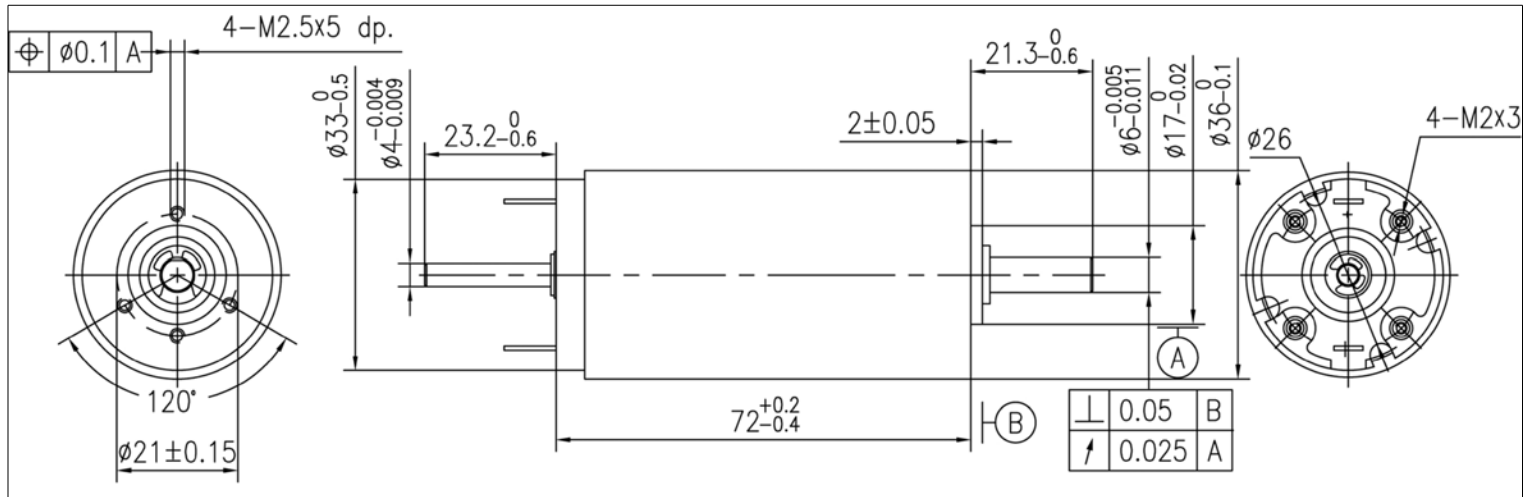


Coreless DC Motor - 36 mm Ø

C36G12BD000 62.8 Watts Peak Power



Global Motion Products



Not to Scale - Dimensions in millimeters (mm)

Nominal Voltage	12.0 Volts	12.0 Volts	12.0 Volts
No-Load Speed	6,010 rpm	6,010 rpm	6,010 rpm
Stall Torque	403.8 mNm	4,118.1 gcm	57.2 oz-in
No-Load Current	0.248 Amps	0.248 Amps	0.248 Amps
Peak Output Power	62.8 Watts	62.8 Watts	62.8 Watts
Torque Constant	18.85 mNm/A	192.18 gcm/A	2.67 oz-in/A
Terminal Resistance	0.56 Ohms	0.56 Ohms	0.56 Ohms
Back-EMF Constant	1.97 V/krpm	1.97 V/krpm	1.97 V/krpm
Mechanical Time Constant	11.8 msec	11.8 msec	11.8 msec
Rotor Inertia	75.10 kgm ² x10 ⁻⁷	75.10 gm cm ²	10.63 x10 ⁻⁴ oz-in-sec ²
Mechanical Time Constant	11.8 msec	11.8 msec	11.8 msec
Slope of Speed/Torque Curve	14.9 rpm/mNm	1.5 rpm/gcm	105.1 rpm/oz-in
Speed Constant	507 rpm/Volt	80 %	80 %
Motor Constant	25.18 mNm/√Watt	256.81 gcm/√Watt	3.57 oz-in/√Watt
Commutation Type	Metal Graphite	Metal Graphite	Metal Graphite
Rated Power @ 4,810 rpm	40.5 Watts	40.5 Watts	40.5 Watts
Rated Torque @ 4,810 rpm	80.5 mNm	821.0 gcm	11.4 oz-in
Rated Current @ 4,810 rpm	4.270 Amps	4.270 Amps	4.270 Amps

Part Number: How to Order C36G12BD000

Ratings are at 25°C Ambient Temperature.

