Email: Sales@linengineering.com | Techsupport@linengineering.com

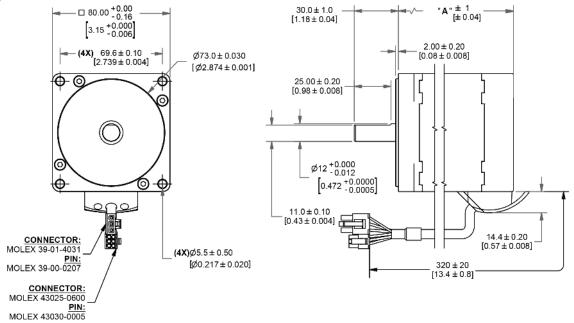
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Motor Specifications

Part Number	BL34E21-02-R0	
Dimension "A" Max	2.01 in [51mm]	
Rated Voltage	48 VDC	
Rated Torque	33.99 oz-in [0.24N-m]	
Rated Speed	4000 RPM	
Rated Power	100 Watts	
Rated Current	2.43 Amps	
Peak Torque	68 oz-in [0.48N-m]	
Peak Current	4.86 Amps	
Torque Constant (kt)	14.02 oz-in/Amp	
Back EMF Constant (Ke)	9.7 Vp/KRPM	
Motor Constant (Km)	16.64 oz-in/√W [0.118 N-m/√W]	
Resistance	0.71 Ohms	
Inductance	1.35 mH	
Rotor Inertia	2.08 oz-in ²	
Weight	2.16 lb [0.98 kg]	
Electrical Time Constant	1.9 ms	
Mechanical Time Constant	2.9 ms	

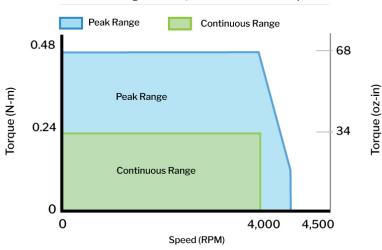
Dimensions



Performance Curve

BL34E21-02

Rated Voltage: 48 Volts, Rated Current: 2.43 Amps



Recommended Products







BLDC EXTENSION CABLE 4201-100/300

Motor Operating Specs.

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	0.787 in [20.00 mm] @ 16.80 lbs [7.62 kg]
Max. Axial Force	3.37 lbs [1.53 kg]
Insulation Class	Class B
Dielectric Strength	500 VDC for 1 minute
Insulation Resistance	100Ω min. $500VDC$
Ambient Operating Temperature	-20°C to 50°C
Storage Temperature	-20°C to 100°C
Humidity Range (%)	85% (RH) non-condensing
Direction of Rotation	CCW

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







Small Batch to OEM Volume Production

