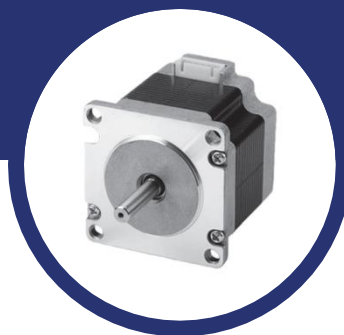


## NEMA 23 Standard Hybrid Stepper Motor



### Key Features

- High Torque
- High Accuracy
- Smooth Movement
- 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)
ML23HS0P4100	39	P	820	6.3	15.9	24
ML23HS0P4100-E	39	P	820	6.3	15.9	24
ML23HS0P4160	39	P	830	2.6	6.5	24
ML23HS0P4160-E	39	P	830	2.6	6.5	24
ML23HS0P4220	39	P	840	1.39	3.5	24
ML23HS0P4220-E	39	P	840	1.39	3.5	24
ML23HS0L4350	39	L	820	0.56	1.3	24
ML23HS0L4350-E	39	L	820	0.56	1.3	24
ML23HS4P4100	45	P	1200	7.3	22	28
ML23HS4P4150	45	P	1200	3.1	9.2	28
ML23HS4P4210	45	P	1200	1.62	4.8	28
ML23HS4L4340	45	L	1200	0.65	1.8	28
ML23HS8P4100	55	P	1500	7.6	33	45
ML23HS8P4100-E	55	P	1500	7.6	33	45

#### Stegia AB

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723 48 Västerås, Sweden  
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info@stegia.com

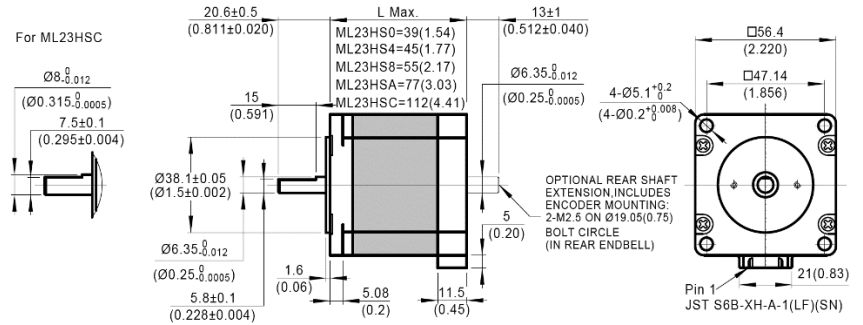
#### Stegia Shanghai Co., Ltd.

A-7, No.38, Dongsheng Rd  
Pudong, Shanghai, China, 201201  
+86 21 58591682

ML23HS8P4150	55	P	1500	3.1	13.6	45
ML23HS8P4150-E	55	P	1500	3.1	13.6	45
ML23HS8P4220	55	P	1500	1.6	6.9	45
ML23HS8P4220-E	55	P	1500	1.6	6.9	45
ML23HS8L4360	55	L	1500	0.63	2.6	45
ML23HS8L4360-E	55	L	1500	0.63	2.6	45
ML23HS8L4550	55	L	1500	0.28	1.03	45
ML23HS8L4550-E	55	L	1500	0.28	1.03	45
ML23HSAP4100	77	P	2300	8.8	39	75
ML23HSAP4100-E	77	P	2300	8.8	39	75
ML23HSAP4150	77	P	2300	4.3	18.5	75
ML23HSAP4150-E	77	P	2300	4.3	18.5	75
ML23HSAP4200	77	P	2300	2.3	9.8	75
ML23HSAP4200-E	77	P	2300	2.3	9.8	75
ML23HSAP4300	77	P	2300	1.1	4.5	75
ML23HSAP4300-E	77	P	2300	1.1	4.5	75
ML23HSAL4500	77	L	2300	0.39	1.53	75
ML23HSAL4500-E	77	L	2300	0.39	1.53	75
ML23HS4150	112	P	3200	5.1	23	120
ML23HS4200	112	P	3200	2.7	11.8	120
ML23HS4300	112	P	3200	1.29	5.5	120
ML23HSCL4500	112	L	3200	0.51	2.2	120

