



General Specifications

- Dielectric strength: 1000 VAC
- Insulation resistance: 100 MΩ (500 VDC)
- Insulation class: Class B
- Allowable radial load: 75N
- Allowable thrust load: 15N

*Load shall be applied on the point of 1/3L from the shaft-end.
(L: Output shaft length)

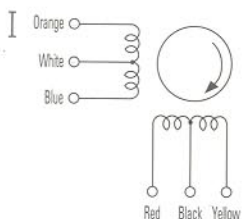
Specifications (unipolar winding)

Model No.	Spindle	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 code
103H7121-0140(0110)	Single-ended spindle shaft (dual-ended spindle shaft)	1.8	4.8	1	4.8	9.3	0.39(4)	0.1	0.47	I
103H7121-0440(0410)			2.5	2	1.25	1.9				
103H7121-0740(0710)			1.8	3	0.6	0.8				
103H7123-0140(0110)			6.7	1	6.7	15				
103H7123-0440(0410)			3.2	2	1.6	3.8	0.83(8.5)	0.21	0.65	
103H7123-0740(0710)			2.3	3	0.77	1.58	0.78(8.0)			
103H7124-0140(0110)			7	1	7	12.5	0.98(10)	0.245	0.8	
103H7124-0440(0410)			3.4	2	1.7	3.1				
103H7124-0740(0710)			2.2	3	0.74	1.4				
103H7126-0140(0110)			8.6	1	8.6	19	1.27(13)	0.36	0.98	
103H7126-0440(0410)			4	2	2	4.5				
103H7126-0740(0710)			2.75	3	0.9	2.2				

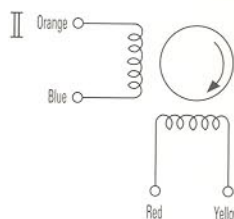
Specifications (bipolar winding)

Model No.	Spindle	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 code
103H7121-5040(5010)	Single-ended spindle shaft (dual-ended spindle shaft)	1.8	1.3	2	0.65	1.9	0.39(4)	0.1	0.47	II
103H7123-5040(5010)			7.6		0.8	3.8	0.83(8.5)	0.21	0.65	
103H7126-5040(5010)			2.1		1.05	4.5	1.27(13)	0.36	0.98	

Internal Connections and Direction of Rotation of Motor (as viewed from the mounting surface side)



		Lead wire colors				
		White black	Orange	Red	Blue	Yellow
Step	1	⊕	⊖	⊖		
	2	⊕		⊖	⊖	
	3	⊕			⊖	⊖
	4	⊕	⊖			⊖



		Lead wire colors			
		Red	Blue	Yellow	Orange
Step	1	⊖	⊖	⊕	⊕
	2	⊕	⊖	⊖	⊕
	3	⊕	⊕	⊖	⊖
	4	⊖	⊕	⊕	⊖