

Product Details

DC Gearmotor GM9236S026-R1

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



Brush Commutated DC Gearmotors		
Frame Size (Mounting Face) (in) 2	Motor Series	Series GM9000 LO-COG Brush Commutated DC Gearmotors
Motor Frame Size (in) 1.58	Price (USD)	
Qear Frame Size (in)	Frame Size (Mounting Face) (in)	
Overall Body Length (in) 4.326 Supply Voltage (V) 24 Continuous Output Torque (oz-in) 490 Output Speed @ Cont. Torque (RPM) 59.6 Current @ Cont. Torque (A) 1.9 Continuous Output Power (W) 22 No Load Current (A) 0.24 No Load Output Speed (RPM) 72.9 Peak Current (A) 9.6 Peak Output Torque (oz-in) 3200 Motor Constant (oz-in/W) 4.11 Motor Torque Constant (oz-in/A) 6.49 Motor Voltage Constant (V/krpm) 4.8 Terminal Resistance (Ohms) 2.49 Inductance (mH) 2.6 Coulomb Friction Torque (oz-in) 0.8 Viscous Damping Factor (oz-in/krpm) 0.053 Electrical Time Constant (ms) 1.1 Mechanical Time Constant (ms) 1.1 Thermal Resistance ("C/Watt) 14 Maximum Winding Temperature ("C") 155 Rotor Inertia (oz-in-s2) 0.001 Output Bearing Ball Gear Ratio (xx.x:1) 65.5 Gea	Motor Frame Size (in)	1.58
Supply Voltage (V) 24 Continuous Output Torque (oz-in) 490 Output Speed @ Cont. Torque (RPM) 59.6 Current @ Cont. Torque (A) 1.9 Continuous Output Power (W) 22 No Load Current (A) 0.24 No Load Current (A) 72.9 Peak Current (A) 9.6 Peak Output Torque (oz-in) 3200 Motor Constant (oz-in/-W) 4.11 Motor Torque Constant (oz-in/A) 6.49 Motor Voltage Constant (V/krpm) 4.8 Terminal Resistance (Ohms) 2.49 Inductance (mH) 2.6 Coulomb Friction Torque (oz-in) 0.8 Viscous Damping Factor (oz-in/krpm) 1.1 Mechanical Time Constant (ms) 1.1 Mechanical Time Constant (ms) 1.1 Thermal Time Constant (min) 14 Thermal Resistance (°C/Watt) 14 Maximum Winding Temperature (°C) 155 Rotor Inertia (oz-in-s2) 0.001 Output Bearing Ball Gear Series G51A-WF Gear Ratio (xx.x:1) 65.5 Gear Type wide face spur Gear Efficiency 0.8 Gear Maximum Torque (oz-in) 500 Encoder Resolution (CPR) n/a Encoder Resolution (CPR) n/a Encoder Note Warning potential peal torque at rated voltage exceeds gearbox torque Voltage Note Varning capacity. Care must be	Gear Frame Size (in)	2.000
Continuous Output Torque (oz-in) Output Speed @ Cont. Torque (RPM) 59.6 Current @ Cont. Torque (A) 1.9 Continuous Output Power (W) 22 No Load Current (A) 0.24 No Load Output Speed (RPM) 72.9 Peak Current (A) 9.6 Peak Output Torque (oz-in) 3200 Motor Constant (oz-in/\w) Motor Torque Constant (oz-in/A) 6.49 Motor Voltage Constant (V/krpm) 4.8 Terminal Resistance (Ohms) 1.1 Coulomb Friction Torque (oz-in) Mechanical Time Constant (ms) 1.1 Mechanical Time Constant (ms) 1.1 Mechanical Time Constant (min) 14 Thermal Resistance (°C/Watt) 14 Maximum Winding Temperature (°C) 155 Rotor Inertia (oz-in-s2) 0.001 Output Bearing Gear Series Gear Ratio (xx.x:1) Gear Series Gear Maximum Torque (oz-in) Encoder Series Inductore (PR) Encoder Resolution (CPR) Encoder Resolution (CPR) Inductore (Parming Control peak torque at rated voltage exceeds gearbox torque Torque Warning Correum Warning Correct C	Overall Body Length (in)	4.326
