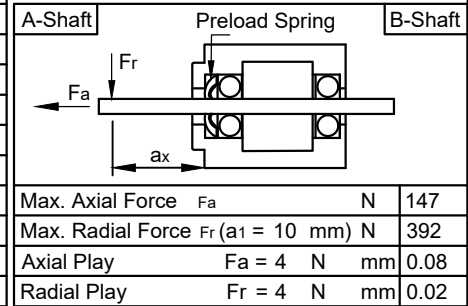


PIN Assignment Encoder	
Colour	Function
RD	+5V
BK	GND
-	-
BN/BK	H1+
BN	H1-
YE	I+
GN	B+
BU/BK	A+
GY/BK	H3+
WH/BK	H2+
YE/BK	I-
GN/BK	B-
BU	A-
GY	H3-
WH	H2-
-	Shield



MOTOR SPECIFICATION		
No. of Poles		8
Rated Voltage	V DC	48
Current - No Load / Rated / Peak	A	0.8 / 30 / 89.7
Resistance Line to Line	$\pm 10\%$ Ω	0.043
Inductance Line to Line (1kHz)	$\pm 20\%$ mH	0.21
Torque - Rated / Peak	Nm	3.2 / 9.6
Torque Constant	Nm/A	0.107
Speed - No Load / Rated	$\pm 10\%$ rpm	5000 / 3000
Rotor Inertia	kg m ²	170 $\times 10^{-6}$

ENCODER SPECIFICATION		
Operating Voltage	$\pm 5\%$ V DC	+5 V
Resolution	cpr	2500
Resolution (cpr with quadrature)	ppr	10000
No. of Channels		3
Signal Type	incremental	
Index / Line Driver	yes / yes	

WIRING DIAGRAM			
Motor	Colour	Function	Lead Gauge
	YE	U	UL758 AWG13 \uparrow
	RD	V	
	BK	W	

GENERAL MOTOR SPECIFICATION		
Ambient Temperature	$^{\circ}\text{C}$	-20 ... 55
Max. Temperature Rise (at standstill)	$^{\circ}\text{C}$	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
Protection Class		IP65

ISO 8015	ISO 1302	ISO 2768 cK	ISO 13715
			Date
			Name
			Drawn
			08.04.2020
			Schneid_A
			Reviewed
			15.04.2020
			Hofstet_M
			Released
			15.04.2020
			Hofstet_M
02	revise drawing	Schneid_A	24.11.2020
01	revise drawing	Schneid_A	21.04.2020
REV	Rev. Text	Name	Date

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State: Released Rev: 02 CONFIDENTIAL

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