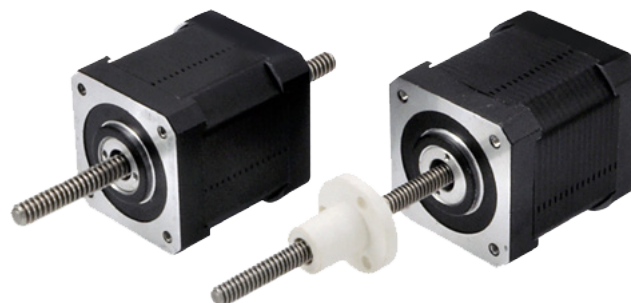


17AW Stepper Linear Actuators



FEATURES

- NEMA Size 17
- Motor Winding Options Available
- Custom Lead Screw Lengths
- Stepper Motor with Internal Nut
- Self Contained Package with Ball Bearings
- 1.8° Step Angle
- Multiple Lead Screw Thread Options
- From 0.03175mm up to 0.003969mm Per Full Step



DESCRIPTION

Anaheim Automation's 17AW leadscrew Stepper Motors were designed to be the most versatile linear position motors in today's market. These robust linear actuators, available in non-captive, external linear, or anti-backlash options, use a NEMA 17 hybrid stepper motor, and can be easily configured to solve difficult applications problems. Integration of a leadscrew with a motor saves space, eliminates components, and reduces cost. While many standard configurations are available, custom modifications for OEM customers are welcome.

17AW102CX12-LW4-NC

Frame
NEMA 17

102	34mm Motor Length 0.70A Rated Current
302	48mm Motor Length 0.85A Rated Current

Travel Per Step	
CODE	Travel (mm)
A	0.0079375
B	0.015875
C	0.03175
P	0.003969
9	0.00635

Lead Screw Length "LS"		
CODE	in	mm
01	1	25.4
02	2	50.8
06	6	152.4
12	12	304.8
18	18	457.2

Of Lead Wires
LW4 4

Type	
EL	External Linear
NC	Non-Captive
EA	Anti-Backlash
CS	Captive Shaft*

*Captive Shaft
Max Stroke is
50.8mm(2")

Note: See *Accessories* on our website for optional encoder and/or connector adders.

ORDERING INFORMATION

External Linear (EL)

Nut Part #	Description
17AW-C-NUT	Replacement nut for 17AW-EL stepper motor with 6.35mm lead, Leadscrew thread code C
17AW-P-NUT	Replacement nut for 17AW-EL stepper motor with 0.79375mm lead, Leadscrew thread code P

Anti-Backlash (EA)

Nut Part #	Description
17AW-C-ANUT	Replacement nut for 17AW-EA stepper motor with 6.35mm lead, Leadscrew thread code C
17AW-P-ANUT	Replacement nut for 17AW-EA stepper motor with 0.79375mm lead, Leadscrew thread code P

