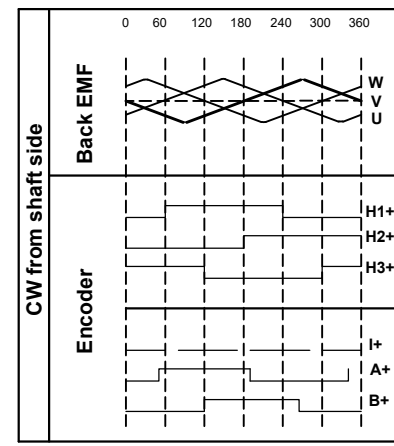
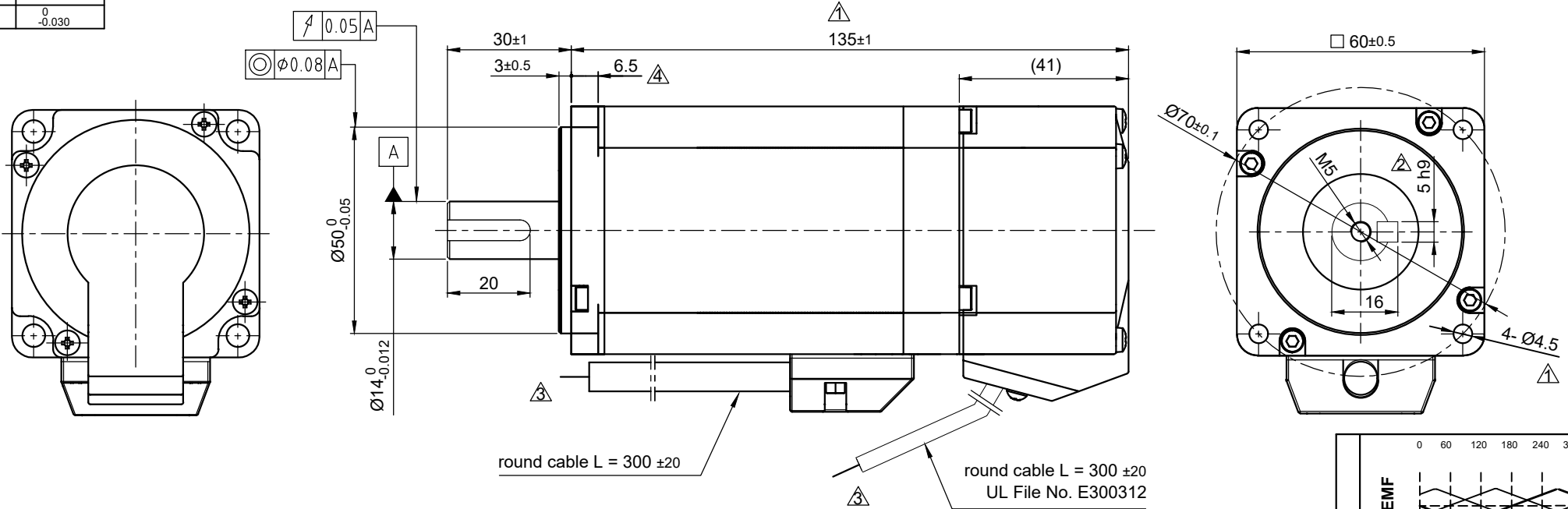


Dimension	Tolerance
5 h9	$\frac{0}{-0.030}$

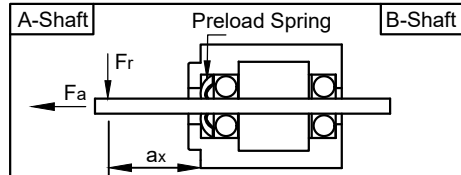


PIN Assignment Encoder	
Colour	Function
RD	+5V
BK	GND
-	-
BN/BK	H1+
BN	H1-
YE	I+
GN	B+
BU/BK	A+
GY/BK	H3+
WH/BK	H2+
YE/BK	I-
GN/BK	B-
BU	A-
GY	H3-
WH	H2-
-	Shield

MOTOR SPECIFICATION		
No. of Poles		8
Rated Voltage	V DC	48
Current - No Load / Rated / Peak	A	1.2 / 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 ²	43 x10 ⁻⁶

ENCODER SPECIFICATION		
Operating Voltage	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			
Motor	Colour	Function	Lead Gauge
	YE	U	UL758 AWG16
	RD	V	
	BK	W	



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

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	Weight: ±10% 1.5 kg	
REV	Rev. Text	Name	Date	Date	Name
04	add. dimension	Schneid_A	20.12.2023	Drawn	18.07.2019 Garcia_E
03	revise drawing	Schneid_A	24.11.2020	Reviewed	05.01.2024 Reith_S
02	revise drawing	Schneid_A	09.01.2020	Released	05.01.2024 Reith_S
01	Change spec.&motor L	Garcia_E	29.11.2019		



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State: Released	Rev: 04
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