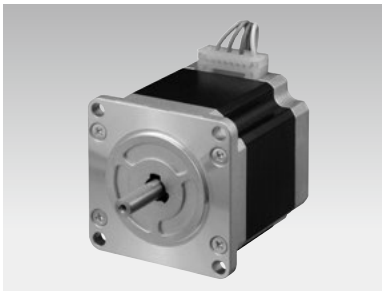


56 mm sq.

1.8°/step RoHS

Bipolar winding, Lead wire type

Unipolar winding, Lead wire type ▶p. 52

Customizing

Hollow | Shaft modification | Decelerator | Encoder

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

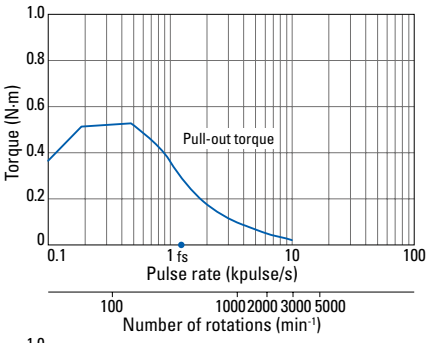
Bipolar winding, Lead wire type

Model no.		Holding torque at 2-phase energization	Rated current	Wiring resistance	Winding inductance	Rotor inertia	Mass	Motor length (L)	Shaft diameter (D)	Dcut thickness (T)
Single shaft	Dual shaft	N·m min.	A/phase	Ω/phase	mH/phase	×10⁻⁴kg·m²	kg	mm	mm	mm
103H7121-5640	**103H7121-5610**	0.55	1	4.3	14.5	0.1	0.47	41.8	0 ø6.35-0.013	5.8
103H7121-5740	**103H7121-5710**	0.55	2	1.1	3.7	0.1	0.47	41.8	0 ø6.35-0.013	5.8
103H7121-5840	**103H7121-5810**	0.55	3	0.54	1.74	0.1	0.47	41.8	0 ø6.35-0.013	5.8
103H7123-5640	**103H7123-5610**	1.0	1	5.7	29.4	0.21	0.65	53.8	0 ø6.35-0.013	5.8
103H7123-5740	**103H7123-5710**	1.0	2	1.5	7.5	0.21	0.65	53.8	0 ø6.35-0.013	5.8
103H7123-5840	**103H7123-5810**	1.0	3	0.7	3.5	0.21	0.65	53.8	0 ø6.35-0.013	5.8
103H7126-5640	**103H7126-5610**	1.6	1	7.7	34.6	0.36	0.98	75.8	0 ø6.35-0.013	5.8
103H7126-5740	**103H7126-5710**	1.6	2	2	9.1	0.36	0.98	75.8	0 ø6.35-0.013	5.8
103H7126-5840	**103H7126-5810**	1.6	3	0.94	4	0.36	0.98	75.8	0 ø6.35-0.013	5.8
103H7128-5640	**103H7128-5610**	2.0	1	8.9	40.1	0.49	1.3	94.8	0 ø8-0.015	7.5
103H7128-5740	**103H7128-5710**	2.0	2	2.3	10.4	0.49	1.3	94.8	0 ø8-0.015	7.5
103H7128-5840	**103H7128-5810**	2.0	3	1.03	4.3	0.49	1.3	94.8	0 ø8-0.015	7.5

