

42 mm sq.

1.8°/step **RoHS**

Unipolar, connector type
Bipolar, connector type ▶ p. 45



Custom options

- Custom shaft
- Gear
- Encoder
- Brake

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

Unipolar, connector type

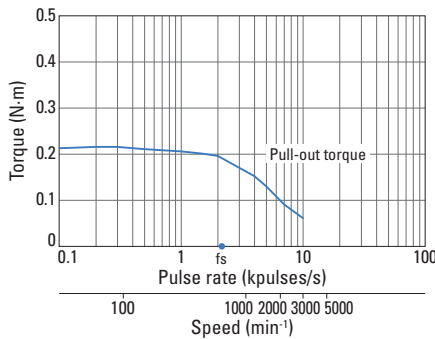
Model no.		Holding torque at 2-phase excitation	Rated current	Winding resistance	Winding inductance	Rotor inertia	Mass	Motor length (L)
Single shaft	Dual shaft	N·m or more	A/phase	Ω/phase	mH/phase	×10 ⁻⁴ kg·m ²	kg	mm
SF2421-12U41	SF2421-12U11	0.22	1.2	2.4	2.4	0.031	0.23	33 ± 0.5
SF2422-12U41	SF2422-12U11	0.33	1.2	3	3.3	0.046	0.3	39 ± 0.5
SF2423-12U41	SF2423-12U11	0.4	1.2	3.4	3.9	0.063	0.38	48 ± 0.5
SF2424-12U41	SF2424-12U11	0.58	1.2	4.4	5.4	0.094	0.51	59.5 ± 1

Motor cable model no.: 4835774-1

Characteristics

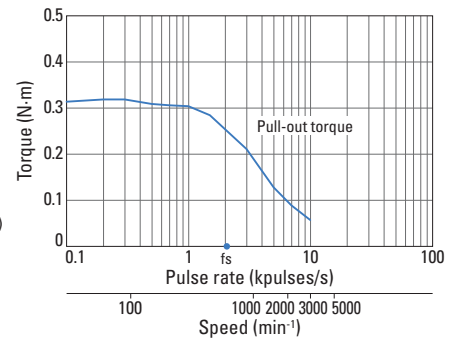
SF2421-12U41 SF2421-12U11

Constant current circuit
Input voltage: 24 VDC
Winding current: 1.2 A/phase
At 2-phase excitation (full step)
Pull-out torque:
 $J_L = 0.94 \times 10^{-4} \text{kg}\cdot\text{m}^2$
(with rubber coupling used)
fs: Maximum starting pulse rate with no load



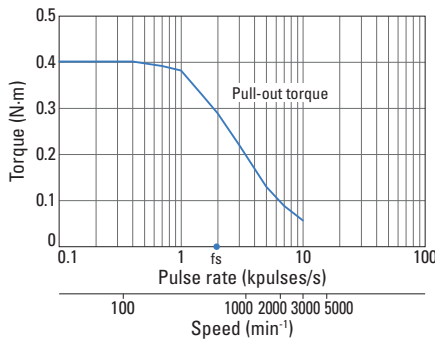
SF2422-12U41 SF2422-12U11

Constant current circuit
Input voltage: 24 VDC
Winding current: 1.2 A/phase
At 2-phase excitation (full step)
Pull-out torque:
 $J_L = 0.94 \times 10^{-4} \text{kg}\cdot\text{m}^2$
(with rubber coupling used)
fs: Maximum starting pulse rate with no load



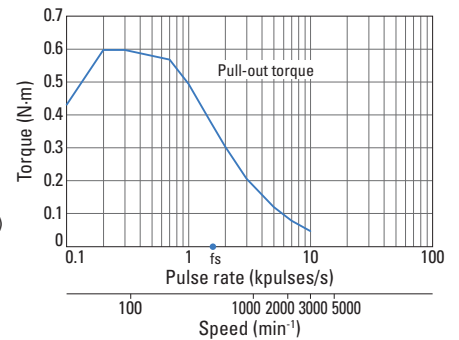
SF2423-12U41 SF2423-12U11

Constant current circuit
Input voltage: 24 VDC
Winding current: 1.2 A/phase
At 2-phase excitation (full step)
Pull-out torque:
 $J_L = 0.94 \times 10^{-4} \text{kg}\cdot\text{m}^2$
(with rubber coupling used)
fs: Maximum starting pulse rate with no load

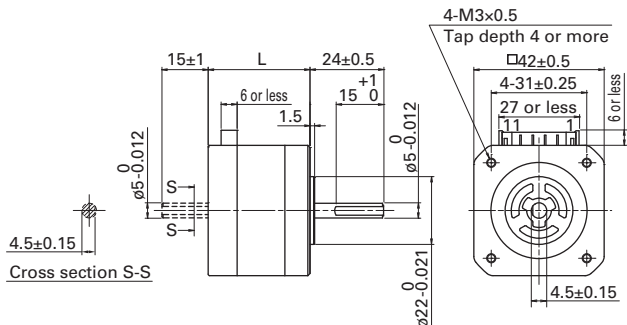


SF2424-12U41 SF2424-12U11

Constant current circuit
Input voltage: 24 VDC
Winding current: 1.2 A/phase
At 2-phase excitation (full step)
Pull-out torque:
 $J_L = 0.94 \times 10^{-4} \text{kg}\cdot\text{m}^2$
(with rubber coupling used)
fs: Maximum starting pulse rate with no load



Dimensions (Unit: mm)



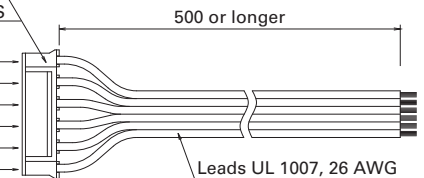
Separate option: Motor cable 4835774-1

Mfr.: J.S.T.

Housing: PHR-11

Terminal: SPH-002T-P0.5S

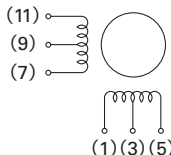
- | Terminal no. | Lead color |
|--------------|------------|
| 11 | Orange |
| 9 | White |
| 7 | Blue |
| 5 | Yellow |
| 3 | Black |
| 1 | Red |



This is a motor cable for model nos. SF242□-12U□1

Internal wiring

In parentheses are connector pin nos.



Compatible drivers

Model no.: US1D200P10 (DC input)

Operating current selection switch setting: 8

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