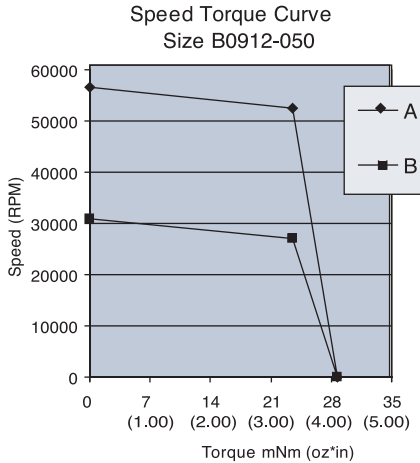
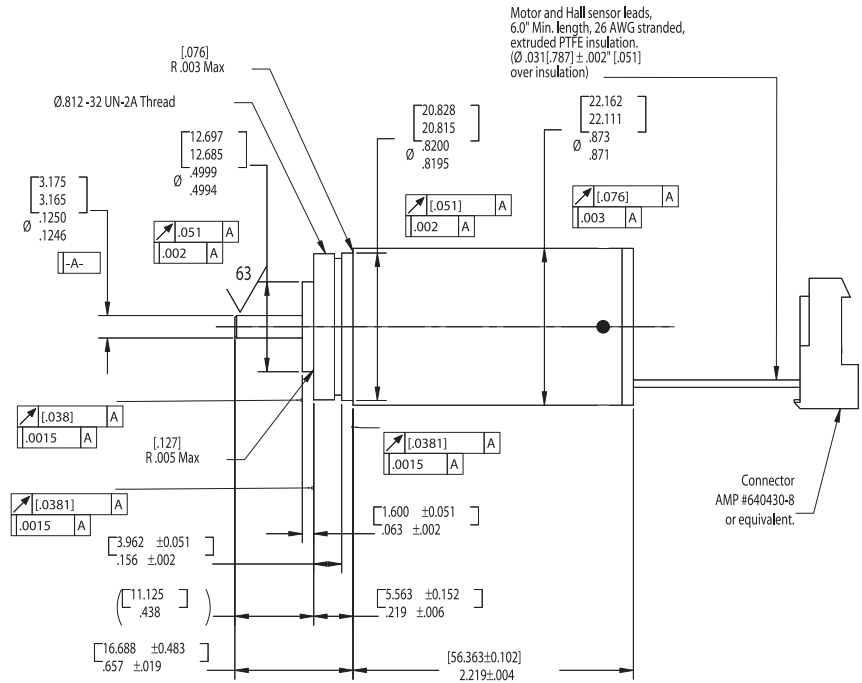


Please contact us or visit our website to learn about other available sizes: 6, 8, 10, 12



[*] denotes millimeters
Specifications subject to change without notice



Size 9 Performance Data - Model: B0912-050

| Symbol | Parameter | Units | A | B |
|--------------|--------------------------|--|--|--|
| T_{cs} | Max Cont Stall Torque | oz-in (mNm) | 4.10 (29.0) | 4.10 (29.0) |
| T_{pk} | Peak Torque | oz-in (mNm) | 41.9 (295.9) | 22.5 (158.9) |
| P_{diss}^* | Max Cont Pwr Dissipation | watt | 12.7 | 12.7 |
| W_{nl} | No Load Speed | rpm | 56,500 | 30,800 |
| I_{cs} | Max Cont Current | amp | 3.58 | 1.94 |
| K_m | Motor Constant | oz-in/watt ^{1/2} (mNm/watt ^{1/2}) | 1.15 (8.12) | 1.14 (8.05) |
| K_t | Torque Constant | oz-in/amp (mNm/amp) | 1.15 (8.12) | 2.11 (14.9) |
| t_m | Mech Time Constant | msec | 5.33 | 5.41 |
| t_e | Elec Time Constant | msec | .240 | .230 |
| J_m | Rotor Inertia | oz-in-sec ² (kg-m ²) | 5.00x10 ⁻⁵ (3.53x10 ⁻⁷) | 5.00x10 ⁻⁵ (3.53 x 10 ⁻⁷) |
| K_d | Viscous Torque (Losses) | oz-in/krpm (mNm/krpm) | 1.50x10 ⁻³ (1.06x10 ⁻²) | 1.50x10 ⁻³ (1.06x10 ⁻²) |
| R_{th} | Thermal Resistance | °C/watt | 10.2 | 10.2 |
| T_f | Static Friction Torque | oz-in (mNm) | .160 (1.13) | .160 (1.13) |
| W | Motor Weight | oz (gm) | 4.70 (133.0) | 4.70 (133.0) |

*Mounted on a 6.0" x 6.0" x 0.25" Aluminum Heat Sink

Size 9 Winding Data - Model: B0912-050

| Symbol | Parameter | Units | A | B |
|----------|-----------------------------|--------|------|------|
| V_r | Rated Voltage | VDC | 50.0 | 50.0 |
| I_{pk} | Peak Current | amp | 36.5 | 10.7 |
| K_e | Back EMF (Voltage) Constant | V/krpm | .850 | 1.56 |
| L | Inductance (Ph to Ph) | mH | .160 | .520 |
| R_c | Resistance (Ph to Ph) | Ω | .660 | 2.24 |

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