

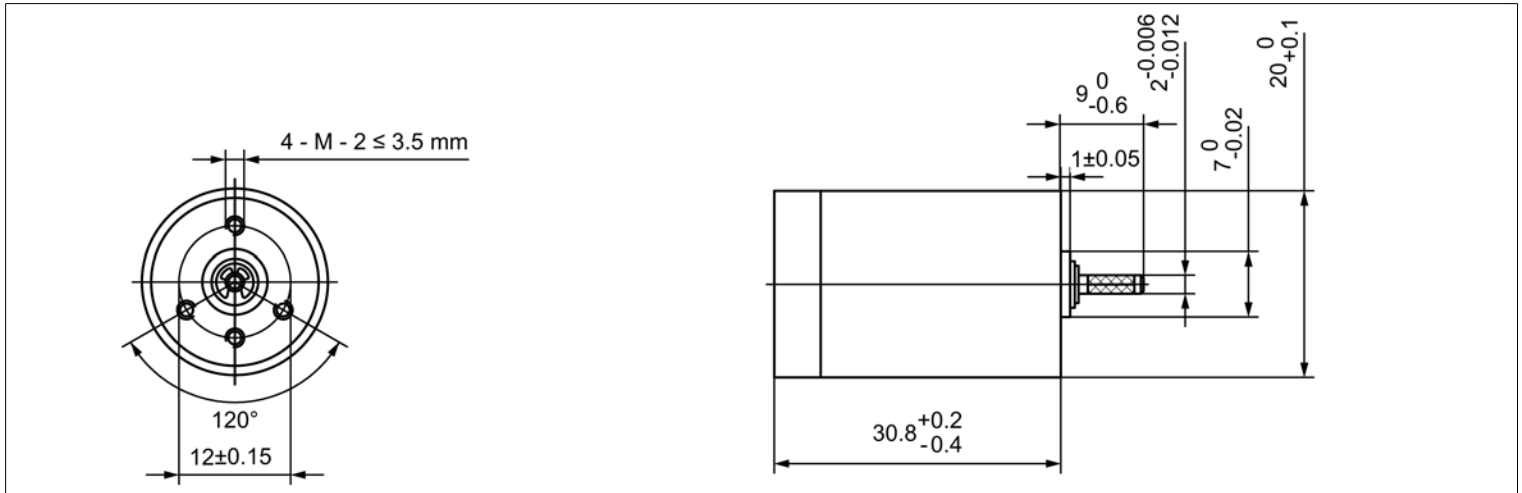
# Coreless DC Motor - 20 mm Ø

C20P24SD000

2.2 Watts Peak Power



Global Motion Products



Not to Scale - Dimensions in millimeters (mm)

Nominal Voltage	24.0 Volts	24.0 Volts	24.0 Volts
No-Load Speed	7,770 rpm	7,770 rpm	7,770 rpm
Stall Torque	10.7 mNm	110.0 gcm	1.52 oz-in
No-Load Current	0.006 Amps	0.006 Amps	0.006 Amps
Peak Output Power	2.2 Watts	2.2 Watts	2.2 Watts
Torque Constant	29.05 mNm/A	296.22 gcm/A	4.11 oz-in/A
Terminal Resistance	64.90 Ohms	64.90 Ohms	64.90 Ohms
Back-EMF Constant	3.04 V/krpm	3.04 V/krpm	3.04 V/krpm
Inductance			
Rotor Inertia			
Mechanical Time Constant			
Slope of Speed/Torque Curve	723.3 rpm/mNm	70.6 rpm/gcm	5,107.6 rpm/oz-in
Speed Constant	329 rpm/Volt	329 rpm/Volt	329 rpm/Volt
Motor Constant	3.61 mNm/√Watt	36.77 gcm/√Watt	0.51 oz-in/√Watt
Rated Power @ 5,690 rpm	1.70 Watts	1.70 Watts	1.70 Watts
Rated Torque @ 5,690 rpm	2.7 mNm	27.7 gcm	0.38 oz-in
Rated Current @ 5,690 rpm	0.099 Amps	0.099 Amps	0.099 Amps
Part Number: How to Order	C20P24SD000	Characteristics - Specifications at 22 °C	

Radial Load Rating	2.7 N	Radial Play	≤ 0.020 mm	Max Temperature	65 °C
Radial Load Distance	4 mm	Thrust Play	≤ 0.150 mm	Min Temperature	-20 °C
Axial Load	1.00 N	Magnet Type	NdFeB	Max Winding Temp	85 °C
Press Fit Force - Max	80.00 N	Bearing Type	Sleeve Bearings	Mass	39.0 grams
Gearbox Options	P22 Series 22mm Ø Planetary Gearboxes, G20 Series 20 mm Ø Spur Gearboxes.				
Encoder Options	Consult GMP for Coreless motors with encoder options.				
Options - Other	Ball Bearings. Shaft length. Lubricants. Leads. Solder Tabs. Connectors. Longer Motors.				

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

Commutation Type: **Manufactured under a Certified ISO 9001:2008 Quality Management System.**  
 Precious Metal

**RoHS Compliant**

A - June 2013

Specifications Subject to change without notice