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MOTOR SPECIFICATIONS

Part Number	BL23E33-01D-04R0
Length Dimension	82.5 mm [3.25 in]
Rated Voltage	24 VDC
Rated Output Power	120 W
Pole Number	8
Phase Number	3
Rated Speed	4000 RPM
Max Speed	5000 RPM
Rated Torque	0.29 N-m [41.07oz-in]
Rated Current	6.9 Amps
Back EMF Constant	3.2 Vrms/krpm [4.53Vpeak/krpm]
Moment of Inertia	0.0000279kg-m² [1.53 oz-in²]
Resistance	0.180hms
Inductance	0.18 mH
Weight	1.08 kg [2.38 lb]

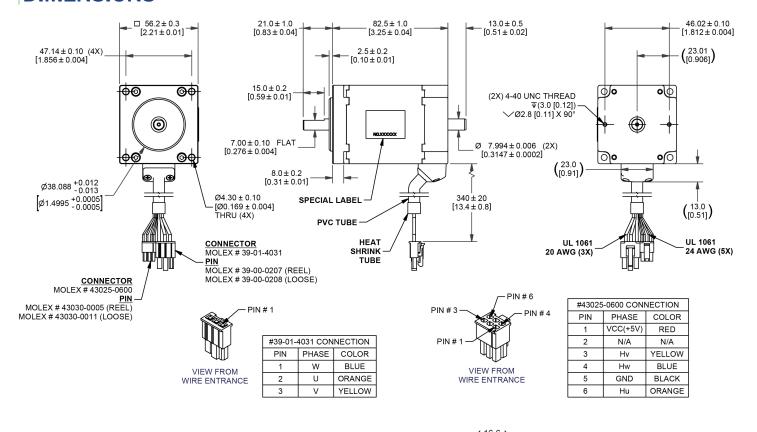
ENCODER SPECIFICATIONS

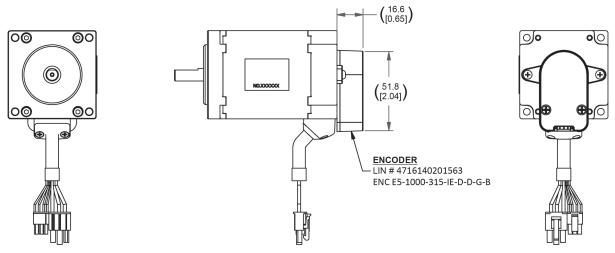
Part Number	E5 Encoder
Туре	Optical Incremental Encoder
Resolution	1000 CPR
Index	Yes
Output Type:	Differential

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	0.787 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 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-BL23E33-02

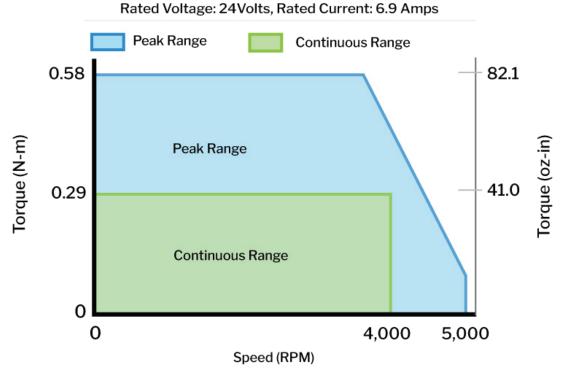


BLDC EXTENSION CABLE **4201-100/300**



E5 ENCODER CABLE CA-FC10-SH-NC-10-PKG

BL23E33-01



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









