

MS14HA Series: 0.9° - Size 14



- Phases 2
- Steps / Revolution 400
- Step Accuracy $\pm 5\%$
- Shaft Load (20,000 Hours at 1000 RPM)
 - Axial 25 N (5.6 Lbs.) Push
 - Radial 65 N (15 Lbs.) Pull
 - 30 N (6.5 Lbs.) At Flat Center
- IP Rating 40
- Approvals RoHS
- Operating Temp. -20°C to $+50^{\circ}\text{C}$
- Insulation Class B, 130°C
- Insulation Resistance 100 MegOhms

MS14HA 5 P 4 040

Basic Motor Length (Max)

1	27mm (1.06 in.)
3	36mm (1.42 in.)
5	55mm (2.17 in.)

Electrical Connection

P Plug-in Connector

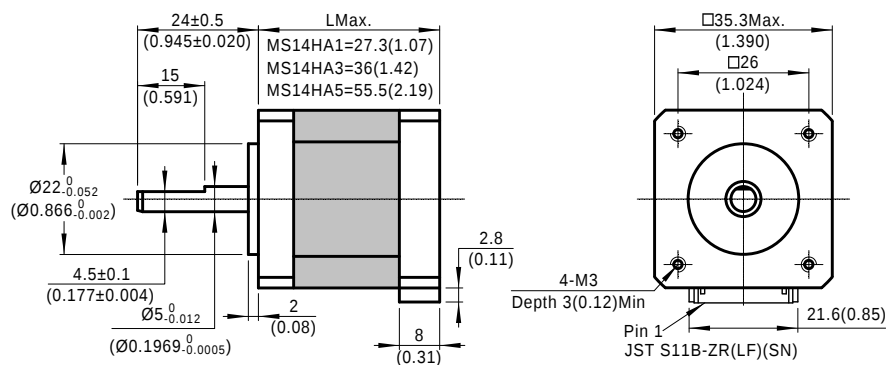
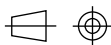
Winding

Current rating x 100

Number of Connections

4	4 Lead-Bipolar
6	6 Lead-Unipolar (or Bipolar)

Dimensions: mm (in)



MS14HA - 4 Lead Bi-Polar

Length	Model Number	Connect	Rated Current	Holding Torque		Winding Ohms mH		Detent Torque		Rotor Inertia		Motor Weight	
	Single Shaft	P=Plug L=Leads	Amps (mounted)	Nm Typ.	oz-in TYP.	±10% @20 °C	Typ.	mNm oz-in		g cm ² oz-in ²		kg Lbs	
27 mm (1.06 in.)	MS14HA1P4026	P	0.26	0.10	15	49	56	4	0.57	12	0.066	0.15	0.33
	MS14HA1P4070	P	0.7	0.11	15	6.6	8.2						
	MS14HA1P4100	P	1	0.10	15	3.3	3.9						
	MS14HA1P4150	P	1.5	0.11	15	1.55	1.8						
36 mm (1.42 in.)	MS14HA3P4032	P	0.32	0.19	27	37	51	8	1.1	20	0.11	0.21	0.46
	MS14HA3P4075	P	0.75	0.18	25	6	8.6						
	MS14HA3P4100	P	1	0.18	25	3.3	4.9						
	MS14HA3P4150	P	1.5	0.18	25	1.61	2.2						
55 mm (2.17 in.)	MS14HA5P4040	P	0.4	0.32	45	30	49	10	1.4	35	0.19	0.24	0.53
	MS14HA5P4100	P	1	0.32	45	5.1	8.2						
	MS14HA5P4150	P	1.5	0.32	45	2.1	3.6						
	MS14HA5P4200	P	2	0.32	45	1.34	2.1						

