

42 mm sq.

1.8°/step **RoHS**

Bipolar winding, Connector type
Unipolar winding, Connector type ▶ p. 45

Customizing

[Shaft length](#) [Shaft shape](#)

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

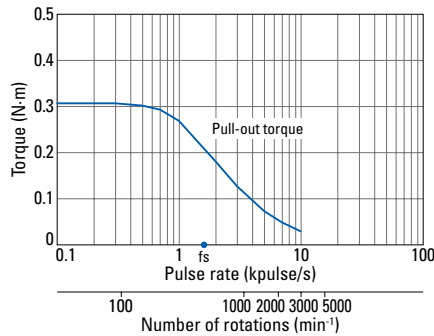
Bipolar winding, Connector type

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	$\times 10^{-4}$ kg·m ²	kg	mm
SF2421-10B41	SF2421-10B11	0.29	1	3.6	7	0.031	0.23	33±0.5
SF2422-10B41	SF2422-10B11	0.43	1	4.6	9.6	0.046	0.3	39±0.5
SF2423-10B41	SF2423-10B11	0.56	1	5.3	12.5	0.063	0.38	48±0.5
SF2424-10B41	SF2424-10B11	0.8	1	6.5	16	0.094	0.51	59.5±1

Characteristics diagram

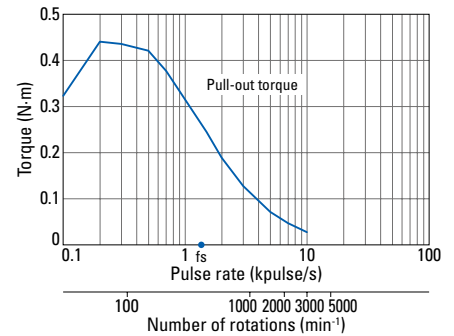
SF2421-10B41 SF2421-10B11

Constant current circuit
Source voltage: 24 VDC
Operating current:
1 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



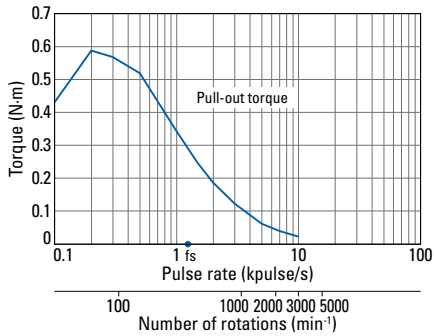
SF2422-10B41 SF2422-10B11

Constant current circuit
Source voltage: 24 VDC
Operating current:
1 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



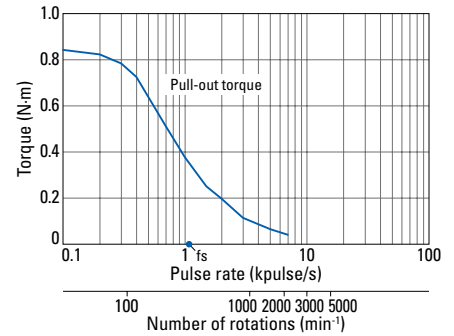
SF2423-10B41 SF2423-10B11

Constant current circuit
Source voltage: 24 VDC
Operating current:
1 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

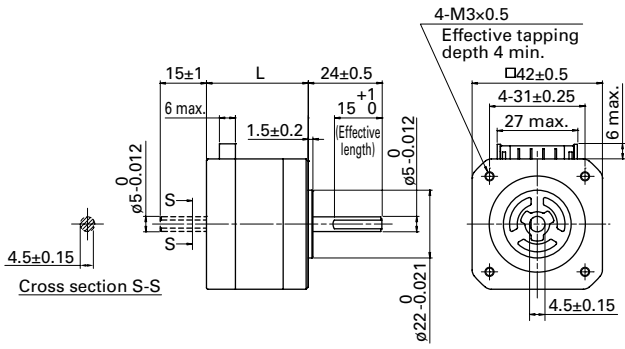


SF2424-10B41 SF2424-10B11

Constant current circuit
Source voltage: 24 VDC
Operating current:
1 A/phase, 2-phase
energization (full-step)
Pull-out torque:
 $J_L=2.6 \times 10^{-4}$ kg·m² (use the
rubber coupling)
fs: Maximum self-start
frequency when not
loaded

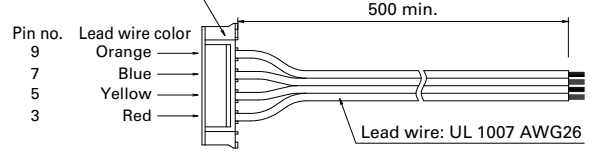


Dimensions (Unit: mm)



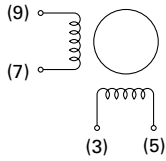
Option (sold separately): Motor cable model no. 4835775-1

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



This motor cable is for model no. SF242□-10B□1.

Internal wiring () connector pin number



Compatible drivers

Model no.: BS1D200P10

Operating current select switch setting: A

The characteristics diagram shown above is from our experimental circuit.