

## M0400-105-4-000

60mm Servo Motor, 400W



### ***Product Features***

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



### **Description**







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

This motor is no longer available for new applications. See the [J Series Servo Motors](#) for new applications. For existing users of M Series Servo Motors, the following document explains the transition process from M Series to J Series: [Transition-M-to-J-Series-Servo-Motors.pdf](#)

## Specifications

<b>Part Number:</b>	M0400-105-4-000
<b>Frame Size:</b>	60 mm
<b>Continuous Torque:</b>	11 in-lb
<b>Peak Torque:</b>	34 in-lb
<b>Rated Power:</b>	400 watts
<b>Rated Voltage:</b>	60 volts
<b>Rated Speed:</b>	3000 rpm
<b>Peak Speed:</b>	5000 rpm
<b>Rated Current:</b>	8.2 A rms
<b>Peak Current:</b>	23.8 A rms
<b>Torque Constant:</b>	1.41 in-lb/A
<b>Voltage Constant:</b>	16.8 V/krpm
<b>Armature Resistance:</b>	0.51 ohms
<b>Armature Inductance:</b>	1.83 mH
<b>Motor Length:</b>	4.90 inch
<b>Rotor Inertia:</b>	4.81E-03 oz-in-sec <sup>2</sup>
<b>Weight:</b>	2.9 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>	44 lbs
<b>Maximum Thrust Load:</b>	15.4 lbs
<b>Shaft Run Out:</b>	0.0008 inch T.I.R. max
<b>End Play:</b>	0.008 inch max
<b>Perpendicularity:</b>	0.003 inches
<b>Concentricity:</b>	0.002 inches

## Downloads

<b>Datasheet:</b>	<a href="http://s3.amazonaws.com/applied-motion-pdf/M0400-105-4-000.pdf">http://s3.amazonaws.com/applied-motion-pdf/M0400-105-4-000.pdf</a>
<b>Family Datasheet:</b>	 <a href="#">Servo-Products-Datasheet-925-0008.pdf</a>
<b>2D Drawing:</b>	 <a href="#">M0400-105-4-000 Rev A.pdf</a>  <a href="#">400-60-60-23 REV B.pdf</a>
<b>3D Drawing:</b>	 <a href="#">M0400-105-4-000.igs</a>
<b>Speed-Torque Curves:</b>	 <a href="#">SV7_speed-torque.pdf</a>
<b>Application Notes:</b>	 <a href="#">Transition-M-to-J-Series-Servo-Motors.pdf</a>