

MS11HS Series: 1.8° - Size 11



• Phases	2
• Steps / Revolution	200
• Step Accuracy	±5%
• Shaft Load (20,000 Hours at 1000 RPM)	
Axial	15 N (3.4 Lbs.) Push
Radial	25 N (5.6 Lbs.) Pull
	30 N (6.5 Lbs.) At Flat Center
• IP Rating	40
• Approvals	RoHS
• Operating Temp.	-20°C to +50°C
• Insulation Class	B, 130°C
• Insulation Resistance	100 MegOhms

MS11HS 3 P 4 040

Basic Motor Length (Max)

1	31mm (1.22 in.)
3	40mm (1.57 in.)
5	51mm (2.01 in.)

Electrical Connection

P	Plug-in Connector
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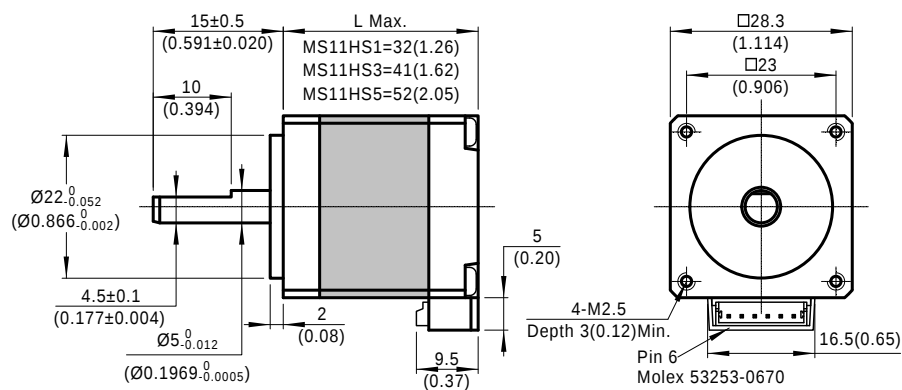
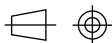
Winding

Current rating x 100

Number of Connections

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

Dimensions: mm (in)



MS11HS - 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
31 mm (1.22 in.)	MS11HS1P4024	P	0.24	0.09	12	49	38						
	MS11HS1P4050	P	0.5	0.09	13	10.9	9.6						
	MS11HS1P4067	P	0.67	0.09	13	6.1	5.4	5	0.71	9	0.049	0.1	0.22
	MS11HS1P4100	P	1	0.09	13	2.7	2.5						
40 mm (1.57 in.)	MS11HS3P4029	P	0.29	0.12	17	39	34						
	MS11HS3P4067	P	0.67	0.12	17	6.9	6.5						
	MS11HS3P4095	P	0.95	0.13	18	3.7	3.5	6	0.85	12	0.066	0.15	0.33
	MS11HS3P4140	P	1.4	0.13	18	1.77	1.56						
51 mm (2.01 in.)	MS11HS5P4030	P	0.3	0.17	24	40	38						
	MS11HS5P4070	P	0.7	0.17	24	6.7	6.8						
	MS11HS5P4100	P	1	0.17	24	3.7	3.6	8	1.1	18	0.098	0.2	0.44
	MS11HS5P4150	P	1.5	0.17	24	1.65	1.48						

^ Preferred model

MS11HS - 6 Lead Uni-Polar

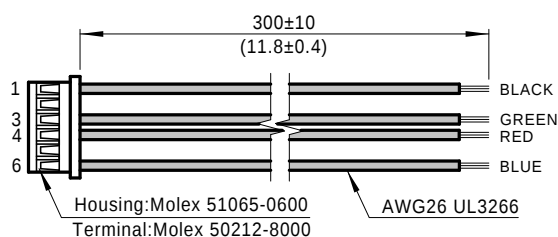
Length	Model Number	Connect	Rated Current	Holding Torque		Winding Ohms mH		Detent Torque		Rotor Inertia		Motor Weight	
	Single Shaft	P=Plug L=Leads	Amps (mounted)	Nm Typ.	oz-in TYP.	±10% @20 C	Typ.	mNm	oz-in	g cm ²	oz-in ²	kg	Lbs
31 mm (1.22 in.)	MS11HS1P6024	P	0.24	0.06	9	48	18.2						
	MS11HS1P6050	P	0.5	0.07	9	10.9	4.5						
	MS11HS1P6070	P	0.7	0.07	9	5.5	2.3	5	0.71	9	0.049	0.1	0.22
40 mm (1.57 in.)	MS11HS3P6026	P	0.26	0.09	13	48	20						
	MS11HS3P6067	P	0.67	0.09	13	7.4	3.3						
	MS11HS3P6095	P	0.95	0.09	13	3.5	1.56	6	0.85	12	0.066	0.15	0.33
51 mm (2.01 in.)	MS11HS5P6033	P	0.33	0.13	18	40	16.4						
	MS11HS5P6067	P	0.67	0.13	18	6.7	3.9						
	MS11HS5P6095	P	0.95	0.13	18	3.7	1.93	8	1.1	18	0.098	0.2	0.44

