



Ordering data

1FK7060-5AH71-1FG0

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

Item no. :
Consignment no. :
Project :

Engineering data		Physical constants	
Rated speed	4500 1/min	Torque constant	0.95 Nm/A
Number of poles	8	Voltage constant at 20° C	60.5 V/1000*min ⁻¹
Rated torque (100 K)	3.7 Nm	Winding resistance at 20° C	0.73 Ω
Rated motor current	4.1 A	Rotating field inductance	7.0 mH
Static torque (60 K)	5.00 Nm	Electrical time constant	9.60 ms
Static torque (100 K)	6.0 Nm	Mechanical time constant	1.93 ms
Stall current (60 K)	5.1 A	Thermal time constant	30 min
Stall current (100 K)	6.2 A	Shaft torsional stiffness	42000 Nm/rad
Rotor moment of inertia	0.0007950 kgm ²	Net weight of the motor	7.0 kg
Efficiency	90.0 %		

Mechanical data		Optimum operating point									
Motor type	Compact	Optimum speed	4500 1/min								
Shaft height	63 mm	Optimum power	1.7 kW								
Encoder system	Encoder AM22DQ: absolute encoder 22 bits (resolution 4194304, encoder-internal 2048 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)	<table border="1"> <thead> <tr> <th colspan="2">Recommended motor module</th> </tr> </thead> <tbody> <tr> <td>Rated inverter current</td> <td>9 A</td> </tr> <tr> <td>Maximum inverter current</td> <td>18 A</td> </tr> <tr> <td>Maximum torque</td> <td>16.80 Nm</td> </tr> </tbody> </table>		Recommended motor module		Rated inverter current	9 A	Maximum inverter current	18 A	Maximum torque	16.80 Nm
Recommended motor module											
Rated inverter current	9 A										
Maximum inverter current	18 A										
Maximum torque	16.80 Nm										
Cooling	Natural cooling										
Holding brake	no break										
Shaft extension	Plain shaft										
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	Unpainted										