

# 60 mm sq. (2.36 inch sq.)

1.8° /step **RoHS**

Bipolar winding, Connector type

Bipolar winding, Lead wire type

Dimensions for attaching NEMA23 are interchangeable (47.14 mm-pitch)

Unipolar winding, Connector type ▶ p. 74

Unipolar winding, Lead wire type

Dimensions for attaching NEMA23 are interchangeable (47.14 mm-pitch) ▶ p. 74

## Customizing

[Hollow](#) [Shaft modification](#)

[Decelerator](#) [Encoder](#)

[Brake](#)

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

### Bipolar winding, Connector type

Model number		Holding torque at 2-phase energization [N·m (oz·in) min.]	Rated current A/phase	Wiring resistance Ω/phase	Winding inductance mH/phase	Rotor inertia [ $\times 10^{-4}$ kg·m <sup>2</sup> (oz·in <sup>2</sup> )]	Mass (Weight) [kg (lbs)]	Motor length (L) mm (in)
Single shaft	Dual shaft							
103H7821-5740	103H7821-5710	0.88 (124.6)	2	1.27	3.3	0.275 (1.50)	0.6 (1.32)	44.8 (1.76)
103H7821-1740	103H7821-1710	0.88 (124.6)	4	0.35	0.8	0.275 (1.50)	0.6 (1.32)	44.8 (1.76)
103H7822-5740	103H7822-5710	1.37 (194.0)	2	1.55	5.5	0.4 (2.19)	0.77 (1.70)	53.8 (2.12)
103H7822-1740	103H7822-1710	1.37 (194.0)	4	0.43	1.38	0.4 (2.19)	0.77 (1.70)	53.8 (2.12)
103H7823-5740	103H7823-5710	2.7 (382.3)	2	2.4	9.5	0.84 (4.59)	1.34 (2.95)	85.8 (3.38)
103H7823-1740	103H7823-1710	2.7 (382.3)	4	0.65	2.4	0.84 (4.59)	1.34 (2.95)	85.8 (3.38)

Motor cable: Model No. 4837961-1

### Bipolar winding, Lead wire type Dimensions for attaching NEMA23 are interchangeable (47.14 mm-pitch)

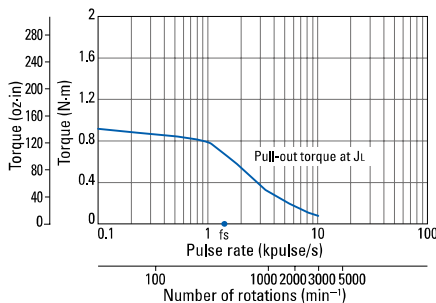
Model number		Holding torque at 2-phase energization [N·m (oz·in) min.]	Rated current A/phase	Wiring resistance Ω/phase	Winding inductance mH/phase	Rotor inertia [ $\times 10^{-4}$ kg·m <sup>2</sup> (oz·in <sup>2</sup> )]	Mass (Weight) [kg (lbs)]	Motor length (L) mm (in)
Single shaft	Dual shaft							
103H7821-5760	103H7821-5730	0.88 (124.6)	2	1.27	3.3	0.275 (1.50)	0.6 (1.32)	43.5 (1.71)
103H7821-1760	103H7821-1730	0.88 (124.6)	4	0.35	0.8	0.275 (1.50)	0.6 (1.32)	43.5 (1.71)
103H7822-5760	103H7822-5730	1.37 (194.0)	2	1.55	5.5	0.4 (2.19)	0.77 (1.70)	52.5 (2.07)
103H7822-1760	103H7822-1730	1.37 (194.0)	4	0.43	1.38	0.4 (2.19)	0.77 (1.70)	52.5 (2.07)
103H7823-5760	103H7823-5730	2.7 (382.3)	2	2.4	9.5	0.84 (4.59)	1.34 (2.95)	84.5 (3.33)
103H7823-1760	103H7823-1730	2.7 (382.3)	4	0.65	2.4	0.84 (4.59)	1.34 (2.95)	84.5 (3.33)

