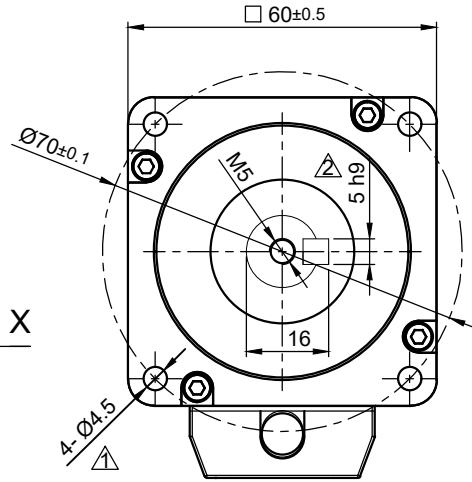
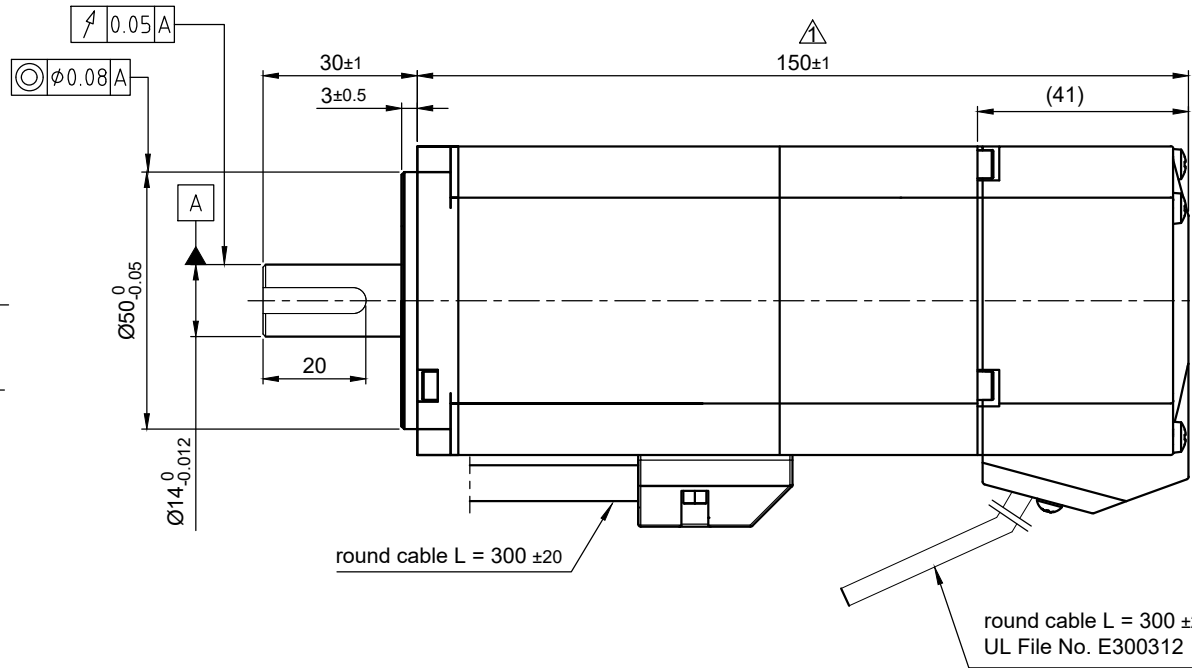
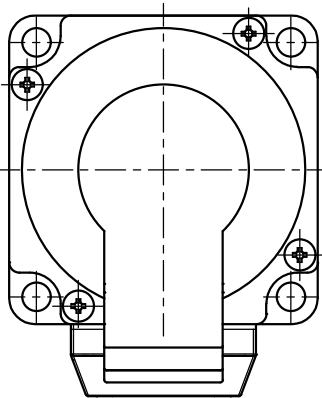


Dimension	Tolerance
5 h9	$\begin{smallmatrix} 0 \\ -0.030 \end{smallmatrix}$



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

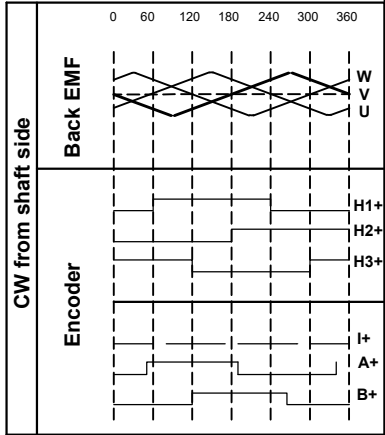
GENERAL MOTOR SPECIFICATION		
Ambient Temperature	°C	-20 ... 40
Max. Temperature Rise (at standstill)	°C	90
Max. Ambient Humidity (non condensing)	%	90
Insulation Class	B	
Insulation Resistance	MΩ	100
Dielectric Strength (for 1 min - coil to case)	V AC	500
Protection Class (except shaft outlet)	IP65	

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

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

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	

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



A-Shaft	Preload Spring	B-Shaft
Max. Axial Force Fa	N	98
Max. Radial Force Fr (a = 20 mm)	N	245

ISO 8015		ISO 1302		ISO 2768 cK		ISO 13715	
					Date	Name	
					Drawn	08.08.2019	Schneid_A
					Reviewed	09.01.2020	Hofstet._M
					Released	09.01.2020	Hofstet._M
02	revise drawing	Schneid_A	08.01.2020				
01	Change Motor spec.&L	Garcia_E	29.11.2019				
REV	Rev. Text	Name	Date				



APBA60M048030-EB				Weight: 1.43 kg
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State: Released		Rev: 02	CONFIDENTIAL	