Radial Load Rating	28.0 N	Radial Play	0.030 mm	Max Temperature	65 °C
Radial Load Distance	4 mm	Thrust Play	0.150 mm	Min Temperature	-20 °C
Axial Load	2.40 N	Magnet Type	NdFeB	Max Winding Temp	85 °C
Press Fit Force - Max	110.00 N	Bearing Type	Sleeve	Mass	340 grams
Gearbox Options	Planetary				
Encoder Options	22 mm Optical - 3 Channel				
Options - Other	Shaft length. Lubricants. Leads. Solder Tabs. Connectors.				

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Commutation Type:

Metal Graphite

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RoHS Compliant

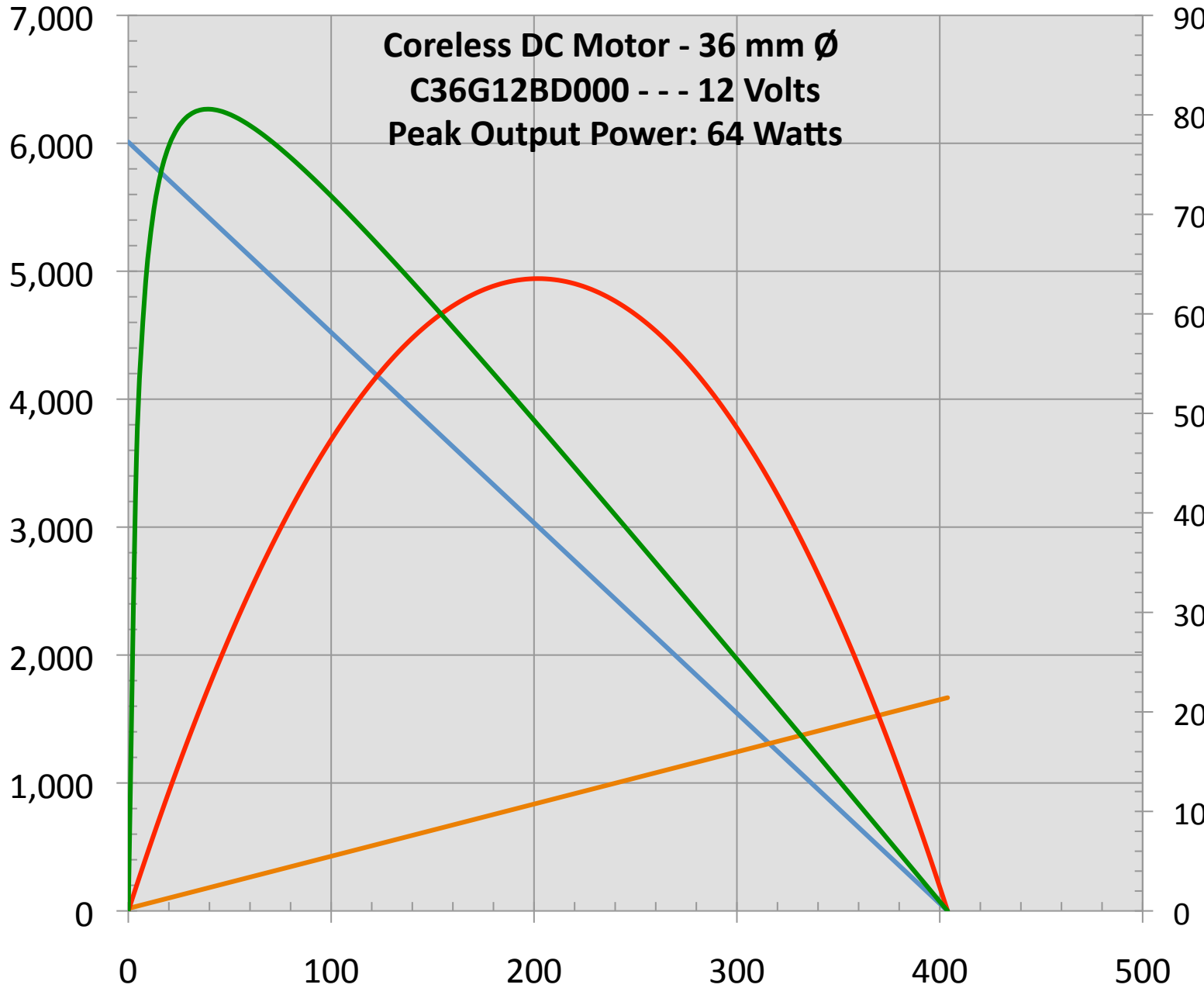
B - August 2011

Specifications Subject to change without notice

