

28 mm sq.

1.8°/step **RoHS**

Unipolar, lead type
Bipolar, lead type ▶ p. 38



Custom options

- Hollow shaft Custom shaft
- Gear Encoder

Note: Customization feasibility depends on the model number and quantity. Contact us for details.

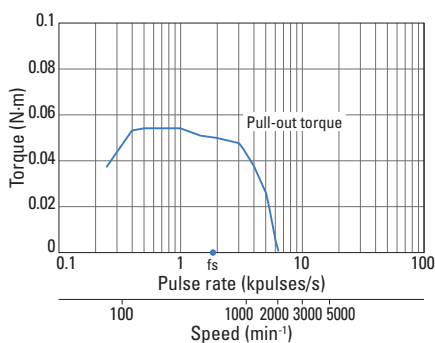
Unipolar, lead type

Model no.		Holding torque at 2-phase excitation	Rated current	Winding resistance	Winding inductance	Rotor inertia	Mass	Motor length (L)
Single shaft	Dual shaft	N·m or more	A/phase	Ω/phase	mH/phase	×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

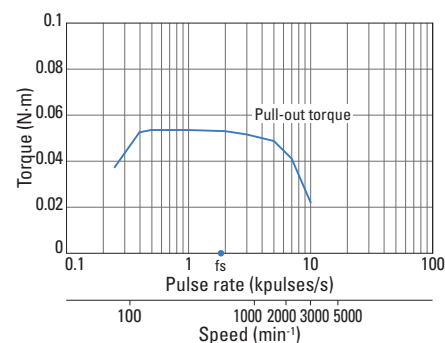
**SH2281-5171
SH2281-5131**

Constant current circuit
Input voltage: 24 VDC
Winding current: 0.5 A/phase
At 2-phase excitation (full step)
Pull-out torque:
 $J_L = 0.01 \times 10^{-4} \text{kg}\cdot\text{m}^2$
(Pulley balancer method)
fs: Maximum starting pulse rate with no load



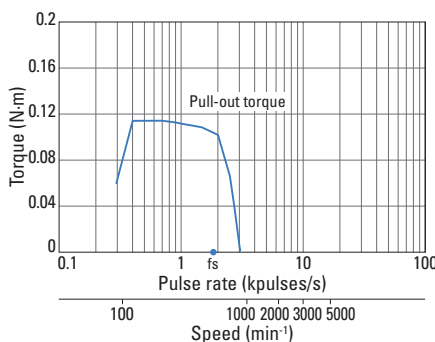
**SH2281-5271
SH2281-5231**

Constant current circuit
Input voltage: 24 VDC
Winding current: 1 A/phase
At 2-phase excitation (full step)
Pull-out torque:
 $J_L = 0.01 \times 10^{-4} \text{kg}\cdot\text{m}^2$
(Pulley balancer method)
fs: Maximum starting pulse rate with no load



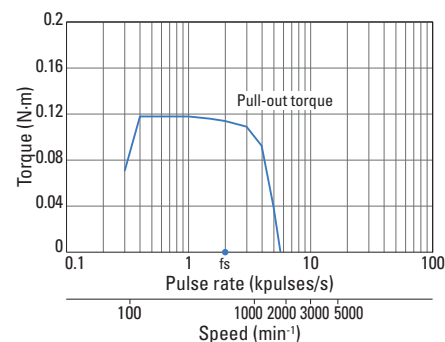
**SH2285-5171
SH2285-5131**

Constant current circuit
Input voltage: 24 VDC
Winding current: 0.5 A/phase
At 2-phase excitation (full step)
Pull-out torque:
 $J_L = 0.01 \times 10^{-4} \text{kg}\cdot\text{m}^2$
(Pulley balancer method)
fs: Maximum starting pulse rate with no load

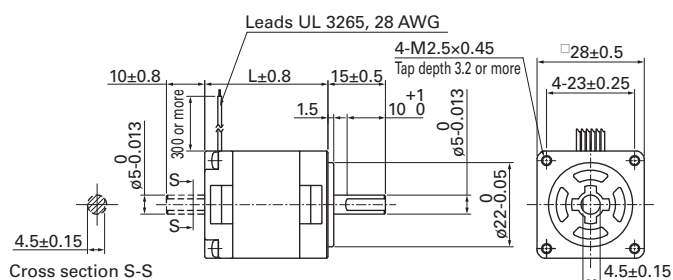


**SH2285-5271
SH2285-5231**

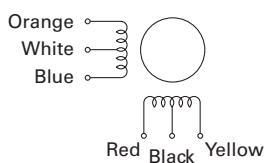
Constant current circuit
Input voltage: 24 VDC
Winding current: 1 A/phase
At 2-phase excitation (full step)
Pull-out torque:
 $J_L = 0.01 \times 10^{-4} \text{kg}\cdot\text{m}^2$
(Pulley balancer method)
fs: Maximum starting pulse rate with no load



Dimensions (Unit: mm)



Internal winding



Compatible drivers

- For motors SH228 □ -52 □ 1 (1 A/phase)...
Model no.: US1D200P10 (DC input)
Operating current selection switch setting: A
- For motors other than above...
A driver is to be provided by the customer.

Note: The characteristics shown above are calculated using our experimental circuit.