^ Preferred model

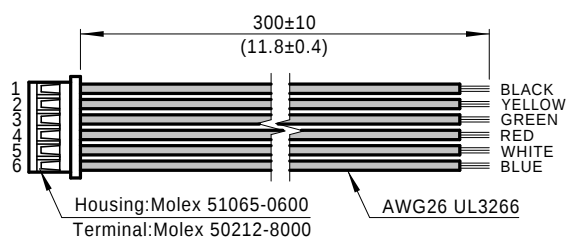
Mating Connector With Leads (order separately)

Dimensions: mm (in)

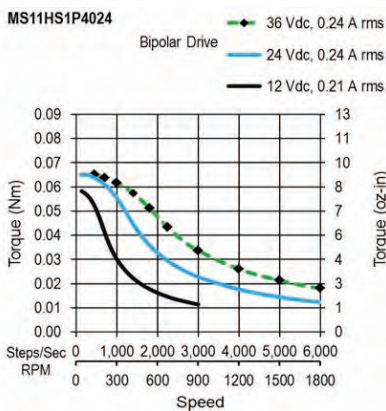
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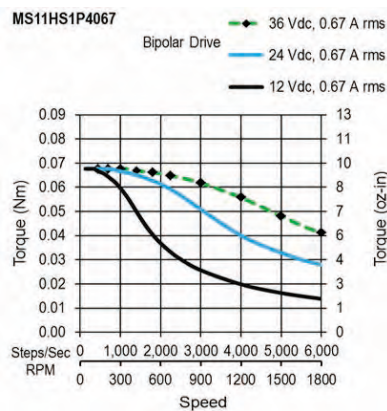
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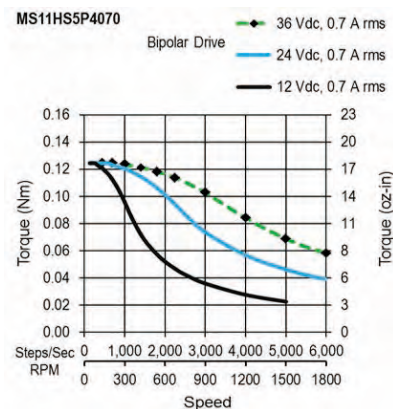
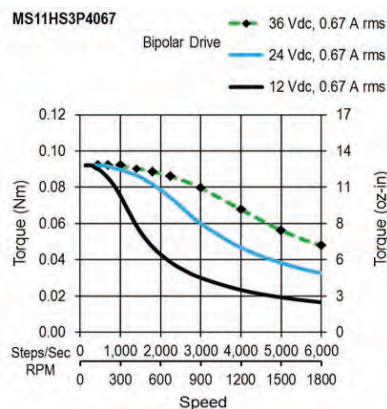
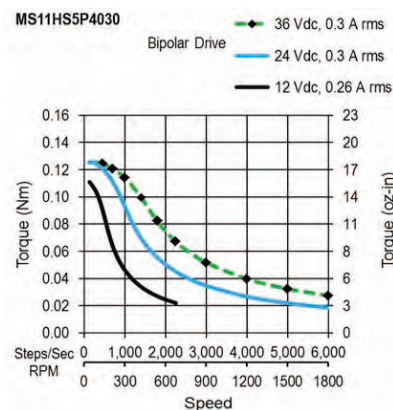
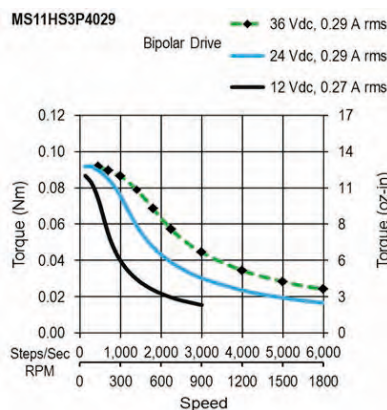
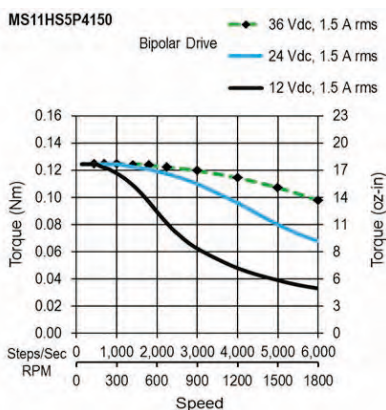
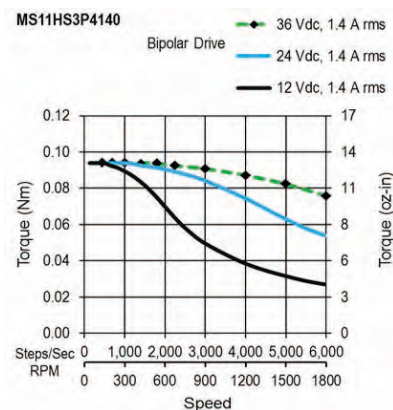
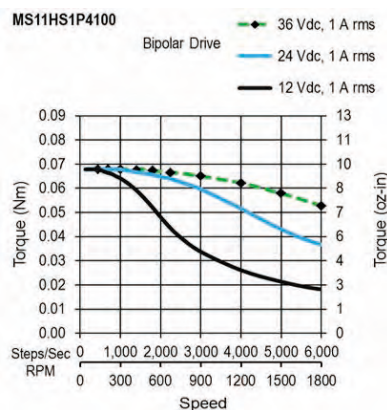
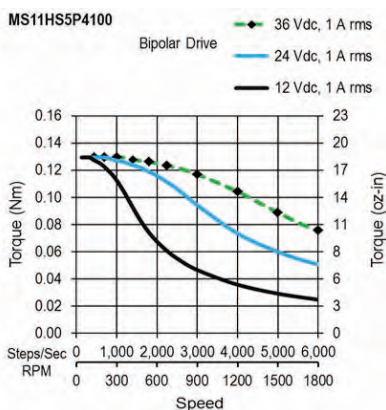
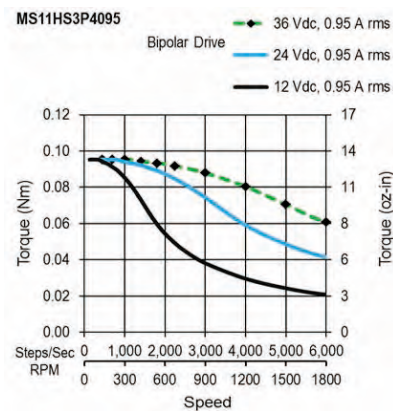
MS11HS1-Bipolar



