



Ordering data

1FT7066-5WF70-1NH1

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data		Physical constants	
Rated speed	3000 1/min	Torque constant	1.43 Nm/A
Number of poles	10	Voltage constant at 20° C	90.0 V/1000*min ⁻¹
Rated torque (100 K)	19.6 Nm	Winding resistance at 20° C	0.39 Ω
Rated motor current	14.4 A	Rotating field inductance	4.1 mH
Static torque (60 K)	16.00 Nm	Electrical time constant	10.50 ms
Static torque (100 K)	20.0 Nm	Mechanical time constant	1.00 ms
Stall current (60 K)	11.2 A	Thermal time constant	2 min
Stall current (100 K)	14.0 A	Shaft torsional stiffness	24200 Nm/rad
Rotor moment of inertia	0.0020200 kgm ²	Net weight of the motor	17.4 kg
Efficiency	91.0 %		

Mechanical data		Optimum operating point	
Design of the motor type	Compact	Optimum speed	3000 1/min
Shaft height	63 mm	Optimum power	6.2 kW
Sensor design	Incremental encoder sin/cos 1 Vpp 2048 S/R with C and D tracks		
Cooling	Water 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	18 A
Radial runout tolerance	N	Maximum inverter current	36 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		