



# 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.

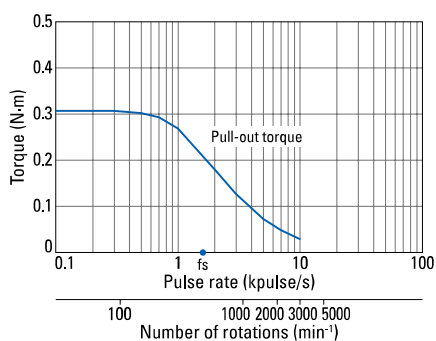
### Bipolar winding, Connector type

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	×10 <sup>-4</sup> kg·m <sup>2</sup>	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

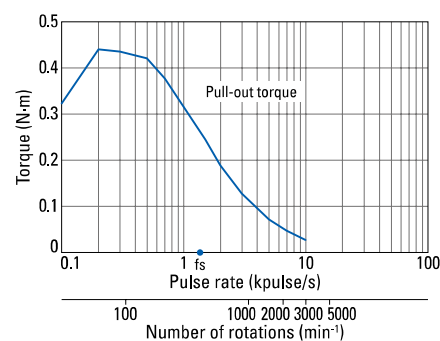
### SF2421-10B41 SF2421-10B11

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



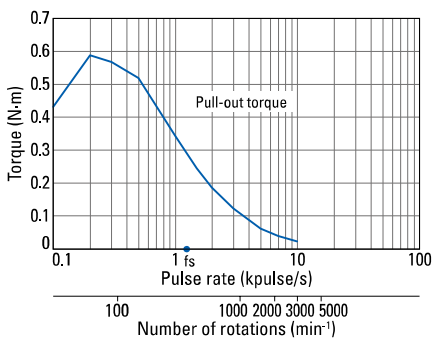
### SF2422-10B41 SF2422-10B11

Constant current circuit  
Source voltage: 24 VDC  
Operating current:  
1 A/phase, 2-phase  
energization (full-step)  
Pull-out torque:  
 $J_i=0.94 \times 10^{-4} \text{kg}\cdot\text{m}^2$  (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:  
 $J_i=0.94 \times 10^{-4} \text{kg}\cdot\text{m}^2$  (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:  
 $J_i=2.6 \times 10^{-4} \text{kg}\cdot\text{m}^2$  (use the  
rubber coupling)  
fs: Maximum self-start  
frequency when not  
loaded

