Linear Actuator Series 36000
Ø 36 mm (1.4”)

See high resolution section for specialty Series 36000 motors

Salient Characteristics

Ø 36 mm (1.4”) motor					
Wiring		**Bipolar**			
Part No.	Captive	3644X-V		3654X-V	
	Non-captive	3634X-V		3684X-V	
Step angle		7.5°		15°	
Travel/Step avail.		.0005”*, .001”, .002”		.004”	
Operating voltage		5 VDC	12 VDC	5 VDC	12 VDC
Current/phase		460 mA	190 mA	460 mA	190 mA
Resistance/phase		11 Ω	63 Ω	11 Ω	63 Ω
Inductance/phase		7.2 mH	45 mH	5.5 mH	35 mH
Power consumption		4.6 W			
Rotor inertia		10.5 gcm^2			
Temperature rise		167°F (75°C)			
Weight		3 oz (86 g)			
Insulation resistance		20 MΩ			

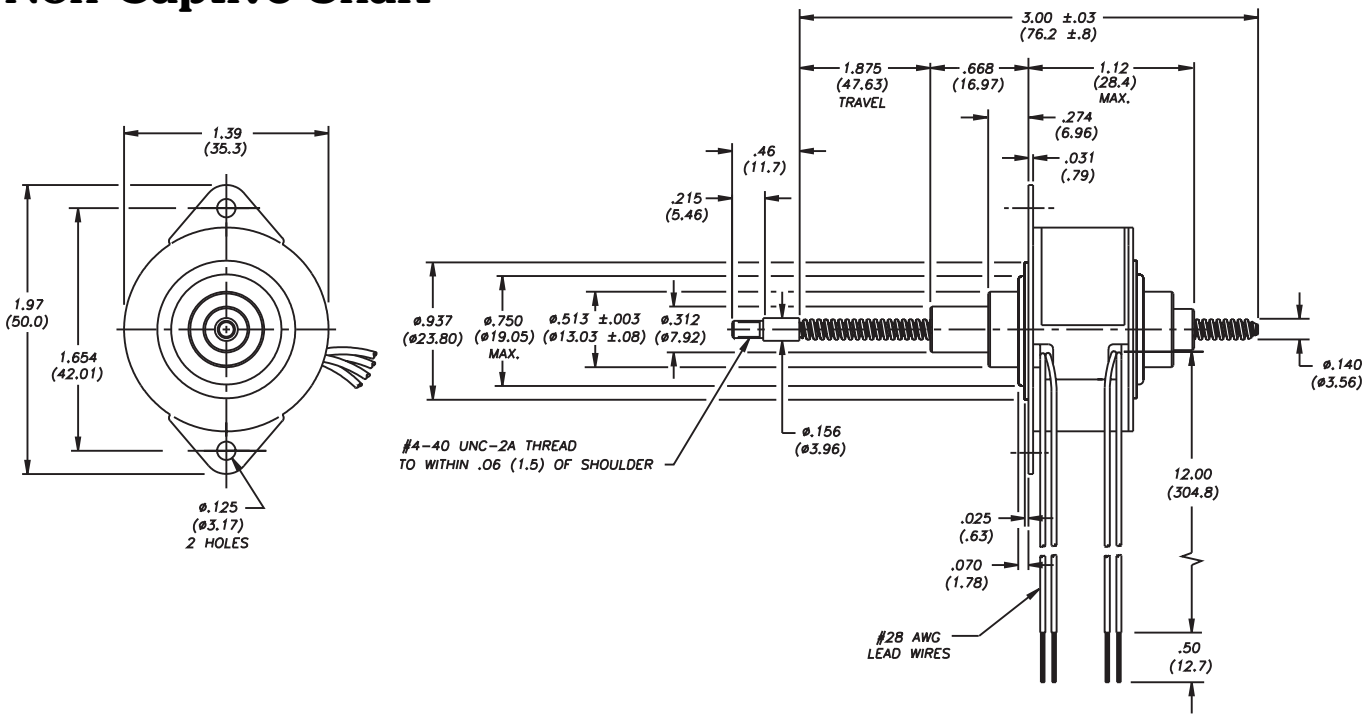
Ø 36 mm (1.4”) motor					
Wiring		**Unipolar****			
Part No.	Captive	3646X-V		3656X-V	
	Non-captive	3636X-V		3686X-V	
Step angle		7.5°		15°	
Travel/Step avail.		.0005”*, .001”, .002”		.004”	
Operating voltage		5 VDC	12 VDC	5 VDC	12 VDC
Current/phase		460 mA	190 mA	460 mA	190 mA
Resistance/phase		11 Ω	63 Ω	11 Ω	63 Ω
Inductance/phase		3.8 mH	19 mH	3 mH	15 mH
Power consumption		4.6 W			
Rotor inertia		10.5 gcm^2			
Temperature rise		167°F (75°C)			
Weight		3 oz (86 g)			
Insulation resistance		20 MΩ			

