MS17HD Series: 1.8° - Size 17

- Phases 2
- Steps / Revolution 200
- Step Accuracy ±5%
- Shaft Load (20,000 Hours at 1000 RPM)
  - Axial: 25 N (5.6 Lbs.) Push; 65 N (15 Lbs.) Pull
  - Radial: 29 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

MS17HD 4 P 4 040 -M

Basic Motor Length (Max)

5	25.3mm (1.0 in.)	
4	34.3mm (1.35 in.)	
2	39.8mm (1.57 in.)	1 Stack
6	48.3mm (1.90 in.)	2 Stack
B	62.8mm (2.47 in.)	3 Stack

Electrical Connection

P Plug-in Connector

Number of Connections

4 4 Lead-Bipolar

6 6 Lead-Unipolar(or Bipolar)

Winding

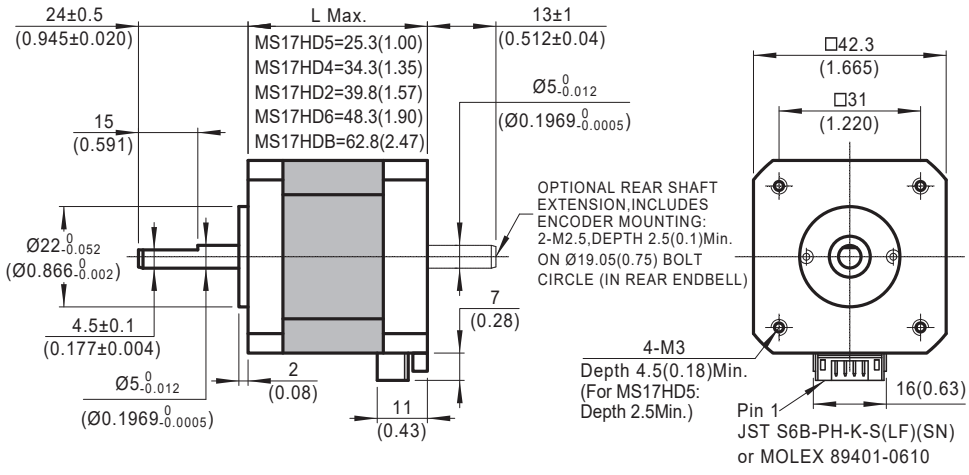
Current rating x 100

Options

Omit No Options

-M 5 mm Diameter Rear Shaft With Encoder Mounting Holes

Dimensions: mm (in)



MS17HD - 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.	@20˚C	Typ.	mNm	oz-in	g cm²	oz-in²	kg	Lbs
25.3 mm (1 in.)	MS17HD5P4027	P	0.27	0.20	28	44	53	5	0.71	20	0.11	0.15	0.33
	^ MS17HD5P4070	P	0.7	0.21	30	6.5	8.8						
	^ MS17HD5P4100	P	1	0.21	30	3.2	4.3						
	^ MS17HD5P4150	P	1.5	0.20	28	1.12	1.62						
34.3 mm (1.35 in.)	MS17HD4P4040	P	0.4	0.34	48	30	51	12	1.7	38	0.21	0.21	0.46
	^ MS17HD4P4065	P	0.65	0.32	45	8.7	15.4						
	^ MS17HD4P4100	P	1	0.33	47	4.2	7.5						
	^ MS17HD4P4150	P	1.5	0.32	45	1.7	2.9						
39.8 mm (1.57 in.) 1 Stack	MS17HD2P4040	P	0.4	0.48	68	24	56	15	2.1	57	0.31	0.28	0.62
	^ MS17HD2P4100	P	1	0.48	68	3.9	8.9						
	^ MS17HD2P4150	P	1.5	0.50	71	1.98	4.3						
	^ MS17HD2P4200	P	2	0.48	68	1.04	2.2						
48.3 mm (1.9 in.) 2 Stack	MS17HD6P4050	P	0.5	0.67	95	24	53	25	3.5	82	0.45	0.36	0.79
	^ MS17HD6P4100	P	1	0.63	89	4.9	11.5						
	^ MS17HD6P4150	P	1.5	0.62	88	2.2	4.9						
	^ MS17HD6P4200	P	2	0.63	89	1.3	2.9						
62.8 mm (2.47 in.) 3 Stack	^ MS17HDBP4100	P	1	0.82	120	5.6	14.6	30	4.2	123	0.67	0.6	1.3
	^ MS17HDBP4150	P	1.5	0.88	120	3	7.7						
	^ MS17HDBP4200	P	2	0.83	120	1.49	3.8						

