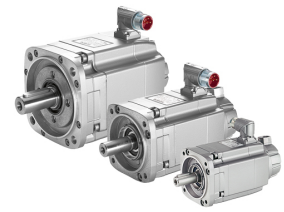


synchronous servomotor



Ordering data

1FK7032-2AK71-1QB0

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data		Physical constants	
Rated speed	6000 rpm	Torque constant	0.67 Nm/A
Number of poles	6	Voltage constant at 20° C	45.0 V/1000*min ⁻¹
Rated torque (100 K)	0.8 Nm	Winding resistance at 20° C	5.05 Ω
Rated motor current	1.4 A	Rotating field inductance	17.3 mH
Static torque (60 K)	0.95 Nm	Electrical time constant	3.45 ms
Static torque (100 K)	1.1 Nm	Mechanical time constant	2.20 ms
Stall current (60 K)	1.4 A	Thermal time constant	25 min
Stall current (100 K)	1.7 A	Shaft torsional stiffness	6000 Nm/rad
Rotor moment of inertia	0.0000750 kgm ²	Net weight of the motor	3.1 kg
Efficiency	88.0 %		
Mechanical data		Optimum operating point	
Motor type	Compact	Optimum speed	6000 rpm
Shaft height	36 mm	Optimum power	0.5 kW
Encoder system	Encoder AS20DQI: absolute encoder single-turn 20 bits		
Cooling	Natural cooling	Recommended motor module	
Holding brake	Permanent-magnet brake	Rated inverter current	3 A
Shaft extension	Fitted key and keyway	Maximum inverter current	6 A
Radial runout tolerance	N	Maximum torque	4.15 Nm
Vibration severity grade	Grade A		
Connector size	1		
Degree of protection	IP64		
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		