

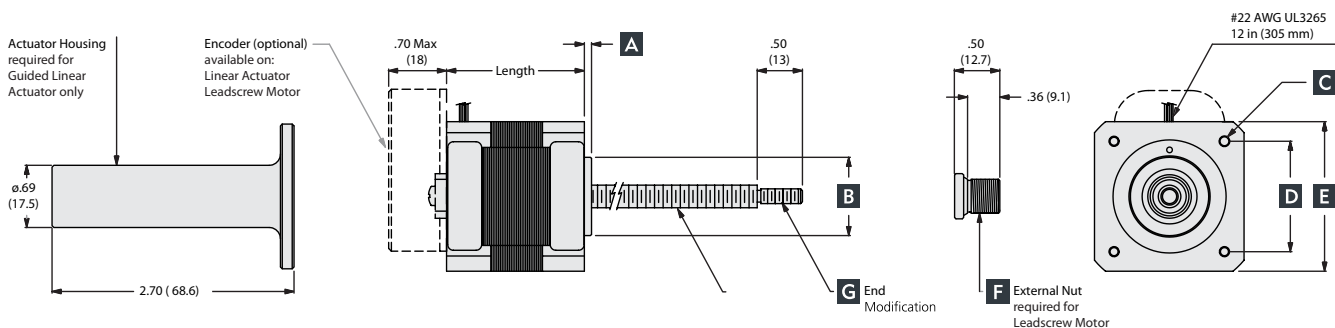
The **APPS17** is a 42mm / NEMA 17 frame, hybrid stepper-based actuator. The APPS17 is available in standard or custom designs as a linear actuator (non-captive), leadscrew motor (external linear), or guided linear actuator (captive). A variety of resolutions are offered, ranging from 0.006 to 0.032 mm per step, with an output force of up to 351 N (79 lbs.)



APPS17 STEPPER LINEAR ACTUATOR

Size	NEMA 17
Force	120 N (27 lbs.) to 351 N (79 lbs.)

Model	A Pilot Length	B Pilot Diameter	C Mount Hole Callout	D Mount Hole Spacing	E External Flange Dimension	F External Nut Thread	G Screw End Mod
APPS17-29	0.08 in	0.8660 in	(4) 4-40UNC-2B 0.17 in deep	1.22 in	1.65 in	3/8-40 UNF	10-32 UNC
APPS17-47		0.8648 in					M5 x 0.8
APPS17M-21	2.0 mm	22.00 mm 21.96 mm	(4) M3x0.5-6H 3.5 mm deep	31 mm	42 mm	M10x1.25	0.196 / 0.195
APPS17M-33							(5) dia Journal



APPS17

ElectroCraft AxialPower™ Plus

STEPPER LINEAR ACTUATOR



APPS17 Model Number Example

Model Number	Length (in)	Length (mm)	Weight (g)	Rotor Inertia (g-cm ²)
APPS17-29A	1.28	32.5	198	37.43
APPS17M-21A				
APPS17-47A	1.52	38.6	255	57.21
APPS17M-33A				

Thread Description	Lead (in)	Lead (mm)	Travel/Step (in)	Travel/Step (mm)	Max Force APPS17-29 (lbs)	Max Force APPS17-29 (N)	Max Force APPS17-47 (lbs)	Max Force APPS17-47 (N)
A 1/4-16 (15)	0.06250	1.5875	0.0003125	0.007938	49	218.0	79	351.4
B 1/4-16 (25)	0.12500	3.1750	0.0006250	0.015875	41	182.4	66	293.6
C 1/4-16 (45)	0.25000	6.3500	0.0012500	0.031750	27	120.1	44	195.7
E 1/4-20 (15)	0.05000	1.2700	0.0002500	0.006350	49	218.0	79	351.4
F 1/4-20 (45)	0.20000	5.0800	0.0010000	0.025400	32	142.3	53	235.8
M 6mm x 1.2mm (15)	0.04724	1.20000	0.0002362	0.006000	49	218	79	351.4
N 6mm x 1.2mm (25)	0.09449	2.40000	0.0004724	0.012000	42	186.8	70	311.4

APPS 17 M - 29 A 10 - 0 A C 4 1 - X

Windings		Rated Voltage (VDC)	Rated Current (A)	Phase Resistance (Ohm)	Phase Inductance (mH)
Imperial	Metric				
29A10	21A10	3.80	1.00	3.80	6.00
29A15	21A15	2.80	1.50	1.90	2.80
29A20	21A20	1.90	2.00	0.95	1.50
47A10	33A10	4.70	1.00	4.70	11.40
47A15	33A15	3.60	1.50	2.40	5.90
47A20	33A20	2.40	2.00	1.20	2.90

Actuator Type	
0	Linear Actuator
1	Leadscrew Motor
2	Guided Linear Actuator

Lead Termination	
0	Flying Leads
1	Leads w/Connector

Feedback	
X	No Encoder
B	400 Line Differential
D	1000 Line Differential
H	400 Line Single Ended
K	1000 Line Single Ended

Leadscrew End Features	
0	No End Feature
1	6-32 UNC x 12.7mm
2	M2.5 x 0.45 x 12.7mm
3	Ø.098/Ø.097 x 12.7mm
4	#10-32 UNF x 12.7mm
5	M5 x 0.8 x 12.7mm
6	Ø.196/Ø.195 x 12.7mm

Screw Length	
X	No Leadscrew
A	76.2mm (3 inches)
B	152.4mm (6 inches)
C	304.8mm (12 inches)
D	457.2mm (18 inches)
E	609.6mm (24 inches)



