

# 56 mm sq. (2.20 inch sq.)

1.8° /step RoHS

Bipolar winding, Lead wire type  
Unipolar winding, Lead wire type ▶ p. 68

### Customizing

Hollow Shaft modification  
Decelerator Encoder

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

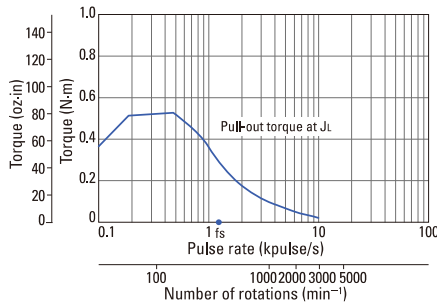
### Bipolar winding, Lead wire type

| Model number  |               | Holding torque at 2-phase energization<br>[N·m (oz·in) min.] | Rated current<br>A/phase | Wiring resistance<br>Ω /phase | Winding inductance<br>mH/phase | Rotor inertia<br>[×10 <sup>-4</sup> kg·m <sup>2</sup> (oz·in <sup>2</sup> )] | Mass (Weight)<br>[kg (lbs)] | Motor length (L)<br>mm (in) | Shaft diameter (D)<br>mm (in) | Dcut thickness (T)<br>mm (in) |
|---------------|---------------|--|--------------------------|-------------------------------|--------------------------------|--|-----------------------------|-----------------------------|-------------------------------|-------------------------------|
| Single shaft  | Dual shaft    |  |                          |                               |                                |  |                             |                             |                               |                               |
| 103H7121-5640 | 103H7121-5610 | 0.55 (77.9)  | 1                        | 4.3                           | 14.5                           | 0.1 (0.55)   | 0.47 (1.04)                 | 41.8 (1.65)                 | φ 6.35 (φ 0.25)               | 5.8 (0.23)                    |
| 103H7121-5740 | 103H7121-5710 | 0.55 (77.9)  | 2                        | 1.1                           | 3.7                            | 0.1 (0.55)   | 0.47 (1.04)                 | 41.8 (1.65)                 | φ 6.35 (φ 0.25)               | 5.8 (0.23)                    |
| 103H7121-5840 | 103H7121-5810 | 0.55 (77.9)  | 3                        | 0.54                          | 1.74                           | 0.1 (0.55)   | 0.47 (1.04)                 | 41.8 (1.65)                 | φ 6.35 (φ 0.25)               | 5.8 (0.23)                    |
| 103H7123-5640 | 103H7123-5610 | 1.0 (141.6)  | 1                        | 5.7                           | 29.4                           | 0.21 (1.15)  | 0.65 (1.43)                 | 53.8 (2.12)                 | φ 6.35 (φ 0.25)               | 5.8 (0.23)                    |
| 103H7123-5740 | 103H7123-5710 | 1.0 (141.6)  | 2                        | 1.5                           | 7.5                            | 0.21 (1.15)  | 0.65 (1.43)                 | 53.8 (2.12)                 | φ 6.35 (φ 0.25)               | 5.8 (0.23)                    |
| 103H7123-5840 | 103H7123-5810 | 1.0 (141.6)  | 3                        | 0.7                           | 3.5                            | 0.21 (1.15)  | 0.65 (1.43)                 | 53.8 (2.12)                 | φ 6.35 (φ 0.25)               | 5.8 (0.23)                    |
| 103H7126-5640 | 103H7126-5610 | 1.6 (226.6)  | 1                        | 7.7                           | 34.6                           | 0.36 (1.97)  | 0.98 (2.16)                 | 75.8 (2.98)                 | φ 6.35 (φ 0.25)               | 5.8 (0.23)                    |
| 103H7126-5740 | 103H7126-5710 | 1.6 (226.6)  | 2                        | 2                             | 9.1                            | 0.36 (1.97)  | 0.98 (2.16)                 | 75.8 (2.98)                 | φ 6.35 (φ 0.25)               | 5.8 (0.23)                    |
| 103H7126-5840 | 103H7126-5810 | 1.6 (226.6)  | 3                        | 0.94                          | 4                              | 0.36 (1.97)  | 0.98 (2.16)                 | 75.8 (2.98)                 | φ 6.35 (φ 0.25)               | 5.8 (0.23)                    |
| 103H7128-5640 | 103H7128-5610 | 2.0 (283.2)  | 1                        | 8.9                           | 40.1                           | 0.49 (2.68)  | 1.3 (2.87)                  | 94.8 (3.73)                 | φ 8 (φ 0.31)                  | 7.5 (0.30)                    |
| 103H7128-5740 | 103H7128-5710 | 2.0 (283.2)  | 2                        | 2.3                           | 10.4                           | 0.49 (2.68)  | 1.3 (2.87)                  | 94.8 (3.73)                 | φ 8 (φ 0.31)                  | 7.5 (0.30)                    |
| 103H7128-5840 | 103H7128-5810 | 2.0 (283.2)  | 3                        | 1.03                          | 4.3                            | 0.49 (2.68)  | 1.3 (2.87)                  | 94.8 (3.73)                 | φ 8 (φ 0.31)                  | 7.5 (0.30)                    |