^ Preferred model

MS14HA - 6 Lead Uni-Polar

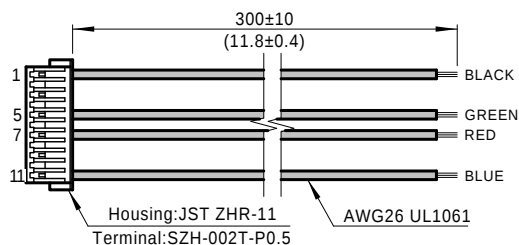
Length	Model Number	Connect	Rated Current	Holding Torque		Winding Ohms mH		Detent Torque		Rotor Inertia		Motor Weight	
	Single Shaft	P=Plug L=Leads	Amps (mounted)	Nm Typ.	oz-in TYP.	±10% @20 °C	Typ.	mNm oz-in		g cm ² oz-in ²		kg Lbs	
27 mm (1.06 in.)	MS14HA1P6026	P	0.26	0.08	11	48	27	4	0.57	12	0.066	0.15	0.33
	MS14HA1P6060	P	0.6	0.08	11	8.9	5.3						
	MS14HA1P6100	P	1	0.08	12	3.3	2						
36 mm (1.42 in.)	MS14HA3P6032	P	0.32	0.13	18	37	21	8	1.1	20	0.11	0.21	0.46
	MS14HA3P6070	P	0.7	0.14	20	7.5	5.3						
	MS14HA3P6110	P	1.1	0.14	20	3	2						
55 mm (2.17 in.)	MS14HA5P6040	P	0.4	0.25	35	31	26	10	1.4	35	0.19	0.24	0.53
	MS14HA5P6085	P	0.85	0.26	37	7.1	6.1						
	MS14HA5P6120	P	1.2	0.25	35	3.5	2.9						

^ Preferred model

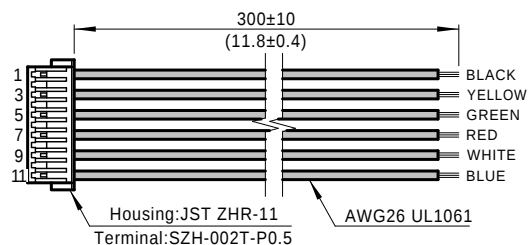
Mating Connector With Leads (order separately)

Dimensions: mm (in)

