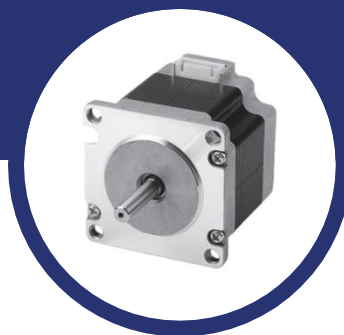


## NEMA 23 High Precision Hybrid Stepper Motor



### Key Features

- High Accuracy
- High Efficiency
- High Reliability
- Step angle: 0.9°

### 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)
MS23HA0P4100	39	P	590	6.3	19.8	24
MS23HA0P4160	39	P	600	2.6	8.1	24
MS23HA0P4160-E	39	P	600	2.6	8.1	24
MS23HA0P4220	39	P	600	1.39	4.3	24
MS23HA0P4220-E	39	P	600	1.39	4.3	24
MS23HA0L4350	39	L	590	0.56	1.62	24
MS23HA0L4350-E	39	L	590	0.56	1.62	24
MS23HA8P4100	55	P	1500	7.6	50	45
MS23HA8P4150	55	P	1400	3.1	21	45
MS23HA8P4150-E	55	P	1400	3.1	21	45
MS23HA8P4220	55	P	1500	1.6	10.5	45
MS23HA8P4220-E	55	P	1500	1.6	10.5	45
MS23HA8L4360	55	L	1500	0.63	3.9	45
MS23HA8L4360-E	55	L	1500	0.63	3.9	45

#### Stegia AB

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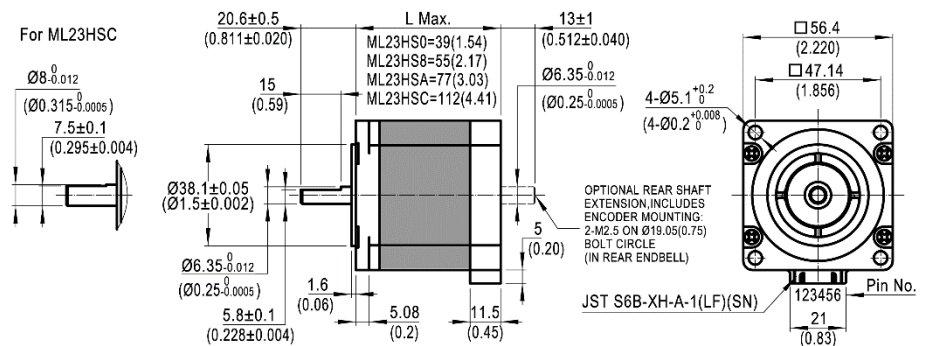
#### Stegia Shanghai Co., Ltd.

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Pudong, Shanghai, China, 201201  
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MS23HA8L4550	55	L	1500	0.28	1.56	45
MS23HAAP4100	77	P	2300	8.8	61	70
MS23HAAP4150	77	P	2400	4.3	29	70
MS23HAAP4150-E	77	P	2400	4.3	29	70
MS23HAAP4200	77	P	2300	2.3	15.2	70
MS23HAAP4300	77	P	2400	1.1	43	70
MS23HAAP4300-E	77	P	2400	1.1	43	70
MS23HAAL4500	77	L	2300	0.39	8.9	70

## Mechanical Dimensions

Series	L (mm)	Mass (kg)
MS23HA0	39	0.42
MS23HA8	55	0.60
MS23HAA	77	1.00



## Dynamic Torque Curves

