

- Low Inertia
- Excellent Step Accuracy
- Can be Customized for:
 - Maximum Torque (see page 9)
 - Cables & Assemblies (see pages 21/70)
 - Shafts (see pages 21/69)
 - Drivers & Controllers (see page 99-108)
 - Maximum Efficiency (see page 12)

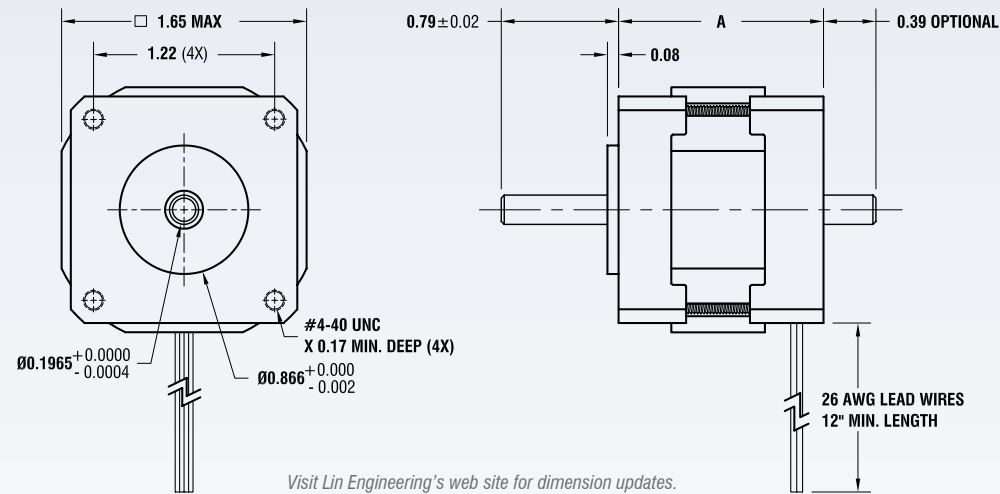


SPECIFICATIONS

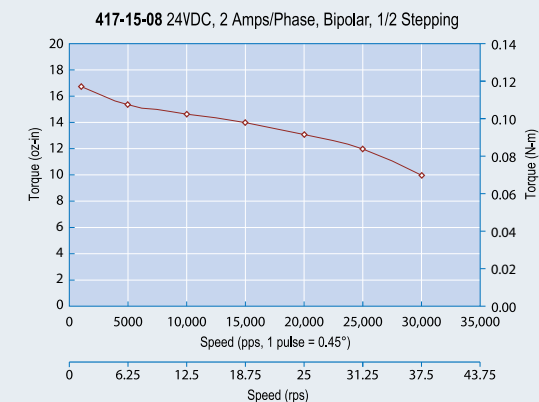
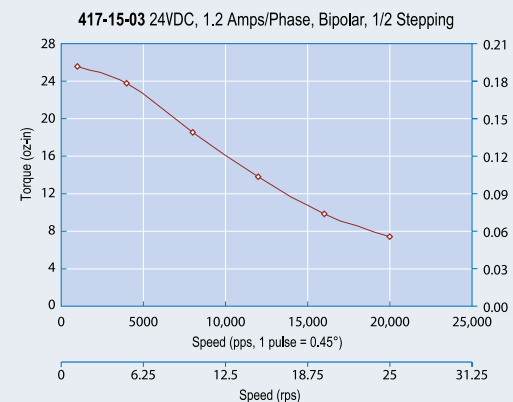
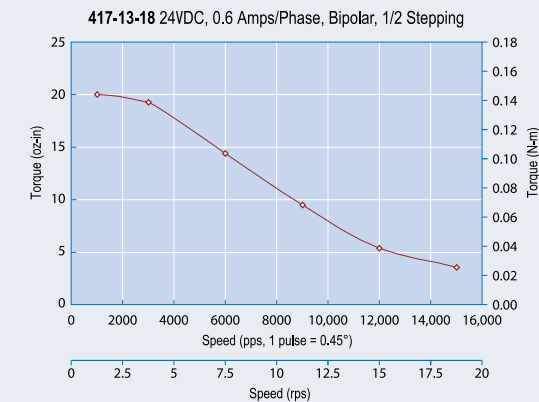
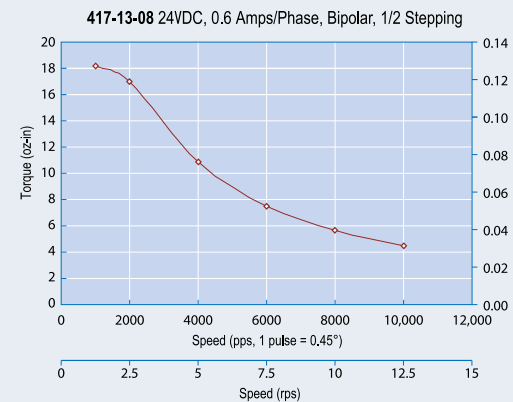
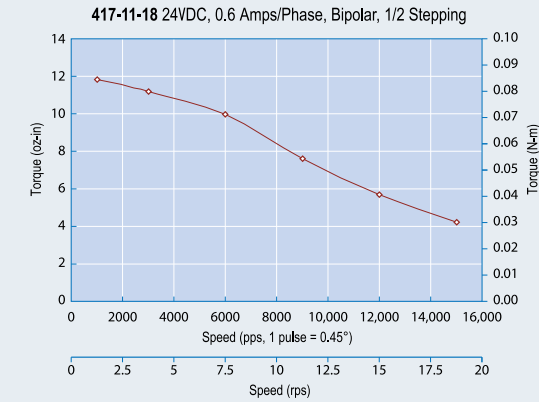
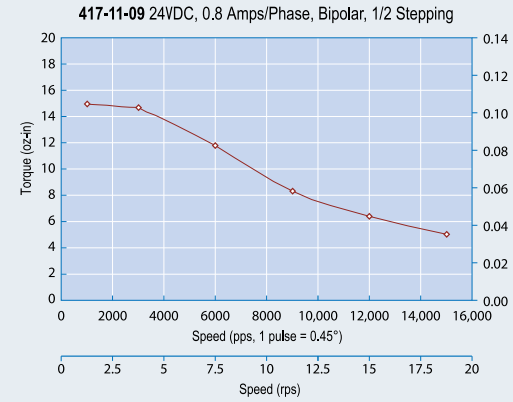
BIPOLAR	Dimension "A" Max	Model #	Rated Current (Amps/Phase)	Holding Torque (oz-in)	Holding Torque (N-m)	Resistance (Ohms/Phase)	Inductance (mH/Phase)	Inertia (oz-in ²)	Weight (Lbs.)	Number of Leads
0.93" 23.6 mm		417-09-03	1.20	12.0	0.08	3.0	2.2	0.09	0.30	4
		417-09-18	0.60	12.0	0.08	10.0	3.8	0.09	0.30	4
1.1" 27.9 mm		417-11-03	1.20	16.0	0.11	3.0	2.2	0.09	0.31	4
		417-11-06	0.80	16.0	0.11	7.0	5.1	0.09	0.31	4
		417-11-09	0.80	16.0	0.11	10.0	6.9	0.09	0.31	4
		417-11-18	0.60	16.0	0.11	10.0	7.1	0.09	0.31	4
1.38" 35.1 mm		417-13-08	0.60	23.0	0.16	11.0	7.8	0.12	0.41	4
