

## Product Details

### Brush DC Motor 9237S011-R1-SP

Note: Product photo is for illustrative purposes. Please refer to Engineering Drawing for specifics.



Motor Series	Series 9000 LO-COG Brush Commutated DC Motors
Price (USD)	\$330
Frame Size (Mounting Face) (in)	1.58
Motor Frame Size (in)	1.58
Gear Frame Size (in)	n/a
Overall Body Length (in)	4.016
Supply Voltage (V)	24
Continuous Output Torque (oz-in)	12
Output Speed @ Cont. Torque (RPM)	4370
Current @ Cont. Torque (A)	2.4
Continuous Output Power (W)	37
No Load Current (A)	0.18
No Load Output Speed (RPM)	5230
Peak Current (A)	13
Peak Output Torque (oz-in)	77
Motor Constant (oz-in/ $\sqrt{W}$ )	4.41
Motor Torque Constant (oz-in/A)	6
Motor Voltage Constant (V/krpm)	4.44
Terminal Resistance (Ohms)	1.85
Inductance (mH)	2
Coulomb Friction Torque (oz-in)	0.8
Viscous Damping Factor (oz-in/krpm)	0.055
Electrical Time Constant (ms)	1.1
Mechanical Time Constant (ms)	8.7
Thermal Time Constant (min)	14
Thermal Resistance ( $^{\circ}C/Watt$ )	11
Maximum Winding Temperature ( $^{\circ}C$ )	155
Rotor Inertia (oz-in-s <sup>2</sup> )	0.0012
Output Bearing	Ball
Gear Series	n/a
Gear Ratio (xx.x:1)	n/a
Gear Type	n/a
Gear Efficiency	n/a
Gear Maximum Torque (oz-in)	n/a
Encoder Series	E30B
Encoder Resolution (CPR)	500
Encoder Output Channels	3
Weight (Mass) (oz)	18
Voltage Note	n/a
Torque Warning	n/a