

Orientalmotor

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

Item # PK233PDAR25, Stepper Motor with 200 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)
Type	Standard
Connection Type	Bipolar
Lead Wires	4
Current per Phase (A/phase)	1.5
Encoder	Equipped
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)	200
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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