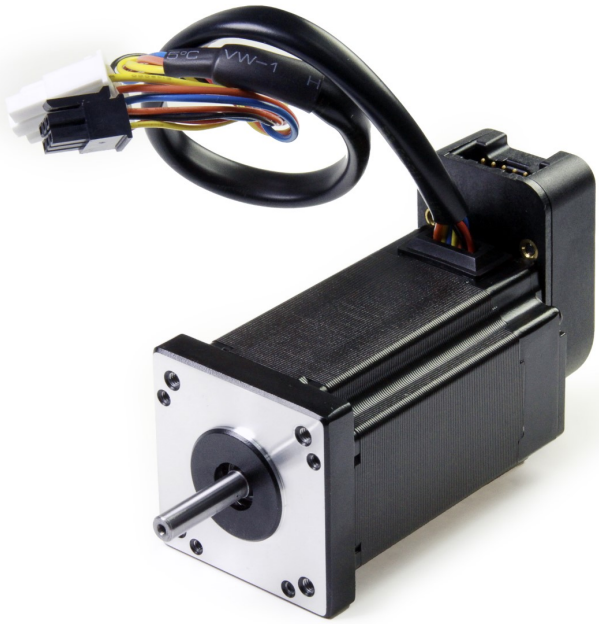
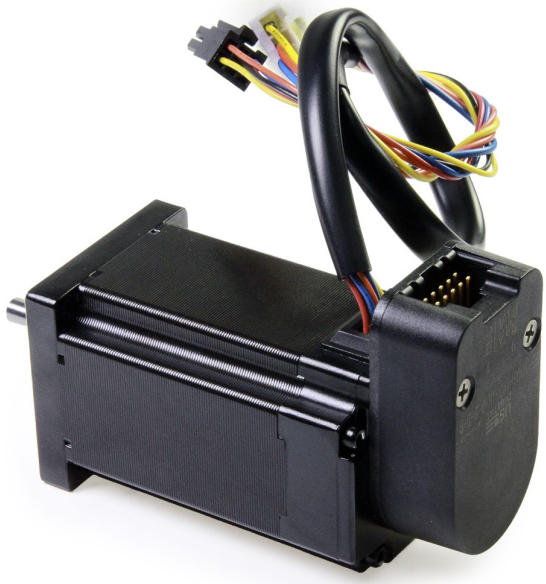
LIN ENGINEERING
MOTOR SPECIALISTS IN MOTION
A MOONS' COMPANY

16245 Vineyard Blvd., Morgan Hill, CA 95037
Phone: (408) 919-0200 Fax: (408) 919-0201
Email: Sales@linengineering.com | Techsupport@linengineering.com
www.linengineering.com





MOTOR SPECIFICATIONS

Part Number	**BL17E40-01D-05RO**
Length Dimension	100 mm [3.94 in]
Rated Voltage	24 VDC
Rated Output Power	90 W
Pole Number	6
Phase Number	3
Rated Speed	4000 RPM
Max Speed	5000 RPM
Rated Torque	0.215 N-m [30.45 oz-in]
Rated Current	4.92 Amps
Back EMF Constant	3 Vrms/krpm [4.24 Vpeak/krpm]
Moment of Inertia	0.0000114 kg-m^2 [0.79 oz-in^2]
Resistance	0.4 Ohms
Inductance	0.37 mH
Weight	0.83 kg [1.83 lb]