Coreless DC Motor - 36 mm Ø
C36G12BD000 - - 12 Volts
Peak Output Power: 64 Watts

- 90 C36G12BD000**
Voltage: 12 Volts
 No Load Speed: 6010 rpm
 No Load Current: 0.248 Amps
 Terminal Resistance: 0.56 Ohms
 Stall Torque: 403.85 mNm
 Torque Constant: 18.85 mNm/A
 Peak Output Power: 63.5 Watts
 Peak Efficiency: 80.6%
 Stall Current: 21.43 Amps
- A - Speed - rpm
 - A - Current - Amps
 - A - Power Out - Watts
 - A - Efficiency - %

Speed - rpm



Torque - mNm

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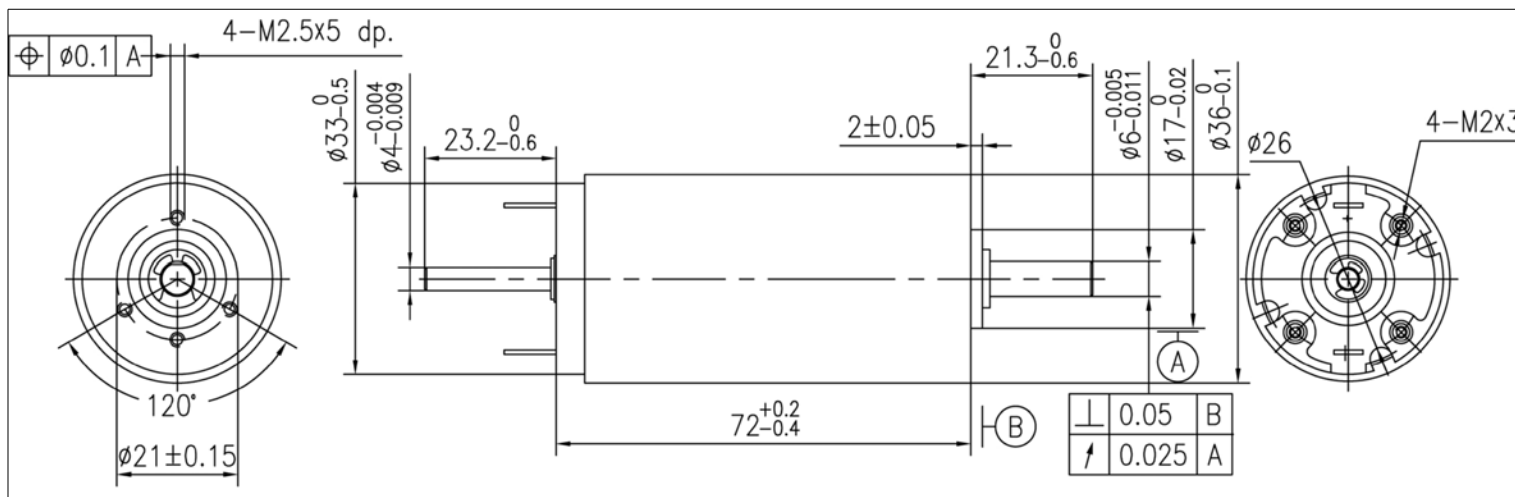
CAUTION: Peak Output Power is NOT a RATING. This is merely a calculated value and does not address Thermal Issues.