## Characteristics diagram

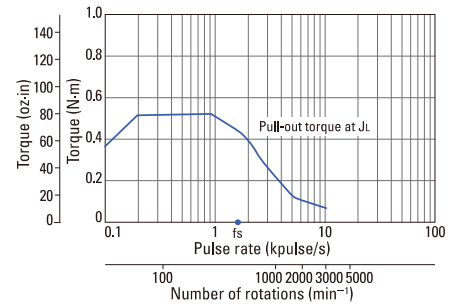
### 103H7121-5640 103H7121-5610

Constant current circuit  
Source voltage: 24 VDC  
Operating current:  
1 A/phase, 2-phase energization (full-step)  
J<sub>L</sub>=[0.94 × 10<sup>-4</sup>kg·m<sup>2</sup> (5.14 oz·in<sup>2</sup>) use the rubber coupling]  
fs: Maximum self-start frequency when not loaded



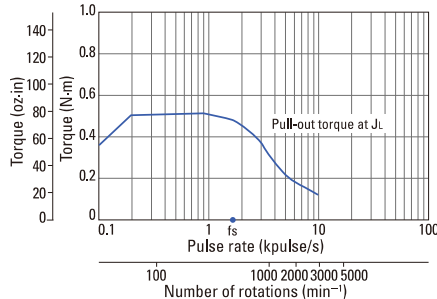
### 103H7121-5740 103H7121-5710

Constant current circuit  
Source voltage: 24 VDC  
Operating current:  
2 A/phase, 2-phase energization (full-step)  
J<sub>L</sub>=[0.94 × 10<sup>-4</sup>kg·m<sup>2</sup> (5.14 oz·in<sup>2</sup>) use the rubber coupling]  
fs: Maximum self-start frequency when not loaded



### 103H7121-5840 103H7121-5810

Constant current circuit  
Source voltage: 24 VDC  
Operating current:  
3 A/phase, 2-phase energization (full-step)  
J<sub>L</sub>=[0.94 × 10<sup>-4</sup>kg·m<sup>2</sup> (5.14 oz·in<sup>2</sup>) use the rubber coupling]  
fs: Maximum self-start frequency when not loaded



### 103H7123-5640 103H7123-5610

Constant current circuit  
Source voltage: 24 VDC  
Operating current:  
1 A/phase, 2-phase energization (full-step)  
J<sub>L</sub>=[2.6 × 10<sup>-4</sup>kg·m<sup>2</sup> (14.22 oz·in<sup>2</sup>) use the rubber coupling]  
fs: Maximum self-start frequency when not loaded

