

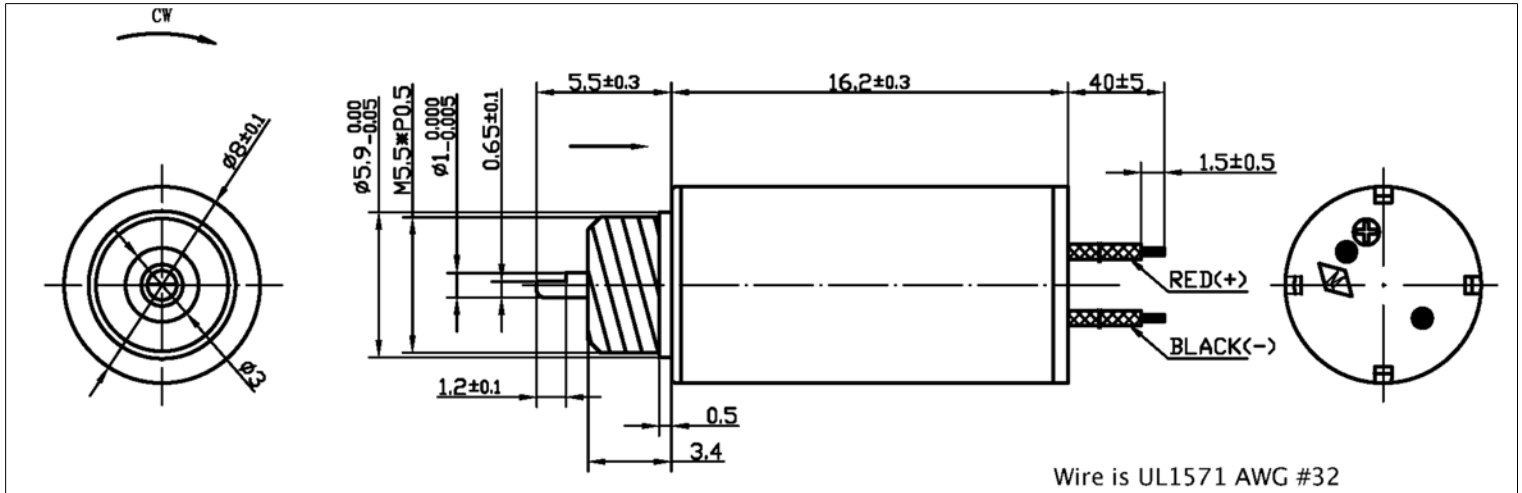
Coreless DC Motor - 8 mm Ø x 16

C08P09SG010

0.4 Watts Peak Power



Global Motion Products



Wire is UL1571 AWG #32

Not to Scale - Dimensions in millimeters (mm)

Nominal Voltage	9.0 Volts	9.0 Volts	9.0 Volts
No-Load Speed	15,500 rpm	15,500 rpm	15,500 rpm
Stall Torque	0.9 mNm	9.0 gcm	0.13 oz-in
No-Load Current	0.007 Amps	0.007 Amps	0.007 Amps
Peak Output Power	0.4 Watts	0.4 Watts	0.4 Watts
Torque Constant	5.32 mNm/A	54.24 gcm/A	0.75 oz-in/A
Terminal Resistance	52.33 Ohms	52.33 Ohms	52.33 Ohms
Back-EMF Constant	0.56 V/krpm	0.56 V/krpm	0.56 V/krpm
Inductance			
Rotor Inertia	0.040 kg-m ² x10 ⁻⁷	0.040 gm cm ²	0.006 x10 ⁻⁴ oz in sec ²
Mechanical Time Constant	7.4 msec	7.4 msec	7.4 msec
Slope of Speed/Torque Curve	16,943.5 rpm/mNm	1,722.2 rpm/gcm	119,647.5 rpm/oz-in
Speed Constant	1,795 rpm/Volt	1,795 rpm/Volt	1,795 rpm/Volt
Motor Constant	0.74 mNm/√Watt	7.50 gcm/√Watt	0.10 oz-in/√Watt

GMP offers Planetary & Spur Gearboxes/Gearmotors from 6 mm diameter to 90 mm. Motor Technologies include: Iron Core, Coreless, and Slotless Brushless DC Motors, Two Ø Stepper Motors, Integral 3 Channel Optical & Magnetic encoders, some with Low Power/Voltage versions. 3 - 20 Volts - 5mA Reference.

Rated Torque is 0.625 mNm.

Part Number: How to Order C08P09SG010 Characteristics - Specifications at 22 °C

Radial Load Rating	Radial Play	Max Temperature	60 °C
Radial Load Distance	Thrust Play	Min Temperature	-10 °C
Axial Load	Magnet Type NdFeB	Max Winding Temp	100 °C
Press Fit Force - Max	Bearing Type Sleeve Bearings	Mass	3.6 grams

Gearbox Options 8 mm Metal Planetary Gearboxes. Plastic Planetary Gearboxes
 Encoder Options Not at this time. see other series for encoder options, starting at 10 mm diameter.
 Options - Other Lubricants. Windings. Shaft Length. Pinion Mounting. Wire Leads.

Global Motion Products
 Distributed by:
 Precision Motion Distributors: (925) 803-9565
 Technical Support: (760) 451-2723
 http://www.gmpwebsite.com Email: info@gmpwebsite.com

Commutation Type: Manufactured under a Certified ISO
 9001 Quality System and ISO 14001
 Precious Metal Environmental Management System.

RoHS Compliant

Nov. 2012

Specifications Subject to change without notice