

# TSMNA35 Series Linear Actuators



## FEATURES

- **Competitively Priced, High Resolution Digital Non-Captive Linear Actuators**
- **Linear Force up to 6.5 lbs (28.9N)**
- **Linear Step Resolution of 0.001", 0.002", and 0.003"**
- **Unipolar and Bipolar Coil Constructions**
- **Fast, Powerful and Precise Positioning**
- **Precision Radial Ball Bearing Design**
- **Industry Standard Frame Size**
- **Customized Designs Available**



## DESCRIPTION

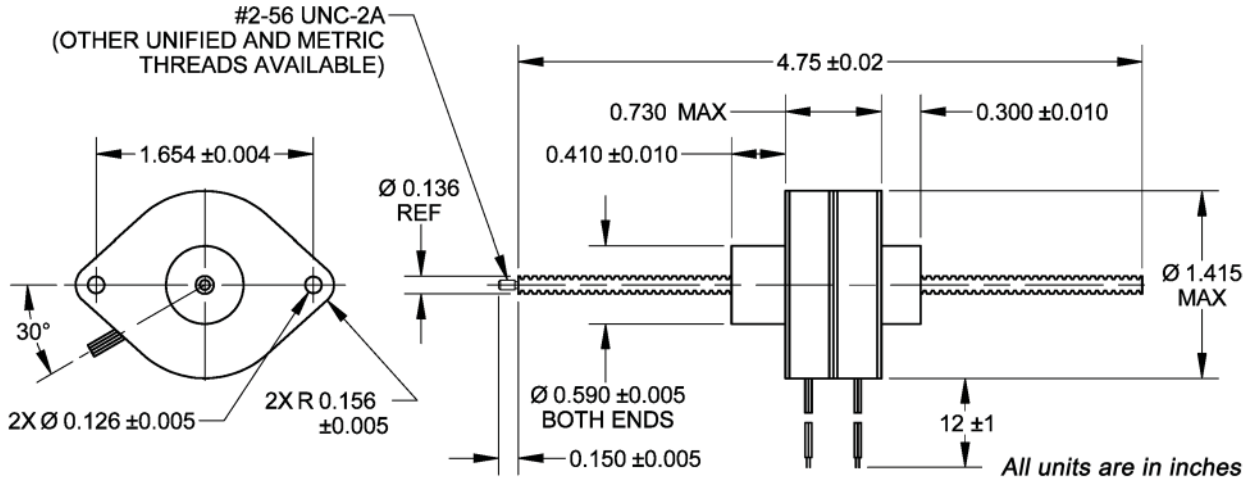
The TSMNA35 Series Non-Captive Linear Actuators are the perfect choice for cost-effective linear motion. The stepper motor internally converts rotary motion to linear motion nut and a leadscrew. This actuator eliminates the need for other rotary-to-linear conversions such as belt and pulleys, rack and 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, and 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)
TSMNA35-020-19-050-LW6	5	0.002	3.44	0.625	2.5	20	20.8	0.35	3.0

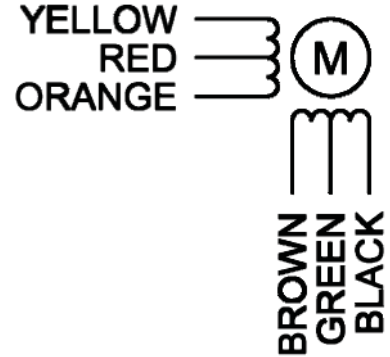
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DIMENSIONS



WIRING INFORMATION

Connection	Lead Wire Connection	Lead Wire Color
4 - Lead Bipolar Series MBC Series	Phase 1 (A)	Green
	Phase 3 (/A)	Grey
	Phase 2 (B)	Blue
	Phase 4 (/B)	White
	No Connect	Red
6 - Lead Unipolar BLD, TM Series	No Connect	Red
	Phase 1	Green
	Phase 3	Grey
	Phase 2	Blue
	Phase 4	White
	Common Phase 1 & 3	Red
	Common Phase 2 & 4	Red



SPECIFICATIONS

Max Pull-in Rate* (Steps/Sec)	425
Power Consumption:	5 Watts
Insulation Resistance:	20 M-ohms
Bearings:	Radial Ball
Weight:	3 oz (85.2gm)
Operating Temperature Range:	-20°C to 70°C
Storage Temperature Range:	-40°C to 85°C