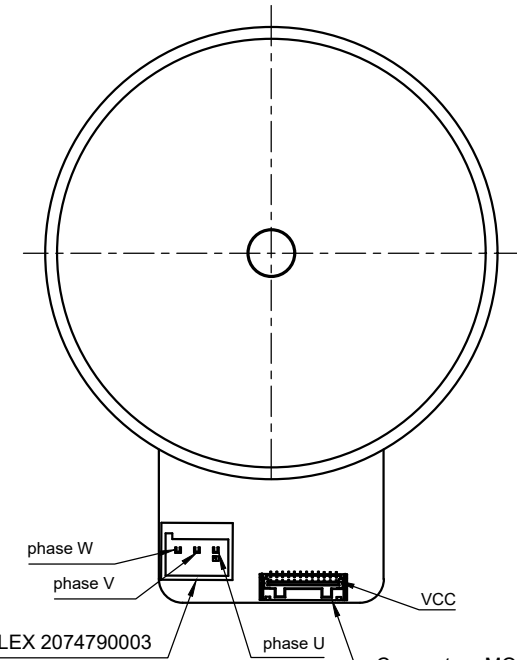
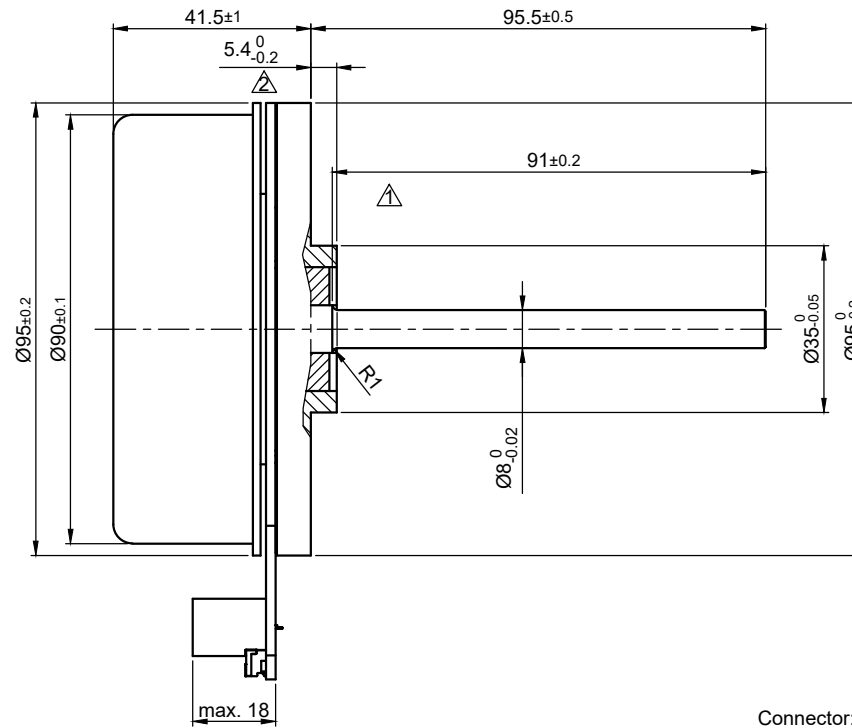
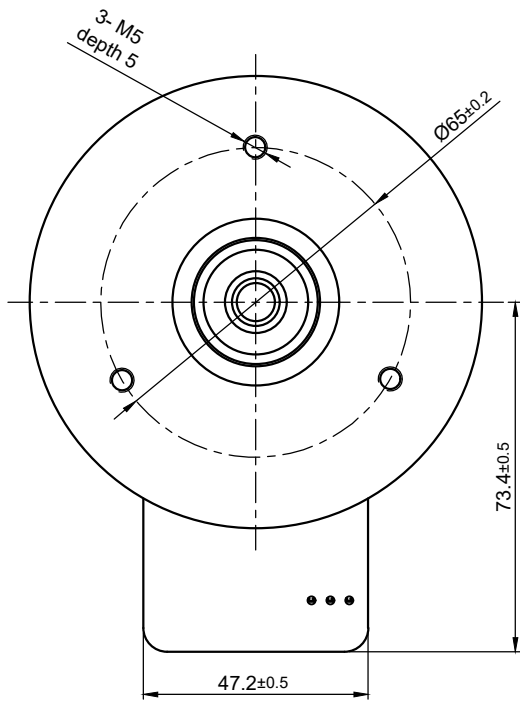




Connector: MOLEX 2074790003

Connector: MOLEX 5023821270

MOTOR SPECIFICATION

No. of Poles	22
Rated Voltage	V DC 48
Current - No Load / Rated / Peak	A 0.4 / 4.3 / 13
Resistance Line to Line	±10% Ω 0.53
Inductance Line to Line (1kHz)	±20% mH 0.71
Torque - Rated / Peak	Nm 0.964 / 3.0
Torque Constant	Nm/A 0.230
Rated Power	W 168
Speed - No Load / Rated	±10% rpm 2000 / 1670
Rotor Inertia	kg m ² 500 x10 ⁻⁶

GENERAL MOTOR SPECIFICATION

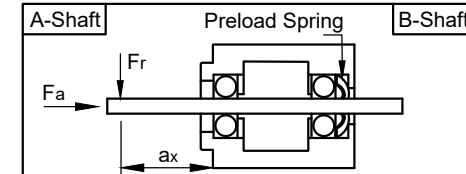
Ambient Temperature	°C	-20 ... 50
Max. Temperature Rise (at standstill)	°C	80
Max. Ambient Humidity (non condensing)	%	85
Insulation Class		B
Insulation Resistance	MΩ	100
Dielectric Strength (for 1 min - coil to case)	V AC	500

WIRING DIAGRAM

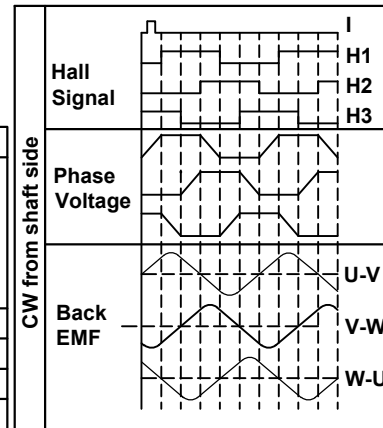
	PIN	Function	Connector
Motor	1	U	MOLEX 2074790003
	2	V	
	3	W	
Encoder	1	VCC	MOLEX 5023821270
	2	A\	
	3	A	
	4	B\	
	5	B	
	6	I\	
	7	I	
	8	H1	
	9	H2	
	10	H3	
	11	Housing	
	12	GND	

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	Fa	N	45
Max. Radial Force	Fr (a1 = 10 mm)	N	110
Axial Play	Fa = 4.0 N	mm	0.08
Radial Play	Fr = 4.0 N	mm	0.02



ISO 8015		ISO 1302		ISO 2768 cK		ISO 13715				Weight: ±10% 1.2 kg	
					Date	Name		DFA90L048017-E2			
				Drawn	03.11.2021	Schneid_A					
				Reviewed	04.11.2021	Hofstet_M					
02	change tol. dim. 5.4	Schneid_A	10.01.2024	Released	04.11.2021	Hofstet_M		20001264			
01	modification shaft	Schneid_A	10.11.2021								
REV	Rev. Text	Name	Date				State: Released		Rev: 02	CONFIDENTIAL	