Output Speed @ Cont. Torque (RPM) 59.6 Current @ Cont. Torque (A) 1.9 Continuous Output Power (W) 22 No Load Current (A) 0.24 No Load Output Speed (RPM) 72.9 Peak Current (A) 9.6 Peak Output Torque (oz-in) 3200 Motor Constant (oz-in/\(\text{W}\)) 4.11 Motor Torque Constant (oz-in/A) 6.49 Motor Voltage Constant (V/krpm) 4.8 Terminal Resistance (Ohms) 2.49 Inductance (mH) 2.6 Coulomb Friction Torque (oz-in) 0.8 Viscous Damping Factor (oz-in/krpm) 0.053 Electrical Time Constant (ms) 1.1 Mechanical Time Constant (ms) 8.4 Thermal Time Constant (ms) 1.4 Thermal Resistance (°C/Watt) 14 Maximum Winding Temperature (°C) 155 Rotor Inertia (oz-in-s2) 0.001 Output Bearing Ball Gear Series G51A-WF Gear Ratio (xx.x:1) 65.5 Gear Type wide face spur Gear Efficiency 0.8 Gear Maximum Torque (oz-in) 500 Encoder Series n/a Encoder Resolution (CPR) n/a Encoder Output Channels N/a Weight (Mass) (oz) 21 Voltage Note	Supply Voltage (V)	24
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Continuous Output Power (W) No Load Current (A) No Load Output Speed (RPM) Peak Current (A) Peak Current (A) Peak Output Torque (oz-in) Motor Constant (oz-in/√W) Motor Torque Constant (oz-in/A) Motor Voltage Constant (V/krpm) Inductance (mH) Coulomb Friction Torque (oz-in) Viscous Damping Factor (oz-in/krpm) Electrical Time Constant (ms) Thermal Time Constant (min) Thermal Resistance (°C/Watt) Maximum Winding Temperature (°C) Rotor Inertia (oz-in-s2) Output Bearing Gear Series Gear Ratio (xx.x:1) Gear Type Gear Maximum Torque (oz-in) Encoder Series Encoder Resolution (CPR) Encoder Note Narious Maring: potential peak torque at rated voltage exceeds gearbox torque Capacity. Care must be Varning: potential peak torque at rated voltage exceeds gearbox torque Capacity. Care must be	Output Speed @ Cont. Torque (RPM)	
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Peak Current (A) Peak Output Torque (oz-in) Motor Constant (oz-in/√W) Motor Torque Constant (oz-in/A) Motor Voltage Constant (V/krpm) Terminal Resistance (Ohms) Inductance (mH) Coulomb Friction Torque (oz-in) Viscous Damping Factor (oz-in/krpm) Electrical Time Constant (ms) Thermal Time Constant (ms) Thermal Time Constant (min) Thermal Resistance (°C/Watt) Maximum Winding Temperature (°C) Rotor Inertia (oz-in-s2) Output Bearing Gear Series Gear Ratio (xx.x:1) Gear Type Gear Efficiency Gear Maximum Torque (oz-in) Encoder Series Inductance (Text) Solo Encoder Resolution (CPR) Encoder Output Channels Warning: potential peak torque at rated voltage exceeds gearbox torque Torque Warning Torque Warning Torque Warning 12.49 4.81 4.8 4.9 4.8 4.9 4.8 4.8 4.9 4.9	No Load Current (A)	*-= -