^ Preferred model

MS17HD - 6 Lead Uni-Polar

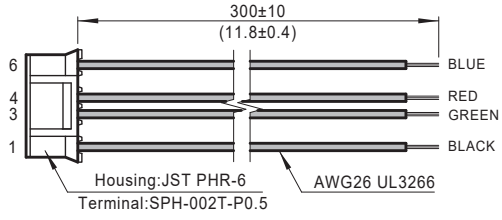
Length	Model Number	Connect	Rated Current	Holding Torque		Winding Ohms mH		Detent Torque		Rotor Inertia		Motor Weight	
	Single Shaft	P=Plug L=Leads	Amps (mounted)	Nm Typ.	oz-in TYP.	@20˚C	Typ.	mNm	oz-in	g cm²	oz-in²	kg	Lbs
25.3 mm (1 in.)	MS17HD5P6030	P	0.3	0.16	23	37	25	5	0.71	20	0.11	0.15	0.33
	MS17HD5P6070	P	0.7	0.16	23	6	4.4						
	MS17HD5P6100	P	1	0.16	23	3	2.2						
34.3 mm (1.35 in.)	MS17HD4P6038	P	0.38	0.26	37	31	27	12	1.7	38	0.21	0.21	0.46
	MS17HD4P6085	P	0.85	0.24	34	5.1	4.5						
	MS17HD4P6120	P	1.2	0.25	35	2.9	2.5						
39.8 mm (1.57 in.) 1 Stack	MS17HD2P6040	P	0.4	0.38	54	28	31	15	2.1	57	0.31	0.28	0.62
	MS17HD2P6085	P	0.85	0.38	54	6	6.7						
	MS17HD2P6130	P	1.3	0.38	54	2.5	2.8						
48.3 mm (1.9 in.) 2 Stack	MS17HD6P6040	P	0.4	0.48	68	29	33	25	3.5	82	0.45	0.36	0.79
	MS17HD6P6080	P	0.8	0.49	69	7.6	8.6						
	MS17HD6P6130	P	1.3	0.51	72	3.2	3.6						
	MS17HD6P6200	P	2	0.50	71	1.3	1.4						

^ Preferred model

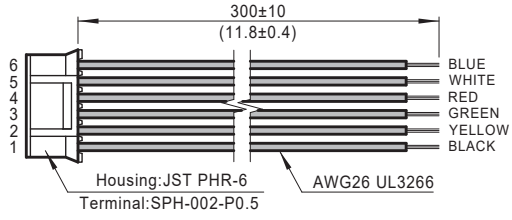
Mating Connector With Leads (order separately)

Dimensions: mm (in)

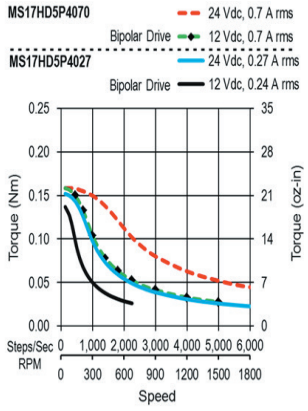
4 Lead Part Number 4634 1402 00723

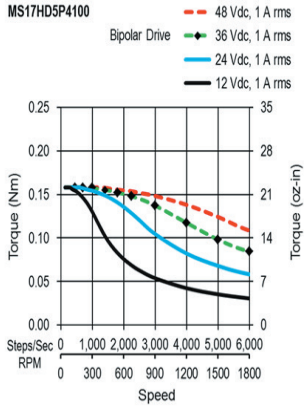


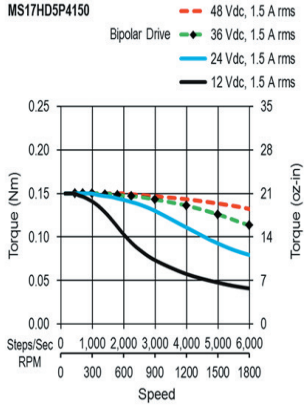
6 Lead Part Number 4634 1402 00922



MS17HD5 - Bipolar







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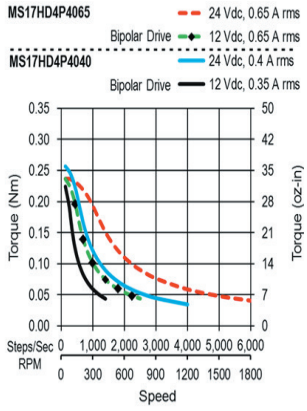

