

Connector: MOLEX 2074790003

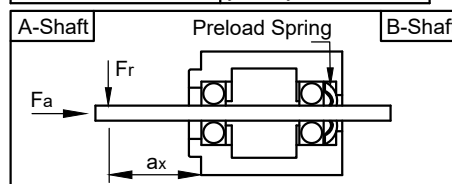
Connector: MOLEX 5023821270

WIRING DIAGRAM

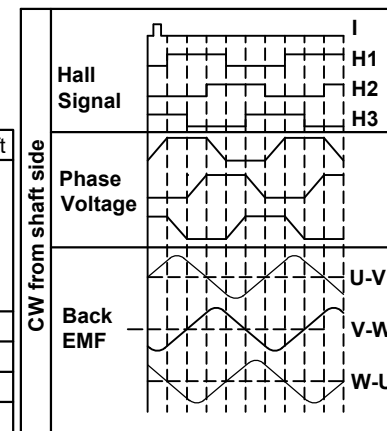
	PIN	Function	Connector
Motor	1	U	MOLEX 2074790003
	2	V	
	3	W	
Encoder	1	VCC	MOLEX 5023821270
	2	A\	
	3	A	
	4	B\	
	5	B	
	6	I\	
	7	I	
	8	H1	
	9	H2	
	10	H3	
	11	Housing	
	12	GND	

ENCODER SPECIFICATION

Operating Voltage	V DC	5
Resolution	cpr	4096
Resolution (cpr with quadrature)	ppr	16384
No. of Channels		3
Signal Type	incremental	
Index / Line Driver	yes / yes	



Max. Axial Force F_a	N	10
Max. Radial Force F_r ($a_1 = 10$ mm)	N	28
Axial Play $F_a = 4$ N	mm	0.08
Radial Play $F_r = 4$ N	mm	0.02



MOTOR SPECIFICATION

No. of Poles		14
Rated Voltage	V DC	24
Current - No Load / Rated / Peak	A	0.7 / 5.8 / 17
Resistance Line to Line	$\pm 10\%$ Ω	0.25
Inductance Line to Line (1kHz)	$\pm 20\%$ mH	0.22
Torque - Rated / Peak	Nm	0.29 / 0.87
Torque Constant	Nm/A	0.05
Rated Power	W	-
Speed - No Load / Rated	$\pm 10\%$ rpm	4300 / 3500
Rotor Inertia	kg m ²	100 x 10 ⁻⁶

GENERAL MOTOR SPECIFICATION

Ambient Temperature	°C	-20 ... 50
Max. Temperature Rise (at standstill)	°C	80
Max. Ambient Humidity (non condensing)	%	85
Insulation Class		B
Insulation Resistance	M Ω	100
Dielectric Strength (for 1 min - coil to case)	V AC	500

ISO 8015	ISO 1302	ISO 2768 cK	ISO 13715	Weight: ~0.5 kg	
			Date	Name	
			Drawn	12.01.2021	Schneid_A
			Reviewed	13.01.2021	Hofstet._M
			Released	13.01.2021	Hofstet._M
01	change pin assignment	Hofstet._M	03.02.2021		
REV	Rev. Text	Name	Date		
				20000767	A4 Page 1
				State: Released	Rev: 01
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Rev: 01

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