

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-05R0
Length Dimension	100 mm [3.94 in]
Rated Voltage	48 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	2.4 Amps
Back EMF Constant	6.1 Vrms/krpm [8.63 Vpeak/krpm]
Moment of Inertia	0.0000114 kg-m <sup>2</sup> [0.79 oz-in <sup>2</sup> ]
Resistance	1.47 Ohms
Inductance	1.57 mH
Weight	0.83 kg [1.83 lb]

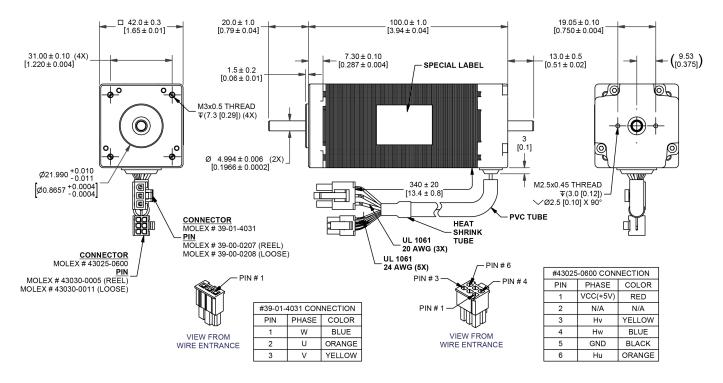
#### **ENCODER SPECIFICATIONS**

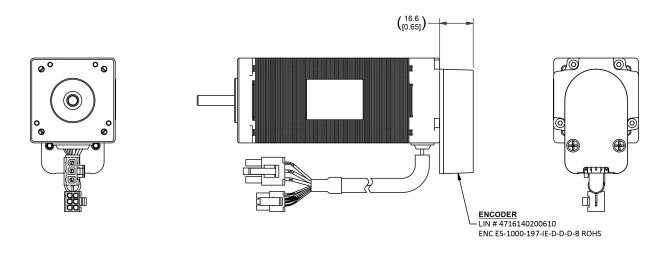
Part Number	E5 Encoder
Туре	Optical Incremental Encoder
Resolution	1000 CPR
Index	Yes
Output Type:	Differential

#### **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





#### **RECOMMENDED PRODUCTS**



BLDC DRIVER
BLDC50-BL17E40-02

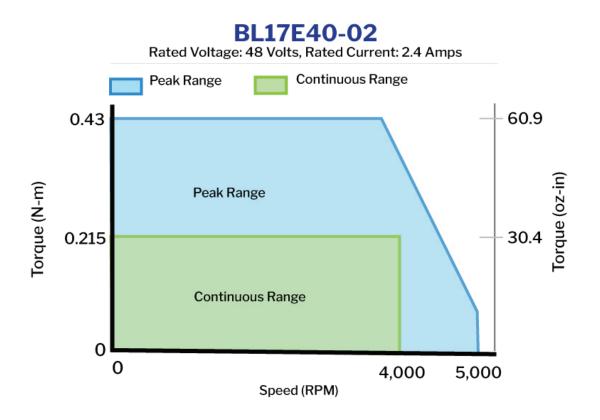


BLDC EXTENSION CABLE 4201-100/300



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











Small Batch to OEM Volume Production



US Based Support & Manufacturing