Characteristics diagram

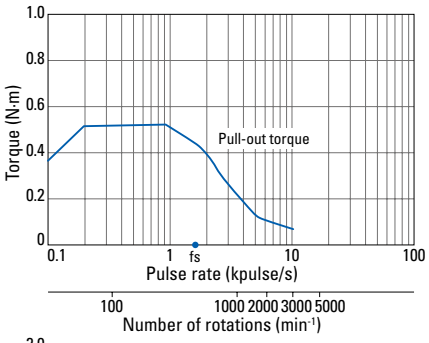
103H7121-5640 / 103H7121-5610

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



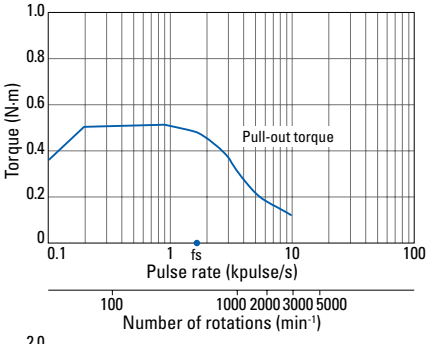
103H7121-5740 / 103H7121-5710

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



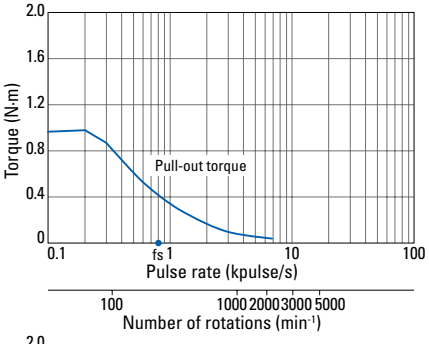
103H7121-5840 / 103H7121-5810

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



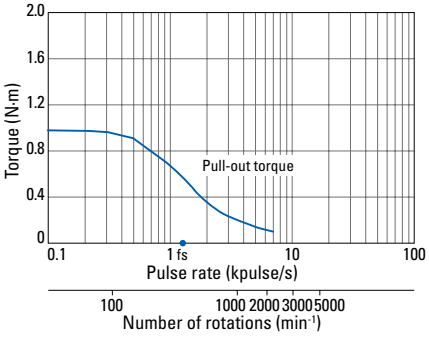
103H7123-5640 / 103H7123-5610

Constant current circuit
Source voltage: 24 VDC
Operating current:
1 A/phase, 2-phase energization (full-step)
Pull-out torque:
J_L=2.6×10⁻⁴kg·m² (use the rubber coupling)
fs: Maximum self-start frequency when not loaded



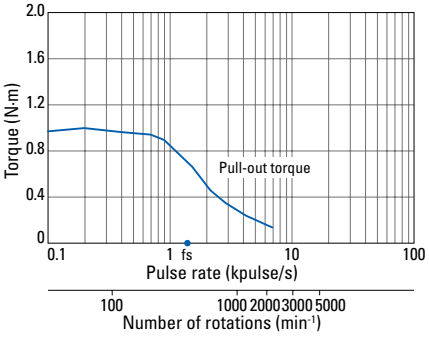
103H7123-5740 / 103H7123-5710

Constant current circuit
Source voltage: 24 VDC
Operating current:
2 A/phase, 2-phase energization (full-step)
Pull-out torque:
J_L=2.6×10⁻⁴kg·m² (use the rubber coupling)
fs: Maximum self-start frequency when not loaded



103H7123-5840 / 103H7123-5810

Constant current circuit
Source voltage: 24 VDC
Operating current:
3 A/phase, 2-phase energization (full-step)
Pull-out torque:
J_L=2.6×10⁻⁴kg·m² (use the rubber coupling)
fs: Maximum self-start frequency when not loaded



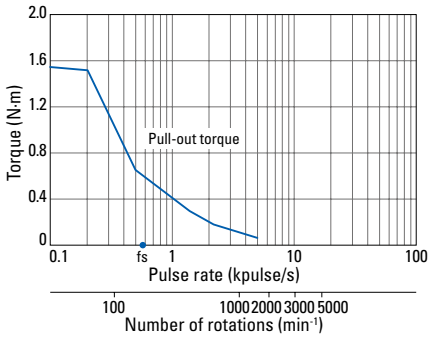
Allowable Load ▶p. 71 Rotation Direction ▶p. 72 General Specifications ▶p. 73

