

Product Details

DC Gearmotor GM9234S017-R1

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



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|---|---|
| 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) | 3.676 |
| Supply Voltage (V) | 24 |
| Continuous Output Torque (oz-in) | 63 |
| Output Speed @ Cont. Torque (RPM) | 306 |
| Current @ Cont. Torque (A) | 1.3 |
| Continuous Output Power (W) | 14 |
| No Load Current (A) | 0.2 |
| No Load Output Speed (RPM) | 410 |
| Peak Current (A) | 5.2 |
| Peak Output Torque (oz-in) | 340 |
| 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 ²) | 0.00059 |
| Output Bearing | Ball |
| Gear Series | G51A-HT |
| Gear Ratio (xx.x:1) | 11.5 |
| Gear Type | high torque spur |
| Gear Efficiency | 0.9 |
| Gear Maximum Torque (oz-in) | 300 |
| 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 |