

## Product Details

### DC Gearmotor

GM9234S032-R1-SP

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



Motor Series	Series GM9000 LO-COG Brush Commutated DC Gearmotors
Price (USD)	\$211
Frame Size (Mounting Face) (in)	2
Motor Frame Size (in)	1.58
Gear Frame Size (in)	2.000
Overall Body Length (in)	3.676
Supply Voltage (V)	24
Continuous Output Torque (oz-in)	500
Output Speed @ Cont. Torque (RPM)	16.1
Current @ Cont. Torque (A)	1.3
Continuous Output Power (W)	6
No Load Current (A)	0.2
No Load Output Speed (RPM)	21.6
Peak Current (A)	5.2
Peak Output Torque (oz-in)	5200
Motor Constant (oz-in/ $\sqrt{W}$ )	3.02
Motor Torque Constant (oz-in/A)	6.5
Motor Voltage Constant (V/krpm)	4.81
Terminal Resistance (Ohms)	4.62
Inductance (mH)	4
Coulomb Friction Torque (oz-in)	0.6
Viscous Damping Factor (oz-in/krpm)	0.039
Electrical Time Constant (ms)	0.86
Mechanical Time Constant (ms)	9.1
Thermal Time Constant (min)	12
Thermal Resistance ( $^{\circ}C/Watt$ )	17
Maximum Winding Temperature ( $^{\circ}C$ )	155
Rotor Inertia (oz-in-s <sup>2</sup> )	0.00059
Output Bearing	Ball
Gear Series	G51A-WF
Gear Ratio (xx.x:1)	218
Gear Type	wide face spur
Gear Efficiency	0.73
Gear Maximum Torque (oz-in)	500
Encoder Series	n/a
Encoder Resolution (CPR)	n/a
Encoder Output Channels	n/a
Weight (Mass) (oz)	17
Voltage Note	Note: rated voltage of PittmanExpress item is different than catalog reference voltage of base motor.
Torque Warning	Warning: potential peak torque at rated voltage exceeds gearbox torque capacity. Care must be taken to limit the peak torque so as not to exceed the gearbox rating