## Mechanical Dimensions

Series	L (mm)	Mass (kg)
ML23HS0	39	0.42
ML23HS4	45	0.48
ML23HS8	55	0.60
ML23HSA	77	1.00
ML23HSC	112	1.50

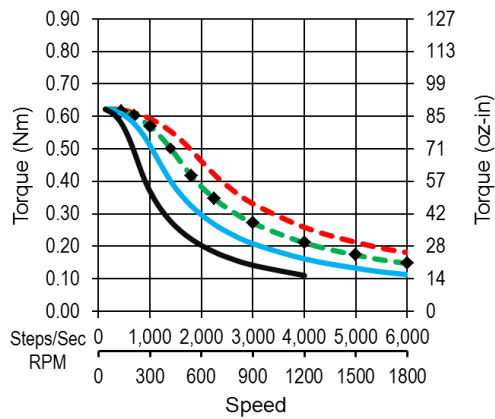


## Dynamic Torque Curves

**ML23HS0P4100**

Bipolar Drive

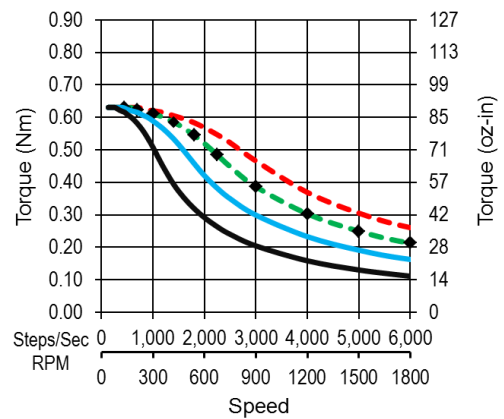
- 60 Vdc, 1 A rms
- 48 Vdc, 1 A rms
- 36 Vdc, 1 A rms
- 24 Vdc, 1 A rms



**ML23HS0P4160**

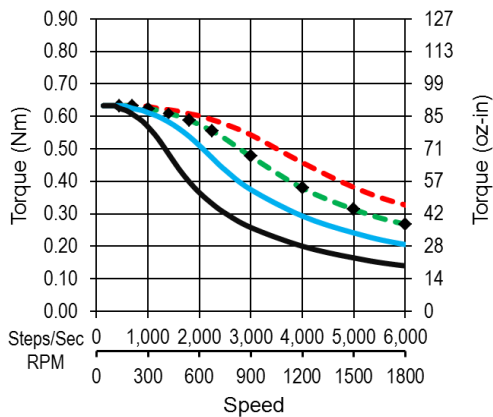
Bipolar Drive

- 60 Vdc, 1.6 A rms
- 48 Vdc, 1.6 A rms
- 36 Vdc, 1.6 A rms
- 24 Vdc, 1.6 A rms



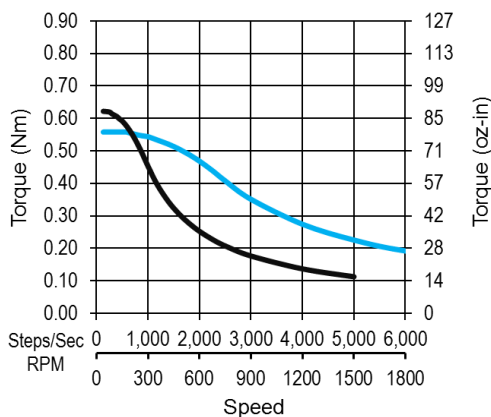
**ML23HS0P4220**

- 60 Vdc, 2.2 A rms
- Bipolar Drive ◆ 48 Vdc, 2.2 A rms
- 36 Vdc, 2.2 A rms
- 24 Vdc, 2.2 A rms



