

42 mm sq.

1.8°/step **RoHS**

Unipolar winding, Connector type

Bipolar winding, Connector type ▶ p. 46

Customizing

Shaft length Shaft shape

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

Unipolar winding, Connector type

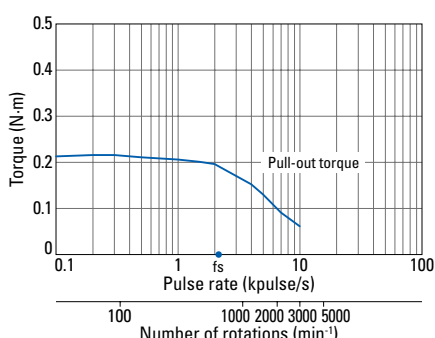
Model no.		Holding torque at 2-phase energization	Rated current	Wiring resistance	Winding inductance	Rotor inertia	Mass	Motor length (L)
Single shaft	Dual shaft	N·m min.	A/phase	Ω/phase	mH/phase	×10 ⁻⁴ kg·m ²	kg	mm
SF2421-12U41	SF2421-12U11	0.22	1.2	2.4	2.4	0.031	0.23	33±0.5
SF2422-12U41	SF2422-12U11	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. 4835710-1

Characteristics diagram

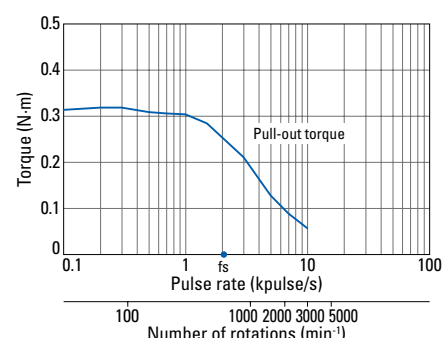
SF2421-12U41 SF2421-12U11

Constant current circuit
Source voltage: 24 VDC
Operating current:
1.2 A/phase, 2-phase
energization (full-step)
Pull-out torque:
 $J_L=0.94 \times 10^{-4}$ kg·m² (use the
rubber coupling)
fs: Maximum self-start
frequency when not
loaded



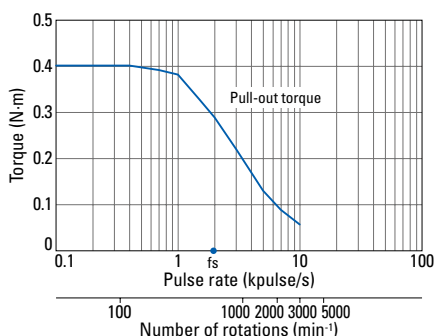
SF2422-12U41 SF2422-12U11

Constant current circuit
Source voltage: 24 VDC
Operating current:
1.2 A/phase, 2-phase
energization (full-step)
Pull-out torque:
 $J_L=0.94 \times 10^{-4}$ kg·m² (use the
rubber coupling)
fs: Maximum self-start
frequency when not
loaded



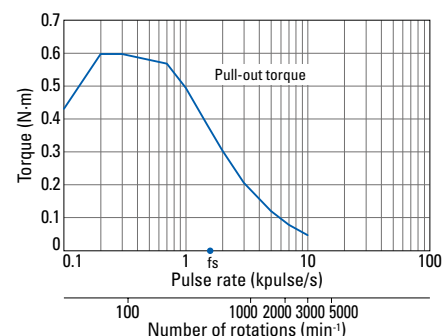
SF2423-12U41 SF2423-12U11

Constant current circuit
Source voltage: 24 VDC
Operating current:
1.2 A/phase, 2-phase
energization (full-step)
Pull-out torque:
 $J_L=0.94 \times 10^{-4}$ kg·m² (use the
rubber coupling)
fs: Maximum self-start
frequency when not
loaded

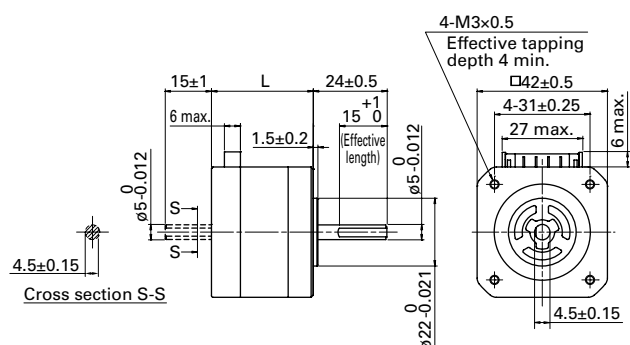


SF2424-12U41 SF2424-12U11

Constant current circuit
Source voltage: 24 VDC
Operating current:
1.2 A/phase, 2-phase
energization (full-step)
Pull-out torque:
 $J_L=0.94 \times 10^{-4}$ kg·m² (use the
rubber coupling)
fs: Maximum self-start
frequency when not
loaded



Dimensions (Unit: mm)



Option (sold separately): Motor cable model no. 4835774-1

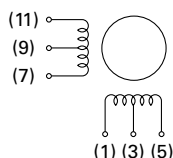
Manufacturer: J.S.T.
Housing: PHR-11
Pin: SPH-002T-P0.5S

Pin no.	Lead wire color
11	Orange
9	White
7	Blue
5	Yellow
3	Black
1	Red

Lead wire: UL 1007 AWG26

This motor cable is for model no. SF242□-12U□1.

Internal wiring () connector pin number



Compatible drivers

Model no.: US1D200P10

Operating current select switch setting: 8

The characteristics diagram shown above is from our experimental circuit.