



Partners





Certifications

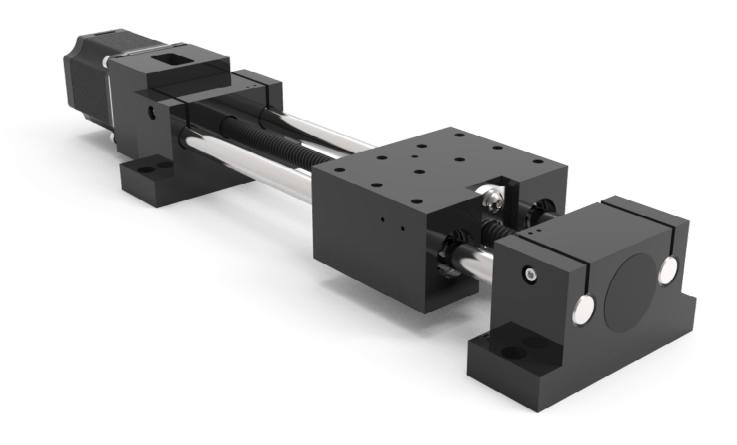






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Market Segments Served



Medical & Diagnostic



Aerospace



Packaging



Automotive



Electronics



Transportation



Patient Handling



Entertainment



Semiconductors



Military and Defense



Factory Automation



Pulp & Paper



Steel



Chemical



Agriculture/Food Handling



Tire Manufacture





Helix Linear Technologies, Inc., Beachwood, Ohio USA

Company

Helix Linear Technologies is a global supplier in the medical device, life science, security, semiconductor, ærospace, electromechanical, and defense industries. Leading the linear motion industry by manufacturing the highest quality linear actuation solutions in the world, we focus on helping our customers be productive and profitable. Our innovative product design solves real-world linear motion issues and builds a foundation for long term success.

Culture

Our culture is rooted in teamwork and consists of smart, happy, and competitive professionals focused on manufacturing innovative products and delivering precise electromechanical linear motion solutions. We are in the people business, as well as the product business. Our talented employees make and sell our products, and our extraordinary scope of teamwork keeps our company healthy.

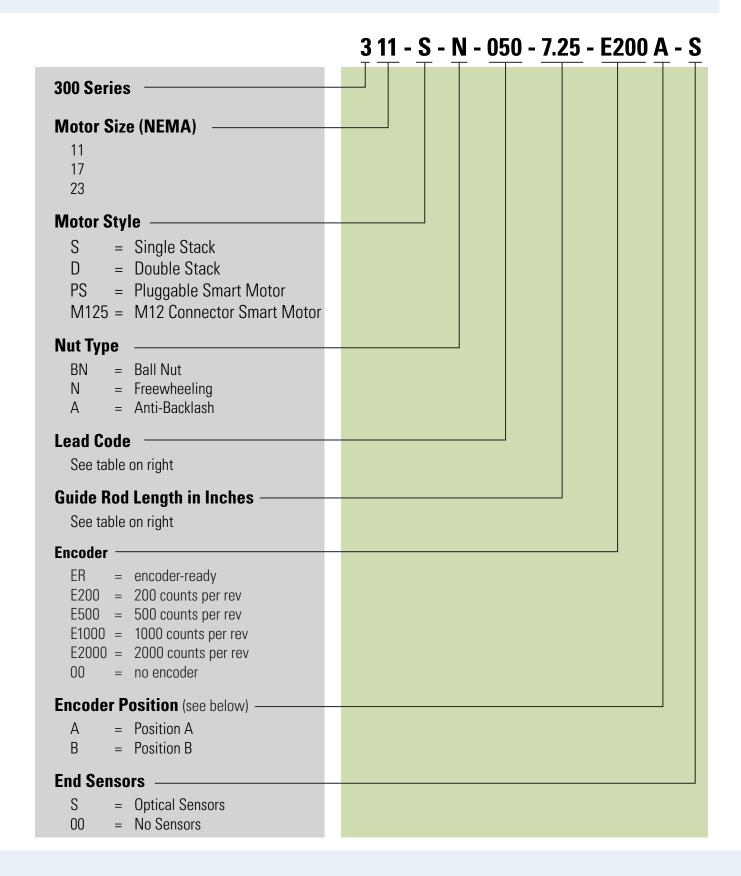
History

Helix Linear Technologies was founded in 2011 to meet the demand for high-quality lead screws in the growing electromechanical actuation industry. Our rapid growth has included the addition of end-to-end linear actuator solutions, providing integrated solutions.