Coreless DC Motor - 36 mm Ø

C36G15BD000 80.1 Watts Peak Power



Global Motion Products



Not to Scale - Dimensions in millimeters (mm)

Nominal Voltage	15.0 Volts	15.0 Volts	15.0 Volts
No-Load Speed	6,260 rpm	6,260 rpm	6,260 rpm
Stall Torque	493.1 mNm	5,028.0 gcm	69.8 oz-in
No-Load Current	0.190 Amps	0.190 Amps	0.190 Amps
Peak Output Power	80.1 Watts	80.1 Watts	80.1 Watts
Torque Constant	22.68 mNm/A	231.29 gcm/A	3.21 oz-in/A
Terminal Resistance	0.69 Ohms	0.69 Ohms	0.69 Ohms
Back-EMF Constant	2.38 V/krpm	2.38 V/krpm	2.38 V/krpm
Mechanical Time Constant	9.2 msec	9.2 msec	9.2 msec
Rotor Inertia	68.60 kgm ² x10 ⁻⁷	68.60 gm cm ²	9.71 x10 ⁻⁴ oz-in-sec ²
Mechanical Time Constant	9.2 msec	9.2 msec	9.2 msec
Slope of Speed/Torque Curve	12.7 rpm/mNm	1.2 rpm/gcm	89.7 rpm/oz-in
Speed Constant	421 rpm/Volt	82 %	82 %
Motor Constant	27.31 mNm/√Watt	278.44 gcm/√Watt	3.87 oz-in/√Watt
Commutation Type	Metal Graphite	Metal Graphite	Metal Graphite
Rated Power @ 5,288 rpm	42.3 Watts	42.3 Watts	42.3 Watts
Rated Torque @ 5,288 rpm	76.3 mNm	778.5 gcm	10.8 oz-in
Rated Current @ 5,288 rpm	3.364 Amps	3.364 Amps	3.364 Amps

Part Number: How to Order C36G15BD000

Ratings are at 25°C Ambient Temperature.

Radial Load Rating	28.0 N	Radial Play	0.030 mm	Max Temperature	65 °C
Radial Load Distance	4 mm	Thrust Play	0.150 mm	Min Temperature	-20 °C
Axial Load	2.40 N	Magnet Type	NdFeB	Max Winding Temp	85 °C
Press Fit Force - Max	110.00 N	Bearing Type	Sleeve	Mass	340 grams
Gearbox Options	Planetary				
Encoder Options	22 mm Optical - 3 Channel				
Options - Other	Shaft length. Lubricants. Leads. Solder Tabs. Connectors.				

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Commutation Type:

Metal Graphite

Manufactured under a
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RoHS Compliant

