

## NEMA 11 Standard Hybrid Stepper Motor



### Key Features

- High Accuracy
- Low Inertia
- Small Size
- Step angle: 1.8°

### General Specifications

- Bi-polar

Part Number	Length (mm)	Connect P=Plug L=Leads	Holding Torque (mNm)	Resistance per Phase (Ω)	Inductance per Phase (mH)	Detent Torque (mNm)
MS11HS1P4024	32	P	90	49	38	5
MS11HS1P4050	32	P	90	10.9	9.6	5
MS11HS1P4067	32	P	90	6.1	5.4	5
MS11HS1P4067-M	32	P	90	6.1	5.4	5
MS11HS1P4100	32	P	90	2.7	2.5	5
MS11HS1P4100-M	32	P	90	2.7	2.5	5
MS11HS3P4029	41	P	120	39	34	6
MS11HS3P4067	41	P	120	6.9	6.5	6
MS11HS3P4067-M	41	P	120	6.9	6.5	6
MS11HS3P4095	41	P	130	3.7	3.5	6
MS11HS3P4140	41	P	130	1.77	1.56	6
MS11HS5P4030	52	P	170	40	38	8
MS11HS5P4070	52	P	170	6.7	6.8	8

#### Stegia AB

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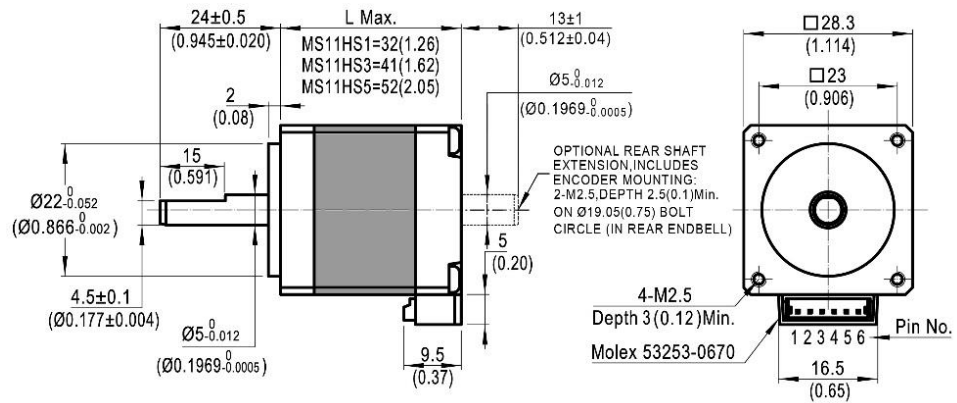
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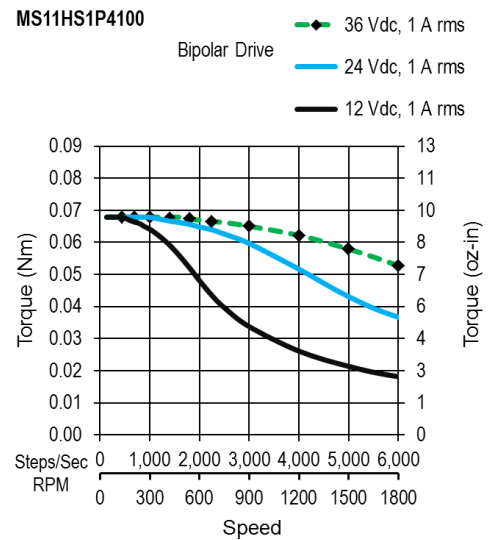
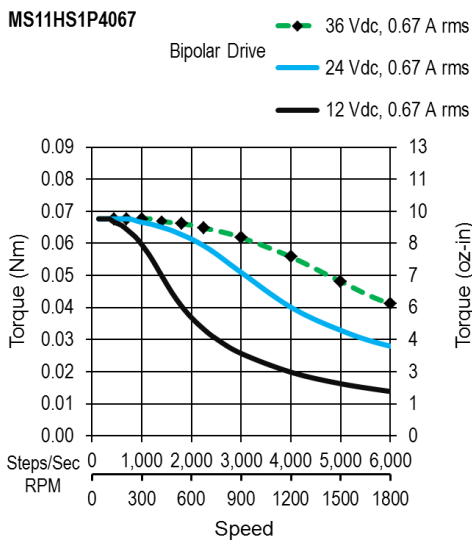
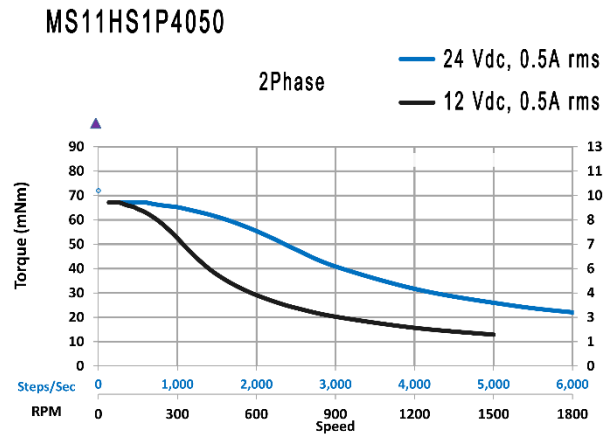
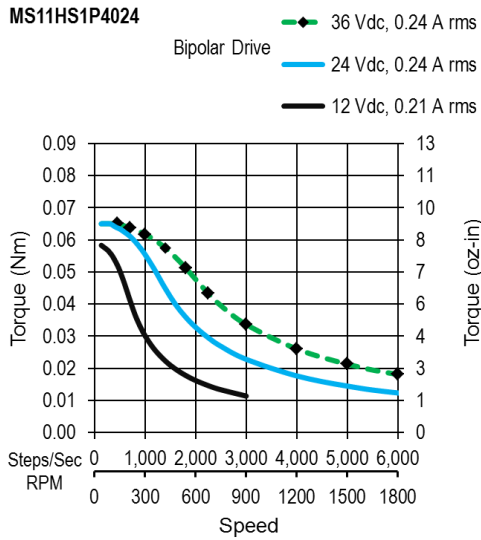
MS11HS5P4070-M	52	P	170	6.7	6.8	8
MS11HS5P4100	52	P	170	3.7	3.6	8
MS11HS5P4150	52	P	170	1.65	1.48	8
MS11HS5P4150-M	52	P	170	1.65	1.48	8

