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MOTOR SPECIFICATIONS

Part Number	BL17E40-01D-02RO
Dimension "A" Max	3.98 in [101mm]
Rated Voltage	24 VDC
Rated Torque	30.45 oz-in [0.215N-m]
Rated Speed	4000 RPM
Rated Power	90 Watts
Rated Current	4.92 Amps
Peak Torque	60.9 oz-in [0.43N-m]
Peak Current	9.84 Amps
Torque Constant (kt)	6.23 oz-in/Amp
Back EMF Constant (Ke)	4.23 Vp/KRPM
Motor Constant (Km)	9.85 oz-in/√W [0.070 N-m/√W]
Resistance	0.4 Ohms
Inductance	0.37 mH
Rotor Inertia	0.79 oz-in ²
Weight	1.83 lb [0.83 kg]
Electrical Time Constant	0.9 ms
Mechanical Time Constant	3.2 ms

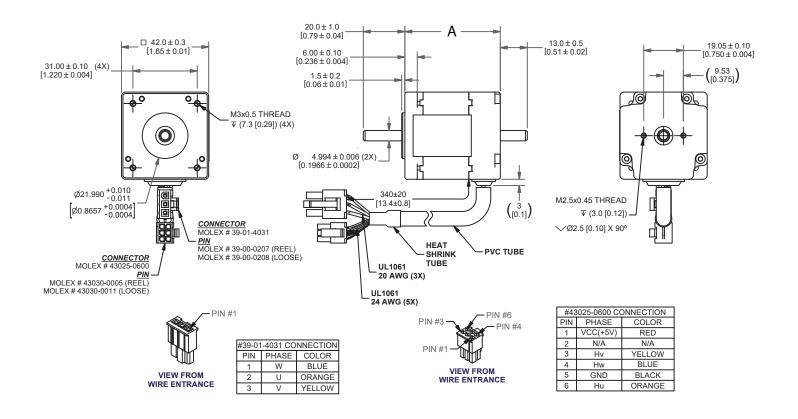
ENCODER SPECIFICATIONS

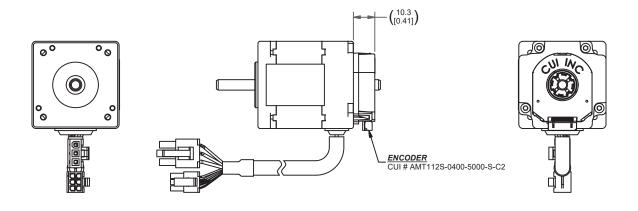
Part Number	AMT112S
Туре	CAPACITIVE ENCODER
Resolution	400 CPR

MOTOR OPERATING SPECIFICATIONS

Hall Effect Angle	120°Ω electrical Angle
Radial Play	0.002 in [0.05 mm] @ 0.99 lbs [0.45 kg]
End Play	0.003 in [0.08 mm] @ 99.21 lbs [45.00 kg]
Max. Radial Force	0.394 in [10.00 mm] @ 3.37 lbs [1.53kg]
Max. Axial Force	2.25 lbs [1.02 kg]
Insulation Class	Class B
Dielectric Strength	500 VDC for 1 minute
Insulation Resistance	100 Ω min. 500 VDC
Ambient Operating Temp.	-20°C to 50°C
Storage Temperature	-20°C to 100°C
Humidity Range (%)	85% (RH) non-condensing
Direction of Rotation	ccw

DIMENSIONS





RECOMMENDED PRODUCTS









ENCODER CABLE **AMT-17C-1-012/036/108**

Rated Voltage: 24Volts, Rated Current: 4.92 Amps

Peak Range

O.43

Peak Range

O.215

Continuous Range

O.215

Continuous Range

O.215

Continuous Range

4,000 5,000

Speed (RPM)

OPERATION & USAGE TIPS



Do not disassemble motors; a significant reduction in motor performance will occur.



Do not machine shafts; this will have a negative effect on shaft run out and perpendicularity.



Do not disconnect motor from drive while in operation.



Do not use holding torque/detent torque of motor as a fail safe brake.



Do not hold motor by lead wires.



Do not exceed the rated current; this will burn the motor.

FAILURE TO COMPLY WITH THESE RECOMMENDATIONS WILL VOID ALL WARRANTY TERMS

Motion Control, Solved.

MOTOR ENGINEERING & MANUFACTURING





Quick Prototype Turnaround



Small Batch to OEM Volume Production

