0 V/1000*min^{-1}
Winding resistance at 20° C	0.14 Ω
Rotary field inductance	4.3 mH
Electrical time constant	32.00 ms
Mechanical time constant	2.00 ms
Thermal time constant	75 min
Shaft torsional stiffness	231,000 Nm/rad
Net weight of the motor	87.0 kg

Mechanical data	
Motor type	Permanent-magnet synchronous motor
Motor type	Compact
Shaft height	132
Cooling	Natural cooling
Radial runout tolerance	0.050 mm
Concentricity tolerance	0.125 mm
Axial runout tolerance	0.125 mm
Vibration severity grade	Grade A
Degree of protection	IP65
Design acc. to Code I	IM B5 (compatible with 1FT6)
Temperature monitoring	Pt1000 temperature sensor
Color of the housing	Standard (pearl dark gray similar to RAL 9023)
Shaft end type	Plain shaft
Sensor design	Encoder AM24DQI: Absolute encoder 24 bit (resolution 16777216, encoder-internal 2048 S/R) + 12 bit Multiturn (traversing range 4096 revolutions) - with signal connection RJ45
Electrical connection	Connector turnable
Connector size	1.5

Optimum operating point	
Optimum speed	2,000 rpm
Optimum power	11.5 kW

Limiting data	
Max. permissible speed (mech.)	3,600 rpm
Max. permissible speed (inverter)	2,850 rpm
Maximum torque	290.0 Nm
Maximum current	117.00 A

Recommended Motor Module	
Rated inverter current	30.00 A
Maximum inverter current	90.00 A
Maximum torque	235.0 Nm

Holding brake	
Holding brake version	Permanent-magnet brake
Holding torque	140.0 Nm
Braking torque	60.0 Nm
Power supply voltage	DC 24 V
Coil current	1.80 A
Permissible brake work	9,800 J
Opening time	350 ms
Closing time	70 ms

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