## Characteristics diagram

**103H7821-5740**  
**103H7821-5710**

**103H7821-5760**  
**103H7821-5730**

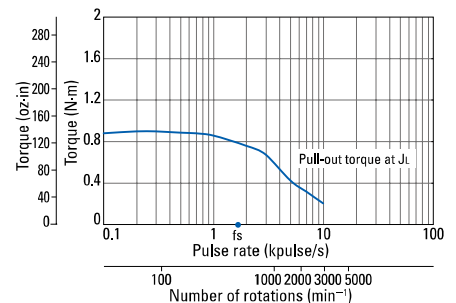
Constant current circuit  
Source voltage: 24 VDC  
Operating current:  
2 A/phase, 2-phase  
energization (full-step)  
 $J_L = [2.6 \times 10^{-4} \text{kg} \cdot \text{m}^2 (14.22 \text{oz} \cdot \text{in}^2)]$  use the rubber  
coupling]  
 $f_s$ : Maximum self-start  
frequency when not  
loaded



**103H7821-1740**  
**103H7821-1710**

**103H7821-1760**  
**103H7821-1730**

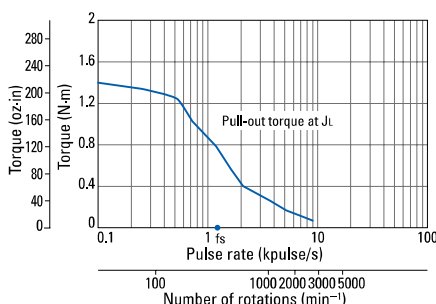
Constant current circuit  
Source voltage: 24 VDC  
Operating current:  
4 A/phase, 2-phase  
energization (full-step)  
 $J_L = [2.6 \times 10^{-4} \text{kg} \cdot \text{m}^2 (14.22 \text{oz} \cdot \text{in}^2)]$  use the rubber  
coupling]  
 $f_s$ : Maximum self-start  
frequency when not  
loaded



**103H7822-5740**  
**103H7822-5710**

**103H7822-5760**  
**103H7822-5730**

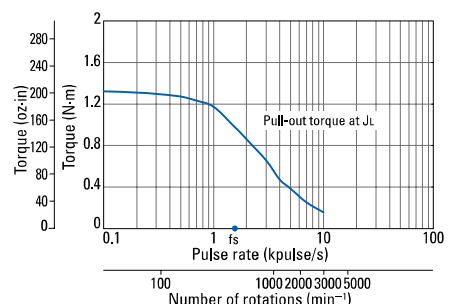
Constant current circuit  
Source voltage: 24 VDC  
Operating current:  
2 A/phase, 2-phase  
energization (full-step)  
 $J_L = [2.6 \times 10^{-4} \text{kg} \cdot \text{m}^2 (14.22 \text{oz} \cdot \text{in}^2)]$  use the rubber  
coupling]  
 $f_s$ : Maximum self-start  
frequency when not  
loaded



**103H7822-1740**  
**103H7822-1710**

**103H7822-1760**  
**103H7822-1730**

Constant current circuit  
Source voltage: 24 VDC  
Operating current:  
4 A/phase, 2-phase  
energization (full-step)  
 $J_L = [2.6 \times 10^{-4} \text{kg} \cdot \text{m}^2 (14.22 \text{oz} \cdot \text{in}^2)]$  use the rubber  
coupling]  
 $f_s$ : Maximum self-start  
frequency when not  
loaded

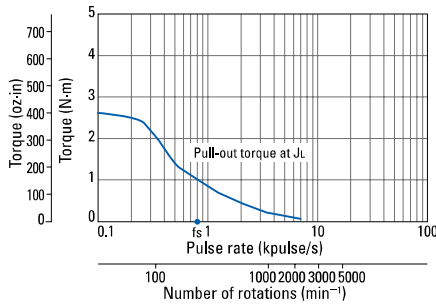


## Characteristics diagram

103H7823-5740  
103H7823-5710

103H7823-5760  
103H7823-5730

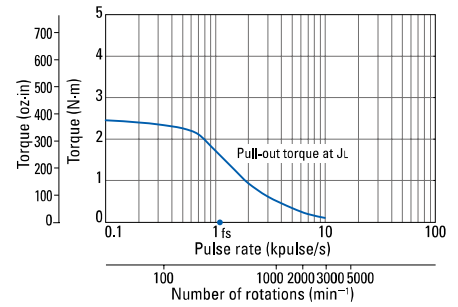
Constant current circuit  
Source voltage: 24 VDC  
Operating current:  
2 A/phase, 2-phase  
energization (full-step)  
 $J_L = 7.4 \times 10^{-4} \text{ kg}\cdot\text{m}^2$  (40.46  
oz-in<sup>2</sup>) use the rubber  
coupling  
fs: Maximum self-start  
frequency when not  
loaded