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

Characteristics diagram

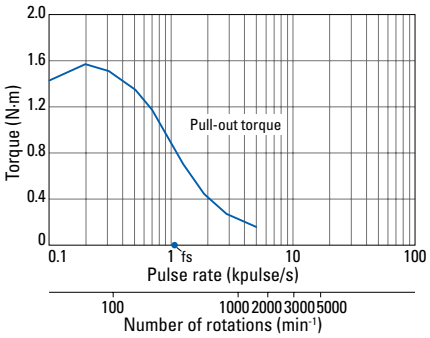
103H7126-5640 103H7126-5610

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



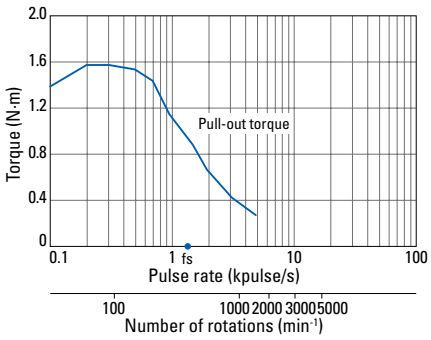
103H7126-5740 103H7126-5710

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



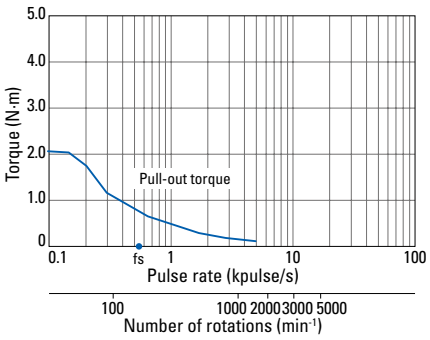
103H7126-5840 103H7126-5810

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



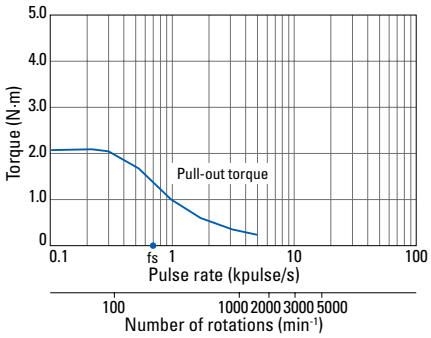
103H7128-5640 103H7128-5610

Constant current circuit
Source voltage: 24 VDC
Operating current:
1 A/phase, 2-phase energization (full-step)
Pull-out torque:
J_L=7.4×10^{-4}kg·m^2 (use the rubber coupling)
fs: Maximum self-start frequency when not loaded



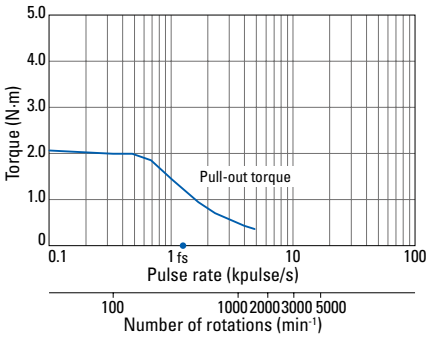
103H7128-5740 103H7128-5710

Constant current circuit
Source voltage: 24 VDC
Operating current:
2 A/phase, 2-phase energization (full-step)
Pull-out torque:
J_L=7.4×10^{-4}kg·m^2 (use the rubber coupling)
fs: Maximum self-start frequency when not loaded

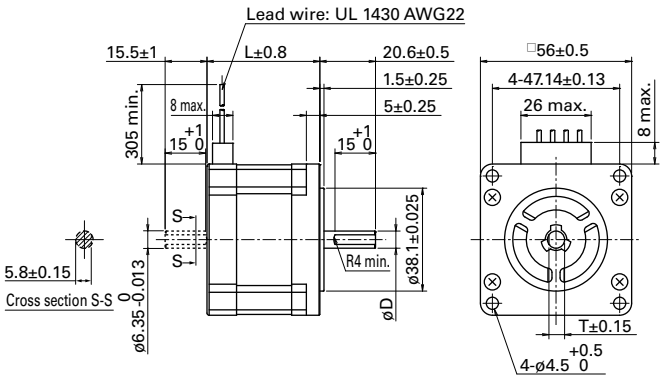


103H7128-5840 103H7128-5810

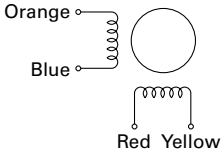
Constant current circuit
Source voltage: 24 VDC
Operating current:
3 A/phase, 2-phase energization (full-step)
Pull-out torque:
J_L=7.4×10^{-4}kg·m^2 (use the rubber coupling)
fs: Maximum self-start frequency when not loaded



Dimensions (Unit: mm)



Internal wiring



Compatible drivers

- For Motor model no. 103H7121-57 □ 0 (2 A/phase), 103H7123-57 □ 0 (2 A/phase), 103H7126-57 □ 0 (2 A/phase)
  Model no.: BS1D200P10 (DC input)
  Operating current select switch setting: 0
- Driver is not included for other motor model nos.
  If you require assistance finding a driver, contact us for details.

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

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