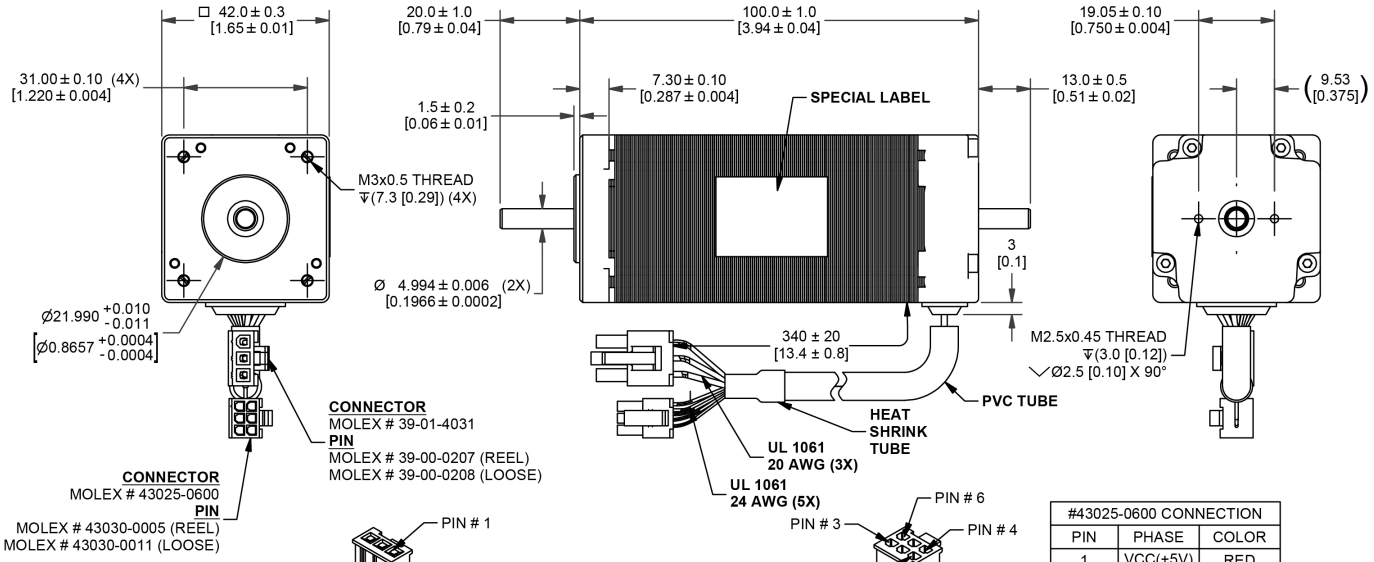
ENCODER SPECIFICATIONS

Part Number	**E5 Encoder**
Type	Optical Incremental Encoder
Resolution	1000 CPR
Index	Yes
Output Type:	Differential

MOTOR OPERATING SPECIFICATIONS

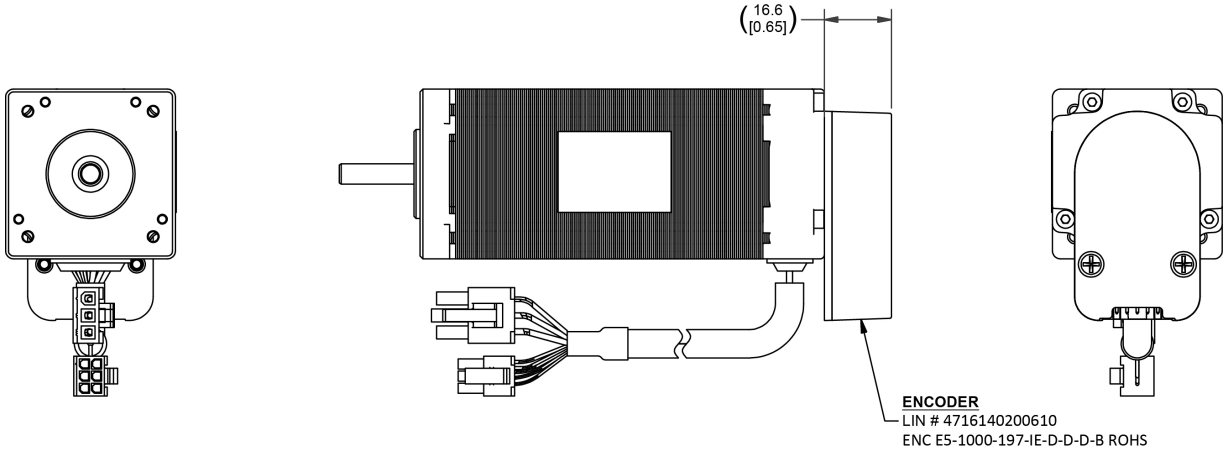
Hall Effect Angle	120°electrical Angle
Radial Play	0.002 in [0.05 mm] @ 0.99 lbs [0.45 kg]
End Play	0.003 in [0.08 mm] @ 99.21 lbs [45.00 kg]
Max. Radial Force	0.394 in [10.00 mm] @ 3.37 lbs [1.53kg]
Max. Axial Force	2.25 lbs [1.02 kg]
Insulation Class	Class B
Dielectric Strength	500 VDC for 1 minute
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

