56 mm sq.

1.8°/step RoHS

Unipolar winding, Lead wire type

Bipolar winding, Lead wire type ▶p. 54

Customizing

Hollow | Shaft modification | Decelerator | Encoder

Varies depending on the model number and quantity. Contact us for details.

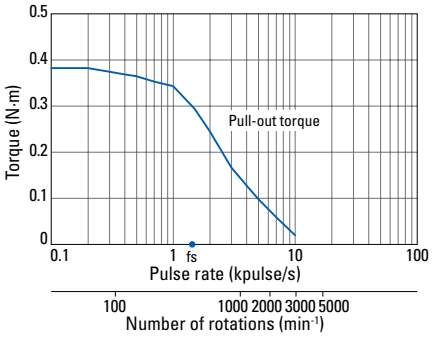
Unipolar winding, Lead wire type

Model no.		Holding torque at 2-phase energization	Rated current	Wiring resistance	Winding inductance	Rotor inertia	Mass	Motor length (L)
Single shaft	Dual shaft	N·m min.	A/phase	Ω/phase	mH/phase	×10⁻⁴kg·m²	kg	mm
103H7121-0140	**103H7121-0110**	0.39	1	4.8	8	0.1	0.47	41.8
103H7121-0440	**103H7121-0410**	0.39	2	1.25	1.9	0.1	0.47	41.8
103H7121-0740	**103H7121-0710**	0.39	3	0.6	0.8	0.1	0.47	41.8
103H7123-0140	**103H7123-0110**	0.83	1	6.7	15	0.21	0.65	53.8
103H7123-0440	**103H7123-0410**	0.83	2	1.6	3.8	0.21	0.65	53.8
103H7123-0740	**103H7123-0710**	0.78	3	0.77	1.58	0.21	0.65	53.8
103H7124-0140	**103H7124-0110**	0.98	1	7	14.5	0.245	0.8	63.8
103H7124-0440	**103H7124-0410**	0.98	2	1.7	3.1	0.245	0.8	63.8
103H7124-0740	**103H7124-0710**	0.98	3	0.74	1.4	0.245	0.8	63.8
103H7126-0140	**103H7126-0110**	1.27	1	8.6	19	0.36	0.98	75.8
103H7126-0440	**103H7126-0410**	1.27	2	2	4.5	0.36	0.98	75.8
103H7126-0740	**103H7126-0710**	1.27	3	0.9	2.2	0.36	0.98	75.8

Characteristics diagram

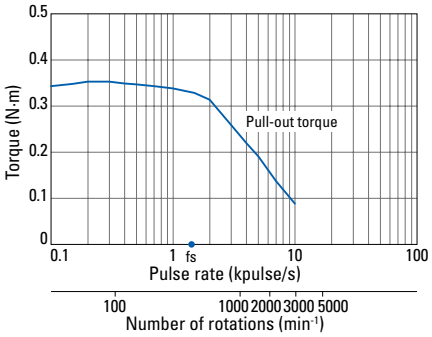
103H7121-0140
103H7121-0110

Constant current circuit
Source voltage: 24 VDC
Operating current:
1 A/phase, 2-phase energization (full-step)
Pull-out torque:
J_L=0.94×10⁻⁴kg·m² (use the rubber coupling)
fs: Maximum self-start frequency when not loaded



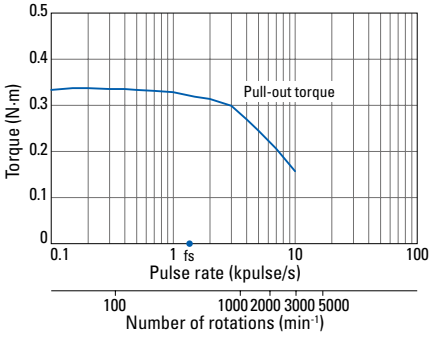
103H7121-0440
103H7121-0410

Constant current circuit
Source voltage: 24 VDC
Operating current:
2 A/phase, 2-phase energization (full-step)
Pull-out torque:
J_L=0.94×10⁻⁴kg·m² (use the rubber coupling)
fs: Maximum self-start frequency when not loaded



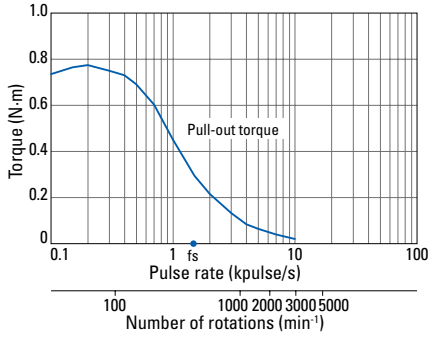
103H7121-0740
103H7121-0710

Constant current circuit
Source voltage: 24 VDC
Operating current:
3 A/phase, 2-phase energization (full-step)
Pull-out torque:
J_L=0.94×10⁻⁴kg·m² (use the rubber coupling)
fs: Maximum self-start frequency when not loaded



