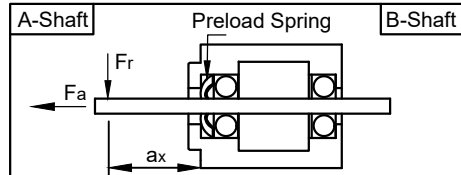
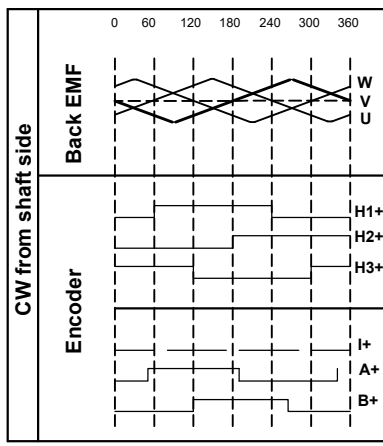
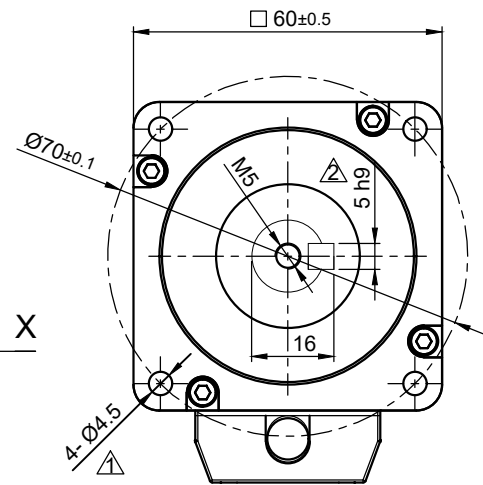
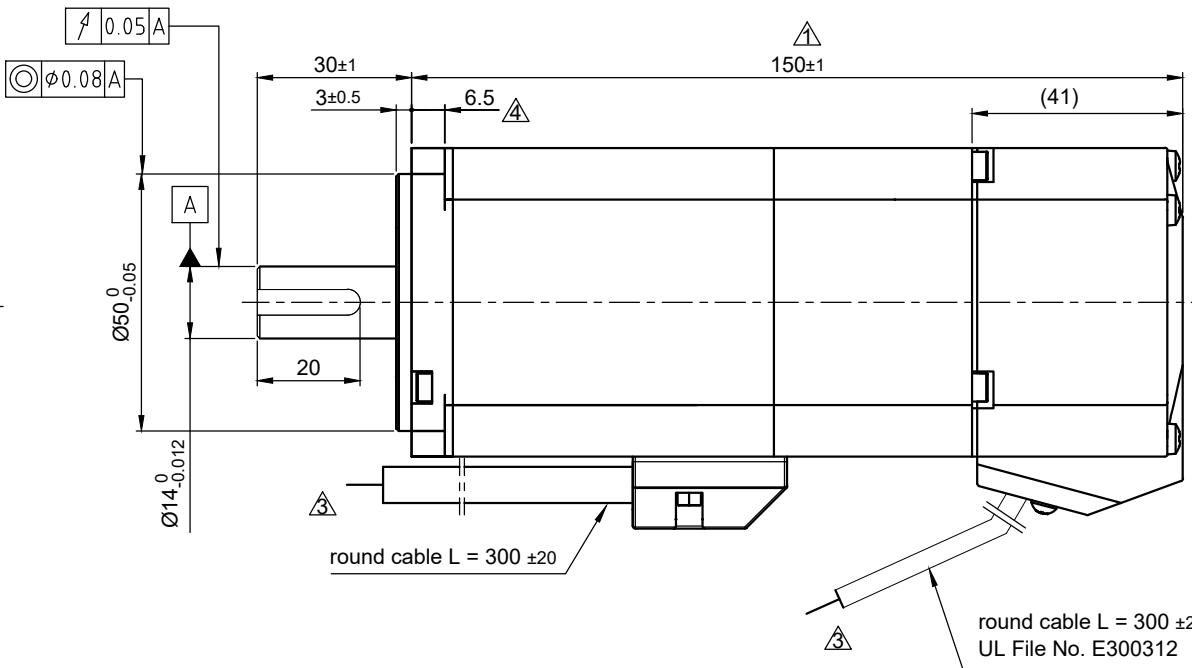
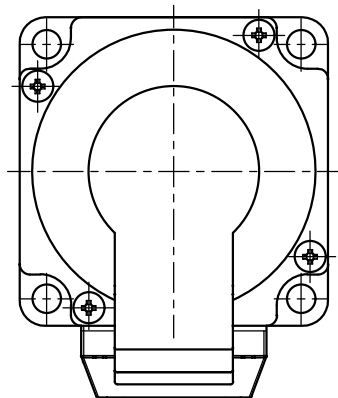


Dimension	Tolerance
5 h9	$0_{-0.030}$



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 \uparrow 0.96/6 /18
Resistance Line to Line	$\pm 10\%$ Ω 0.56
Inductance Line to Line (1kHz)	$\pm 20\%$ 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	$\pm 10\%$ rpm \uparrow 5200 /3000
Rotor Inertia	kg m ² \uparrow 21 x10 ⁻⁶

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	M Ω	50

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

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	$\pm 5\%$ 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

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	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
04	add. dimension	Schneid_A	20.12.2023
03	revise drawing	Schneid_A	24.11.2020
02	revise drawing	Schneid_A	08.01.2020
01	Change Motor spec.&L	Garcia_E	29.11.2019
REV	Rev. Text	Name	Date

Date		Name		APBA60M048030-EB
08.08.2019	05.01.2024	Schneid_A	Reith_S	
05.01.2024	05.01.2024	Reith_S	Reith_S	
04200046				A4 Page 1
State: Released		Rev: 04	CONFIDENTIAL	