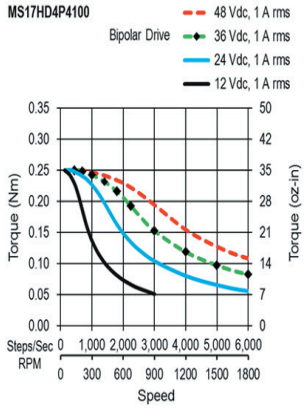

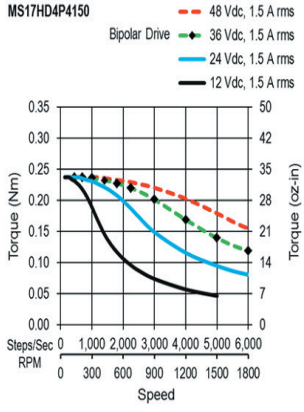

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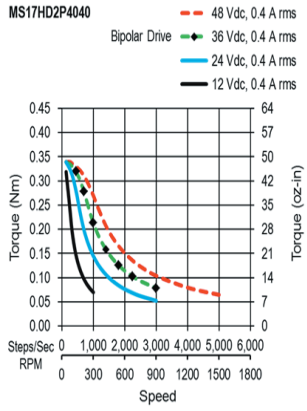
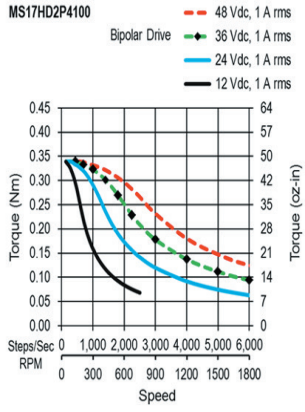
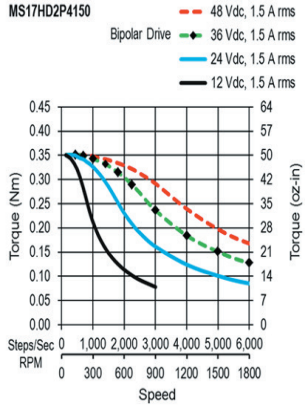
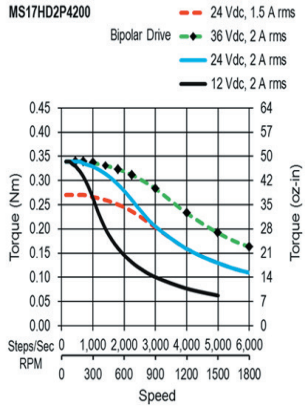
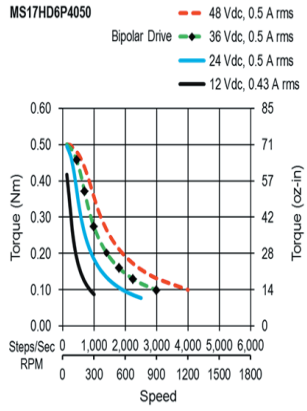


