Item # PK264-03B, Stepper Motor

Stepper Motor

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

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Product Line</th>
<th>VEXTA ®</th>
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<tbody>
<tr>
<td>Motor Type</td>
<td>2-Phase</td>
</tr>
<tr>
<td>Motor Frame Size</td>
<td>2.22 in. sq.</td>
</tr>
<tr>
<td>Shaft/Gear Type</td>
<td>Round Shaft (No Gearhead)</td>
</tr>
<tr>
<td>Holding Torque</td>
<td>Bipolar (Series) 68 oz-in</td>
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<tr>
<td></td>
<td>Unipolar 55 oz-in</td>
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<tr>
<td>Type</td>
<td>Standard</td>
</tr>
<tr>
<td>Connection Type</td>
<td>Bipolar (Series) Unipolar</td>
</tr>
<tr>
<td>Lead Wires</td>
<td>6</td>
</tr>
<tr>
<td>Specification</td>
<td>Specification Value</td>
</tr>
<tr>
<td>-------------------------------</td>
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</tbody>
</table>
| Current per Phase (A/phase)   | 2.1 [Bipolar (Series)]
|                               | 3 [Unipolar]        |
| Encoder                       | None                |
| Shaft                         | Double              |
| Voltage (VDC)                 | 2.6 [Bipolar (Series)]
|                               | 1.9 [Unipolar]      |
| Resistance (Ω/phase)          | 1.26 [Bipolar (Series)]
|                               | 0.63 [Unipolar]     |
| Inductance (mH/phase)         | 2.4 [Bipolar (Series)]
|                               | 0.6 [Unipolar]      |
| Step Angle                    | 1.8 °               |
| Rotor Inertia (oz-in^2)       | 0.66 oz-in^2        |
| 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 176°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°) |