Applied Motion Products, Inc.
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Product Datasheet
www.Applied-Motion.com

# M0100-101-3-000

*40mm Servo Motor, 100W*

*1pc. - $589.00*
*50pc. - $441.75*

## Product **Features**

- *High torque density*
- *Low rotor inertia*
- *Compact size*
- *High-resolution, incremental encoders (2000 lines, 8000 counts)*

RoHS

## Description

High performance brushless AC servo motor. Standard configuration includes high-resolution, incremental encoder feedback.

## Specifications

| | |
|---|---|
| **Part Number** | M0100-101-3-000 |
| **Frame Size** | 40 mm |
| **Continuous Torque** | 2.8 in-lb |
| **Peak Torque** | 8.4 in-lb |
| **Rated Power** | 100 watts |
| **Rated Voltage** | 100 volts |
| **Rated Speed** | 3000 rpm |
| **Peak Speed** | 5000 rpm |
| **Rated Current** | 1.8 A rms |
| **Peak Current** | 5.2 A rms |
| **Torque Constant** | 2.8 in-lb/A |
| **Voltage Constant** | 19.3 V/krpm |
| **Armature Resistance** | 6.7 ohms |
| **Armature Inductance** | 11 mH |
| **Motor Length** | 3.94 inch |
| **Rotor Inertia** | 4.25E-04 oz-in-sec$^2$ |
| **Weight** | 1.1 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** | 17 lbs |
| **Maximum Thrust Load** | 8.8 lbs |
| **Shaft Run Out** | 0.0008 inch T.I.R. max |
| **Radial Play** | NA |
| **End Play** | 0.008 inch max |
| **Perpendicularity** | 0.003 inches |
| **Concentricity** | 0.002 inches |

## Downloads

| | |
|---|---|
| **Datasheet** | Servo-Products-Datasheet-925-0008.pdf |
| **2D Drawing** | M0100-101-3-000_RevC.pdf |
| **3D Drawing** | M0100-103-3-000.igs |
| **Speed-Torque Curves** | SVAC3_speed-torque.pdf |
| **Agency Approvals** | There are no related agency approval documents at this time. |
| **Application Notes** | There are currently no Application Notes available for this product. |

## Pricing

| | **M0100-101-3-000**<br>Part No. M0100-101-3-000 |
|---|---|
| **1pc.** | $589.00 |
| **25pc.** | $506.54 |
| **50pc.** | $441.75 |
| **100pc.** | Contact us for 100+ piece pricing. |