



28 mm sq.

1.8°/step RoHS

Unipolar winding, Lead wire type

Bipolar winding, Lead wire type ▶ p. 40

Customizing

Hollow Shaft modification
Decelerator Encoder

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

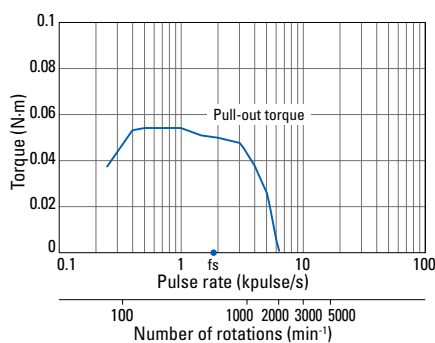
Unipolar winding, Lead wire type

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	$\times 10^{-4}$ kg·m ²	kg	mm
SH2281-5171	SH2281-5131	0.055	0.5	10.5	3.7	0.01	0.11	32
SH2281-5271	SH2281-5231	0.055	1	2.85	1	0.01	0.11	32
SH2285-5171	SH2285-5131	0.115	0.5	17	7	0.022	0.2	51.5
SH2285-5271	SH2285-5231	0.115	1	4.1	1.9	0.022	0.2	51.5

Characteristics diagram

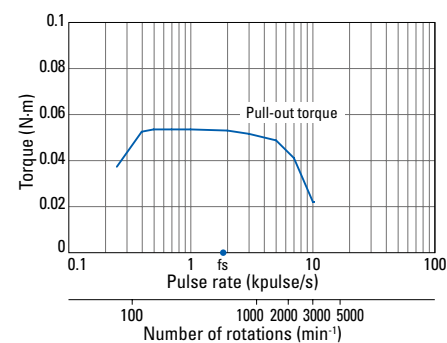
SH2281-5171 SH2281-5131

Constant current circuit
Source voltage: 24 VDC
Operating current:
0.5 A/phase, 2-phase
energization (full-step)
Pull-out torque:
 $J_L=0.01 \times 10^{-4}$ kg·m² (pulley
balancer method)
fs: Maximum self-start
frequency when not
loaded



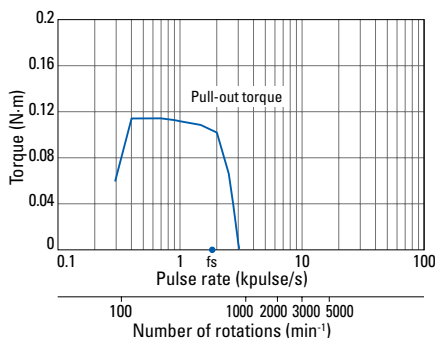
SH2281-5271 SH2281-5231

Constant current circuit
Source voltage: 24 VDC
Operating current:
1 A/phase, 2-phase
energization (full-step)
Pull-out torque:
 $J_L=0.01 \times 10^{-4}$ kg·m² (pulley
balancer method)
fs: Maximum self-start
frequency when not
loaded



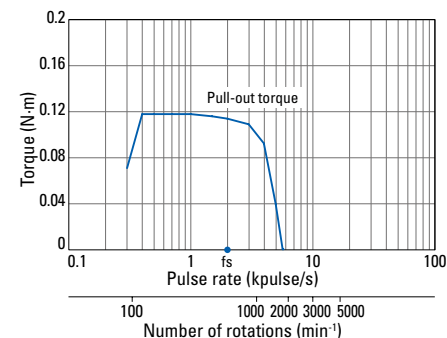
SH2285-5171 SH2285-5131

Constant current circuit
Source voltage: 24 VDC
Operating current:
0.5 A/phase, 2-phase
energization (full-step)
Pull-out torque:
 $J_L=0.01 \times 10^{-4}$ kg·m² (pulley
balancer method)
fs: Maximum self-start
frequency when not
loaded

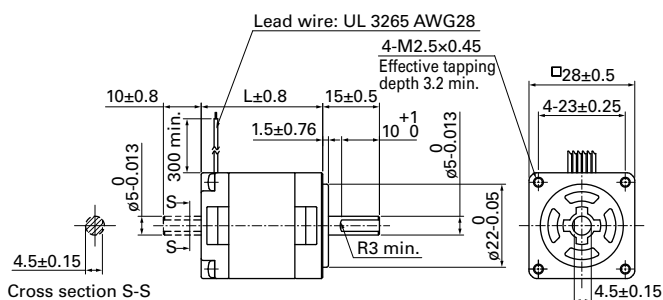


SH2285-5271 SH2285-5231

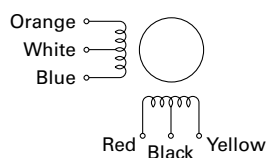
Constant current circuit
Source voltage: 24 VDC
Operating current:
1 A/phase, 2-phase
energization (full-step)
Pull-out torque:
 $J_L=0.01 \times 10^{-4}$ kg·m² (pulley
balancer method)
fs: Maximum self-start
frequency when not
loaded



Dimensions (Unit: mm)



Internal wiring



Compatible drivers

- For motor model no. SH228 □ -51 □ 1 (0.5 A/phase)
Driver is not included.
If you require assistance finding a driver, contact us for details.
- For model no. SH228 □ -52 □ 1 (1 A/phase)
Model no.: BS1D200P10 (DC input)
Operating current select switch setting: A
The characteristics diagram shown above is from our experimental circuit.