



# 28 mm sq.

1.8°/step RoHS

Bipolar winding, Lead wire type  
Unipolar winding, Lead wire type ▶ p. 39

### Customizing

Hollow Shaft modification  
Decelerator Encoder

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

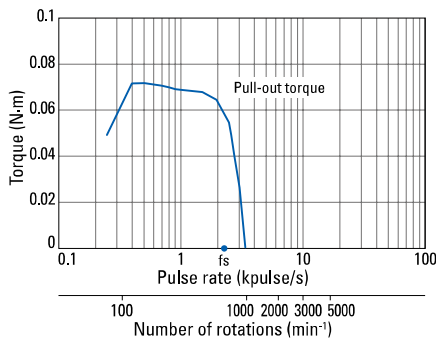
### Bipolar winding, Lead wire type

Model no.		Holding torque at 2-phase energization	Rated current	Wiring resistance	Winding inductance	Rotor inertia	Mass	Motor length (L)
Single shaft	Dual shaft	N·m min.	A/phase	Ω/phase	mH/phase	×10 <sup>-4</sup> kg·m <sup>2</sup>	kg	mm
SH2281-5671	SH2281-5631	0.07	0.5	10.5	7.2	0.01	0.11	32
SH2281-5771	SH2281-5731	0.07	1	2.6	1.85	0.01	0.11	32
SH2285-5671	SH2285-5631	0.145	0.5	15	13.5	0.022	0.2	51.5
SH2285-5771	SH2285-5731	0.145	1	3.75	3.4	0.022	0.2	51.5

## Characteristics diagram

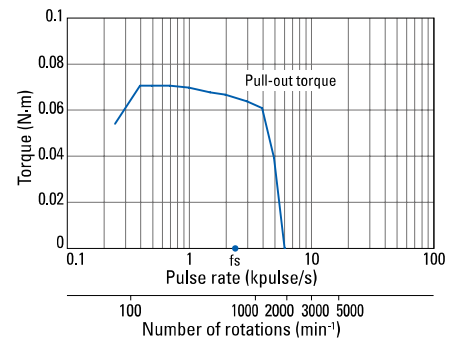
### SH2281-5671 SH2281-5631

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



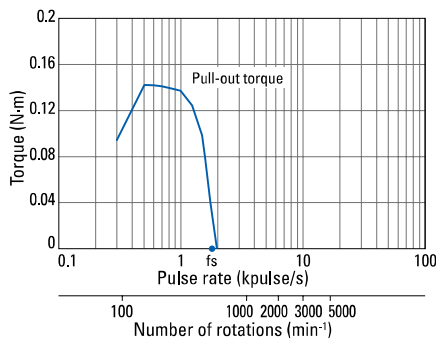
### SH2281-5771 SH2281-5731

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



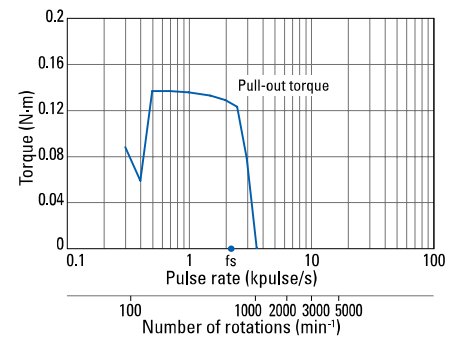
### SH2285-5671 SH2285-5631

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

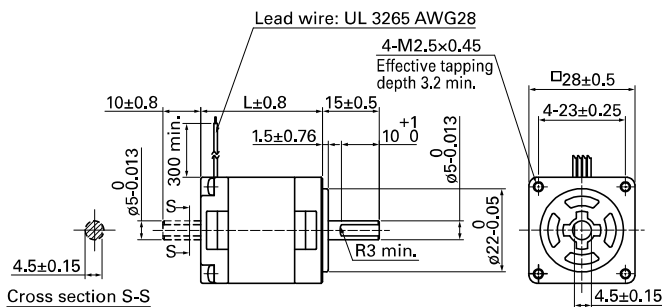


### SH2285-5771 SH2285-5731

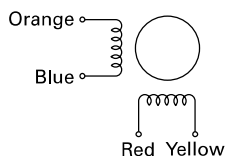
Constant current circuit  
Source voltage: 24 VDC  
Operating current:  
1 A/phase, 2-phase  
energization (full-step)  
Pull-out torque:  
 $J_i=0.01 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (pulley  
balancer method)  
fs: Maximum self-start  
frequency when not  
loaded



## Dimensions (Unit: mm)



## Internal wiring



## Compatible drivers

- For motor model no. SH228 □ -56 □ 1 (0.5 A/phase)  
Driver is not included.  
If you require assistance finding a driver, contact us for details.
- For model no. SH228 □ -57 □ 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.*