DIMENSIONS



#39-01-4031 CONNECTION		
PIN	PHASE	COLOR
1	W	BLUE
2	U	ORANGE
3	V	YELLOW

#43025-0600 CONNECTION		
PIN	PHASE	COLOR
1	VCC(+5V)	RED
2	N/A	N/A
3	Hv	YELLOW
4	Hw	BLUE
5	GND	BLACK
6	Hu	ORANGE



RECOMMENDED PRODUCTS



BLDC DRIVER
BLDC50-BL17E40-01

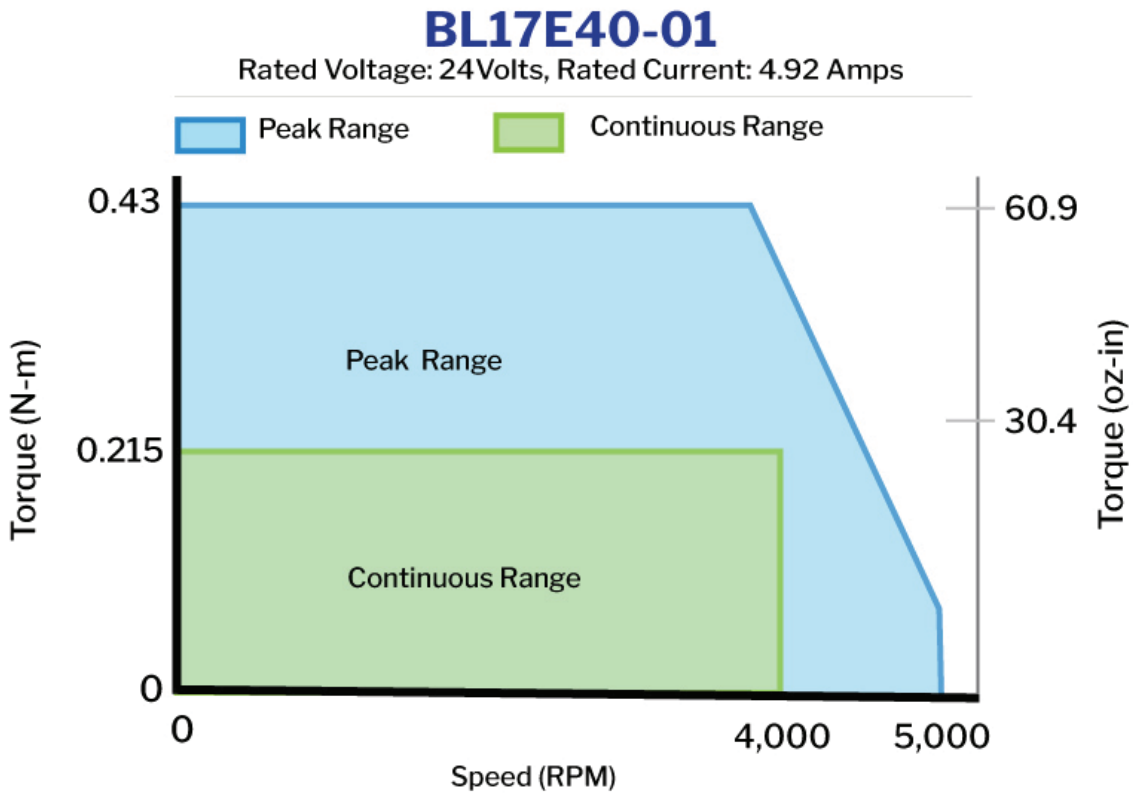


BLDC EXTENSION CABLE
4201-100/300

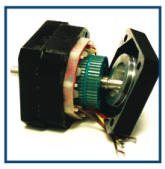


E5 ENCODER CABLE
CA-FC10-SH-NC-10-PKG

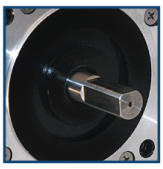
PERFORMANCE CURVE



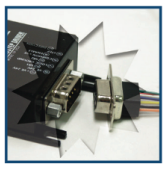
OPERATION & USAGE TIPS



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



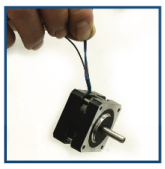
Do not machine shafts; this will have a negative effect on shaft run out and perpendicularity.



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 wil burn the motor.

FAILURE TO COMPLY WITH THESE RECOMMENDATIONS WILL VOID ALL WARRANTY TERMS

Motion Control, Solved.

MOTOR ENGINEERING & MANUFACTURING

Optimized For Your Application

Quick Prototype Turnaround

Small Batch to OEM Volume Production

US Based Support & Manufacturing