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Motor Constant (oz-in/\w) Motor Torque Constant (oz-in/A) Motor Voltage Constant (V/krpm) Terminal Resistance (Ohms) Inductance (mH) Coulomb Friction Torque (oz-in) Viscous Damping Factor (oz-in/krpm) Electrical Time Constant (ms) Thermal Time Constant (ms) Thermal Resistance (°C/Watt) Maximum Winding Temperature (°C) Rotor Inertia (oz-in-s2) Output Bearing Gear Series Gear Ratio (xx.x:1) Gear Type Gear Efficiency Gear Maximum Torque (oz-in) Encoder Series Encoder Resolution (CPR) Encoder Output Channels Weight (Mass) (oz) Torque Warning Mass 4. 1.1 4.8 4.8 2.49 1.1 4.8 1.1 4.8 1.1 4.9 1.1 4.4 4.4 4.4 4.4 4.4	Peak Current (A)	9.6
Motor Torque Constant (oz-in/A) Motor Voltage Constant (V/krpm) Terminal Resistance (Ohms) Inductance (mH) Coulomb Friction Torque (oz-in) Viscous Damping Factor (oz-in/krpm) Electrical Time Constant (ms) Thermal Time Constant (ms) Thermal Resistance (°C/Watt) Maximum Winding Temperature (°C) Rotor Inertia (oz-in-s2) Output Bearing Gear Series G51A-WF Gear Ratio (xx.x:1) Gear Type Gear Efficiency Gear Maximum Torque (oz-in) Encoder Resolution (CPR) Encoder Output Channels Weight (Mass) (oz) Torque Warning Cale Maximum Voltage Note Maximum Constant (v/krpm) 4.8 4.8 6.49 4.8 4.8 4.8 4.8 6.49 4.8 4.9 4.8 4.8 6.49	Peak Output Torque (oz-in)	3200
Motor Voltage Constant (V/krpm) Terminal Resistance (Ohms) Inductance (mH) Coulomb Friction Torque (oz-in) Viscous Damping Factor (oz-in/krpm) Electrical Time Constant (ms) Inductance (ms) Electrical Time Constant (ms) Thermal Time Constant (min) Thermal Resistance (°C/Watt) Maximum Winding Temperature (°C) Rotor Inertia (oz-in-s2) Output Bearing Gear Series Gear Ratio (xx.x:1) Gear Type Gear Ratio (xx.x:1) Gear Hype Gear Maximum Torque (oz-in) Encoder Series Inductance (ms) 2.49 0.8 4.8 2.49 Inductance (ms) 8.4 1.1 4.1 4.1 4.1 4.1 4.1 4.1	Motor Constant (oz-in/√W)	4.11
Terminal Resistance (Ohms) Inductance (mH) Coulomb Friction Torque (oz-in) Viscous Damping Factor (oz-in/krpm) Electrical Time Constant (ms) Thermal Time Constant (ms) Thermal Resistance (°C/Watt) Maximum Winding Temperature (°C) Rotor Inertia (oz-in-s2) Output Bearing Gear Series Gear Ratio (xx.x:1) Gear Type Wide face spur Gear Efficiency Gear Maximum Torque (oz-in) Encoder Series Inda Encoder Resolution (CPR) Encoder Output Channels Weight (Mass) (oz) Voltage Note Torque Warning Coulomb Friction Torque (oz-in) D.0053 E.4 4 4 4 4 4 4 4 4 4 4 4 4	Motor Torque Constant (oz-in/A)	6.49
Inductance (mH) Coulomb Friction Torque (oz-in) Viscous Damping Factor (oz-in/krpm) Electrical Time Constant (ms) Thermal Time Constant (ms) Thermal Resistance (°C/Watt) Maximum Winding Temperature (°C) Rotor Inertia (oz-in-s2) Output Bearing Gear Series Gear Ratio (xx.x:1) Gear Type Wide face spur Gear Efficiency Gear Maximum Torque (oz-in) Encoder Series Encoder Resolution (CPR) Encoder Output Channels Weight (Mass) (oz) Torque Warning O.88 Varning: potential peak torque at rated voltage exceeds gearbox torque Capacity. Care must be	Motor Voltage Constant (V/krpm)	4.8
