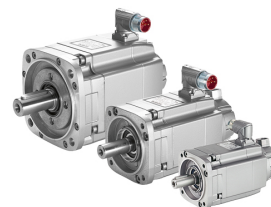


SIMOTICS S servo geared motor



Ordering data

1FK7062-2AC71-1AH1

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data		Physical constants	
Rated speed	2000 1/min	Torque constant	2.83 Nm/A
Number of poles	8	Voltage constant at 20° C	180.5 V/1000*min ⁻¹
Rated torque (100 K)	7.0 Nm	Winding resistance at 20° C	3.59 Ω
Rated motor current	2.6 A	Rotating field inductance	45.5 mH
Static torque (60 K)	7.10 Nm	Electrical time constant	12.70 ms
Static torque (100 K)	8.5 Nm	Mechanical time constant	1.51 ms
Stall current (60 K)	2.4 A	Thermal time constant	35 min
Stall current (100 K)	3.0 A	Shaft torsional stiffness	37000 Nm/rad
Rotor moment of inertia	0.0012200 kgm ²	Net weight of the motor	10.5 kg
Efficiency	90.0 %		

Mechanical data		Optimum operating point	
Motor type	Compact	Optimum speed	2000 1/min
Shaft height	63 mm	Optimum power	1.3 kW
Encoder system	Encoder IC2048S/R: incremental encoder sin/cos 1 Vpp 2048 S/R with C and D track		
Cooling	Natural cooling		
Holding brake	Permanent-magnet brake instead of spring-loaded brake (only for		
Shaft extension	Plain shaft		
Radial runout tolerance	N		
Vibration severity grade	Grade A		
Connector size	1		
Degree of protection	IP65		
Design acc. to Code I	IM B5 (IM V1, IM V3)		
Electrical connectors	Connectors for signals and power rotatable		
Color of the housing	Anthracite RAL 7016		

Recommended motor module	
Rated inverter current	3 A
Maximum inverter current	6 A
Maximum torque	17.00 Nm