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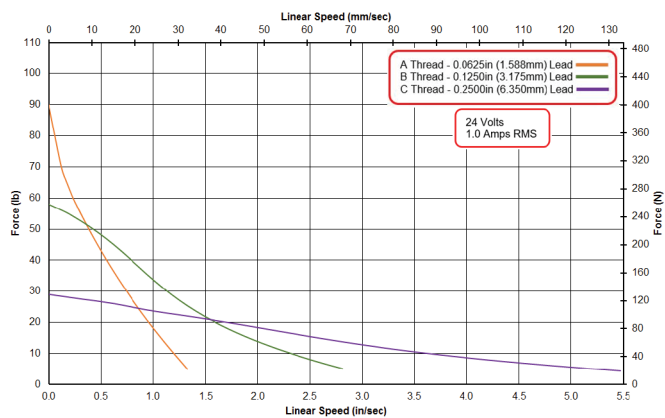
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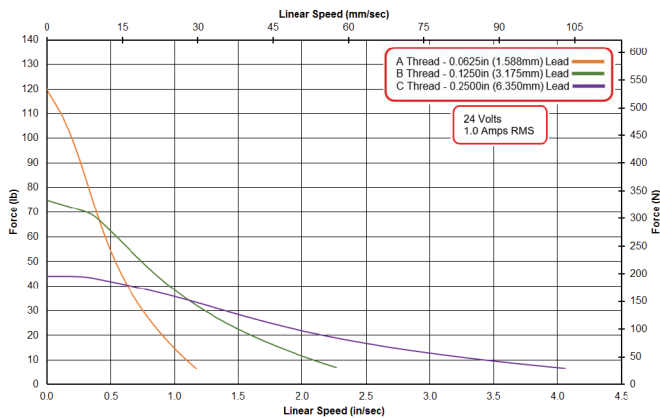
Email: sales@electrocraft.com
www.electrocraft.com

APPS17 Performance Curves

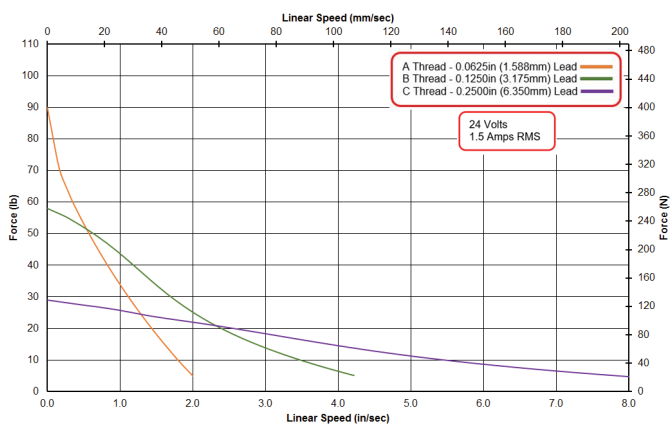
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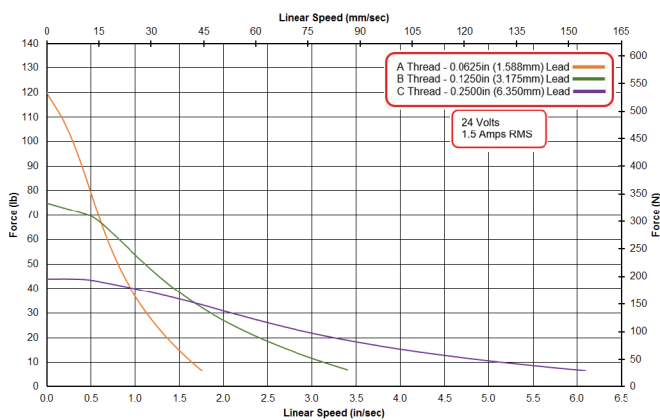
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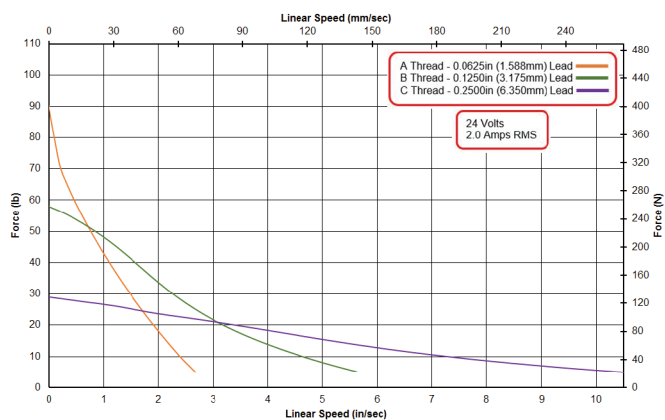
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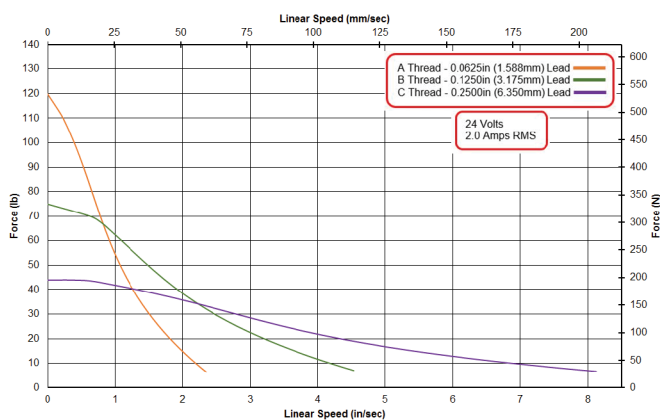
APPS17-47A15



APPS17-29A20



APPS17-47A20



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