Coulomb Friction Torque (oz-in) Viscous Damping Factor (oz-in/krpm) Electrical Time Constant (ms) Mechanical Time Constant (ms) Thermal Time Constant (min) Thermal Resistance (°C/Watt) Maximum Winding Temperature (°C) Rotor Inertia (oz-in-s2) Output Bearing Gear Series Gear Ratio (xx.x:1) Gear Type Gear Efficiency Gear Maximum Torque (oz-in) Encoder Series Inda Encoder Resolution (CPR) Encoder Output Channels Weight (Mass) (oz) Voltage Note O.8 Varning: potential peak torque at rated voltage exceeds gearbox torque capacity. Care must be	Terminal Resistance (Ohms)	2.49
Viscous Damping Factor (oz-in/krpm) Electrical Time Constant (ms) Mechanical Time Constant (ms) Thermal Time Constant (min) Thermal Resistance (°C/Watt) Maximum Winding Temperature (°C) Rotor Inertia (oz-in-s2) Output Bearing Gear Series Gear Ratio (xx.x:1) Gear Type Gear Efficiency Gear Maximum Torque (oz-in) Encoder Series Inda Encoder Resolution (CPR) Encoder Output Channels Weight (Mass) (oz) Voltage Note Torque Warning 0.001 14 44 44 44 44 45 46 46 46 46 4	Inductance (mH)	2.6
Electrical Time Constant (ms) Mechanical Time Constant (ms) Thermal Time Constant (min) Thermal Resistance (°C/Watt) Maximum Winding Temperature (°C) Rotor Inertia (oz-in-s2) Output Bearing Gear Series Gear Ratio (xx.x:1) Gear Type Gear Efficiency Gear Maximum Torque (oz-in) Encoder Series n/a Encoder Resolution (CPR) Encoder Output Channels Weight (Mass) (oz) Voltage Note Torque Warning 1.1 1.1 1.1 8.4 1.1 1.1 1.1 8.4 1.1 1.1	Coulomb Friction Torque (oz-in)	0.8
Mechanical Time Constant (ms) Thermal Time Constant (min) Thermal Resistance (°C/Watt) Maximum Winding Temperature (°C) Rotor Inertia (oz-in-s2) Output Bearing Gear Series Gear Ratio (xx.x:1) Gear Type Gear Efficiency Gear Maximum Torque (oz-in) Encoder Series n/a Encoder Resolution (CPR) Encoder Output Channels Weight (Mass) (oz) Voltage Note Naming Marning Naming potential peak torque at rated voltage exceeds gearbox torque capacity. Care must be	Viscous Damping Factor (oz-in/krpm)	0.053
Thermal Time Constant (min) Thermal Resistance (°C/Watt) Maximum Winding Temperature (°C) Rotor Inertia (oz-in-s2) Output Bearing Ball Gear Series Gear Ratio (xx.x:1) Gear Type Wide face spur Gear Efficiency Gear Maximum Torque (oz-in) Encoder Series n/a Encoder Resolution (CPR) Encoder Output Channels Weight (Mass) (oz) Voltage Note Torque Warning 14 14 14 14 15 15 80 80 80 80 80 80 80 15 80 80 80 80 80 80 80 80 80 8	Electrical Time Constant (ms)	1.1
Thermal Resistance (°C/Watt) Maximum Winding Temperature (°C) Rotor Inertia (oz-in-s2) Output Bearing Ball Gear Series G51A-WF Gear Ratio (xx.x:1) Gear Type Wide face spur Gear Efficiency Gear Maximum Torque (oz-in) Encoder Series n/a Encoder Resolution (CPR) Encoder Output Channels Weight (Mass) (oz) Voltage Note Torque Warning Torque Warning	Mechanical Time Constant (ms)	8.4
Maximum Winding Temperature (°C) Rotor Inertia (oz-in-s2) Output Bearing Ball Gear Series G51A-WF Gear Ratio (xx.x:1) Gear Type Wide face spur Gear Efficiency Gear Maximum Torque (oz-in) Encoder Series n/a Encoder Resolution (CPR) Encoder Output Channels Weight (Mass) (oz) Voltage Note Torque Warning 155 0.00 0.01 0.01 0.02 0.8 0.8 0.8 0.8 0.8 0.8 0.	Thermal Time Constant (min)	• •
