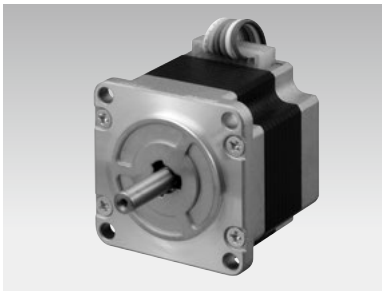


50 mm sq.

1.8°/step RoHS

Unipolar winding, Lead wire type

Bipolar winding, Lead wire type ▶p. 50

Customizing

Hollow | Shaft modification

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

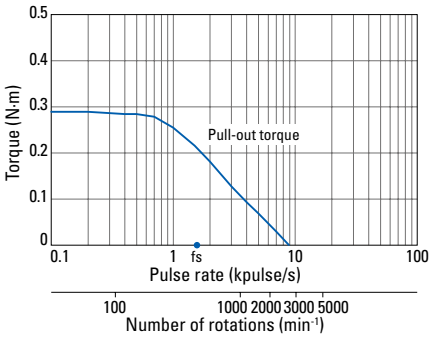
Unipolar winding, Lead wire type

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
103H6701-0140	103H6701-0110	0.28	1	4.3	6.8	0.057	0.35	39.8
103H6701-0440	103H6701-0410	0.28	2	1.1	1.6	0.057	0.35	39.8
103H6701-0740	103H6701-0710	0.28	3	0.6	0.7	0.057	0.35	39.8
103H6703-0140	103H6703-0110	0.49	1	6	13	0.118	0.5	51.3
103H6703-0440	103H6703-0410	0.49	2	1.6	3.2	0.118	0.5	51.3
103H6703-0740	103H6703-0710	0.49	3	0.83	1.4	0.118	0.5	51.3
103H6704-0140	103H6704-0110	0.52	1	6.5	16.5	0.14	0.55	55.8
103H6704-0440	103H6704-0410	0.52	2	1.7	3.8	0.14	0.55	55.8
103H6704-0740	103H6704-0710	0.53	3	0.9	1.7	0.14	0.55	55.8