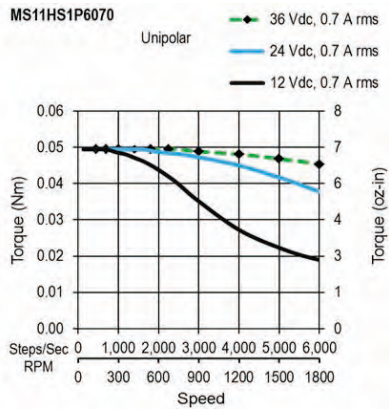
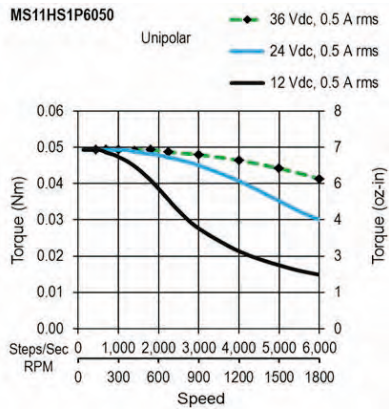
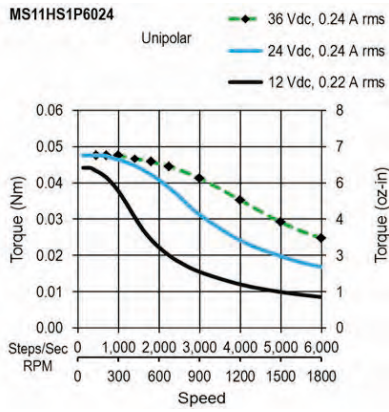
MS11HS3-Bipolar



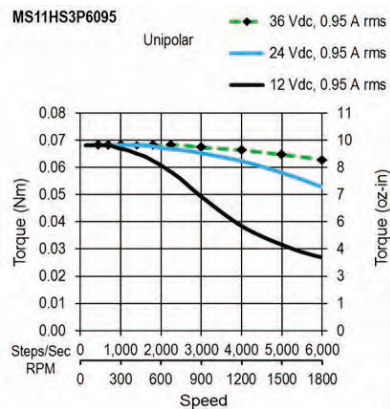
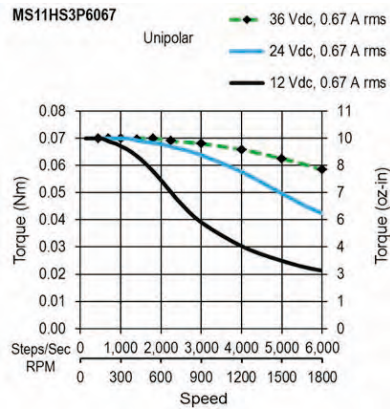
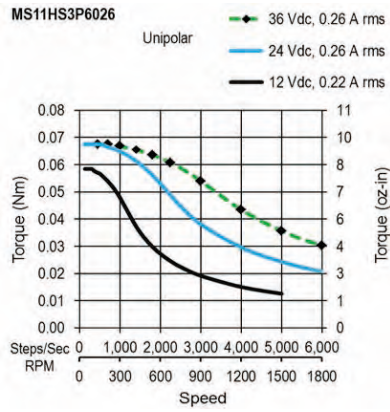
MS11HS5-Bipolar



MS11HS1-Unipolar



MS11HS3-Unipolar



MS11HS5-Unipolar

