Oriental Motor U.S.A. Corp.

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Item # PK266-02A, Stepping Motor

\$79.00



Stepping Motor

The standard PK series stepping motor offers balanced performance enhanced by high torque, low vibration and low noise.



SPECIFICATIONS FEATURES

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| Product Line | VEXTA ® |
|------------------------------|---|
| Frame Size | 2.22 in 56.4 mm |
| Speed-Torque Characteristics | Graph |
| Holding Torque | Bipolar (Series) 166 oz-in Unipolar 127 oz-in Bipolar (Series) 1.17 N·m Unipolar 0.9 N·m |
| Shaft/Gear Type | Round Shaft (No Gearhead) |
| Gear Type | No Gearhead |
| Shaft | Single |
| Туре | Standard |
| Encoder | None |
| Basic Step Angle | 1.8° |
| Step Angle | 1.8 ° |

| Motor Connection Type | Flying Leads |
|-----------------------------|--|
| Connection Type | Bipolar (Series) Unipolar |
| Current per Phase (A/phase) | 1.4 [Bipolar (Series)] 2 [Unipolar] |
| Lead Wires | 6 |
| Voltage (VDC) | 5 [Bipolar (Series)] 3.6 [Unipolar] |
| Resistance (Ω/phase) | 3.6 [Bipolar (Series)] 1.8 [Unipolar] |
| Inductance (mH/phase) | 10 [Bipolar (Series)] 2.5 [Unipolar] |
| Rotor Inertia | 1.64 oz-in² 300×10 ⁻⁷ kg·m² |
| RoHS Compliant | Yes |
| Insulation Resistance | 100 M Ω or more when 500 VDC megger is applied between the windings and the case under normal ambient temperature and humidity. |
| Dielectric Strength | Sufficient to withstand 1.0 kVAC at 50 Hz or 60 Hz applied between the windings and the case for 1 minute under normal ambient temperature and humidity. |
| Temperature Rise | Temperature rise of the windings is 144°F (80°C) or less measured by the change resistance method. (at rated current, at standstill, 2 phases energized) |
| Insulation Class | Class B [266°F (130°C)] |
| Ambient Temperature Range | 14 ~ 122°F (-10 ~ 50°C) (non-freezing) |
| Ambient Humidity | 85% or less (non-condensing) |
| Shaft Runout | 0.05 mm (0.002 in.) T.I.R. |
| Concentricity | 0.075 mm (0.003 in.) T.I.R. |
| Perpendicularity | 0.075 mm (0.003 in.) T.I.R. |
| Radial Play | 0.025 mm (0.001 in.) maximum of 5 N (1.12 lb.) |
| Axial Play | 0.075 mm (0.003 in.) maximum of 10 N (2.2 lb.) |
| Step Accuracy | ±3 arc minutes (±0.05°) |

FEATURES

Standard Type Stepping Motors

The standard PK 2-phase stepping motor offers balanced performance enhanced by high torque, low vibration and low noise. The optimal motor size and winding specifications can be selected from a wide range of motor variations.



Encoder Option Available

The PK Series stepping motor with encoder offers high torque and precise feedback capability.

- Encoder Feedback Type: Incremental
 Two feedback resolutions: 200 and 400 pulses/rev.
- · 2-channel or 3-channel
- · Provides closed loop system capability