## Mechanical Dimensions

Series	L (mm)	Mass (kg)
MS11HS1	31	0.10
MS11HS3	40	0.15
MS11HS5	51	0.20

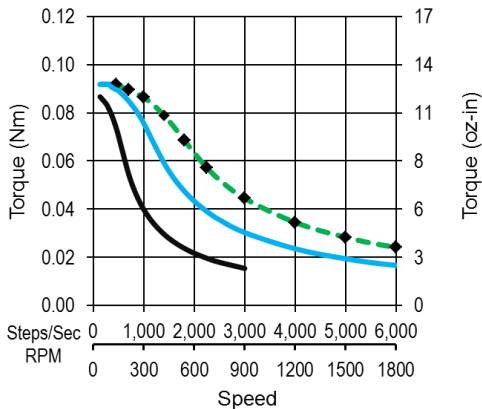


## Dynamic Torque Curves



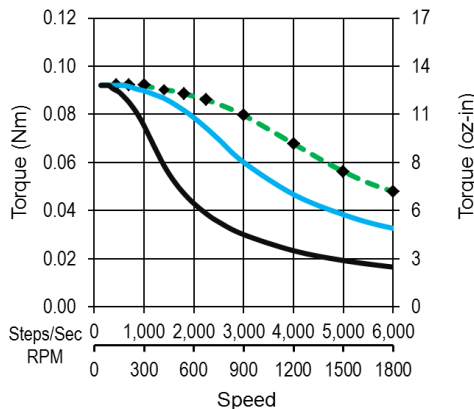
**MS11HS3P4029**

Bipolar Drive  
 36 Vdc, 0.29 A rms  
 24 Vdc, 0.29 A rms  
 12 Vdc, 0.27 A rms



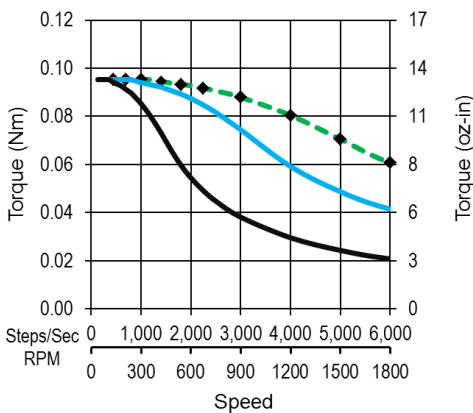
**MS11HS3P4067**

Bipolar Drive  
 36 Vdc, 0.67 A rms  
 24 Vdc, 0.67 A rms  
 12 Vdc, 0.67 A rms



**MS11HS3P4095**

Bipolar Drive  
 36 Vdc, 0.95 A rms  
 24 Vdc, 0.95 A rms  
 12 Vdc, 0.95 A rms



**MS11HS3P4140**

Bipolar Drive  
 36 Vdc, 1.4 A rms  
 24 Vdc, 1.4 A rms  
 12 Vdc, 1.4 A rms