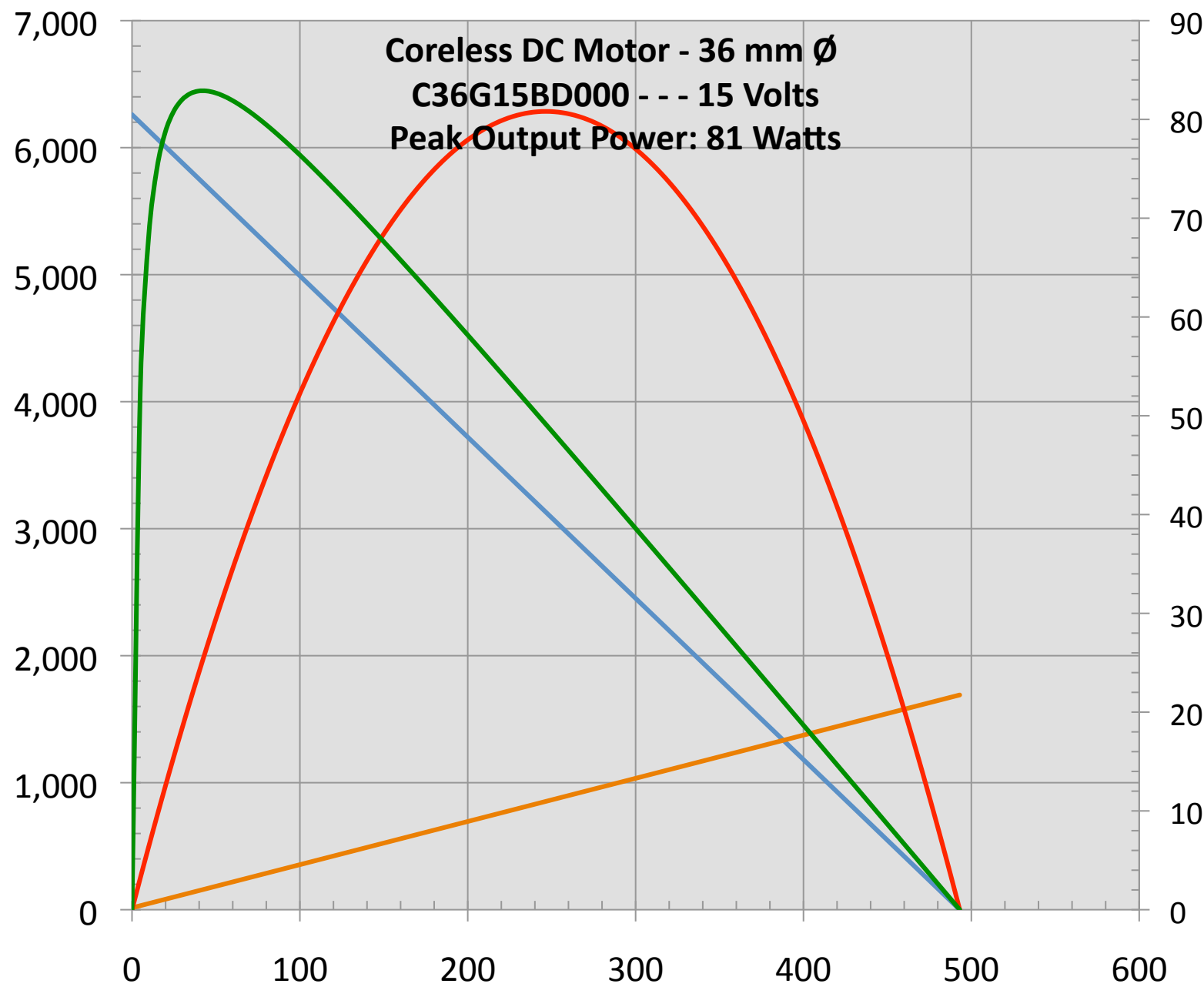
B - August 2011

Specifications Subject to change without notice

Coreless DC Motor - 36 mm Ø
C36G15BD000 - - - 15 Volts
Peak Output Power: 81 Watts

90 C36G15BD000
Voltage: 15 Volts
 No Load Speed: 6260 rpm
 No Load Current: 0.19 Amps
 Terminal Resistance: 0.69 Ohms
 Stall Torque: 493.08 mNm
 Torque Constant: 22.68 mNm/A
 Peak Output Power: 80.8 Watts
 Peak Efficiency: 82.9%
 Stall Current: 21.74 Amps

Speed - rpm



— A - Speed - rpm
 — A - Current - Amps
 — A - Power Out - Watts
 — A - Efficiency - %