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SPECIFICATIONS

Motor Specifications

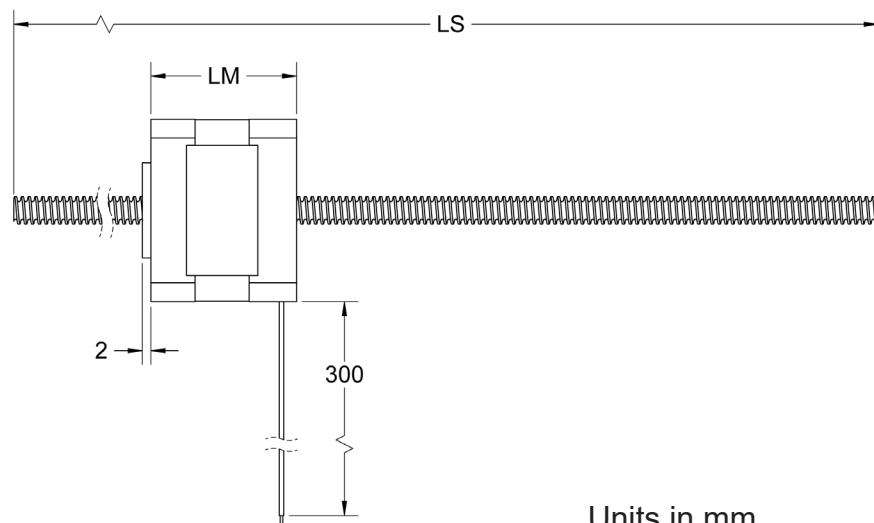
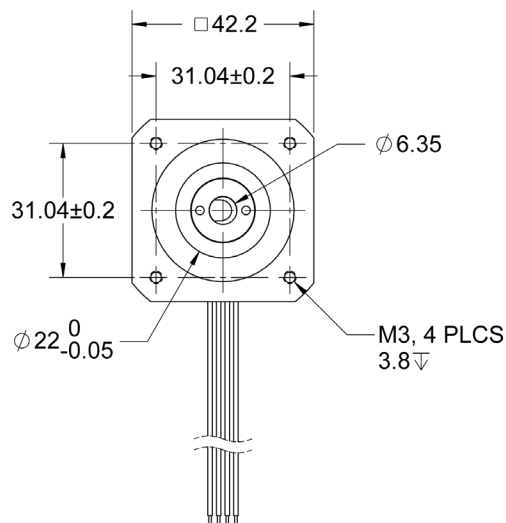
Model Number	Voltage (V)	Bipolar Current (A)	Resistance (ohms)	Inductance (mH)	Number of Leads	Motor Weight (lbs)	Motor Length "LM" (mm)	Screw Length (in(mm))
17AW102CX12-LW4-NC	5.2	1	7.3 ± 10%	10 ± 20%	4	0.65	34	12 (304.8)
17AW102PX06-LW4-EL	5.6	1	7.3 ± 10%	10 ± 20%	4	0.60	34	6 (152.4)
17AW102PX12-LW4-EA	5.2	0.7	7.3 ± 10%	10 ± 20%	4	0.53	34	12 (304.8)
17AW102PX12-LW4-EL	5.2	1	7.3 ± 10%	10 ± 20%	4	0.65	34	12 (304.8)
17AW102PX12-LW4-NC	5.2	1	7.3 ± 10%	10 ± 20%	4	0.58	34	12 (304.8)
17AW302CX06-LW4-EA	5.6	0.8	6.6 ± 10%	11 ± 20%	4	0.77	48	6 (152.4)
17AW302CX06-LW4-EL	5.6	1	6.6 ± 10%	11 ± 20%	4	0.77	48	6 (152.4)
17AW302CX12-LW4-NC	5.6	1	6.6 ± 10%	11 ± 20%	4	0.90	48	12 (304.8)
17AW302PX06-LW4-EA	5.6	0.8	6.6 ± 10%	11 ± 20%	4	0.77	48	6 (152.4)
17AW302PX06-LW4-EL	5.6	0.8	6.6 ± 10%	11 ± 20%	4	0.77	48	6 (152.4)
17AW302PX06-LW4-NC	5.6	1	6.6 ± 10%	11 ± 20%	4	0.77	48	6 (152.4)
17AW302CX07.5-LW4-EL-01	5.6	1	6.6 ± 10%	11 ± 20%	4	0.77	48	7.5 (190.5)
17AW302CX13.5-LW4-EL-01	5.6	1	6.6 ± 10%	11 ± 20%	4	0.77	48	13.5 (342.9)

Leadscrew Thread Dimension (mm)

Code	Diameter (mm)	Step (mm)	Lead (mm)
A	6.35	0.0079375	1.5875
B	6.35	0.015875	3.175
C	6.35	0.03175	6.35
P	6.35	0.00396875	0.79375
9	6.35	0.00635	1.27

DIMENSIONS

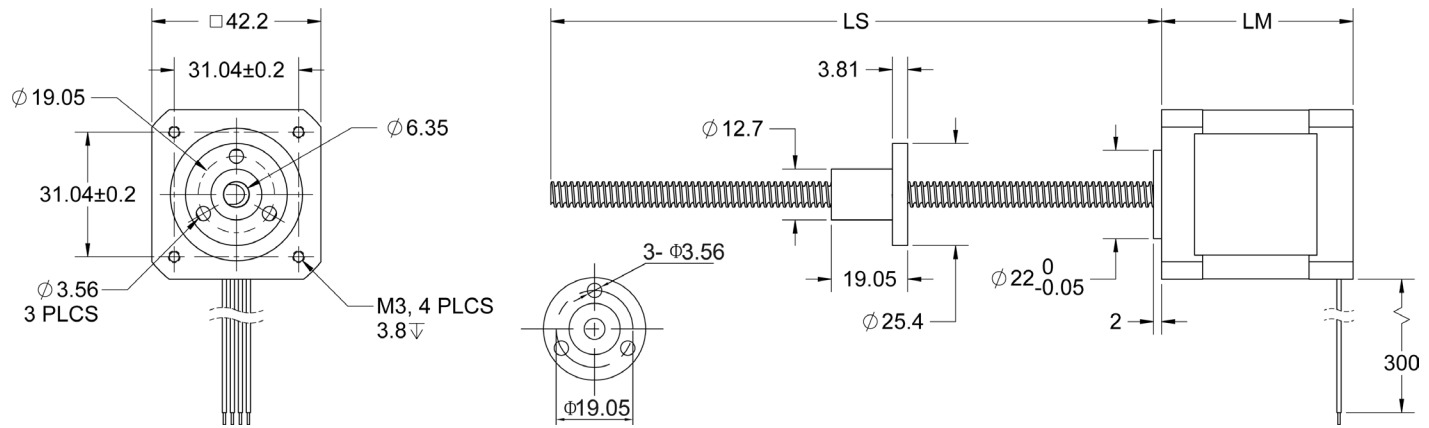
Non-Captive (NC)



