

# MS17HA Series: 0.9° - Size 17

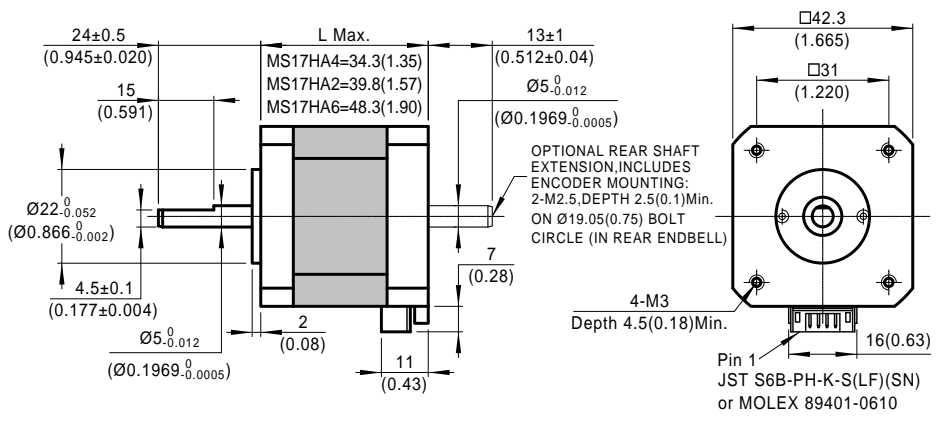
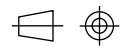


- Phases 2
- Steps / Revolution 400
- Step Accuracy ±5%
- Shaft Load (20,000 Hours at 1000 RPM)
  - Axial 25 N (5.6 Lbs.) Push  
65 N (15 Lbs.) Pull
  - Radial 30 N (6.5 Lbs.) At Flat Center
- IP Rating 40
- Approvals UL Recognized File E465363, RoHS
- Operating Temp. -20°C to +50°C
- Insulation Class B, 130°C
- Insulation Resistance 100 MegOhms

## MS17HA 4 P 4 040 -M

<b>Basic Motor Length (Max)</b>		<b>Options</b>	
4	34.3mm ( 1.35 in. ) Short	Omit	No Options
2	39.8mm (1.57 in. ) 1 Stack	-M	5 mm Diameter Rear Shaft With Encoder Mounting Holes
6	48.3mm ( 1.90 in. ) 2 Stack		
<b>Electrical Connection</b>		<b>Winding</b>	
P	Plug-in Connector	###	Current rating x 100
<b>Number of Connections</b>			
4	4 Lead-Bipolar		
6	6 Lead-Unipolar(or Bipolar)		

### Dimensions: mm (in)



**MS17HA - 4 Lead Bi-Polar**

Length	Model Number	Connect	Rated Current	Holding Torque		Winding		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 <sup>2</sup>	oz- in <sup>2</sup>	kg	Lbs
34.3 mm (1.35 in.)	MS17HA4P4040	P	0.4	0.25	35	30	71	12	1.7	38	0.21	0.23	0.51
	MS17HA4P4100	P	1	0.25	35	4.3	10.5						
	MS17HA4P4150	P	1.5	0.24	34	1.71	4.1						
	MS17HA4P4200	P	2	0.25	35	1.11	2.5						
39.8 mm (1.57 in.) 1 Stack	MS17HA2P4040	P	0.4	0.39	55	24	70	16	2.3	57	0.31	0.29	0.64
	MS17HA2P4100	P	1	0.39	55	3.9	11.2						
	MS17HA2P4150	P	1.5	0.40	57	1.98	5.4						
	MS17HA2P4200	P	2	0.39	55	1.05	2.8						
48.3 mm (1.9 in.) 2 Stack	MS17HA6P4050	P	0.5	0.55	78	24	74	25	3.5	82	0.45	0.351	0.77
	MS17HA6P4100	P	1	0.53	75	4.9	16						
	MS17HA6P4150	P	1.5	0.52	74	2.2	6.8						
	MS17HA6P4200	P	2	0.53	75	1.31	4						

