

Data sheet for SIMOTICS S-1FT7

MLFB-Ordering data

1FT7062-5AF70-1FA1

No image available for this configuration.

Figure similar

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

Item no. :
Consignment no. :
Project :

Engineering data	
Rated speed	3000 rpm
Number of poles	10
Rated torque (100 K)	5.4 Nm
Rated current	3.9 A
Static torque (60 K)	5.00 Nm
Static torque (100 K)	6.0 Nm
Stall current (60 K)	3.4 A
Stall current (100 K)	3.9 A
Rotor moment of inertia	0.0007360 kgm ²
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
Rotating 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	28500 Nm/rad
Net weight of the motor	7.1 kg

Mechanical data	
Motor type	Permanent-magnet synchronous motor
Design of the motor type	Compact
Shaft height	63 mm
Cooling	Natural cooling
Radial runout tolerance	N
Vibration severity grade	Grade A
Degree of protection	IP65
Design acc. to Code I	IM B5 (new flange design)
Temperature monitoring	Pt1000 temperature sensor
Color of the housing	Pearl dark grey RAL 9023
Holding brake version	no value
Shaft end type	Fitted key and keyway
Sensor design	Encoder AM22DQ: absolute encoder 22 bits (resolution 4194304, encoder-internal 2048 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)
Electrical connectors	Connector turnable
Connector size	1

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Optimum operating point		Recommended Motor Module	
Optimum speed	3000 rpm	Rated inverter current	5 A
Optimum power	1.7 kW	Maximum inverter current	15 A
Limiting data		Maximum torque	18.70 Nm
		Max. permissible speed (mech.)	9000 rpm
Max. permissible speed (inverter)	6100 rpm		
Maximum torque	24.0 Nm		
Maximum current	22.0 A		