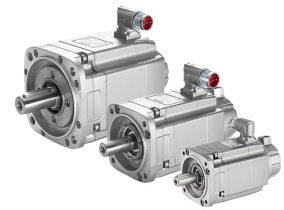


synchronous servomotor



Ordering data **1FK7040-2AK71-1QA0**

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

Item no. :
Consignment no. :
Project :

Engineering data		Physical constants	
Rated speed	6000 rpm	Torque constant	0.68 Nm/A
Number of poles	8	Voltage constant at 20° C	43.4 V/1000*min ⁻¹
Rated torque (100 K)	1.1 Nm	Winding resistance at 20° C	2.87 Ω
Rated motor current	1.7 A	Rotating field inductance	16.5 mH
Static torque (60 K)	1.30 Nm	Electrical time constant	5.70 ms
Static torque (100 K)	1.6 Nm	Mechanical time constant	3.00 ms
Stall current (60 K)	1.9 A	Thermal time constant	25 min
Stall current (100 K)	2.2 A	Shaft torsional stiffness	18700 Nm/rad
Rotor moment of inertia	0.0001600 kgm ²	Net weight of the motor	3.2 kg
Efficiency	88.0 %		
Mechanical data		Optimum operating point	
Motor type	Compact	Optimum speed	6000 rpm
Shaft height	48 mm	Optimum power	0.7 kW
Encoder system	Encoder AS20DQI: absolute encoder single-turn 20 bits	Recommended motor module	
Cooling	Natural cooling	Rated inverter current	3 A
Holding brake	no break	Maximum inverter current	6 A
Shaft extension	Fitted key and keyway	Maximum torque	4.00 Nm
Radial runout tolerance	N		
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		