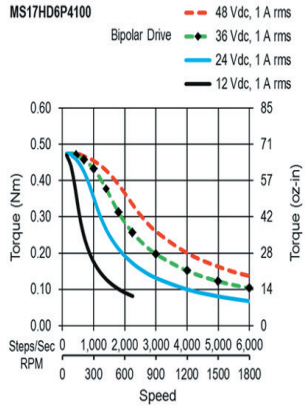


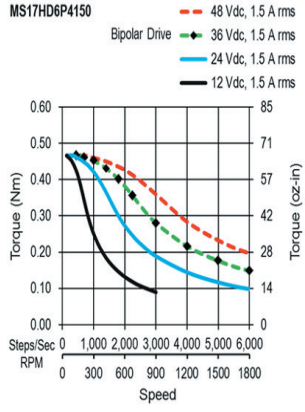


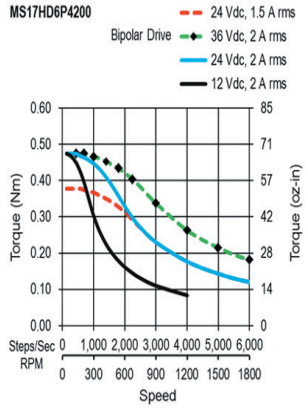


MS17HD6 - Bipolar

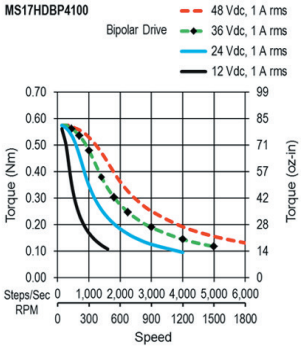


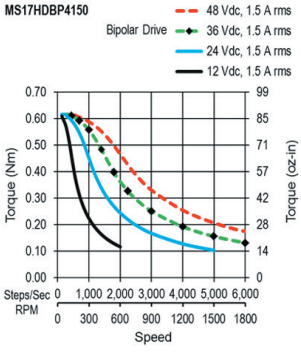


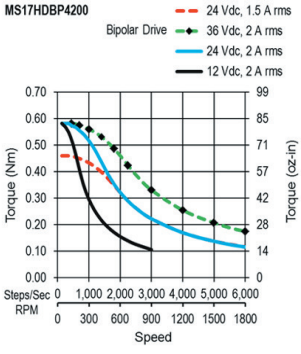




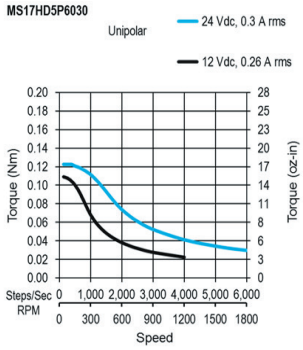
MS17HDB - Bipolar

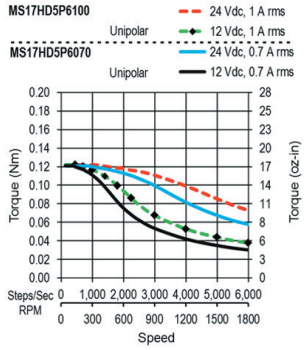






MS17HD5 - Unipolar





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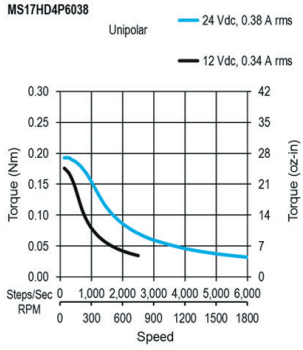
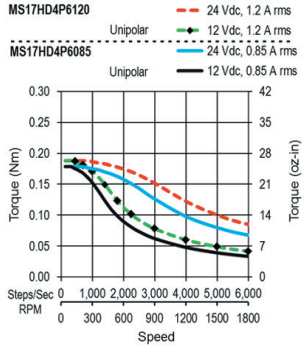
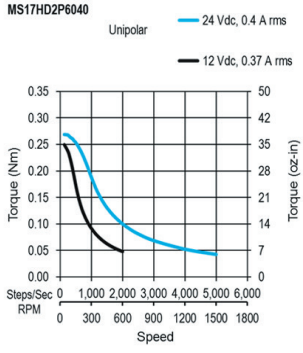
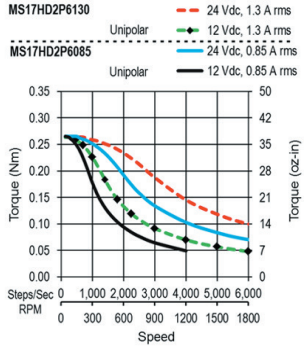
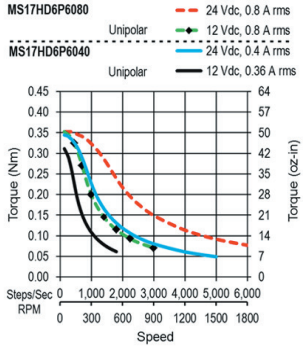
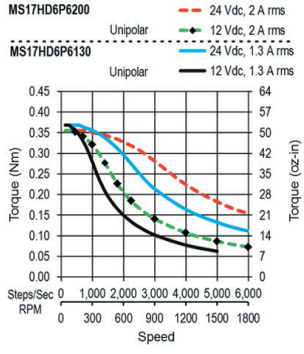




MS17HD2 - Unipolar





MS17HD6 - Unipolar