

## Product Details

### DC Gearmotor GM9213-3

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)	
Frame Size (Mounting Face) (in)	2
Motor Frame Size (in)	1.58
Gear Frame Size (in)	2.000
Overall Body Length (in)	3.476
Supply Voltage (V)	12
Continuous Output Torque (oz-in)	140
Output Speed @ Cont. Torque (RPM)	7.44
Current @ Cont. Torque (A)	0.81
Continuous Output Power (W)	0.77
No Load Current (A)	0.15
No Load Output Speed (RPM)	38.8
Peak Current (A)	1.4
Peak Output Torque (oz-in)	310
Motor Constant (oz-in/ $\sqrt{W}$ )	1.94
Motor Torque Constant (oz-in/A)	5.6
Motor Voltage Constant (V/krpm)	4.14
Terminal Resistance (Ohms)	8.33
Inductance (mH)	6.2
Coulomb Friction Torque (oz-in)	0.5
Viscous Damping Factor (oz-in/krpm)	0.011
Electrical Time Constant (ms)	0.74
Mechanical Time Constant (ms)	15
Thermal Time Constant (min)	11
Thermal Resistance ( $^{\circ}C/Watt$ )	19
Maximum Winding Temperature ( $^{\circ}C$ )	155
Rotor Inertia (oz-in-s <sup>2</sup> )	0.00039
Output Bearing	Sleeve
Gear Series	G51A
Gear Ratio (xx.x:1)	65.5
Gear Type	standard spur
Gear Efficiency	0.66
Gear Maximum Torque (oz-in)	175
Encoder Series	n/a
Encoder Resolution (CPR)	n/a
Encoder Output Channels	n/a
Weight (Mass) (oz)	16
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