		417-13-18	0.60	23.0	0.16	12.0	8.8	0.12	0.41	4
1.54" 39.1 mm		417-15-03	1.20	30.0	0.21	3.0	2.6	0.15	0.53	4
		417-15-08	2.00	30.0	0.21	0.7	0.3	0.15	0.53	4
		417-15-12	0.60	30.0	0.21	12.0	10.5	0.15	0.53	4

- Please complete our application data sheet on page 116 for different windings.
- Call Lin Engineering for additional bipolar torque curves.
- Performance, use, and appearance specifications of the products listed here are subject to change without notice.
- For operating temperatures, see page 114.
- All specifications are approximations. Please contact Lin Engineering for more details.

DIMENSIONS



TORQUE CURVES



AVAILABLE OPTIONS

- SHAFTS (Pages 21/69)
- ENCODERS (Pages 93-96)
- CABLES & ASSEMBLIES (Pages 21/70)
- DRIVERS & CONTROLLERS (Pages 99-108)

? DID YOU KNOW...
 Lin Engineering's 0.9° motor has the best microstepping accuracy in the industry.

- Lin's accuracy: ±1.5 arc minutes.
- Competitor's accuracy: ±4.0 arc minutes.

? DID YOU KNOW...
 Lin Engineering can eliminate guesswork for motor selection to save you significant development time.