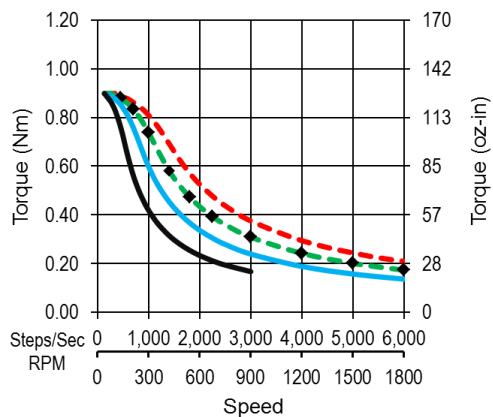
**ML23HS0L4350**

- Bipolar Drive — 24 Vdc, 3 A rms
- 12 Vdc, 3.5 A rms



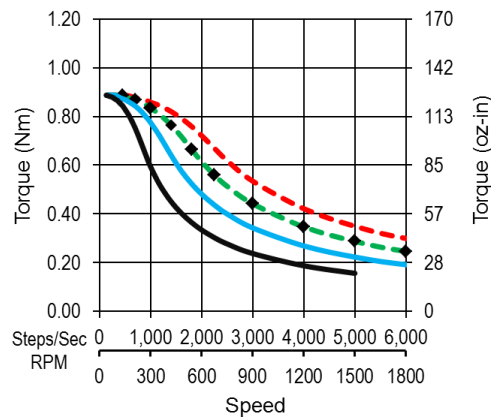
**ML23HS4P4100**

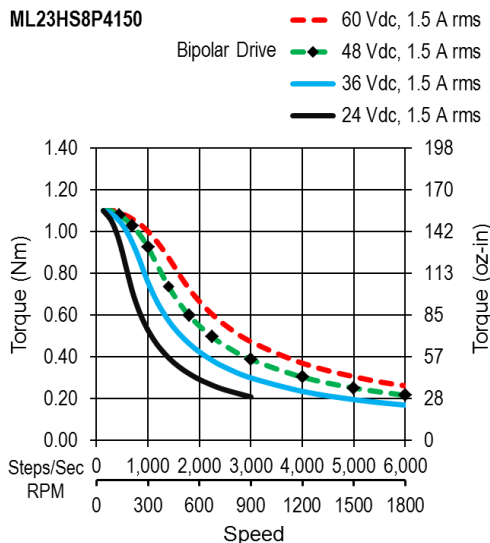
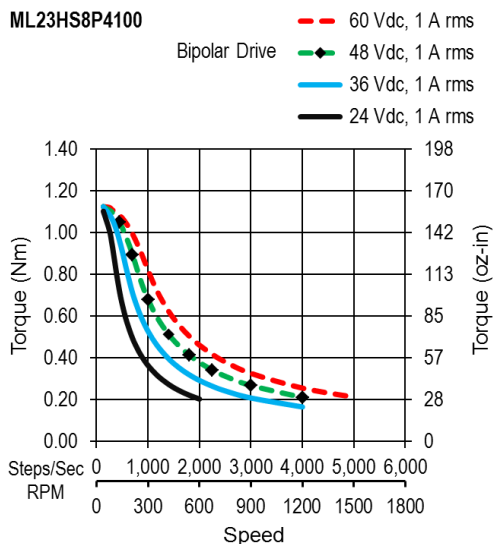
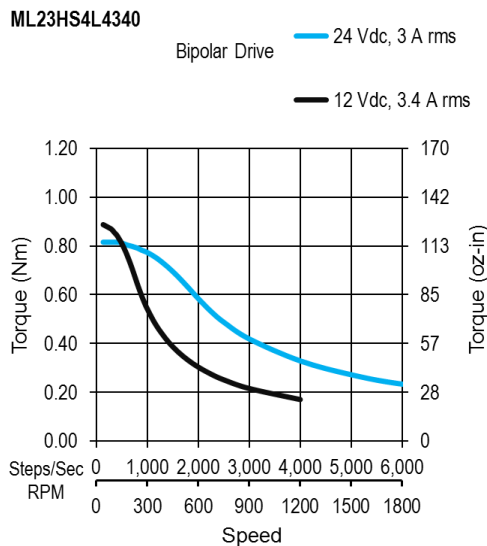
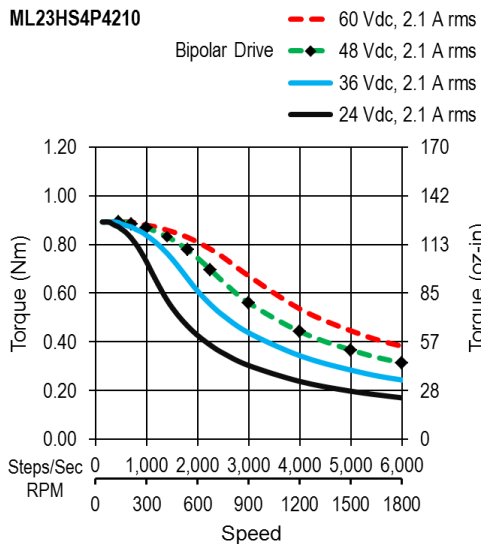
- 60 Vdc, 1 A rms
- Bipolar Drive ◆ 48 Vdc, 1 A rms
- 36 Vdc, 1 A rms
- 24 Vdc, 1 A rms