^ Preferred model

**MS17HA - 6 Lead Uni-Polar**

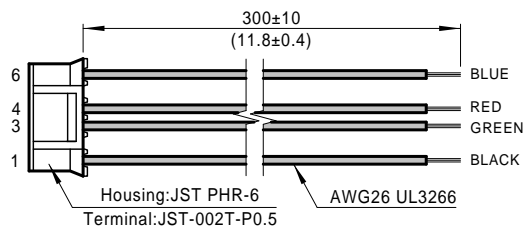
Length	Model Number	Connect	Rated Current	Holding Torque		Winding		Detent Torque		Rotor Inertia		Motor Weight	
	Single Shaft	P=Plug L=Leads	Amps (mounted)	Nm Typ.	oz-in TYP.	±10% @20 C	Typ.	mNm	oz-in	g cm <sup>2</sup>	oz- in <sup>2</sup>	kg	Lbs
34.3 mm (1.35 in.)	MS17HA4P6038	P	0.38	0.20	28	31	38	12	1.7	38	0.21	0.23	0.51
	MS17HA4P6085	P	0.85	0.19	27	5.1	6.2						
	MS17HA4P6120	P	1.2	0.20	28	2.9	3.6						
39.8 mm (1.57 in.) 1 Stack	MS17HA2P6040	P	0.4	0.32	45	28	39	16	2.3	57	0.31	0.29	0.64
	MS17HA2P6085	P	0.85	0.32	45	6	8.3						
	MS17HA2P6130	P	1.3	0.32	45	2.5	3.5						
48.3 mm (1.9 in.) 2 Stack	MS17HA6P6040	P	0.4	0.41	58	29	45	25	3.5	82	0.45	0.351	0.77
	MS17HA6P6080	P	0.8	0.41	58	7.6	11.9						
	MS17HA6P6130	P	1.3	0.43	61	3.2	5						
	MS17HA6P6200	P	2	0.42	59	1.3	1.94						

^ Preferred model

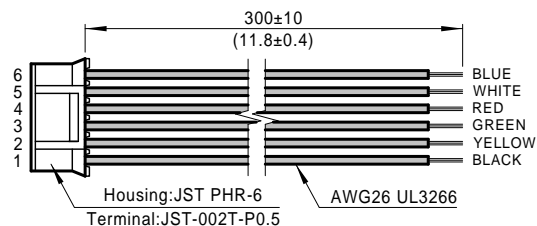
**Mating Connector With Leads (order separately)**

Dimensions: mm (in)