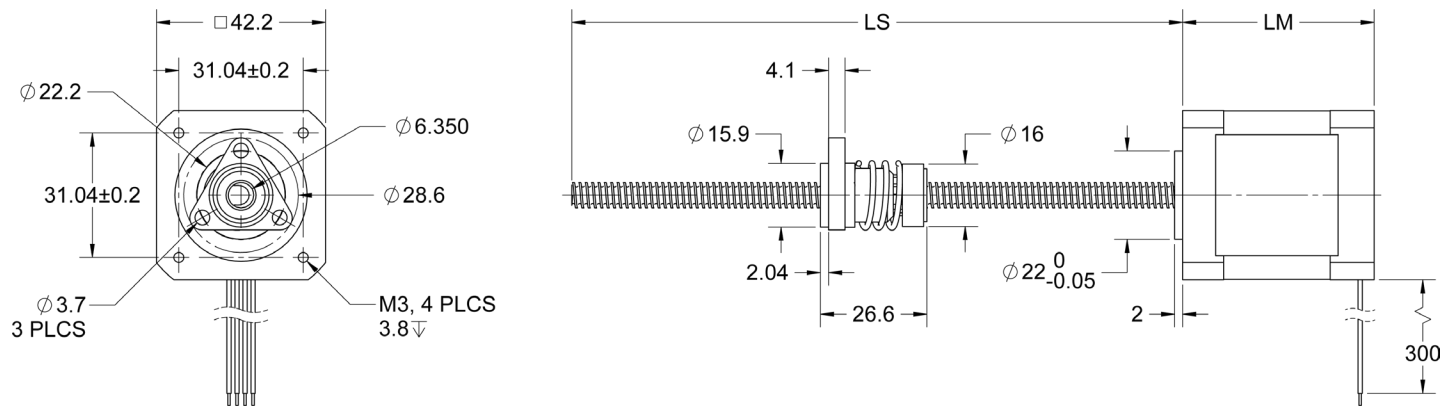
Units in mm

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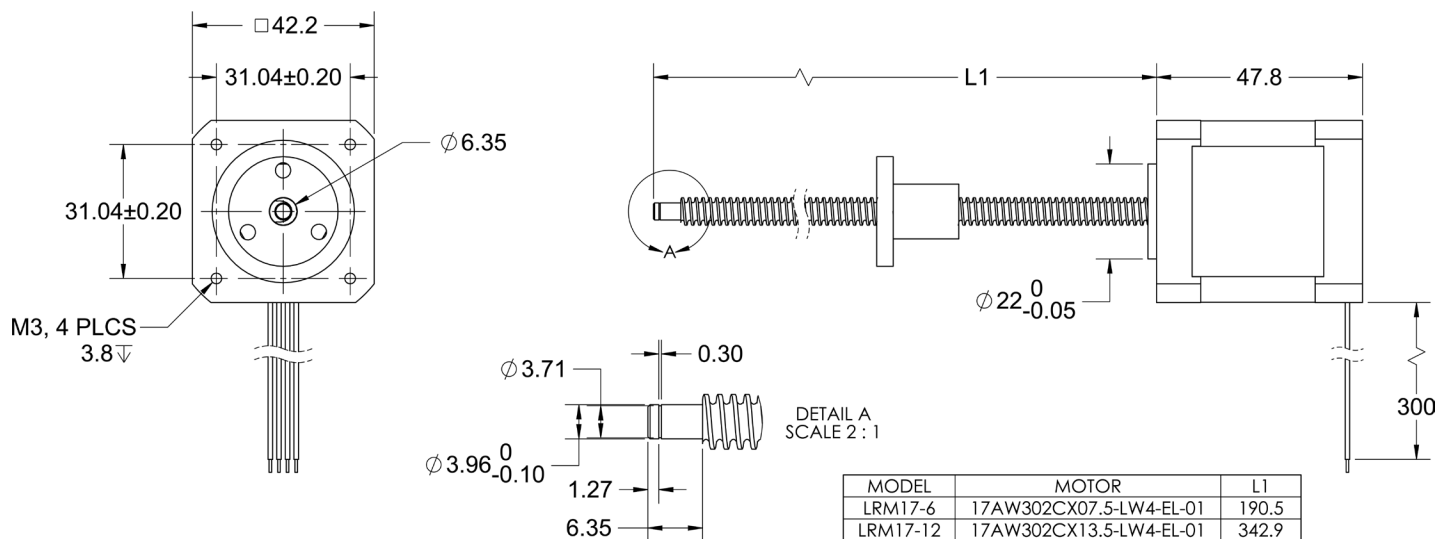
External Linear (EL)



Anti-Backlash Nut(EA)



EL-01



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WIRING INFORMATION

