

## Product Details

### Brush DC Motor 14207S008

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



Motor Series	Series 14000 LO-COG Brush Commutated DC Motors
Price (USD)	
Frame Size (Mounting Face) (in)	2.125
Motor Frame Size (in)	2.125
Gear Frame Size (in)	n/a
Overall Body Length (in)	6.293
Supply Voltage (V)	24
Continuous Output Torque (oz-in)	50
Output Speed @ Cont. Torque (RPM)	2810
Current @ Cont. Torque (A)	6
Continuous Output Power (W)	100
No Load Current (A)	0.3
No Load Output Speed (RPM)	3160
Peak Current (A)	41
Peak Output Torque (oz-in)	400
Motor Constant (oz-in/ $\sqrt{W}$ )	13
Motor Torque Constant (oz-in/A)	10
Motor Voltage Constant (V/krpm)	7.39
Terminal Resistance (Ohms)	0.59
Inductance (mH)	0.87
Coulomb Friction Torque (oz-in)	2.2
Viscous Damping Factor (oz-in/krpm)	0.25
Electrical Time Constant (ms)	1.5
Mechanical Time Constant (ms)	5.6
Thermal Time Constant (min)	32
Thermal Resistance ( $^{\circ}C/Watt$ )	5
Maximum Winding Temperature ( $^{\circ}C$ )	155
Rotor Inertia (oz-in-s <sup>2</sup> )	0.0067
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)	57
Voltage Note	n/a
Torque Warning	n/a