* Special drive considerations may be necessary when leaving shaft fully extended or fully retracted.

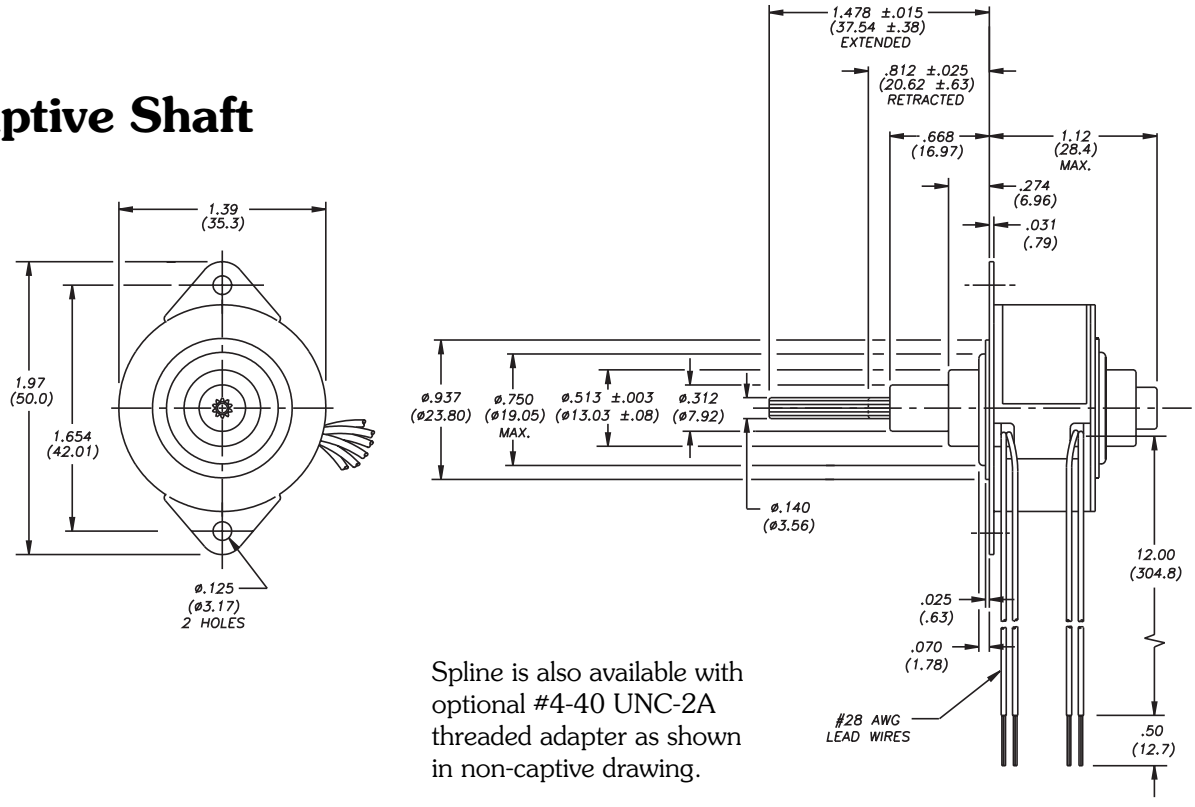
** Unipolar drive gives approximately 30% less thrust vs. bipolar drive.