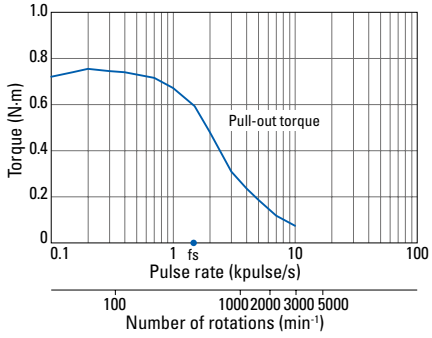
103H7123-0140
103H7123-0110

Constant current circuit
Source voltage: 24 VDC
Operating current:
1 A/phase, 2-phase energization (full-step)
Pull-out torque:
J_L=0.94×10⁻⁴kg·m² (use the rubber coupling)
fs: Maximum self-start frequency when not loaded



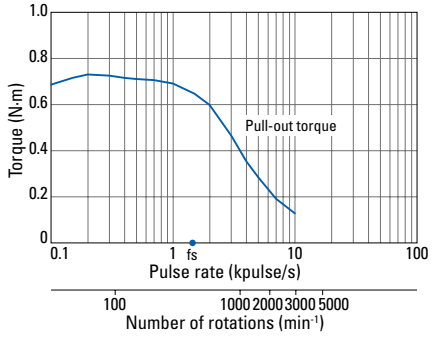
103H7123-0440
103H7123-0410

Constant current circuit
Source voltage: 24 VDC
Operating current:
2 A/phase, 2-phase energization (full-step)
Pull-out torque:
J_L=0.94×10⁻⁴kg·m² (use the rubber coupling)
fs: Maximum self-start frequency when not loaded



103H7123-0740
103H7123-0710

Constant current circuit
Source voltage: 24 VDC
Operating current:
3 A/phase, 2-phase energization (full-step)
Pull-out torque:
J_L=0.94×10⁻⁴kg·m² (use the rubber coupling)
fs: Maximum self-start frequency when not loaded

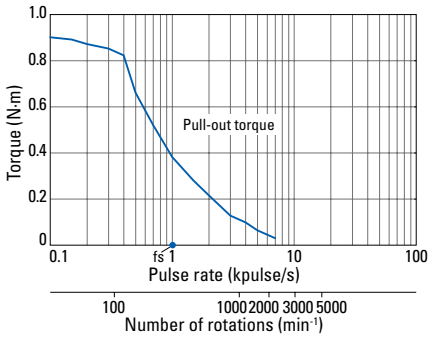


Allowable Load ▶p. 71 Rotation Direction ▶p. 72 General Specifications ▶p. 73

Characteristics diagram

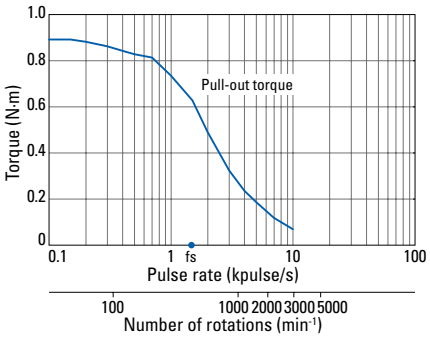
103H7124-0140 103H7124-0110

Constant current circuit
Source voltage: 24 VDC
Operating current:
1 A/phase, 2-phase energization (full-step)
Pull-out torque:
J_L=2.6×10^{-4}kg·m^2 (use the rubber coupling)
fs: Maximum self-start frequency when not loaded



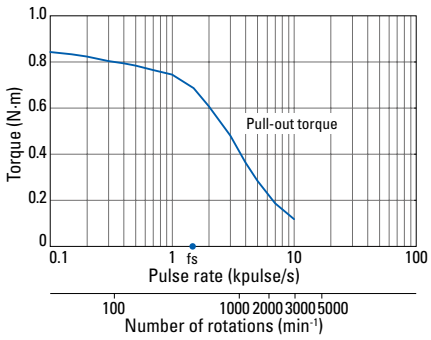
103H7124-0440 103H7124-0410

Constant current circuit
Source voltage: 24 VDC
Operating current:
2 A/phase, 2-phase energization (full-step)
Pull-out torque:
J_L=2.6×10^{-4}kg·m^2 (use the rubber coupling)
fs: Maximum self-start frequency when not loaded



