

Oriental motor

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

Item # RBK266A-R25, Microstep Stepper Motor System (20 ~ 75 VDC)



The RBK Series combines a high current, bipolar stepper motor with a DC input microstepping driver.

- Microstep driver electronically divides basic step angle of the motor (1.8°/step) by up to 128, 16 different resolutions level are available.
- Includes Oriental Motor's proprietary Smooth Drive Function to easily achieve low vibration operation.
- Standard type motor
- Encoder model
- Encoder lead wire/connector assembly of 0.6 m (2 ft.) is included with the package.

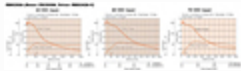


Web Price —

Request Quote

Specifications | Encoder Specifications

Specifications

Return Policy	This product cannot be cancelled or returned once the order has been processed.
Motor Type	2-Phase Microstep
Frame Size	2.22 in
Motor Length	2.13 in.
Speed-Torque Characteristics	 <p>Speed - Torque Characteristics</p>
Holding Torque	166 oz-in
Type	Standard
Shaft/Gear Type	Round Shaft (No Gearhead)
Encoder	Equipped



Shaft	Single
Power Supply	20 ~ 75 VDC
Current	4.9 A
Basic Step Angle	1.8°
Rotor Inertia	1.64 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>
Components	RBD242A-V [Driver] PK266DAR25 [Motor]
Insulation Resistance	[Motor] 100 MΩ or more when 500 VDC megger is applied between the motor windings and the case under normal ambient temperature and humidity.
Dielectric Strength	[Motor] Sufficient to withstand 1.0 kVAC, at 50 or 60 Hz applied between the motor coils and casing for 1 min., under normal temperature and humidity.
Insulation Class	[Motor] Class B [266°F (130°C)]
Ambient Temperature Range	[Motor] 14 ~ 122°F (-10 ~ 50°C) (non-freezing) [Driver] 32 ~ 104°F (0 ~ 40°C) (non-freezing)
Ambient Humidity	85% or less (Non-condensing)
Operating Atmosphere	Not exposed to corrosive gases, dust, water or oil.
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 9.84 x 9.84 in., 0.39 in., thick. (at rated current, at standstill, 2 phases energized)
Shaft Runout	0.002 in (0.05 mm) T.I.R. at top of output shaft
Concentricity	0.003 in. (0.075 mm) T.I.R.
Perpendicularity	0.003 in. (0.075 mm) T.I.R.
Stop Position Accuracy	±5 arc minutes (±0.084°)

Radial Play	0.001 inch (0.025 mm) max. of 1.12 lb. (5 N)
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Axial Play	0.003 in (0.075 mm) max. of 2.2 lb. (10 N)
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Radial Load	0 in. from Shaft End = 12.1 lb 0.2 in. from Shaft End = 15 lb 0.39 in. from Shaft End = 20 lb 0.59 in. from Shaft End = 29 lb
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Axial Load	4.5 lb
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Encoder Specifications

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.)