300 Series

Part Number Configuration Guide





Guide Rod Length

Tra	vel	Guide I	Rod Length in	Inches
in	mm	NEMA 11	NEMA 17	NEMA 23
1.00	25.4	4.25	5.25	7.00
2.00	50.8	5.25	6.25	8.00
3.00	76.2	6.25	7.25	9.00
4.00	101.6	7.25	8.25	10.00
5.00	127.0	8.25	9.25	11.00
6.00	152.4	9.25	10.25	12.00
7.00	177.8	10.25	11.25	13.00
8.00	203.2	11.25	12.25	14.00
9.00	228.6	12.25	13.25	15.00
10.00	254.0	13.25	14.25	16.00
11.00	279.4	-	15.25	17.00
12.00	304.8	-	16.25	18.00
13.00	330.2	-	17.25	19.00
14.00	355.6	_	18.25	20.00
15.00	381.0	-	19.25	21.00
16.00	406.4	-	20.25	22.00
17.00	431.8	-	21.25	23.00
18.00	457.2	-	22.25	24.00
19.00	482.6	-	-	25.00
20.00	508.0	-	-	26.00
21.00	533.4	-	-	27.00
22.00	558.8	-	-	28.00
23.00	584.2	-	-	29.00
24.00	609.6	-	-	30.00

Lead Codes

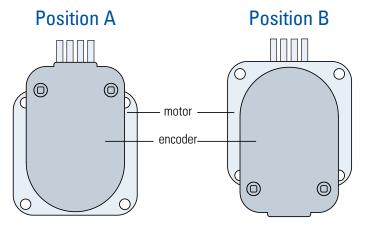
Lead	Le	ad	Nut	Availab	ility
Code	in	mm	11	17	23
025	.025	0.6	•	•	-
039	.039	1.0	0	\bigcirc	
078	.079	2.0			
100	.100	2.5	•	•	
200	.200	5.1	•	•	•
250	.250	6.4	•	•	
500	.500	12.7	•	•	•
999	1.000	25.4	•	•	•

All nut types

Ball Nuts only

Lead Screw Nuts only

Encoder Positions

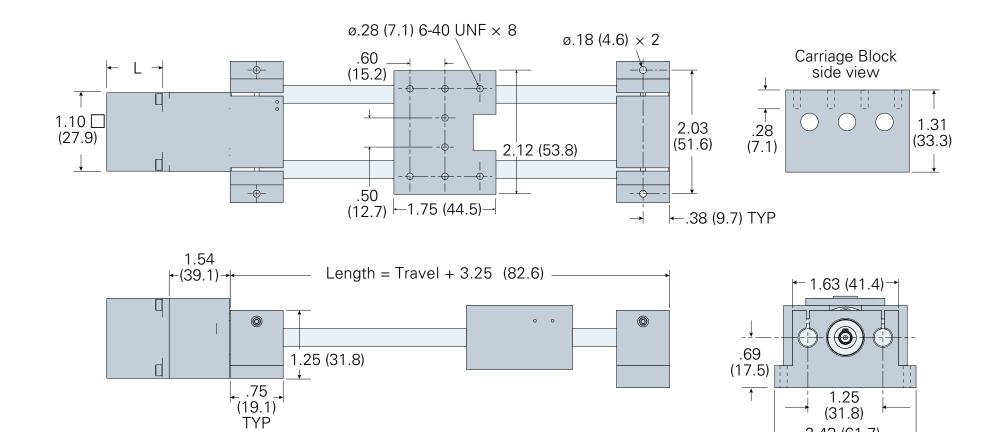




300 Series

NEMA 11





Guide Rod Length

2.43 (61.7) ----

mm

32

45

Tra	ıvel	Rod Length
in	mm	in Inches
1.00	25.4	4.25
2.00	50.8	5.25
3.00	76.2	6.25
4.00	101.6	7.25
5.00	127.0	8.25
6.00	152.4	9.25
7.00	177.8	10.25
8.00	203.2	11.25
9.00	228.6	12.25
10.00	254.0	13.25