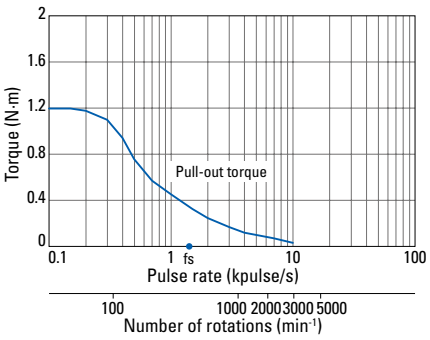
103H7124-0740 103H7124-0710

Constant current circuit
Source voltage: 24 VDC
Operating current:
3 A/phase, 2-phase energization (full-step)
Pull-out torque:
J_L=2.6×10^{-4}kg·m^2 (use the rubber coupling)
fs: Maximum self-start frequency when not loaded



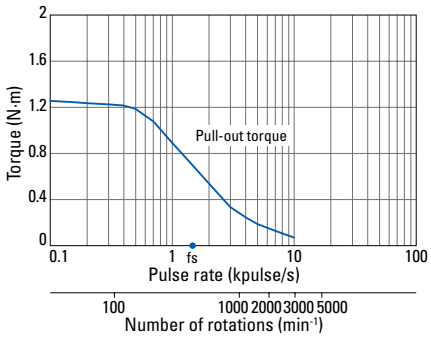
103H7126-0140 103H7126-0110

Constant current circuit
Source voltage: 24 VDC
Operating current:
1 A/phase, 2-phase energization (full-step)
Pull-out torque:
J_L=2.6×10^{-4}kg·m^2 (use the rubber coupling)
fs: Maximum self-start frequency when not loaded



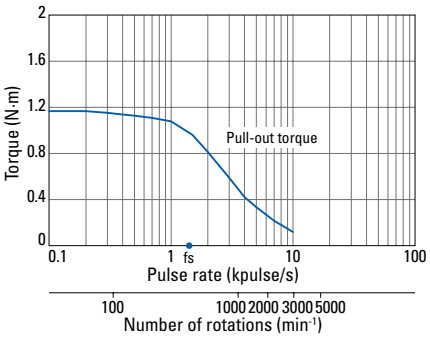
103H7126-0440 103H7126-0410

Constant current circuit
Source voltage: 24 VDC
Operating current:
2 A/phase, 2-phase energization (full-step)
Pull-out torque:
J_L=2.6×10^{-4}kg·m^2 (use the rubber coupling)
fs: Maximum self-start frequency when not loaded

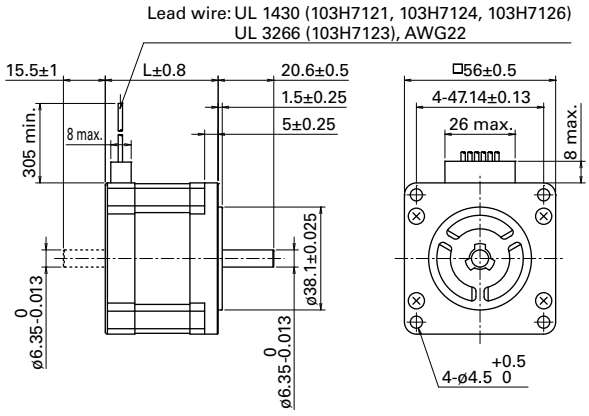


103H7126-0740 103H7126-0710

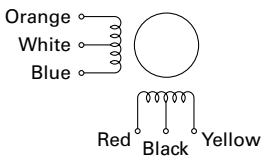
Constant current circuit
Source voltage: 24 VDC
Operating current:
3 A/phase, 2-phase energization (full-step)
Pull-out torque:
J_L=2.6×10^{-4}kg·m^2 (use the rubber coupling)
fs: Maximum self-start frequency when not loaded



Dimensions (Unit: mm)



Internal wiring



Compatible drivers

- For motor model no. 103H712 □ -01 □ 0 (1 A/phase), 103H712 □ -07 □ 0 (3 A/phase)
  Driver is not included.
  If you require assistance finding a driver, contact us for details.
- For model no. 103H712 □ -04 □ 0 (2 A/phase)
  Model no.: US1D200P10 (DC input)
  Operating current select switch setting: 0

The characteristics diagram shown above is from our experimental circuit.

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Data is measured under the trial conditions of SANYO DENKI. Driving torque may vary according to actual machine precision.