



Ordering data1FT7034-1AK70-1BH1

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

Item no. :
Consignment no. :
Project :

Engineering data		Physical constants	
Rated speed	6000 1/min	Torque constant	0.74 Nm/A
Number of poles	6	Voltage constant at 20° C	49.0 V/1000*min ⁻¹
Rated torque (100 K)	1.4 Nm	Winding resistance at 20° C	2.40 Ω
Rated motor current	2.1 A	Rotating field inductance	9.7 mH
Static torque (60 K)	1.60 Nm	Electrical time constant	4.00 ms
Static torque (100 K)	2.0 Nm	Mechanical time constant	1.10 ms
Stall current (60 K)	2.2 A	Thermal time constant	25 min
Stall current (100 K)	2.7 A	Shaft torsional stiffness	3700 Nm/rad
Rotor moment of inertia	0.0000980 kgm²	Net weight of the motor	4.2 kg
Efficiency	90.0 %		

Mechanical data		Optimum operating point	
Design of the motor type	Compact core type	Optimum speed	5000 1/min
Shaft height	36 mm	Optimum power	0.9 kW
Sensor design	AS24DQI absolute encoder singleturn 24 bit		
Cooling	Natural cooling	Recommended motor module	
Holding brake type	Permanent-magnet brake instead of spring-loaded brake (only for 1FK7		
Shaft end type	Plain shaft	Rated inverter current	3 A
Radial runout tolerance	N	Maximum inverter current	6 A
Vibration severity grade	Grade A		
Degree of protection	IP65		
Design acc. to Code I	IM B5 (new flange design)		
Electrical connectors	Connector turnable		
Color of the housing	Pearl dark grey RAL 9023		