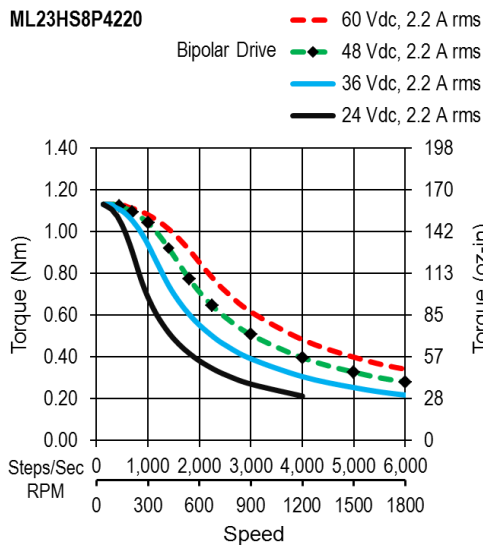
**ML23HS4P4150**

- 60 Vdc, 1.5 A rms
- Bipolar Drive ◆ 48 Vdc, 1.5 A rms
- 36 Vdc, 1.5 A rms
- 24 Vdc, 1.5 A rms

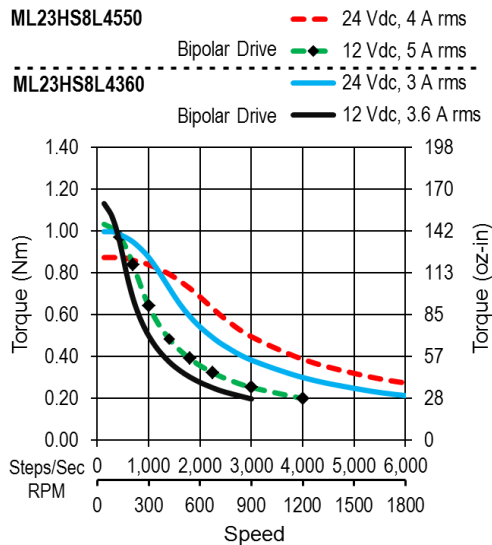




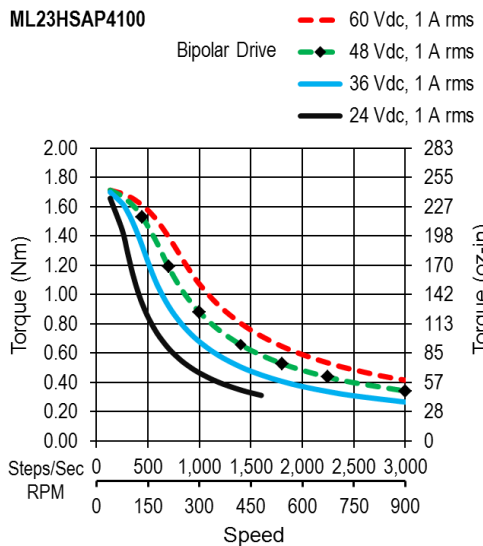
**ML23HS8P4220**



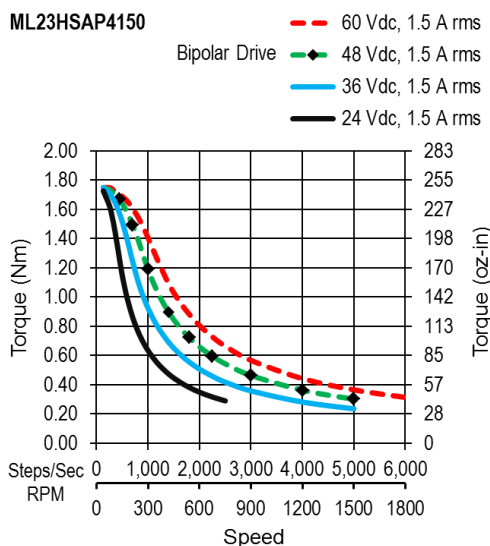