Linear Series 36000 Dimensional Drawings

Non-Captive Shaft



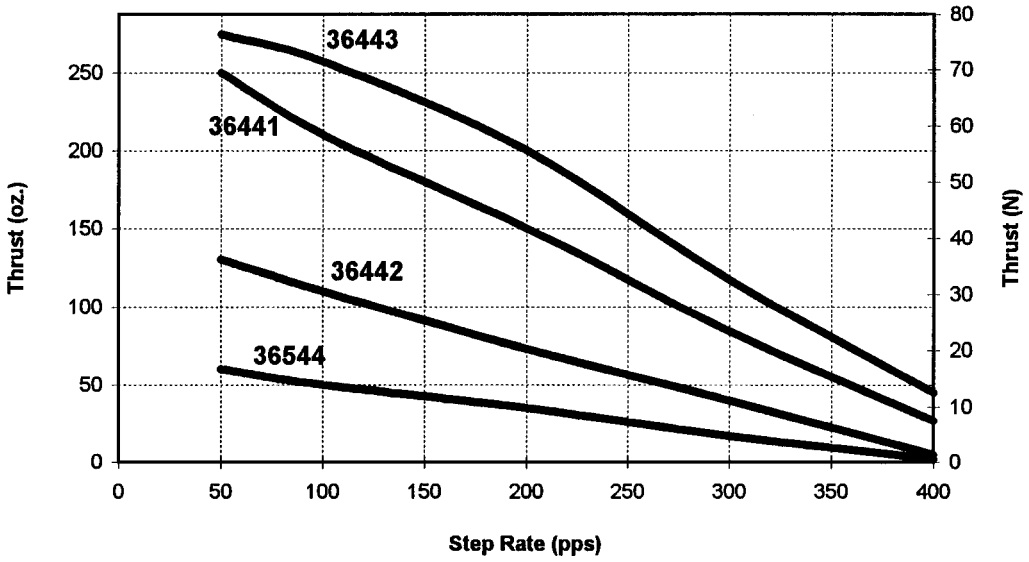
Captive Shaft



Spline is also available with optional #4-40 UNC-2A threaded adapter as shown in non-captive drawing.

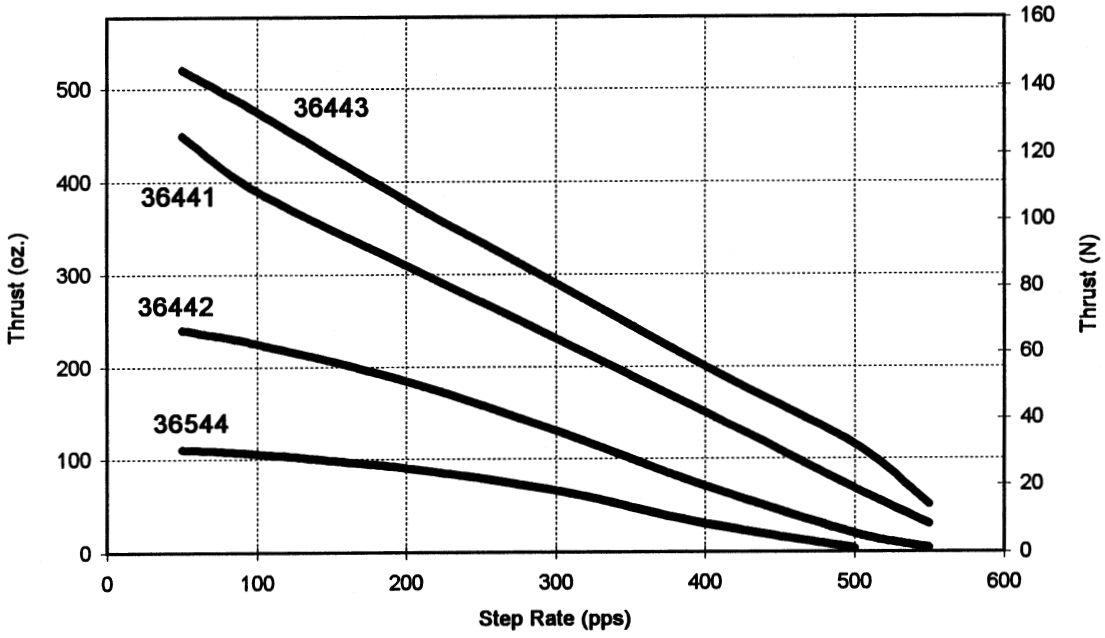
Linear Series 36000 Step Rate vs. Thrust Curves

