

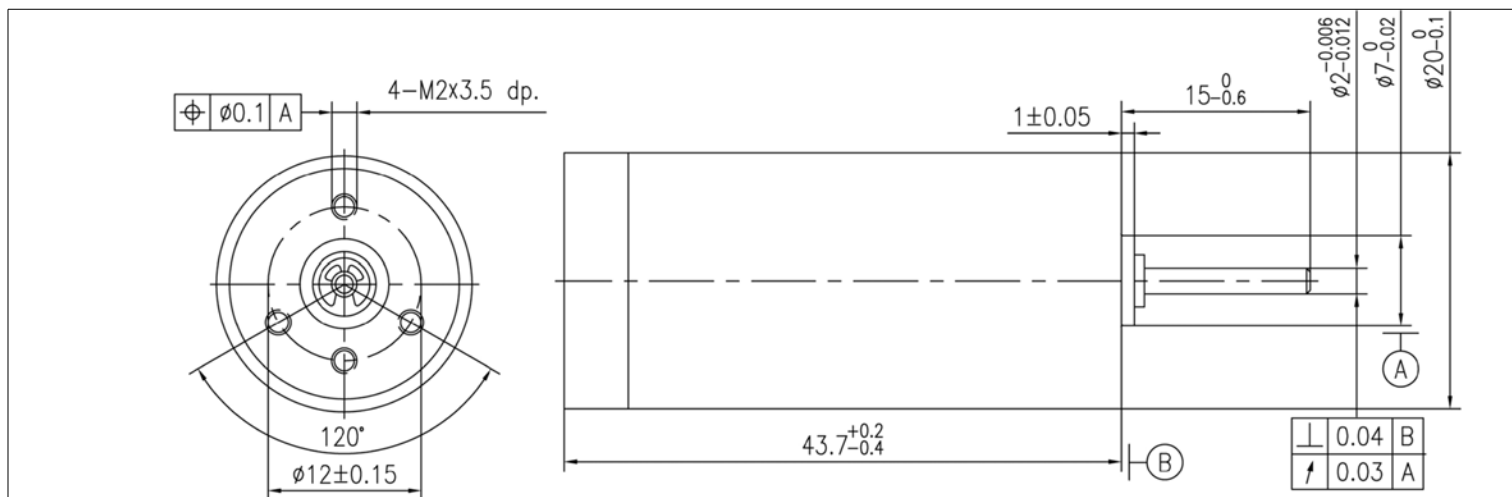
Coreless DC Motor - 20 mm Ø

C20P11SE000

9.1 Watts Peak Power



Global Motion Products



Not to Scale - Dimensions in millimeters (mm)

Nominal Voltage	9.0 Volts	9.0 Volts	9.0 Volts
No-Load Speed	8,030 rpm	8,030 rpm	8,030 rpm
Stall Torque	43.5 mNm	443.4 gcm	6.2 oz-in
No-Load Current	0.028 Amps	0.028 Amps	0.028 Amps
Peak Output Power	9.1 Watts	9.1 Watts	9.1 Watts
Torque Constant	10.63 mNm/A	108.39 gcm/A	1.51 oz-in/A
Terminal Resistance	2.20 Ohms	2.20 Ohms	2.20 Ohms
Back-EMF Constant	1.11 V/krpm	1.11 V/krpm	1.11 V/krpm
Mechanical Time Constant	6.1 msec	6.1 msec	6.1 msec
Rotor Inertia	3.15 kgm ² x10 ⁻⁷	3.15 gm cm ²	0.45 x10 ⁻⁴ oz-in-sec ²
Mechanical Time Constant	6.1 msec	6.1 msec	6.1 msec
Slope of Speed/Torque Curve	184.7 rpm/mNm	18.1 rpm/gcm	1,304.1 rpm/oz-in
Speed Constant	898 rpm/Volt	84 %	84 %
Motor Constant	7.17 mNm/√Watt	73.07 gcm/√Watt	1.01 oz-in/√Watt
Commutation Type	Precious Metal	Precious Metal	Precious Metal
Rated Power @ 7,253 rpm	3.2 Watts	3.2 Watts	3.2 Watts
Rated Torque @ 7,253 rpm	4.2 mNm	42.9 gcm	0.6 oz-in
Rated Current @ 7,253 rpm	0.396 Amps	0.396 Amps	0.396 Amps

Part Number: How to Order C20P11SE000

Ratings are at 25°C Ambient Temperature.

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	61 grams
Gearbox Options	P22 Series Planetary Gearboxes				
Encoder Options	N/A				
Options - Other	Ball Bearings. Shaft length. Lubricants. Leads. Solder Tabs. Connectors.				