Lead Codes

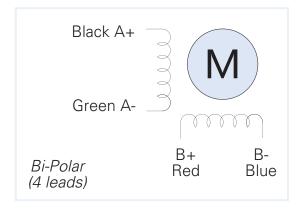
Lead	Le		
Code	in	mm	
025	.025	0.6	•
039	.039	1.0	
078	.079	2.0	
100	.100	2.5	•
200	.200	5.1	•
250	.250	6.4	•
500	.500	12.7	•
999	1.000	25.4	•

All Nut TypesLead Screw Nuts only

Motor Specifications

• 24 VDC	Motor Length	Current	Resistance/ Phase	Inductance/ Phase	Holding Torque	L
Bipolar Wiring Anala		А	Ω	mH	N-m	in
 1.8° Step Angle Insulation Resistance: 20 MΩ Temperature Rise: 135° F 	Single Stack	0.67	5.6	4.2	0.060	1.260
	Double Stack	0.67	6.8	4.9	0.095	1.772

Wiring Diagram

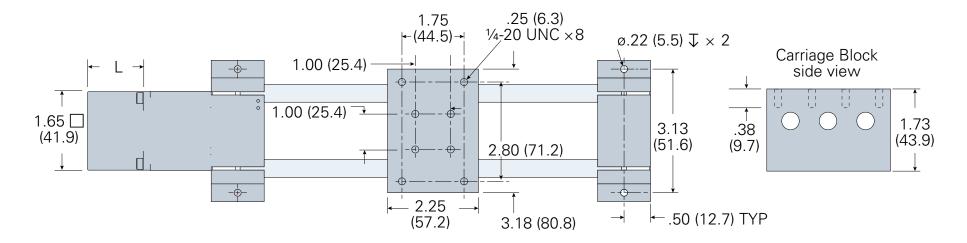


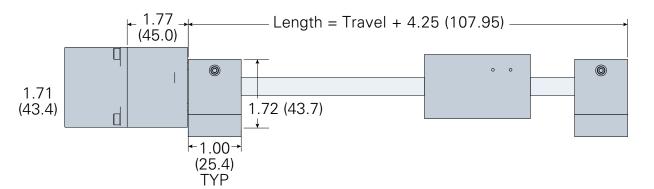


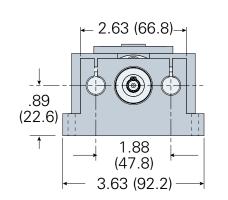
300 Series











Motor Specifications

 24 VDC Bipolar Wiring 1.8° Step Angle Insulation Resistance: 20 MΩ Temperature Rise: 135° F 	Motor Length	Current	Resistance/ Phase	Inductance/ Phase	Holding Torque	L	
		А	Ω	mH	N-m	in	mm
	Single Stack	1.33	2.1	2.5	0.22	1.299	33
	Double Stack	1.68	1.65	2.8	0.44	1.850	47

Guide Rod Length

Travel		Rod Length
in	mm	in Inches
1.00	25.4	5.25
2.00	50.8	6.25
3.00	76.2	7.25
4.00	101.6	8.25
5.00	127.0	9.25
6.00	152.4	10.25
7.00	177.8	11.25
8.00	203.2	12.25
9.00	228.6	13.25
10.00	254.0	14.25
11.00	279.4	15.25
12.00	304.8	16.25
13.00	330.2	17.25
14.00	355.6	18.25
15.00	381.0	19.25
16.00	406.4	20.25
17.00	431.8	21.25
18.00	457.2	22.25