Bipolar • L/R Drive • 100% Duty Cycle



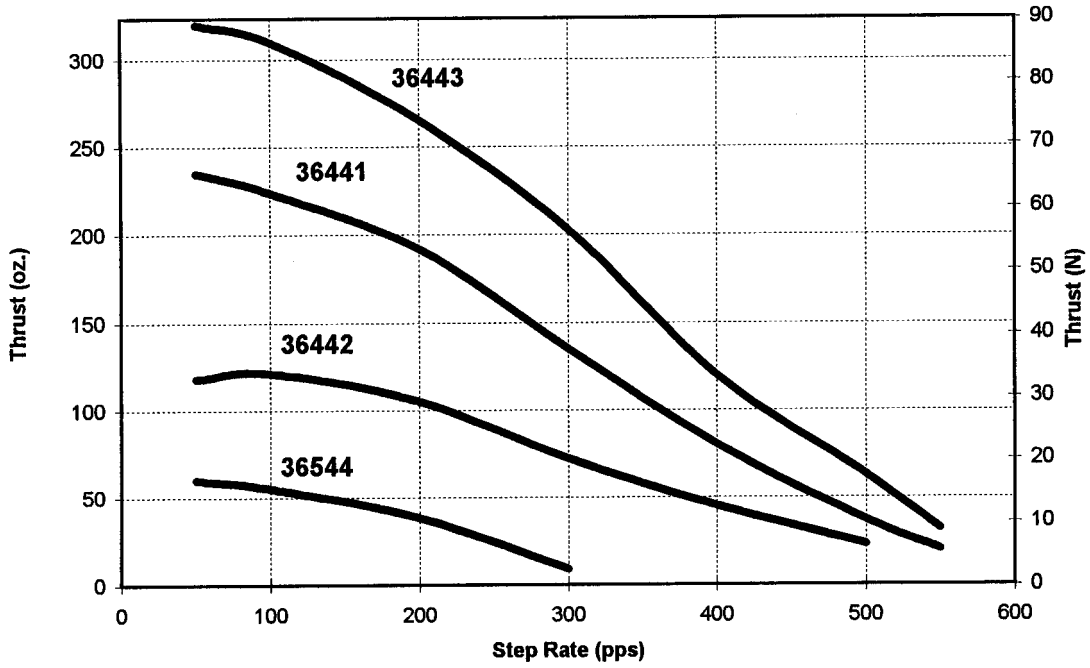
Bipolar • L/R Drive • 25% Duty Cycle

25% duty cycle is obtained by a special winding or by running a standard motor at double the rated voltage.



Linear Series 36000 Step Rate vs. Thrust Curves

Bipolar • Chopper Drive • 100% Duty Cycle



Bipolar • Chopper Drive • 25% Duty Cycle

25% duty cycle is obtained by running a standard motor at double the rated current.