SIEMENS

Data sheet for SIMOTICS S-1FK7

Article No. : **1FK7063-2AH74-1TG1**



Figure similar

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

Item no. :
Consignment no. :
Project :

Engineering data	
Rated speed (100 K)	4,500 rpm
Number of poles	8
Rated torque (100 K)	3.0 Nm
Rated current	3.8 A
Static torque (60 K)	9.10 Nm
Static torque (100 K)	11.00 Nm
Stall current (60 K)	9.70 A
Stall current (100 K)	12.00 A
Moment of inertia	14.700 kgcm²
Efficiency	90.0 %

Physical constants	
Torque constant	0.92 Nm/A
Voltage constant at 20° C	60.0 V/1000*min⁻¹
Winding resistance at 20° C	0.29 Ω
Rotating field inductance	3.8 mH
Electrical time constant	13.20 ms
Mechanical time constant	1.51 ms
Thermal time constant	40 min
Shaft torsional stiffness	34,000 Nm/rad
Net weight of the motor	11.1 kg

Mechanical data	
Motor type	Permanent-magnet synchronous motor
Motor type	Compact
Shaft height	63
Cooling	Natural cooling
Radial runout tolerance	0.040 mm
Concentricity tolerance	0.10 mm
Axial runout tolerance	0.10 mm
Vibration severity grade	Grade A
Connector size	M23
Degree of protection	IP65
Design acc. to Code I	IM B5 (IM V1, IM V3)
Temperature monitoring	Pt1000 temperature sensor
Electrical connectors	Connectors for signals and power rotatable
Color of the housing	Standard (Anthracite RAL 7016)
Holding brake	without holding brake
Shaft end	Plain shaft
Encoder system	Resolver 2-pole

Optimum operating point	
Optimum speed	3,300 rpm
Optimum power	2.3 kW

Limiting data	
Max. permissible speed (mech.)	7,200 rpm
Max. permissible speed (inverter)	7,200 rpm
Maximum torque	35.0 Nm
Maximum current	42.0 A

Recommended Motor Module	
Rated inverter current	18 A
Maximum inverter current	54 A
Maximum torque	35.00 Nm

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