Characteristics diagram

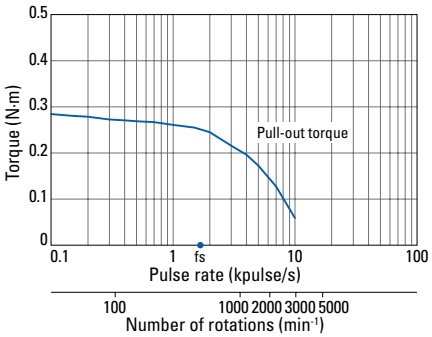
103H6701-0140 103H6701-0110

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



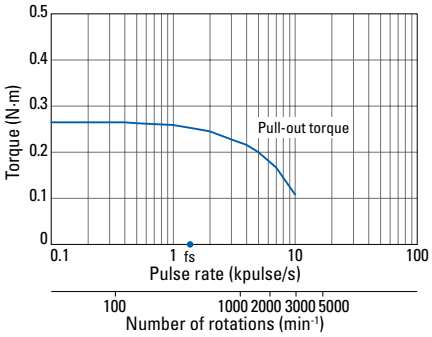
103H6701-0440 103H6701-0410

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



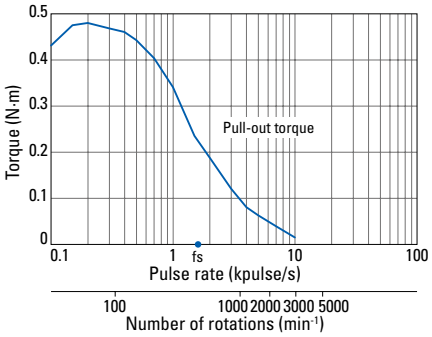
103H6701-0740 103H6701-0710

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



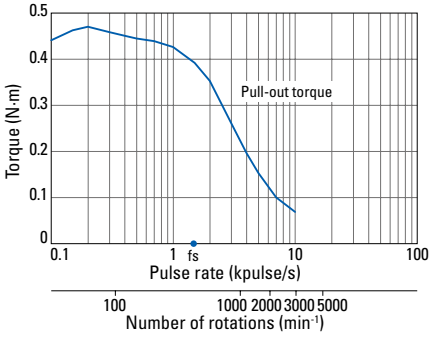
103H6703-0140 103H6703-0110

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



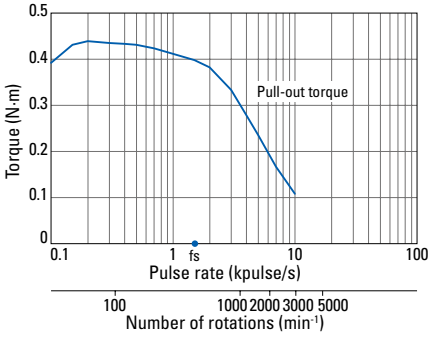
103H6703-0440 103H6703-0410

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



103H6703-0740 103H6703-0710

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



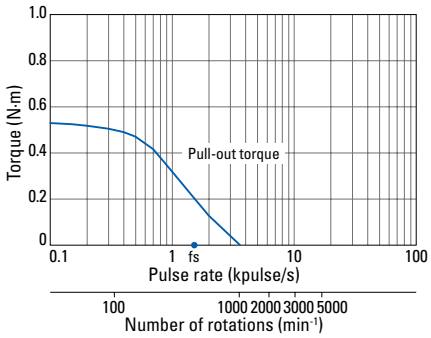
Allowable Load ▶p. 71 Rotation Direction ▶p. 72 General Specifications ▶p. 73

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

Characteristics diagram

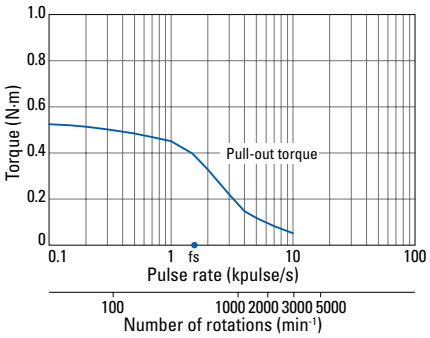
103H6704-0140 103H6704-0110

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^{-4}kg·m^2 (use the rubber coupling)
fs: Maximum self-start frequency when not loaded



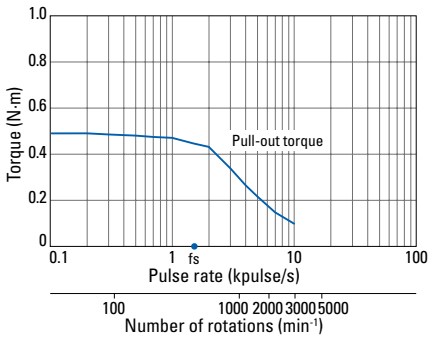
103H6704-0440 103H6704-0410

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^{-4}kg·m^2 (use the rubber coupling)
fs: Maximum self-start frequency when not loaded

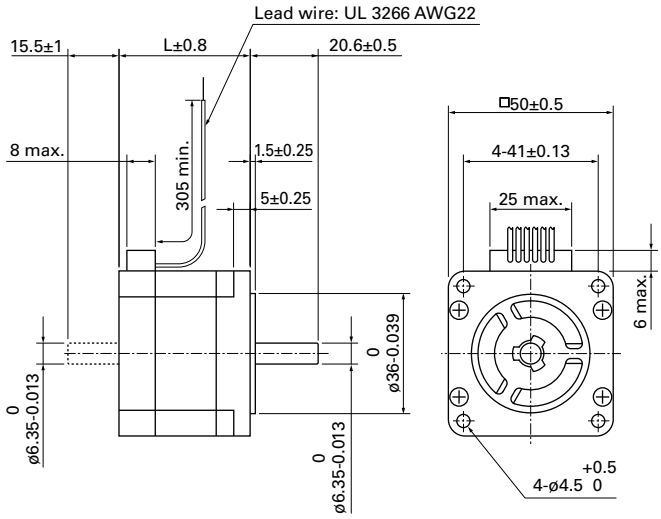


103H6704-0740 103H6704-0710

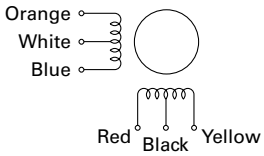
Constant current circuit
Source voltage: 24 VDC
Operating current:
3 A/phase, 2-phase energization (full-step)
Pull-out torque:
J_L=0.94×10^{-4}kg·m^2 (use the rubber coupling)
fs: Maximum self-start frequency when not loaded



Dimensions (Unit: mm)



Internal wiring



Compatible drivers

- For motor model no. 103H670 □ -01 □ 0 (1 A/phase), 103H670 □ -07 □ 0 (3 A/phase)
  Driver is not included.
  If you require assistance finding a driver, contact us for details.
- For model no. 103H670 □ -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.

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.