4 Lead Part Number 4634 1402 00723



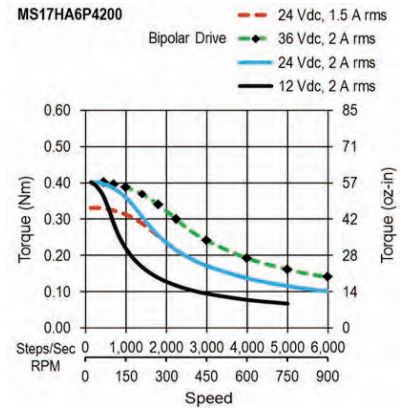
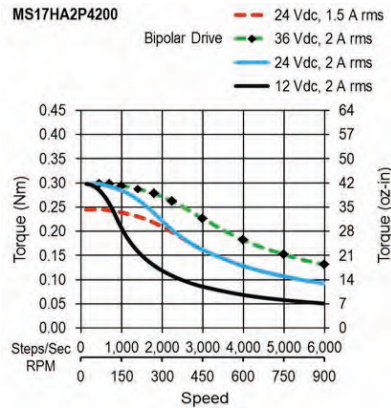
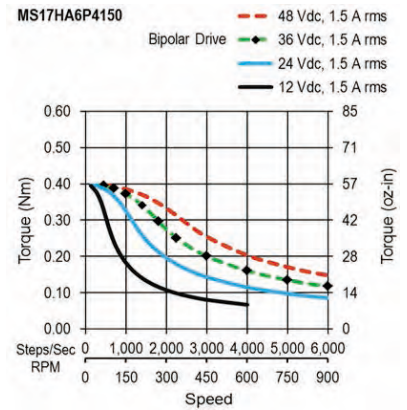
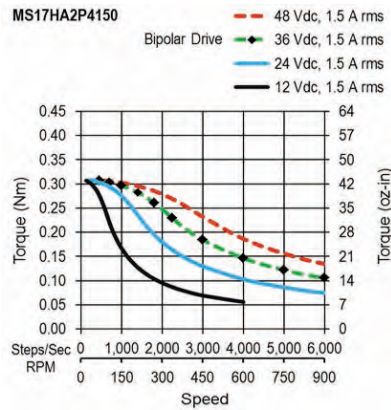
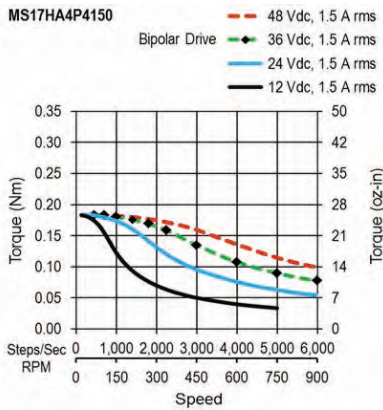
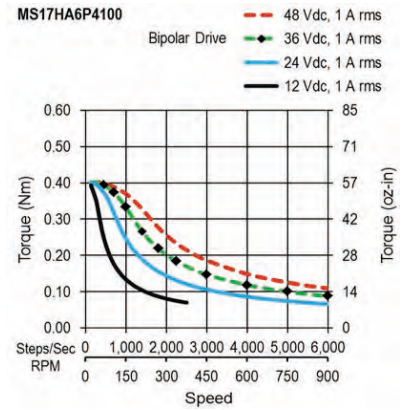
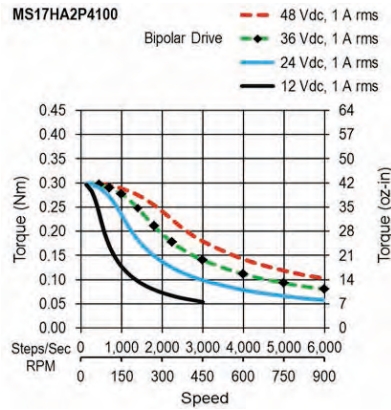
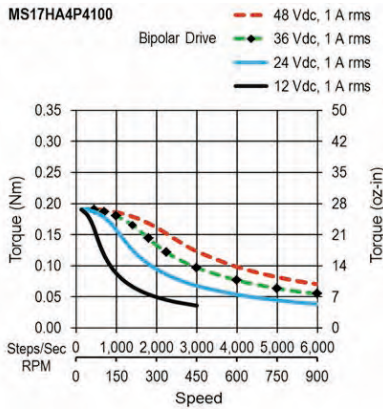
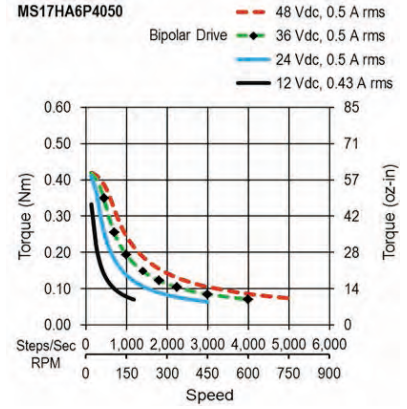
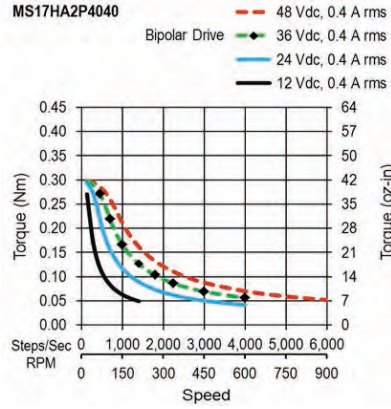
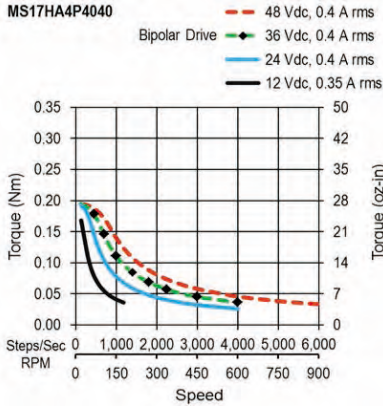
6 Lead Part Number 4634 1402 00922



MS17HA4-0.9° Bipolar

MS17HA2-0.9° Bipolar

MS17HA6-0.9° Bipolar



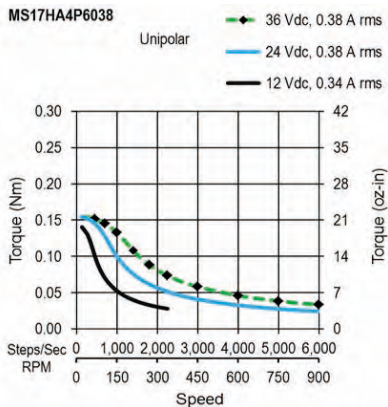
MOONS Technology

2 Phase Step Motors

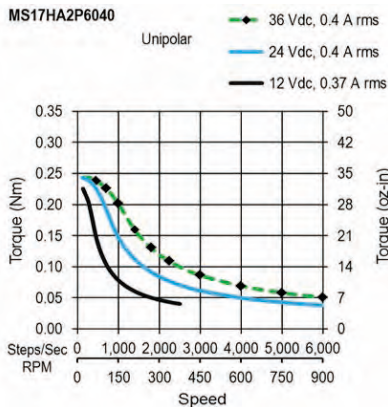
3 Phase Step Motors

Technical

**MS17HA4-0.9° Unipolar**



**MS17HA2-0.9° Unipolar**



**MS17HA6-0.9° Unipolar**

