

Product Details

DC Gearmotor GM8212-31

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



Motor Series	Series GM8000 LO-COG Brush Commutated DC Gearmotors
Price (USD)	
Frame Size (Mounting Face) (in)	1.37
Motor Frame Size (in)	1.175
Gear Frame Size (in)	1.370
Overall Body Length (in)	2.977
Supply Voltage (V)	19.1
Continuous Output Torque (oz-in)	50
Output Speed @ Cont. Torque (RPM)	65
Current @ Cont. Torque (A)	0.68
Continuous Output Power (W)	2.4
No Load Current (A)	0.21
No Load Output Speed (RPM)	120
Peak Current (A)	1.8
Peak Output Torque (oz-in)	190
Motor Constant (oz-in/ \sqrt{W})	0.929
Motor Torque Constant (oz-in/A)	3.06
Motor Voltage Constant (V/krpm)	2.26
Terminal Resistance (Ohms)	10.8
Inductance (mH)	5.4
Coulomb Friction Torque (oz-in)	0.35
Viscous Damping Factor (oz-in/krpm)	0.0087
Electrical Time Constant (ms)	0.5
Mechanical Time Constant (ms)	21
Thermal Time Constant (min)	7.8
Thermal Resistance ($^{\circ}C/Watt$)	24
Maximum Winding Temperature ($^{\circ}C$)	155
Rotor Inertia (oz-in-s ²)	0.00013
Output Bearing	Sleeve
Gear Series	G35A
Gear Ratio (xx.x:1)	60.5
Gear Type	standard spur
Gear Efficiency	0.66
Gear Maximum Torque (oz-in)	100
Encoder Series	n/a
Encoder Resolution (CPR)	n/a
Encoder Output Channels	n/a
Weight (Mass) (oz)	7.1
Voltage Note	n/a
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