

## 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

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