

# TSMNA26 Series Linear Actuators



## FEATURES

- **Competitively Priced, High Resolution Digital Non-Captive Linear Actuators**
- **Linear Force up to 7.68 lbs (34.2N)**
- **Linear Step Resolution of 0.0005", 0.001", 0.002" and 0.004"**
- **Unipolar and Bipolar Coil Constructions**
- **Fast, Powerful and Precise Positioning**
- **Precision Radial Ball Bearing Design**
- **Industry Standard Frame Size**
- **Customized Designs Available**
- **CE Certified and RoHS Compliant**



## DESCRIPTION

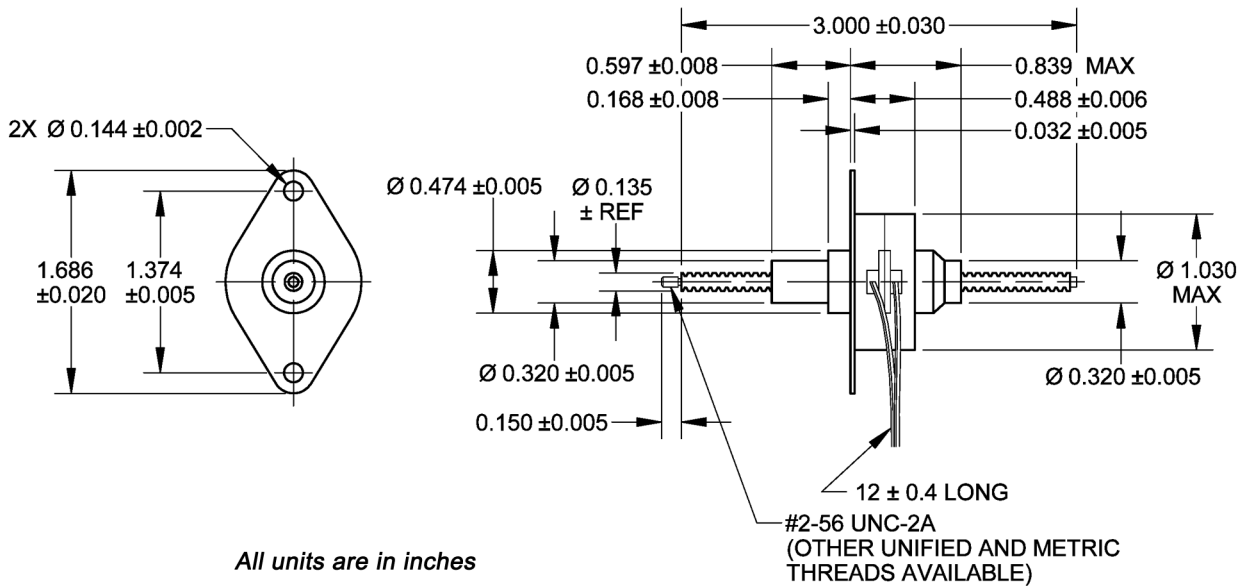
The TSMNA26 Series Non-Captive Linear Actuators are the perfect choice for cost-effective linear motion. The stepper motor internally converts rotary motion to linear motion via a rotating nut and a leadscrew. This actuator eliminates the need for other rotary-to-linear conversions such as belt and pulleys, rack and pinions, or external ball screws. Motion designs can be simplified, production costs lowered and product life enhanced. The motors can be customized to fit your machine requirements. The motor comes in a standard 6-lead configuration and is available in a 4-lead configuration. We can also customize the winding to perfectly match your voltage, current, and maximum operating speed. Special screw modifications, cables and connectors are also available upon request.

## SPECIFICATIONS

| Model #                | DC Operating Voltage (V) | Linear Travel Per Step (in) | Maximum Force (lbs) | Minimum Holding Force (lbs) | Maximum Travel (in) | Bipolar Resistance Per Phase (ohm) | Bipolar Inductance Per Phase (mH) | Bipolar Current (A) | Weight (oz) |
|------------------------|--------------------------|-----------------------------|---------------------|-----------------------------|---------------------|------------------------------------|-----------------------------------|---------------------|-------------|
| TSMNA26-005-13-034-LW6 | 5                        | 0.0005                      | 7.68                | 12.5                        | 1.89                | 29.2                               | 20.8                              | 0.24                | 1.2         |
| TSMNA26-040-13-035-LW6 | 5                        | 0.004                       | 2.00                | 1.87                        | 1.89                | 29.2                               | 15.2                              | 0.24                | 1.1         |

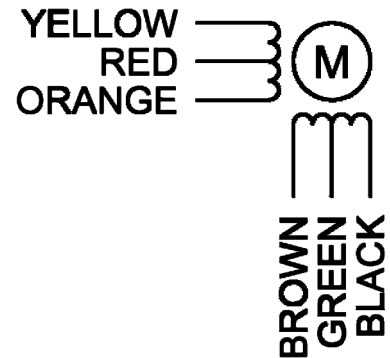
L010445

DIMENSIONS



WIRING INFORMATION

| Connection                            | Lead Wire Connection | Lead Wire Color |
|---------------------------------------|----------------------|-----------------|
| 4 - Lead Bipolar Series<br>MBC Series | Phase 1 (A)          | Yellow          |
|                                       | Phase 3 (/A)         | Orange          |
|                                       | Phase 2 (B)          | Brown           |
|                                       | Phase 4 (/B)         | Black           |
|                                       | No Connect           | Red             |
|                                       | No Connect           | Green           |
| 6 - Lead Unipolar BLD,<br>TM Series   | Phase 1              | Yellow          |
|                                       | Phase 3              | Orange          |
|                                       | Phase 2              | Brown           |
|                                       | Phase 4              | Black           |
|                                       | Common Phase 1 & 3   | Red             |
|                                       | Common Phase 2 & 4   | Green           |



SPECIFICATIONS

|                              |               |
|------------------------------|---------------|
| Max Pull-in Rate (Steps/Sec) | 600           |
| Power Consumption:           | 3.4 Watts     |
| Insulation Resistance:       | 20 M-ohms     |
| Bearings:                    | Radial Ball   |
| Weight:                      | 12 oz (34gm)  |
| Operating Temperature Range: | -20°C to 70°C |
| Storage Temperature Range:   | -40° to 85° C |

\* Measured with 2 Phases Energized