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

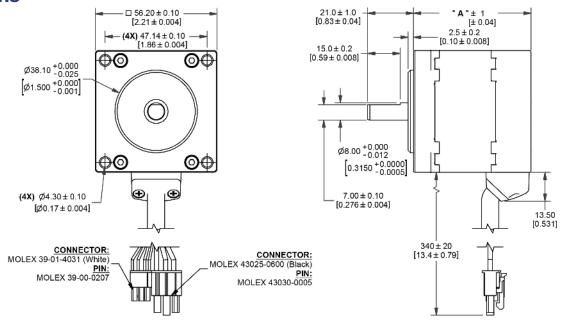
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Motor Specifications

Part Number	BL23E22-01-R0	
Dimension "A" Max	2.19 in [55.5mm]	
Rated Voltage	24 VDC	
Rated Torque	20.53 oz-in [0.145N-m]	
Rated Speed	4000 RPM	
Rated Power	60 Watts	
Rated Current	3.2 Amps	
Peak Torque	41.07 oz-in [0.29N-m]	
Peak Current	6.4 Amps	
Torque Constant (kt)	6.37 oz-in/Amp	
Back EMF Constant (Ke)	4.34 Vp/KRPM	
Motor Constant (Km)	9.2 oz-in/√W [0.065 N-m/√W]	
Resistance	0.48 Ohms	
Inductance	0.45 mH	
Rotor Inertia	0.81 oz-in ²	
Weight	1.41 lb [0.64 kg]	
Electrical Time Constant	0.9 ms	
Mechanical Time Constant	3.8 ms	

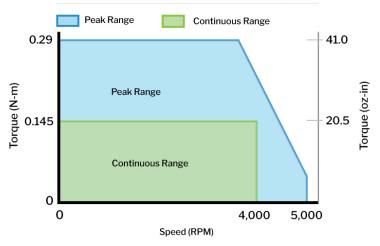
Dimensions



Performance Curve

BL23E22-01

Rated Voltage: 24Volts, Rated Current: 3.2 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	100 Ω min. 500 VDC
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

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

