

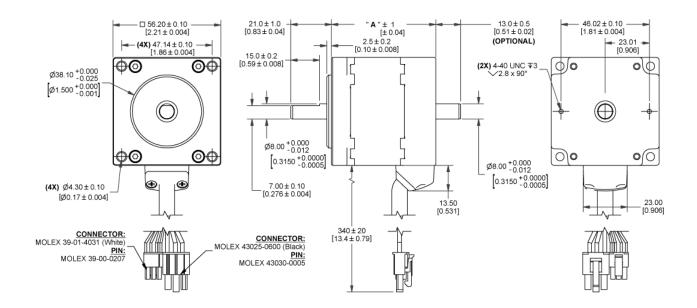
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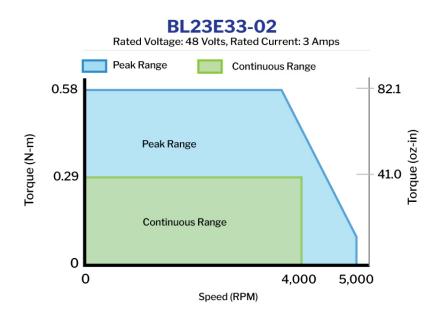
#### **MOTOR SPECIFICATIONS**

Part Number	BL23E33-02-R0	
Dimension "A" Max	3.29 in [83.5mm]	
Rated Voltage	48 VDC	
Rated Torque	41.07 oz-in [0.29N-m]	
Rated Speed	4000 RPM	
Rated Power	120 Watts	
Rated Current	3 Amps	
Peak Torque	82.13 oz-in [0.58N-m]	
Peak Current	6 Amps	
Torque Constant (kt)	13.74 oz-in/Amp	
Back EMF Constant (Ke)	9.02 Vp/KRPM	
Motor Constant (Km)	15.76 oz-in/√W [0.111 N-m/√W]	
Resistance	0.76 Ohms	
Inductance	0.84 mH	
Rotor Inertia	1.53 oz-in <sup>2</sup>	
Weight	2.38 lb [1.08 kg]	
Electrical Time Constant	1.1 ms	
Mechanical Time Constant	2.5 ms	

## DIMENSIONS



### **PERFORMANCE CURVE**



# **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 wil 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



US Based Support & Manufacturing