28 mm sq. (1.10 inch sq.)

1.8° /step RoHS

Bipolar winding, Lead wire type

Unipolar winding, Lead wire type ▶p. 55

Customizing

Hollow | Shaft modification | Decelerator | Encoder

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

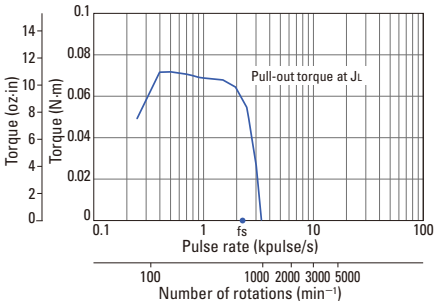
Bipolar winding, Lead wire type

Model number		Holding torque at 2-phase energization	Rated current	Wiring resistance	Winding inductance	Rotor inertia	Mass (Weight)	Motor length (L)
Single shaft	Dual shaft	[N·m (oz·in) min.]	A/phase	Ω /phase	mH/phase	[×10⁻⁴kg·m² (oz·in²)]	[kg (lbs)]	mm (in)
SH2281-5671	**SH2281-5631**	0.07 (9.91)	0.5	10.5	7.2	0.01 (0.05)	0.11 (0.24)	32 (1.26)
SH2281-5771	**SH2281-5731**	0.07 (9.91)	1	2.6	1.85	0.01 (0.05)	0.11 (0.24)	32 (1.26)
SH2285-5671	**SH2285-5631**	0.145 (20.53)	0.5	15	13.5	0.022 (0.12)	0.2 (0.44)	51.5 (2.03)
SH2285-5771	**SH2285-5731**	0.145 (20.53)	1	3.75	3.4	0.022 (0.12)	0.2 (0.44)	51.5 (2.03)

Characteristics diagram

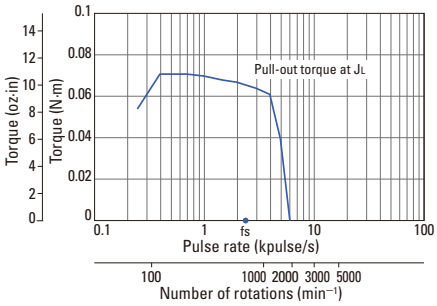
SH2281-5671
SH2281-5631

Constant current circuit
Source voltage: 24 VDC
Operating current:
0.5 A/phase, 2-phase energization (full-step)
J_L=[0.01 × 10⁻⁴kg·m² (1.80 oz·in²) pulley balancer method]
fs: Maximum self-start frequency when not loaded



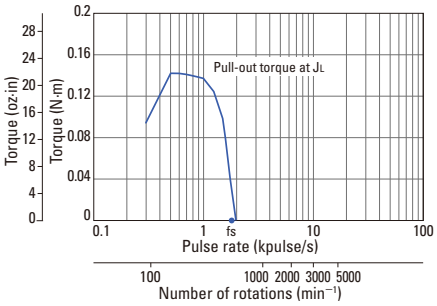
SH2281-5771
SH2281-5731

Constant current circuit
Source voltage: 24 VDC
Operating current:
1 A/phase, 2-phase energization (full-step)
J_L=[0.01 × 10⁻⁴kg·m² (1.80 oz·in²) pulley balancer method]
fs: Maximum self-start frequency when not loaded



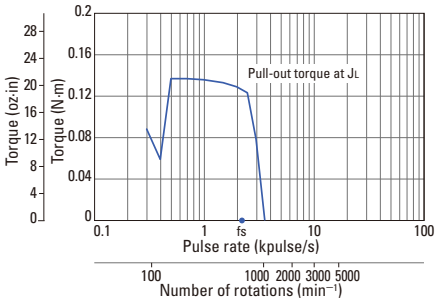
SH2285-5671
SH2285-5631

Constant current circuit
Source voltage: 24 VDC
Operating current:
0.5 A/phase, 2-phase energization (full-step)
J_L=[0.01 × 10⁻⁴kg·m² (1.80 oz·in²) pulley balancer method]
fs: Maximum self-start frequency when not loaded

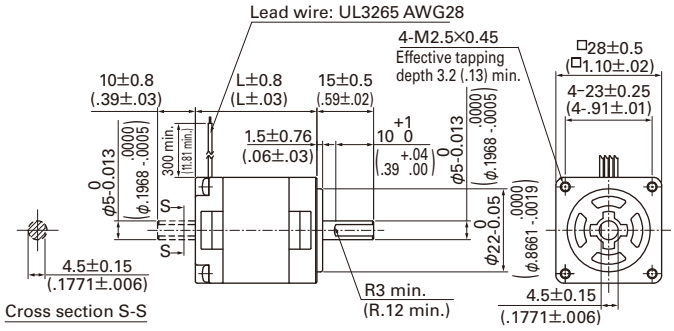


SH2285-5771
SH2285-5731

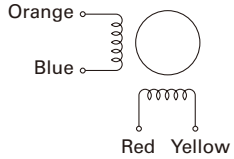
Constant current circuit
Source voltage: 24 VDC
Operating current:
1 A/phase, 2-phase energization (full-step)
J_L=[0.01 × 10⁻⁴kg·m² (1.80 oz·in²) pulley balancer method]
fs: Maximum self-start frequency when not loaded



Dimensions [Unit: mm (inch)]



Internal wiring



Compatible drivers

- For motor model number SH228 □ -56 □ 1 (0.5 A/phase)
  Driver is not included.
  If you require assistance finding a driver, contact us for details.
- For model number SH228 □ -57 □ 1 (1 A/phase)
  Model number: BS1D200P10 (DC input)
  Operating current select switch setting: A

The characteristics diagram shown above is from our experimental circuit.

Allowable Load, Rotation Direction ▶p. 87 General Specifications ▶p. 88

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