Torque - mNm

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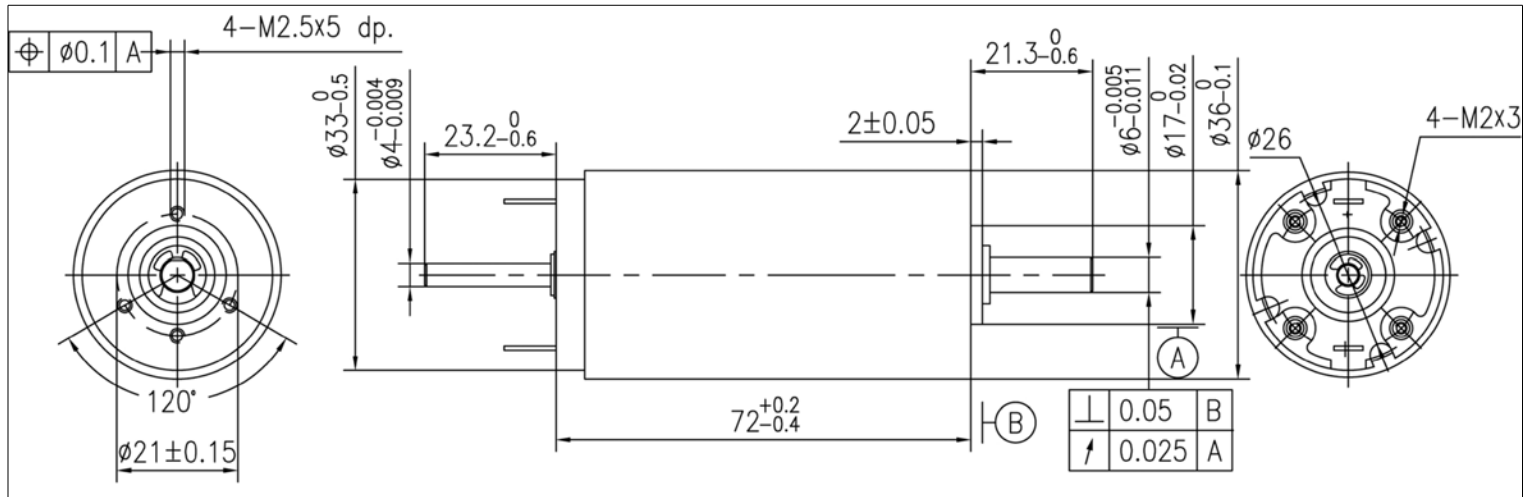
CAUTION: Peak Output Power is NOT a RATING. This is merely a calculated value and does not address Thermal Issues.

Coreless DC Motor - 36 mm Ø

C36G18BD000 87.5 Watts Peak Power



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Not to Scale - Dimensions in millimeters (mm)

Nominal Voltage	18.0 Volts	18.0 Volts	18.0 Volts
No-Load Speed	6,100 rpm	6,100 rpm	6,100 rpm
Stall Torque	552.6 mNm	5,634.8 gcm	78.3 oz-in
No-Load Current	0.170 Amps	0.170 Amps	0.170 Amps
Peak Output Power	87.5 Watts	87.5 Watts	87.5 Watts
Torque Constant	27.94 mNm/A	284.87 gcm/A	3.96 oz-in/A
Terminal Resistance	0.91 Ohms	0.91 Ohms	0.91 Ohms
Back-EMF Constant	2.93 V/krpm	2.93 V/krpm	2.93 V/krpm
Mechanical Time Constant	8.6 msec	8.6 msec	8.6 msec
Rotor Inertia	73.80 kgm ² x10 ⁻⁷	73.80 gm cm ²	10.45 x10 ⁻⁴ oz-in-sec ²
Mechanical Time Constant	8.6 msec	8.6 msec	8.6 msec
Slope of Speed/Torque Curve	11.0 rpm/mNm	1.1 rpm/gcm	78.0 rpm/oz-in
Speed Constant	342 rpm/Volt	82 %	82 %
Motor Constant	29.28 mNm/√Watt	298.62 gcm/√Watt	4.15 oz-in/√Watt
Commutation Type	Metal Graphite	Metal Graphite	Metal Graphite
Rated Power @ 5,282 rpm	40.9 Watts	40.9 Watts	40.9 Watts
Rated Torque @ 5,282 rpm	74.0 mNm	754.7 gcm	10.5 oz-in
Rated Current @ 5,282 rpm	2.648 Amps	2.648 Amps	2.648 Amps

Part Number: How to Order C36G18BD000

Ratings are at 25°C Ambient Temperature.

