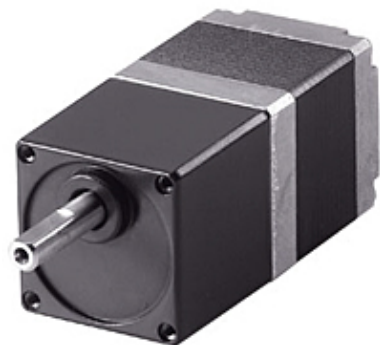


# Orientalmotor

ORIENTAL MOTOR U.S.A. Corp.  
570 Alaska Avenue  
Torrance, CA 90503  
1-800-GO-VEXTA (468-3982)

## Item # PK223PA-SG7.2, Stepper Motor



This product is scheduled to be discontinued, please contact your local sales office for more information.

Web Price

**Request Quote**

### Specifications

|                                    |  |
|------------------------------------|--|
| <b>Product Line</b>                | VEXTA ®                                    |
| <b>Motor Type</b>                  | 2-Phase                                    |
| <b>Motor Frame Size</b>            | 1.1 in. sq.                                |
| <b>Shaft/Gear Type</b>             | Spur Gear                                  |
| <b>Gear Ratio (X:1)</b>            | 7.2 :1                                     |
| <b>Holding Torque</b>              | 42 oz-in                                   |
| <b>Type</b>                        | Geared                                     |
| <b>Connection Type</b>             | Bipolar (Series)<br>Unipolar               |
| <b>Lead Wires</b>                  | 6  |
| <b>Current per Phase (A/phase)</b> | 0.67 [Bipolar (Series)]<br>0.95 [Unipolar] |
| <b>Encoder</b>                     | None                                       |
| <b>Shaft</b>                       | Single                                     |

|   |  |
|---|--|
| <b>Voltage (VDC)</b>                          | 3.8 [Bipolar (Series)]<br>2.66 [Unipolar]  |
| <b>Resistance (<math>\Omega</math>/phase)</b> | 5.6 [Bipolar (Series)]<br>2.8 [Unipolar]   |
| <b>Inductance (mH/phase)</b>                  | 4 [Bipolar (Series)]<br>1 [Unipolar]   |
| <b>Step Angle</b>                             | 0.25 °   |
| <b>Rotor Inertia (oz-in<sup>2</sup>)</b>      | 0.049 oz-in <sup>2</sup>   |
| <b>RoHS Compliant</b>                         | Yes  |
| <b>Insulation Resistance</b>                  | 100 M $\Omega$ or more when 500 VDC megger is applied between the windings and the case under normal ambient temperature and humidity.                   |
| <b>Dielectric Strength</b>                    | Sufficient to withstand 0.5 kVAC at 50 Hz or 60 Hz applied between the windings and the case for 1 minute under normal ambient temperature and humidity. |
| <b>Temperature Rise</b>                       | 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) |
| <b>Insulation Class</b>                       | Class B [266°F (130°C)]  |
| <b>Ambient Temperature Range</b>              | 14 ~ 122°F (-10 ~ 50°C) (non-freezing)   |
| <b>Ambient Humidity</b>                       | 85% or less (non-condensing)   |
| <b>Shaft Runout</b>                           | 0.05 mm (0.002 in.) T.I.R.   |
| <b>Concentricity</b>                          | 0.075 mm (0.003 in.) T.I.R.  |
| <b>Perpendicularity</b>                       | 0.075 mm (0.003 in.) T.I.R.  |
| <b>Radial Play</b>                            | 0.025 mm (0.001 in.) maximum of 5 N (1.12 lb.)   |
| <b>Axial Play</b>                             | 0.075 mm (0.003 in.) maximum of 10 N (2.2 lb.)   |