

General specifications

- Dielectric strength: 500 VAC
- Insulation resistance: 100 MΩ (500 VDC)
- Insulation type: B type
- Allowable radial load: 28N
- Allowable thrust load: 10N

* The load point is 1/3 from the axis end.

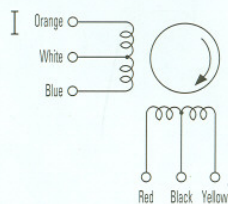
Specifications (unipolar windings)

Model	Axis	Basic step angle (°)	Voltage (V)	Current (A/phase)	Resistance (Ω/phase)	Inductance (mH/phase)	Holding torque N·m (kgf·cm)	Rotor inertia (x10 ⁻⁴ kg·m ²)	Mass (kg)	Connection cord
103H546-0440(0410)	One axis (both axes)	1.8	3.15	1	3.15	2.8	0.147(1.5)	0.03	0.2	I
103H548-0440(0410)			3.6	1.2	3	4.3	0.265(2.7)	0.053	0.28	
103H549-0440(0410)			3.96	1.2	3.3	3.8	0.315(3.2)	0.065	0.35	

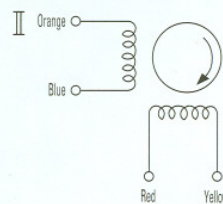
Specifications (bipolar windings)

Model	Axis	Basic step angle (°)	Voltage (V)	Current (A/phase)	Resistance (Ω/phase)	Inductance (mH/phase)	Holding torque N·m (kgf·cm)	Rotor inertia (x10 ⁻⁴ kg·m ²)	Mass (kg)	Connection cord
103H546-5040(5010)	One axis (both axes)	1.8	3.15	2	0.6	0.7	0.147(1.5)	0.03	0.2	II
103H548-5040(5010)			3.6	2	0.8	1.5	0.265(2.7)	0.053	0.28	

Motor inner connections and rotation direction (as viewed from the mounting base)

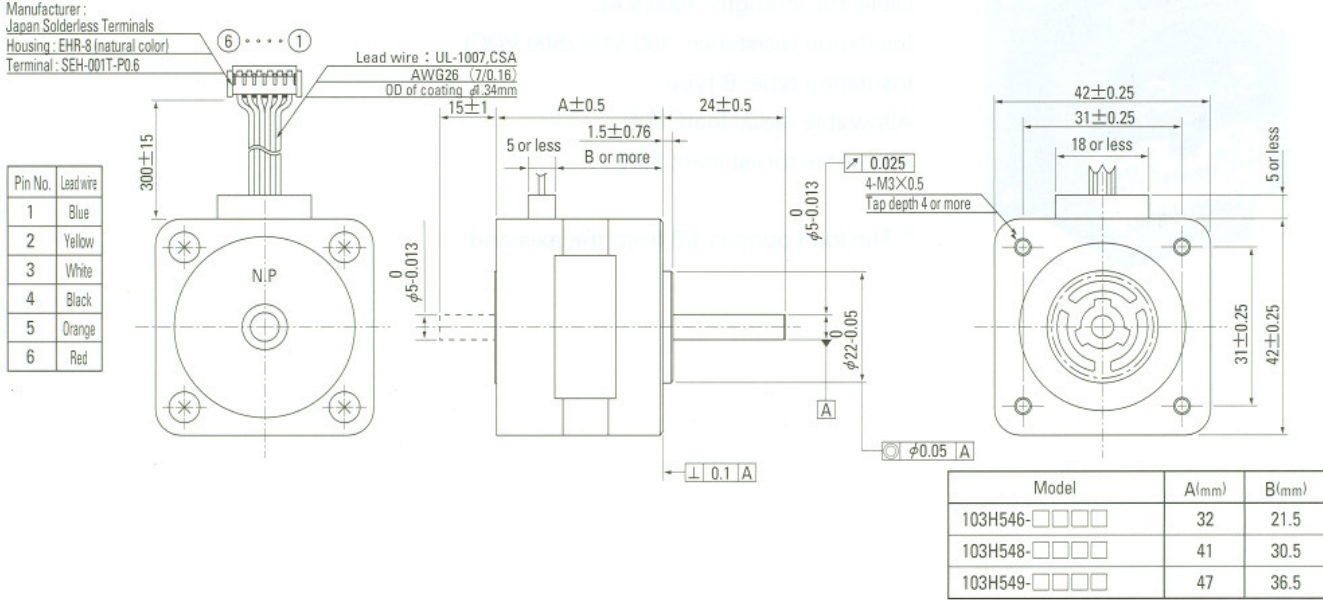


		Color of lead				
		Black and white	Red	Blue	Yellow	Orange
Step	1	⊕	⊖	⊖		
	2	⊕		⊖	⊖	
	3	⊕			⊖	⊖
	4	⊕	⊖			⊖



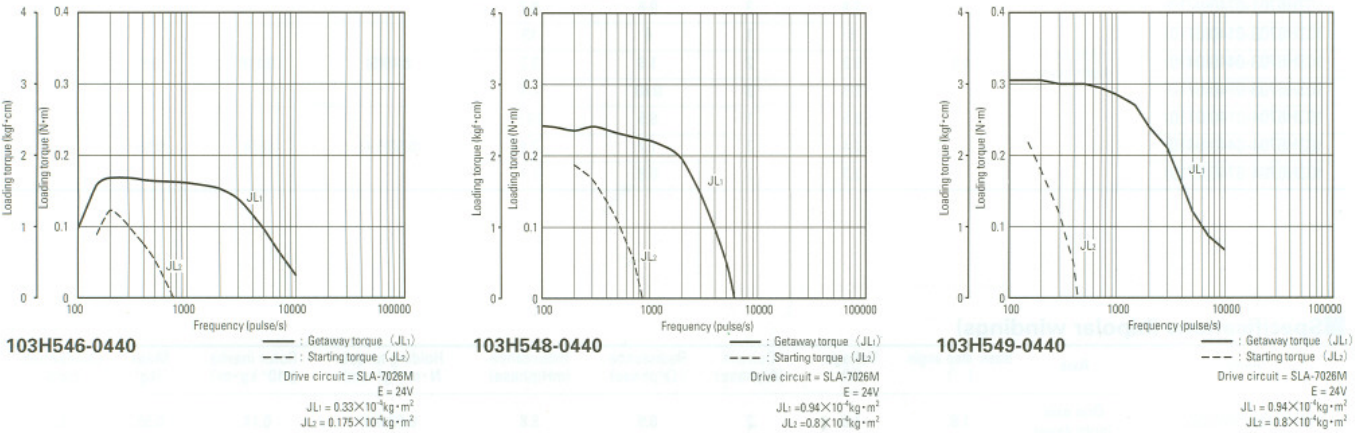
		Color of lead			
		Red	Blue	Yellow	Orange
Step	1	⊖	⊖	⊕	⊕
	2	⊕	⊖	⊖	⊕
	3	⊕	⊕	⊖	⊖
	4	⊖	⊕	⊕	⊖

Dimension (unipolar windings) [unit:mm]



*The bipolar windings consist only of lead wires.

Frequency-torque characteristics (2-phase excitation drive)



*The measured current is based on the specification.