103H7823-1740  
103H7823-1710

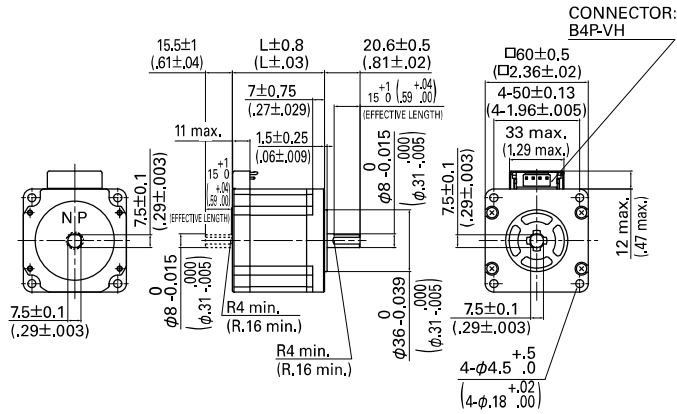
103H7823-1760  
103H7823-1730

Constant current circuit  
Source voltage: 24 VDC  
Operating current:  
4 A/phase, 2-phase  
energization (full-step)  
 $J_L = 7.4 \times 10^{-4} \text{ kg}\cdot\text{m}^2$  (40.46  
oz-in<sup>2</sup>) use the rubber  
coupling  
fs: Maximum self-start  
frequency when not  
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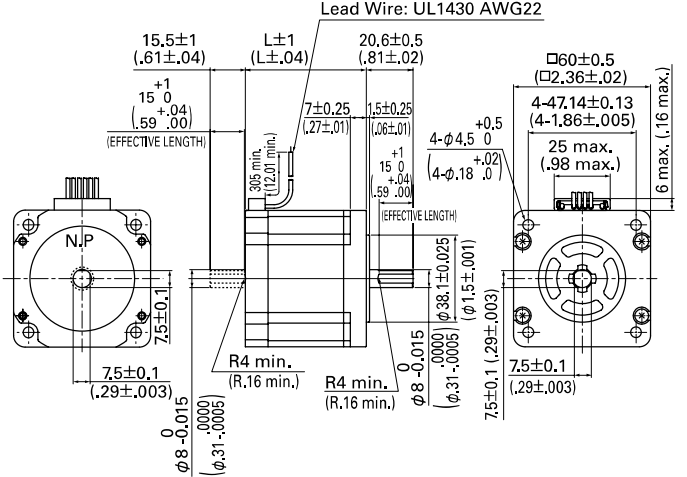


## Dimensions [Unit: mm (inch)]

### Connector type

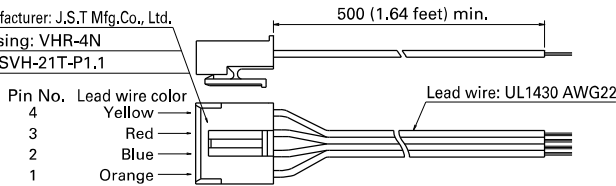


### Lead wire type



### Motor cable Bipolar Model number: 4837961-1

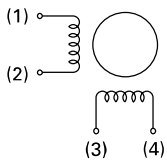
Manufacturer: J.S.T Mfg.Co., Ltd.  
Housing: VHR-4N  
Pin: SVH-21T-P1.1



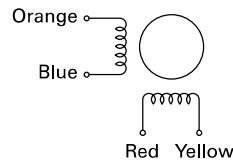
## Internal wiring

### Connector type

( ) connector pin number,  
terminal block number



### Lead wire type



## Compatible drivers

- For motor model number 103H782 □ -17 □ 0 (4 A/phase)  
Driver is not included.  
If you require assistance finding a driver, contact us for details.
- For motors not listed above (2 A/phase)  
Model number: BS1D200P10 (DC input)  
Operating current select switch setting: 0