**ML23HS8L4550**



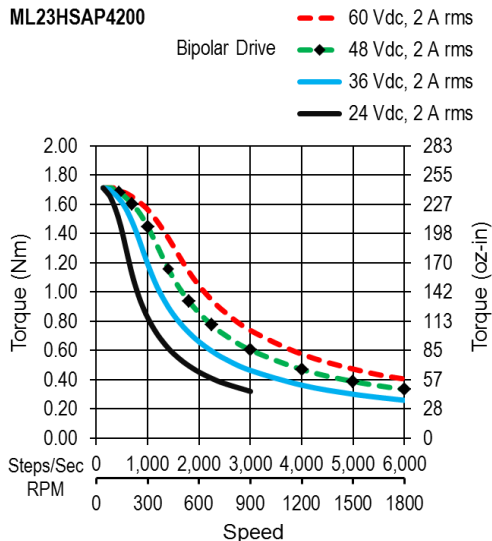
**ML23HSAP4100**



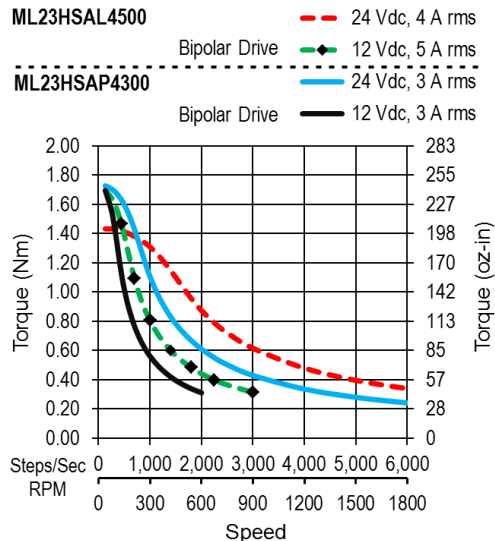
**ML23HSAP4150**



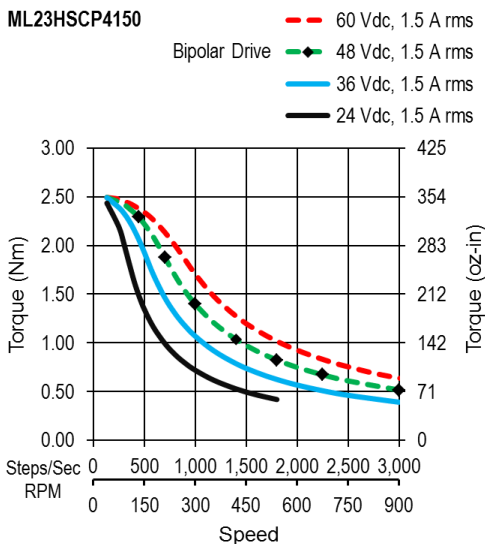
**ML23HSAP4200**



**ML23HSAL4500**



**ML23HSCP4150**



**ML23HSCP4200**

