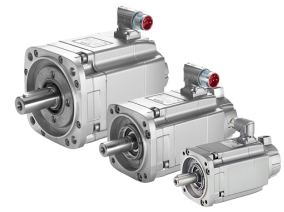


synchronous servomotor



Ordering data

1FK7032-2AK71-1QA0

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data		Physical constants	
Rated speed	6000 rpm	Torque constant	0.67 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	0.0000650 kgm ²	Net weight of the motor	2.7 kg
Efficiency	88.0 %		

Mechanical data	
Motor type	Compact
Shaft height	36 mm
Encoder system	Encoder AS20DQI: absolute encoder single-turn 20 bits
Cooling	Natural cooling
Holding brake	no break
Shaft extension	Fitted key and keyway
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

Optimum operating point	
Optimum speed	6000 rpm
Optimum power	0.5 kW

Recommended motor module	
Rated inverter current	3 A
Maximum inverter current	6 A
Maximum torque	4.15 Nm