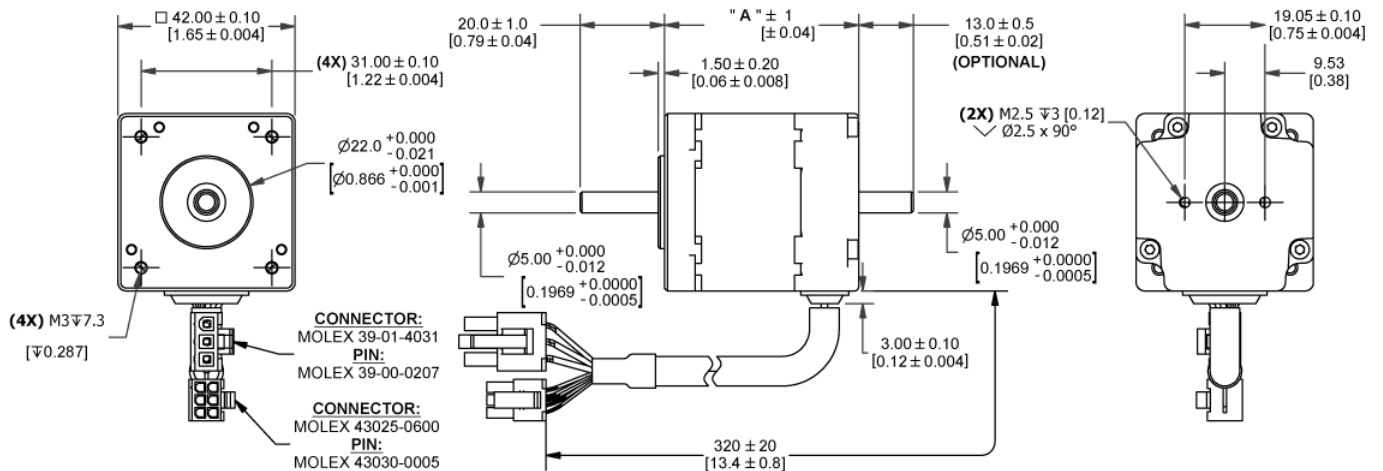


## MOTOR SPECIFICATIONS

Part Number	<b>BL17E28-02D-R0</b>
Dimension "A" Max	2.8 in [71mm]
Rated Voltage	48 VDC
Rated Torque	20.39 oz-in [0.144N-m]
Rated Speed	4000 RPM
Rated Power	60 Watts
Rated Current	1.63 Amps
Peak Torque	40.7 oz-in [0.288N-m]
Peak Current	3.26 Amps
Torque Constant (kt)	12.46 oz-in/Amp
Back EMF Constant (Ke)	8.46 Vp/KRPM
Motor Constant (Km)	7.7 oz-in/√W [0.054 N-m/√W]
Resistance	2.62 Ohms
Inductance	2.5 mH
Rotor Inertia	0.39 oz-in <sup>2</sup>
Weight	1.21 lb [0.55 kg]
Electrical Time Constant	1 ms
Mechanical Time Constant	2.7 ms

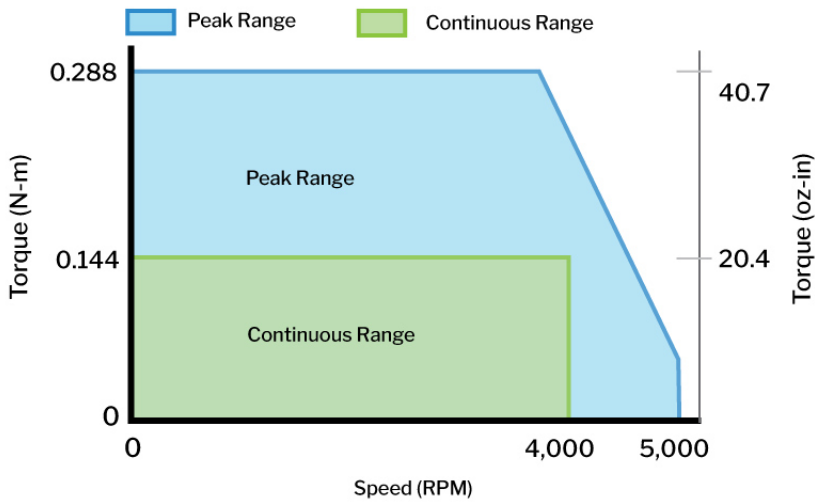
## DIMENSIONS



# PERFORMANCE CURVE

## BL17E28-02

Rated Voltage: 48Volts, Rated Current: 1.63 Amps

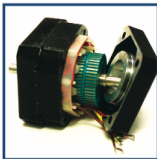


# PIN OUT CHARTS

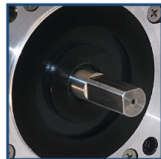
PIN #	COLOR	PHASE
1	RED	VCC (+5V)
2	YELLOW	HV
3	BLUE	HW
4	BLACK	GND
5	ORANGE	HU

PIN #	COLOR	PHASE
1	BLUE	W
2	ORANGE	U
5	YELLOW	V

# OPERATION & USAGE TIPS



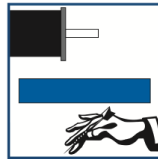
**Do not** disassemble motors; a significant reduction in motor performance will occur.



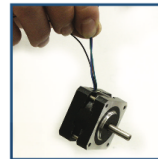
**Do not** machine shafts; this will have a negative effect on shaft run out and perpendicularity.



**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



Optimized  
For Your  
Application



Quick  
Prototype  
Turnaround



Small Batch  
to OEM Volume  
Production



US Based  
Support &  
Manufacturing