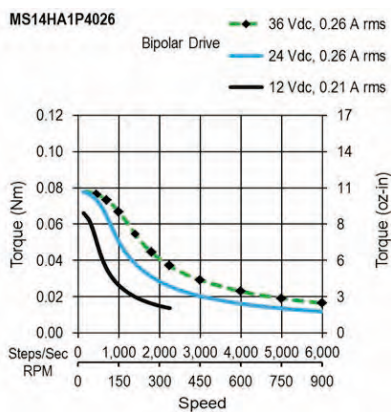
4 Lead Part Number 4634 1402 02846



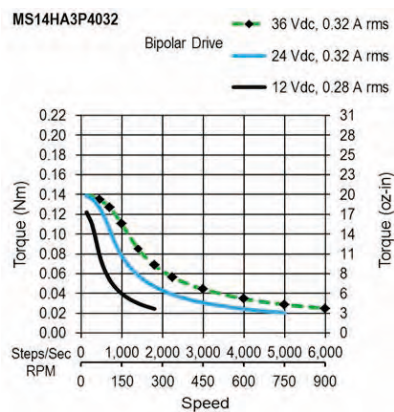
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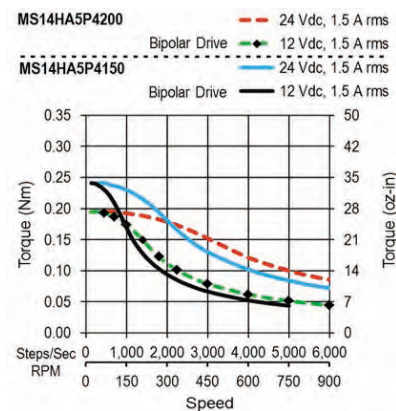
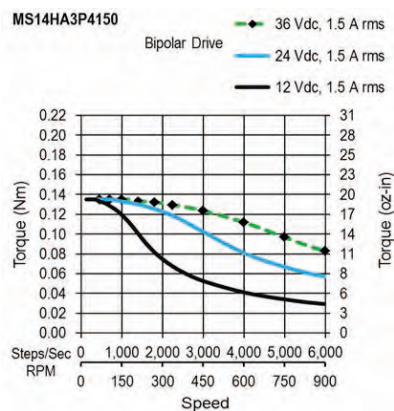
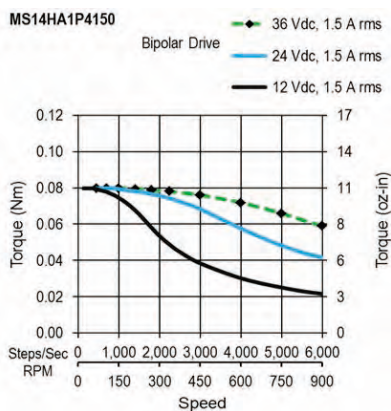
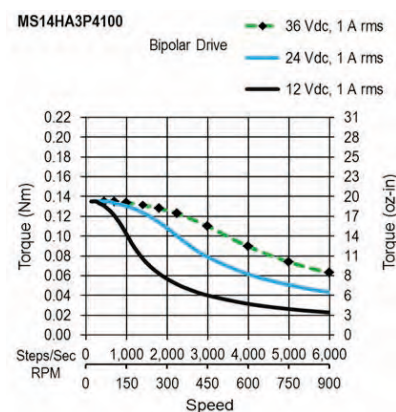
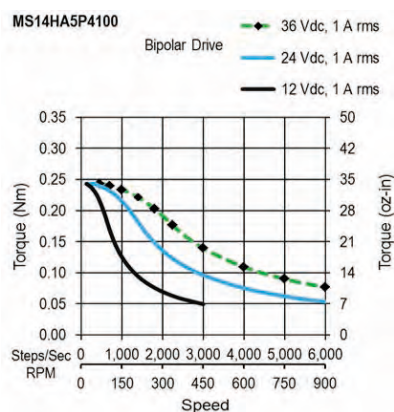
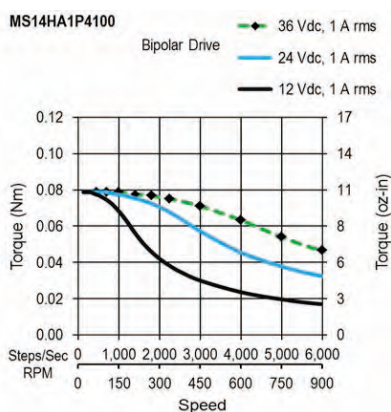
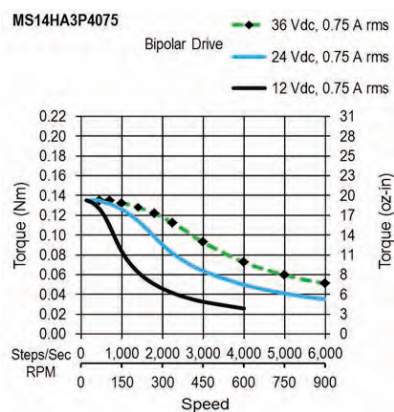
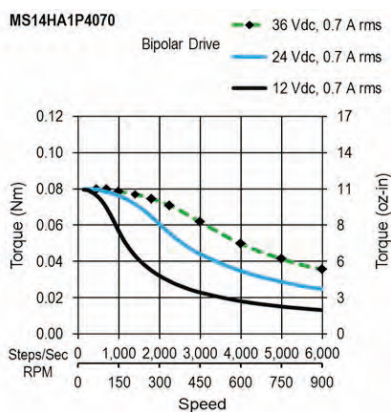
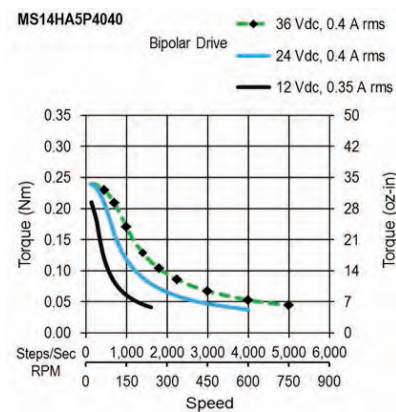
MS14HA1-0.9° Bipolar

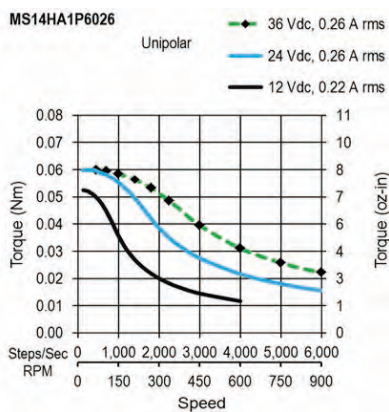
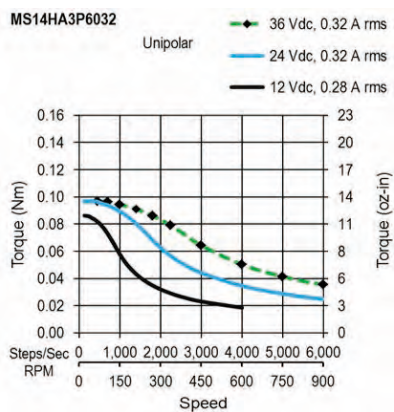


MS14HA3-0.9° Bipolar



MS14HA5-0.9° Bipolar



MS14HA1-0.9° Unipolar**MS14HA3-0.9° Unipolar****MS14HA5-0.9° Unipolar**