

V0100-214-B-000

NEMA 23 Servo Motor, 100W



Product Features

- Brushless DC servo motor
- Standard NEMA frame size
- Bearing-mount encoder
- High resolution, incremental encoder (2048 lines, 8192 counts)



Description

Brushless DC servo motor with high resolution encoder feedback.

Specifications

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|-------------------------------|---------------------------------|
| Part Number | V0100-214-B-000 |
| Frame Size | NEMA 23 |
| Continuous Torque | 1.68 in-lb |
| Peak Torque | 5.0 in-lb |
| Rated Power | 100 watts |
| Rated Voltage | 48 volts |
| Rated Speed | 5000 rpm |
| Peak Speed | 8000 rpm |
| Rated Current | 6.3 A rms |
| Peak Current | 17.7 A rms |
| Torque Constant | 0.266 in-lb/A |
| Voltage Constant | 3.5 V/krpm |
| Armature Resistance | 0.45 ohms |
| Armature Inductance | 1.6 mH |
| Motor Length | 2.05 inch |
| Rotor Inertia | 1.32E-03 oz-in-sec ² |
| Weight | 1.3 lbs |
| Integral Holding Brake | No |
| Storage Temperature | -10 to 85 °C |
| Operating Temperature | 0 to 40 °C |
| Insulation Class | Class B (130 °C) |
| Maximum Radial Load | 13 lbs |
| Maximum Thrust Load | 6.6 lbs |
| Shaft Run Out | NA |
| Radial Play | NA |
| End Play | 0.004 inch max w/ 6.6 lb load |
| Perpendicularity | NA |
| Concentricity | NA |