### Encoder Resolution
- 1.25 μm
- 0.000049 in

### Intermittent Force (10% Duty Cycle)
- 6.4 N
- 23.0 oz

### Continuous Force
- 2.0 N
- 7.3 oz

### Force Constant
- 2.49 N/A
- 8.95 oz/A

### Back EMF Constant
- 2.49 V/m/s
- 0.06 V/m/s

### Stroke
- 12.7 mm
- 0.500 in

### Moving Mass
- 23 g
- 0.81 oz

### Total Mass
- 91 g
- 3.2 oz

### Coil Resistance
- 9.1 Ohms

### Coil Inductance @ 1000 Hz
- 1.6 mH

### Max Continuous Power
- 6.0 W

### Max Total Shaft Side Load
- 2.0 N
- 7.2 oz

### Linear Bearing Type
- Plain Bushing

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**Notes:**
- Motor may be supplied with optional springs.
- For proper heat dissipation, the motor should be mounted on a metallic body with adequate surface area in an unrestricted flow of air.
- All values at 25°C

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**Wire Color Description**
- Orange: +5 VDC power for optical encoder
- Green: Channel A+ output of optical encoder, TTL
- Blue: Channel A- output of optical encoder, TTL
- White: Channel B+ output of optical encoder, TTL
- Yellow: Channel B- output of optical encoder, TTL
- Brown: Return for optical encoder and thermistor
- Black: Motor minus
- Red: Motor plus
- Gray: Home indicator, TTL, active high
- Purple: Thermistor relative to return, 5mA MAX

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**Dimensions:**
- Angles: .XXX .XX ± 1/125 ± 1/2º ±0.005 ±0.01
- Tolerances on: Decimals fractions

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**Material:**

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**Contract:**

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**Application:**

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**Scale:** 1:1

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**Revisions:**

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**Zone** | **Letter** | **Description** | **Date** | **Checked** | **Approved**
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