



MOTOR SPECIFICATION		
Voltage	V DC	3.15
Current per Winding	A	1.8
Resistance per Phase (25°C) ±15%	Ω	1.75
Inductance per Phase (1 kHz) ±20%	mH	3.3
Holding Torque	Nm	0.5
Step Angle ±5%	°	1.8
Rotor Inertia	kg m ²	9.5 x 10 ⁻⁶

BRAKE SPECIFICATION		
Power Consumption	W	8
Static Brake Torque	Nm	0.4
Operating Voltage ±5%	V DC	24-48

ENCODER SPECIFICATION		
Operating Voltage ±10%	V DC	5
Resolution	cpr	500
Resolution (cpr with quadrature)	ppr	2000
No. of Channels		3
Signal Type		incremental
Index / Line Driver		yes / yes

M8-3 pole Brake	
PIN	ASSIGNMENT
1	Vcc
3	GND
4	NC

M12-5 pole Motor	
PIN. NO.	ASSIGNMENT
1	A\
2	A
3	B
4	B\
5	HOUSING

M12-8 pole Encoder	
PIN NO.	ASSIGNMENT
1	A
2	A\
3	B
4	B\
5	GND
6	I\
7	I
8	Vcc
HOUSING	GND/SHIELDING

Mechanical Load Diagram			
A-Shaft	Preload Spring	B-Shaft	
Fr	Fa	ax	
Max. Axial Force	Fa	N	15
Max. Radial Force	Fr (a1 = 5 mm)	N	58
Max. Radial Force	Fr (a2 = 20 mm)	N	20
Axial Play	Fa = 4.5 N	mm	0.08
Radial Play	Fr = 4.5 N	mm	0.02

GENERAL MOTOR SPECIFICATION		
Ambient Temperature	°C	-10 ... 50
Max. Temperature Rise (at standstill - 2 phases energized)	°C	80
Max. Ambient Humidity (non condensing)	%	85
Insulation Class		B
Insulation Resistance	MΩ	100
Dielectric Strength (for 1 min - coil to case)	V AC	500

ISO 8015		ISO 1302		ISO 2768 cK		ISO 13715	
03	rev. draw., add. info	Schneid_A	15.10.2020	Date	Name	Import	
REV	Rev. Text	Name	Date	Drawn	04.12.2017	Reith_S	
				Reviewed	07.10.2020	Reith_S	
				Released	07.10.2020	Reith_S	

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