Radial Load Rating	28.0 N	Radial Play	0.030 mm	Max Temperature	65 °C
Radial Load Distance	4 mm	Thrust Play	0.150 mm	Min Temperature	-20 °C
Axial Load	2.40 N	Magnet Type	NdFeB	Max Winding Temp	85 °C
Press Fit Force - Max	110.00 N	Bearing Type	Sleeve	Mass	340 grams
Gearbox Options	Planetary				
Encoder Options	22 mm Optical - 3 Channel				
Options - Other	Shaft length. Lubricants. Leads. Solder Tabs. Connectors.				

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Commutation Type:

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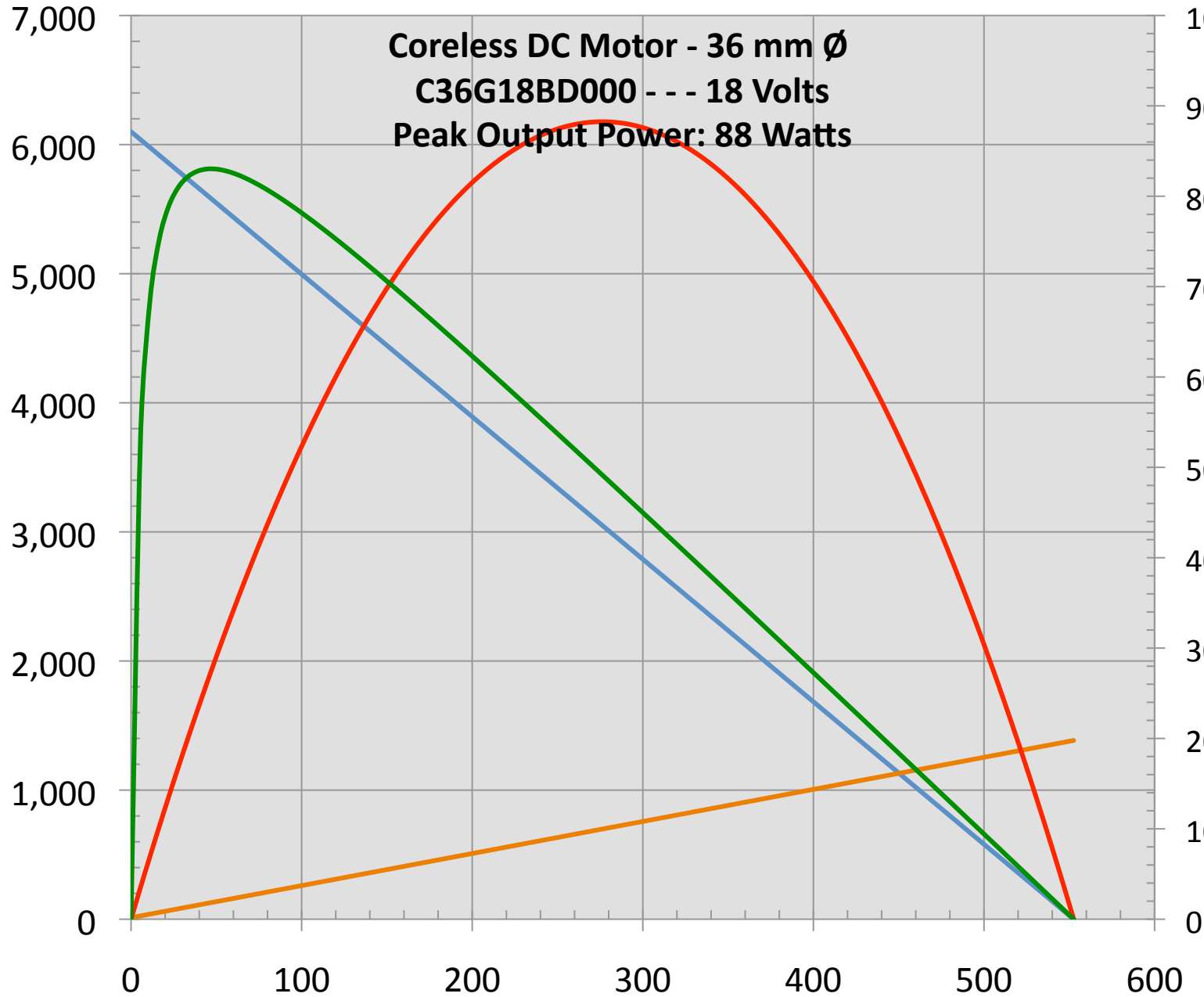
B - August 2011

