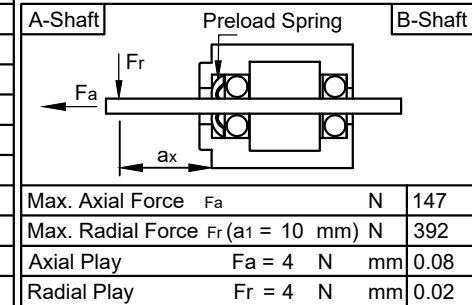


PIN Assignment Encoder	
Colour	Function
RD	+5V
BK	GND
-	-
BN/BK	H1+
BN	H1-
YE	I+
GN	B+
BU/BK	A+
GY/BK	H3+
WH/BK	H2+
YE/BK	I-
GN/BK	B-
BU	A-
GY	H3-
WH	H2-
-	Shield



Max. Axial Force F_a	N	147
Max. Radial Force F_r ($a_1 = 10$ mm)	N	392
Axial Play $F_a = 4$ N	mm	0.08
Radial Play $F_r = 4$ N	mm	0.02

ENCODER SPECIFICATION		
Operating Voltage	±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			
	Colour	Function	Lead Gauge
Motor	YE	U	UL758 AWG13
	RD	V	
	BK	W	

	ISO 8015	ISO 1302	ISO 2768 cK	ISO 13715	
				Date	Name
03	no load curr+Length	Reith_S	09.02.2023	Drawn	08.04.2020 Schneid_A
02	revise drawing	Schneid_A	24.11.2020	Reviewed	15.04.2020 Hofstet_M
01	revise drawing	Schneid_A	21.04.2020	Released	15.04.2020 Hofstet_M
REV	Rev. Text	Name	Date		

20000375		APBA80L048030-E		Weight: ~3.2 kg

MOTOR SPECIFICATION	
No. of Poles	8
Rated Voltage	V DC 48
Current - No Load / Rated / Peak	A <3 / 30 / 89.7
Resistance Line to Line	±10% Ω 0.043
Inductance Line to Line (1kHz)	±20% mH 0.21
Torque - Rated / Peak	Nm 3.2 / 9.6
Torque Constant	Nm/A 0.107
Speed - No Load / Rated	±10% rpm 5000 / 3000
Rotor Inertia	kg m ² 170 x10 ⁻⁶

GENERAL MOTOR SPECIFICATION	
Ambient Temperature	°C -20 ... 55
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
Protection Class	IP65