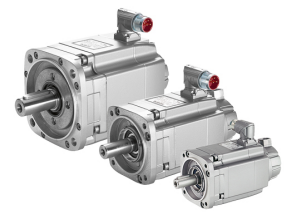


## synchronous servomotor



**Ordering data**                      **1FK7064-4CF71-1RB0**

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

Item no. :  
Consignment no. :  
Project :

Engineering data		Physical constants	
Rated speed	3000 rpm	Torque constant	1.11 Nm/A
Number of poles	6	Voltage constant at 20° C	70.5 V/1000*min <sup>-1</sup>
Rated torque (100 K)	8.0 Nm	Winding resistance at 20° C	0.35 Ω
Rated motor current	7.6 A	Rotating field inductance	12.0 mH
Static torque (60 K)	10.00 Nm	Electrical time constant	34.50 ms
Static torque (100 K)	12.0 Nm	Mechanical time constant	0.64 ms
Stall current (60 K)	8.7 A	Thermal time constant	55 min
Stall current (100 K)	10.8 A	Shaft torsional stiffness	29500 Nm/rad
Rotor moment of inertia	0.0008500 kgm <sup>2</sup>	Net weight of the motor	16.8 kg
Efficiency	93.0 %		
Mechanical data		Optimum operating point	
Motor type	High Dynamic	Optimum speed	3000 rpm
Shaft height	63 mm	Optimum power	2.5 kW
Encoder system	Encoder AM20DQI: absolute encoder 20 bits (resolution 1048576, encoder-internal 512 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)		
Cooling	Natural cooling		
Holding brake	Permanent-magnet brake instead of spring-loaded brake (only for		
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		
		Recommended motor module	
		Rated inverter current	18 A
		Maximum inverter current	36 A
		Maximum torque	32.00 Nm