

Oriental motor

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

Item # PK233PDAR26, Stepper Motor with 400 P/R, 3-Channel encoder



This item has been discontinued. Please contact our technical support team for a replacement.

Web Price —

Request Quote

Specifications —

| | |
|------------------------------------|---|
| Return Policy | This product cannot be cancelled or returned once the order has been processed. |
| Product Line | VEXTA® |
| Motor Type | 2-Phase |
| Motor Frame Size | 1.38 in. sq. |
| Shaft/Gear Type | Round Shaft (No Gearhead) |
| Holding Torque | 28 oz-in |
| Type | Standard |
| Connection Type | Bipolar |
| Lead Wires | 4 |
| Current per Phase (A/phase) | 1.5 |
| Encoder | Equipped |



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| Shaft | Single |
| Voltage (VDC) | 2.43 [Bipolar] |
| Resistance (Ω/phase) | 1.62 [Bipolar] |
| Inductance (mH/phase) | 1.5 [Bipolar] |
| Step Angle | 1.8 ° |
| Rotor Inertia (oz-in²) | 0.131 oz-in ² |
| RoHS Compliant | Yes |
| California Proposition 65 | <p>⚠ CA WARNING Cancer risk from exposure to Nickel. See www.P65Warnings.ca.gov Risk of reproductive harm from exposure to Di-n-hexyl phthalate (DnHP). See www.P65Warnings.ca.gov Risk of cancer and reproductive harm from exposure to Di(2-ethylhexyl phthalate (DEHP). See www.P65Warnings.ca.gov See "?" or copy/paste www.P65Warnings.ca.gov in your browser.</p> |
| 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 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. |
| Temperature Rise | Temperature rise of the windings is 144°F (80°C) or less measured by the change resistance method when equipped with an aluminum heat sink of 4.53 x 4.53 in., 0.20 in., thick. (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°) |

| | |
|---------------------------------|-------------------|
| Encoder Type | Incremental |
| Encoder Resolution (P/R) | 400 |
| Output | 3-Channel A, B, I |
| Input Current (mA) | 27 (Typ.) |
| Input Voltage (V) | 5 ±10% |
| Output Type | TTL |
| Output Voltage (Low) | 0.5 VDC, 8 mA |
| Output Voltage (High) | 2.0 VDC, -8 mA |
| Response Frequency (kHz) | 300 (Max.) |

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