



Ordering data1FK7101-5AF71-1EH0

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

Item no. :
Consignment no. :
Project :

Engineering data		Physical constants	
Rated speed	3000 1/min	Torque constant	1.41 Nm/A
Number of poles	8	Voltage constant at 20° C	90.0 V/1000*min ⁻¹
Rated torque (100 K)	15.5 Nm	Winding resistance at 20° C	0.15 Ω
Rated motor current	11.8 A	Rotating field inductance	3.0 mH
Static torque (60 K)	22.40 Nm	Electrical time constant	20.00 ms
Static torque (100 K)	27.0 Nm	Mechanical time constant	1.80 ms
Stall current (60 K)	15.7 A	Thermal time constant	60 min
Stall current (100 K)	19.0 A	Shaft torsional stiffness	165000 Nm/rad
Rotor moment of inertia	0.0092300 kgm ²	Net weight of the motor	24.0 kg
Efficiency	93.0 %		

Mechanical data		Optimum operating point	
Motor type	Compact	Optimum speed	3000 1/min
Shaft height	100 mm	Optimum power	4.9 kW
Encoder system	Encoder AM2048S/R: absolute encoder 2048 S/R, 4096 revolutions multi-turn, with EnDat interface		
Cooling	Natural cooling		
Holding brake	Permanent-magnet brake instead of spring-loaded brake (only for		
Shaft extension	Plain shaft		
Radial runout tolerance	N		
Vibration severity grade	Grade A		
Connector size	1.5		
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		

Recommended motor module	
Rated inverter current	18 A
Maximum inverter current	36 A
Maximum torque	51.00 Nm