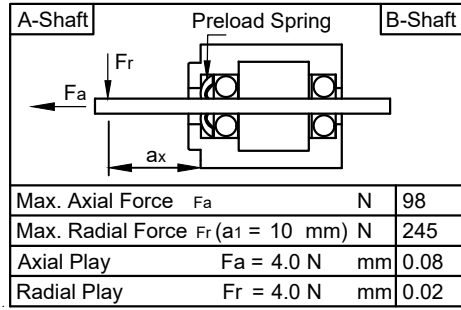


PIN Assignment Encoder	
Colour	Function
RD	+5V
BK	GND
-	-
BN/BK	H1+
BN	H1-
YE	I+
GN	B+
BU/BK	A+
GY/BK	H3+
WH/BK	H2+
YE/BK	I-
GN/BK	B-
BU	A-
GY	H3-
WH	H2-
-	Shield

BRAKE SPECIFICATION		
Power Consumption	W	7.2
Static Brake Torque	Nm	1.3
Operating Voltage	V DC	24
Max. Backlash	°	<1
Dielectric Strength	V DC	500
Insulation Resistance	MΩ	50

WIRING DIAGRAM			
	Colour	Function	Lead Gauge
Motor	YE	U	UL758 AWG16
	RD	V	
	BK	W	
Brake	RD	+24VdC	UL758 AWG20
	WH	GND	

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



Max. Axial Force F_a	N	98
Max. Radial Force F_r ($a_1 = 10$ mm)	N	245
Axial Play $F_a = 4.0$ N	mm	0.08
Radial Play $F_r = 4.0$ N	mm	0.02

MOTOR SPECIFICATION		
No. of Poles		8
Rated Voltage	V DC	48
Current - No Load / Rated / Peak	A	0.96 / 6 / 18
Resistance Line to Line	±10% Ω	0.56
Inductance Line to Line (1kHz)	±20% mH	1.2
Torque - Rated / Peak	Nm	0.64 / 1.92
Torque Constant	Nm/A	0.107
Rated Power	W	200
Speed - No Load / Rated	±10% rpm	5200 / 3000
Rotor Inertia	kg m ²	21 x10 ⁻⁶

GENERAL MOTOR SPECIFICATION		
Ambient Temperature	°C	-20 ... 40
Max. Temperature Rise (at standstill)	°C	90
Max. Ambient Humidity (non condensing)	%	90
Insulation Class		B
Insulation Resistance	MΩ	100
Dielectric Strength (for 1 min - coil to case)	V AC	500
Protection Class		IP65

ISO 8015	ISO 1302	ISO 2768 cK	ISO 13715
03	add. dimension	Schneid_A	20.12.2023
02	revise drawing	Schneid_A	24.11.2020
01	change A-shaft	Schneid_A	07.05.2020
REV	Rev. Text	Name	Date

Weight: ±10% 1.5	kg
APBA60M048030-EB2	
20000354	
State: Released	Rev: 03
CONFIDENTIAL	