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Distributed by:

Precision Motion Distributors: (925) 803-9565

Technical Support: (760) 451-2723

http://www.gmpwebsite.com Email: info@gmpwebsite.com

Commutation Type:

Precious Metal

Manufactured under a
Certified ISO 9001:2008
Quality System

RoHS Compliant

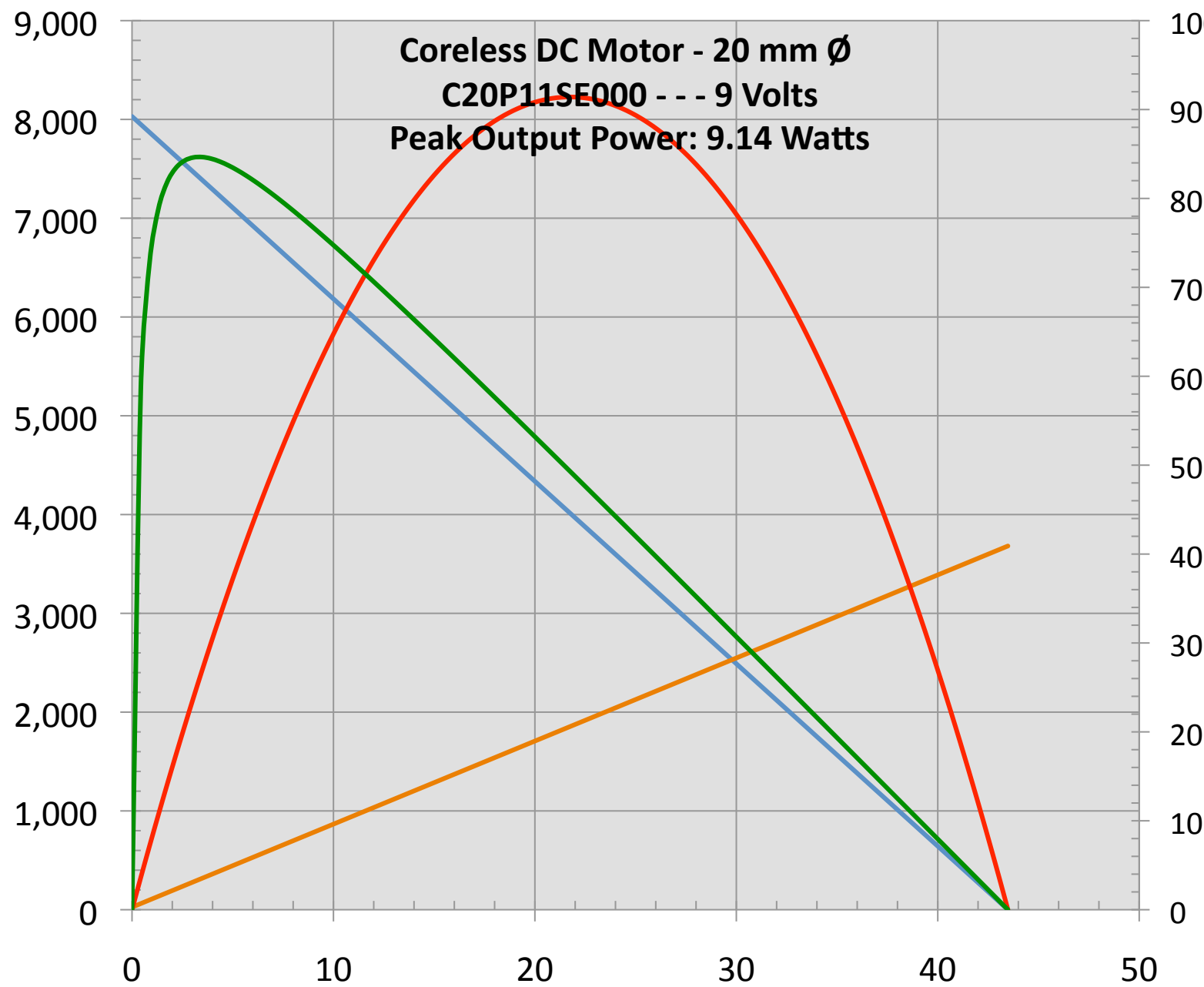
B - August 2011

Specifications Subject to change without notice

Coreless DC Motor - 20 mm Ø
C20P11SE000 - - - 9 Volts
Peak Output Power: 9.14 Watts

100 C20P11SE000
Voltage: 9 Volts
 No Load Speed: 8030 rpm
 No Load Current: 0.0282 Amps
 Terminal Resistance: 2.2 Ohms
 Stall Torque: 43.48 mNm
 Torque Constant: 10.63 mNm/A
 Peak Output Power: 9.14 Watts
 Peak Efficiency: 84.7%
 Stall Current: 4.09 Amps

Speed - rpm



- A - Speed - rpm
- A - Current - Amps / 10
- A - Power Out - Watts / 10
- A - Efficiency - %

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January 18, 2011

CAUTION: Peak Output Power is NOT a RATING. This is merely a calculated value and does not address Thermal Issues.