Rotor Inertia (oz-in-s2) Output Bearing Ball Gear Series G51A-WF Gear Ratio (xx.x:1) G5.5 Gear Type wide face spur Gear Efficiency Gear Maximum Torque (oz-in) Encoder Series n/a Encoder Resolution (CPR) Encoder Output Channels Weight (Mass) (oz) Voltage Note Torque Warning 0.001 0.00	Thermal Resistance (°C/Watt)	14
Output Bearing Gear Series G51A-WF Gear Ratio (xx.x:1) G5.5 Gear Type wide face spur Gear Efficiency 0.8 Gear Maximum Torque (oz-in) Encoder Series n/a Encoder Resolution (CPR) Encoder Output Channels Weight (Mass) (oz) Voltage Note Torque Warning Ball G51A-WF 65.5 05.5 06 07.8 08 08 09 09 00 00 00 00 00 00 00 00 00 00 00	Maximum Winding Temperature (°C)	155
Gear Series Gear Ratio (xx.x:1) Gear Ratio (xx.x:1) Gear Type Wide face spur Gear Efficiency Gear Maximum Torque (oz-in) Encoder Series In/a Encoder Resolution (CPR) Encoder Output Channels Weight (Mass) (oz) Voltage Note Torque Warning G51A-WF 65.5 05.5 0.8 0.8 0.8 0.9 0.9 0.9 0.9 0.9	Rotor Inertia (oz-in-s2)	0.001
Gear Ratio (xx.x:1) 65.5 Gear Type wide face spur Gear Efficiency 0.8 Gear Maximum Torque (oz-in) 500 Encoder Series n/a Encoder Resolution (CPR) n/a Encoder Output Channels n/a Weight (Mass) (oz) 21 Voltage Note n/a Warning: potential peak torque at rated voltage exceeds gearbox torque. Torque Warning capacity. Care must be	Output Bearing	
Gear Type wide face spur Gear Efficiency 0.8 Gear Maximum Torque (oz-in) 500 Encoder Series n/a Encoder Resolution (CPR) n/a Encoder Output Channels n/a Weight (Mass) (oz) 21 Voltage Note n/a Warning: potential peak torque at rated voltage exceeds gearbox torque capacity. Care must be	5500 55005	G51A-WF
Gear Efficiency 0.8 Gear Maximum Torque (oz-in) 500 Encoder Series n/a Encoder Resolution (CPR) n/a Encoder Output Channels n/a Weight (Mass) (oz) 21 Voltage Note n/a Warning: potential peak torque at rated voltage exceeds gearbox torque capacity. Care must be	Gear Ratio (xx.x:1)	
Gear Maximum Torque (oz-in) Encoder Series In/a Encoder Resolution (CPR) Encoder Output Channels Weight (Mass) (oz) Voltage Note Torque Warning Torque Warning 500 In/a Warning: potential peak torque at rated voltage exceeds gearbox torque capacity. Care must be	Gear Type	wide face spur
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Encoder Output Channels Weight (Mass) (oz) Voltage Note Description: Voltage Note N/a Warning: potential peak torque at rated voltage exceeds gearbox torque capacity. Care must be	Encoder Series	n/a
Weight (Mass) (oz) Voltage Note n/a Warning: potential peak torque at rated voltage exceeds gearbox torque capacity. Care must be	` ,	
Voltage Note n/a Warning: potential peak torque at rated voltage exceeds gearbox torque capacity. Care must be	Encoder Output Channels	
Warning: potential peak torque at rated voltage exceeds gearbox torque capacity. Care must be		
torque at rated voltage exceeds gearbox torque capacity. Care must be	Voltage Note	n/a
torque so as not to exceed the gearbox rating	Torque Warning	exceeds gearbox torque capacity. Care must be taken to limit the peak torque so as not to exceed the gearbox