

Data sheet for SIMOTICS S-1FT7



Figure similar

Ordering data 1FT7034-5AK71-1FA2

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

Item no. :
Consignment no. :
Project :

Engineering data		Physical constants	
Rated speed	6000 rpm	Torque constant	0.74 Nm/A
Number of poles	6	Voltage constant at 20° C	49.0 V/1000*min ⁻¹
Rated torque (100 K)	1.4 Nm	Winding resistance at 20° C	2.40 Ω
Rated current	2.1 A	Rotating field inductance	9.7 mH
Static torque (60 K)	1.60 Nm	Electrical time constant	4.00 ms
Static torque (100 K)	2.0 Nm	Mechanical time constant	1.10 ms
Stall current (60 K)	2.2 A	Thermal time constant	25 min
Stall current (100 K)	2.7 A	Shaft torsional stiffness	3700 Nm/rad
Rotor moment of inertia	0.0000850 kgm²	Net weight of the motor	3.8 kg
Efficiency	90.0 %		

Mechanical data		Optimum operating point	
Design of the motor type	Compact	Optimum speed	6000 rpm
Shaft height	36 mm	Optimum power	0.9 kW
Sensor design	Encoder AM22DQ: absolute encoder 22 bits (resolution 4194304, encoder-internal 2048	Recommended Motor Module	
Cooling	Natural cooling		
Holding brake version	no value	Rated inverter current	3 A
Shaft end type	Fitted key and keyway	Maximum inverter current	6 A
Radial runout tolerance	N		
Vibration severity grade	Grade A		
Degree of protection	IP67		
Design acc. to Code I	IM B5 (compatible with 1FT6)		
Electrical connectors	Connector turnable		
Color of the housing	Pearl dark grey RAL 9023		
Temperature monitoring	KTY84 temperature sensor in the stator winding		