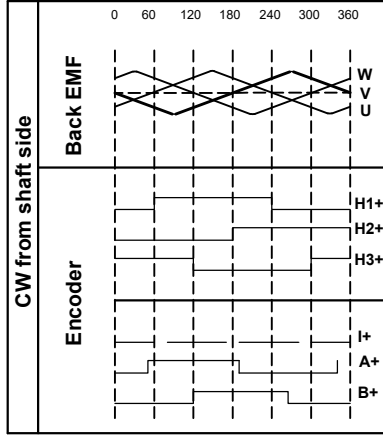
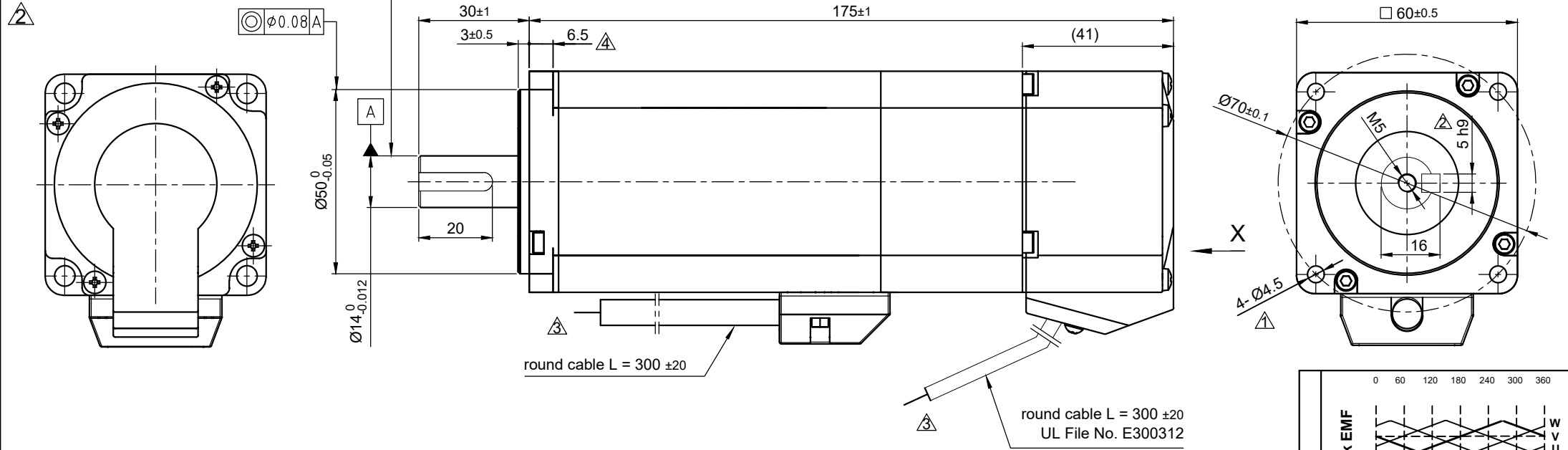


Dimension	Tolerance
5 h9	$0_{-0.030}$



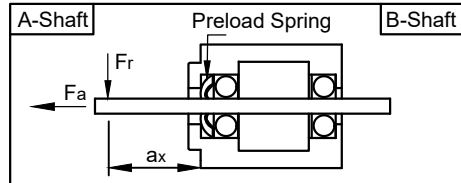
MOTOR SPECIFICATION		
No. of Poles		8
Rated Voltage	V DC	48
Current - No Load / Rated / Peak	A	1.32/12 /36
Resistance Line to Line	±10% Ω	0.25
Inductance Line to Line (1kHz)	±20% mH	0.55
Torque - Rated / Peak	Nm	1.27 /3.81
Torque Constant	Nm/A	0.107
Rated Power	W	399
Speed - No Load / Rated	±10% rpm	4900 /3000
Rotor Inertia	kg m <sup>2</sup>	43 x10 <sup>-6</sup>

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

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	±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	Fa	N	98
Max. Radial Force	Fr (a1 = 10 mm)	N	245
Axial Play	Fa = 4.0 N	mm	0.08
Radial Play	Fr = 4.0 N	mm	0.02

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
04	add. dimension	Schneid_A	19.12.2023
03	revise drawing	Schneid_A	24.11.2020
02	revise drawing	Schneid_A	08.01.2020
01	Change motor spec.	Garcia_E	29.11.2019
REV	Rev. Text	Name	Date

Date	Name	APBA60L048030-EB	Weight: ±10% 1.9 kg
21.03.2019	Schneid_A		
05.01.2024	Reith_S		
05.01.2024	Reith_S		
04200028		A4 Page 1	
State: Released		Rev: 04	CONFIDENTIAL

