

Data sheet for SIMOTICS S-1FT7



Figure similar

Ordering data

1FT7064-5AK71-1NG1

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

Item no. :
Consignment no. :
Project :

Engineering data		Physical constants	
Rated speed	6000 rpm	Torque constant	1.00 Nm/A
Number of poles	10	Voltage constant at 20° C	64.0 V/1000*min ⁻¹
Rated torque (100 K)	2.9 Nm	Winding resistance at 20° C	0.38 Ω
Rated current	3.4 A	Rotating field inductance	4.1 mH
Static torque (60 K)	7.70 Nm	Electrical time constant	10.80 ms
Static torque (100 K)	9.0 Nm	Mechanical time constant	1.40 ms
Stall current (60 K)	7.4 A	Thermal time constant	30 min
Stall current (100 K)	9.0 A	Shaft torsional stiffness	26000 Nm/rad
Rotor moment of inertia	0.0011900 kgm ²	Net weight of the motor	9.7 kg
Efficiency	91.0 %		

Mechanical data		Optimum operating point	
Design of the motor type	Compact	Optimum speed	4500 rpm
Shaft height	63 mm	Optimum power	2.6 kW
Sensor design	Encoder IC2048S/R: incremental encoder sin/cos 1 Vpp 2048 S/R with C and D track	Recommended Motor Module	
Cooling	Natural cooling		
Holding brake version	no value	Maximum inverter current	18 A
Shaft end type	Plain shaft		
Radial runout tolerance	N		
Vibration severity grade	Grade A		
Degree of protection	IP65		
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		