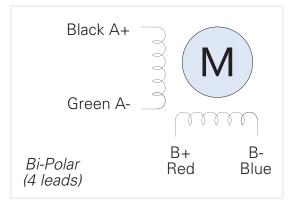
Lead Codes

Lead	Le	ad	
Code	in	mm	
025	.025	0.6	•
039	.039	1.0	
078	.079	2.0	
100	.100	2.5	•
200	.200	5.1	•
250	.250	6.4	•
500	.500	12.7	•
999	1.000	25.4	•

All Nut Types

Lead Screw Nuts only

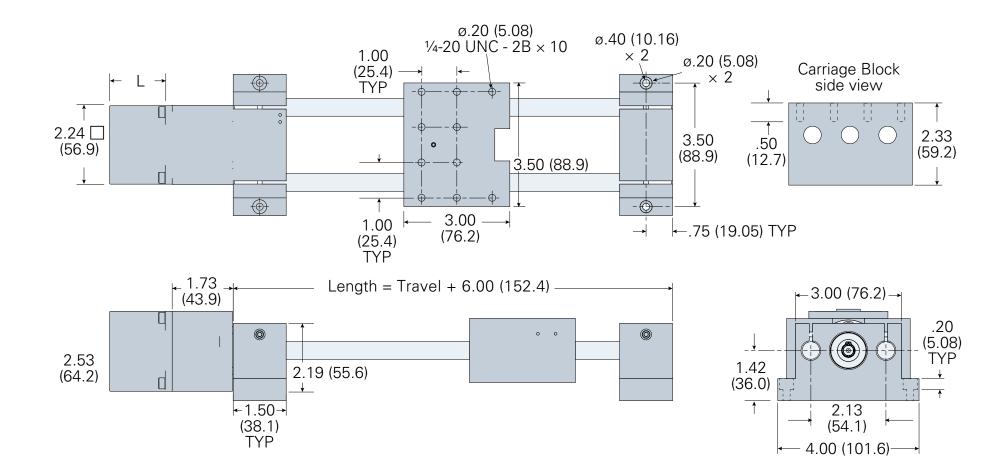
Wiring Diagram





300 Series NEMA 23





Guide Rod Length

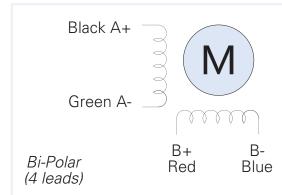
Tra	vel	Rod Length
in	mm	in Inches
1.00	25.4	7.00
2.00	50.8	8.00
3.00	76.2	9.00
4.00	101.6	10.00
5.00	127.0	11.00
6.00	152.4	12.00
7.00	177.8	13.00
8.00	203.2	14.00
9.00	228.6	15.00
10.00	254.0	16.00
11.00	279.4	17.00
12.00	304.8	18.00
13.00	330.2	19.00
14.00	355.6	20.00
15.00	381.0	21.00
16.00	406.4	22.00
17.00	431.8	23.00
18.00	457.2	24.00
19.00	482.6	25.00
20.00	508.0	26.00
21.00	533.4	27.00
22.00	558.8	28.00
23.00	584.2	29.00
24.00	609.6	30.00

Lead Codes

Lead	Lea	Lead	
Code	in	mm	
039	.039	1.0	
078	.079	2.0	
100	.100	2.5	•
200	.200	5.1	•
250	.250	6.4	•
500	.500	12.7	•
999	1.000	25.4	•

- Ball Nuts Only
- Lead Screw Nuts only

Wiring Diagram



Motor Specifications

• 24 VDC	
Bipolar Wiring	
• 1.8° Step Angle	
Alan India Danistana OO N	л

• Insulation Resistance: 20 MΩ

• Temperature Rise: 135° F

Motor	Current	Resistance/	Inductance/	Holding	L	
Length		Phase	Phase	Torque		
	А	Ω	mH	N-m	in	mm
Single Stack	2.8	0.7	1.4	0.55	1.77	41
Double Stack	2.8	0.9	2.5	1.26	2.52	56