Specifications Subject to change without notice

Coreless DC Motor - 36 mm Ø
C36G18BD000 - - - 18 Volts
Peak Output Power: 88 Watts

100 C36G18BD000
Voltage: 18 Volts
 No Load Speed: 6100 rpm
 No Load Current: 0.17 Amps
 Terminal Resistance: 0.91 Ohms
 Stall Torque: 552.58 mNm
 Torque Constant: 27.94 mNm/A
 Peak Output Power: 88.2 Watts
 Peak Efficiency: 83%
 Stall Current: 19.78 Amps

Speed - rpm



— A - Speed - rpm
 — A - Current - Amps
 — A - Power Out - Watts
 — A - Efficiency - %

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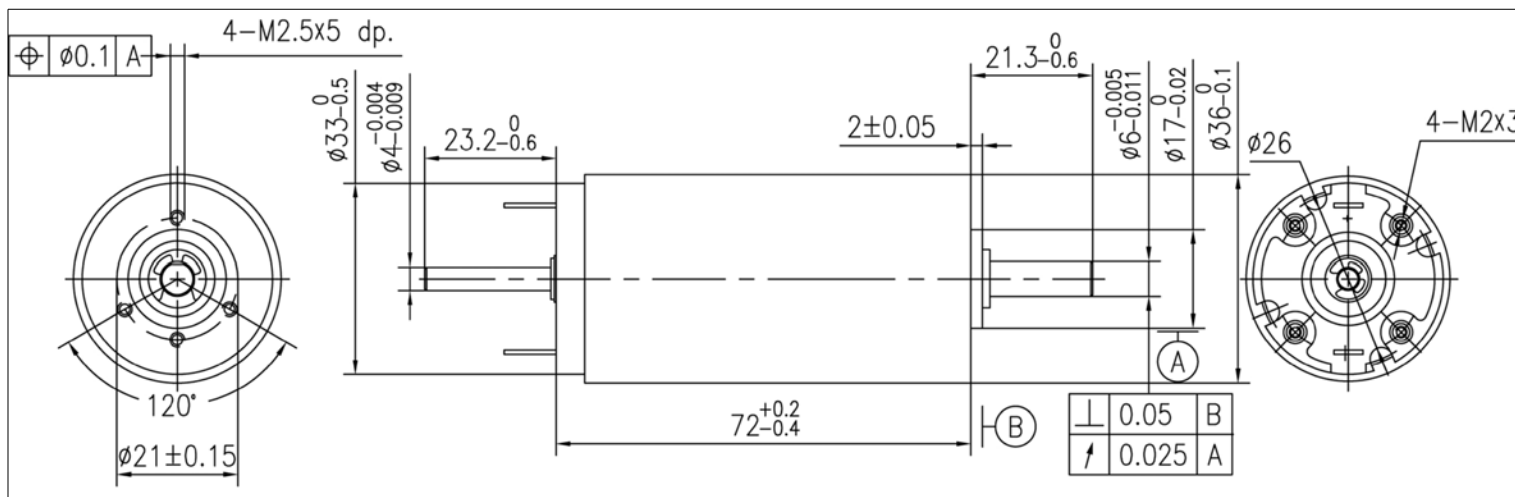
CAUTION: Peak Output Power is NOT a RATING. This is merely a calculated value and does not address Thermal Issues.

Coreless DC Motor - 36 mm Ø

C36G24BD000 131.1 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	6,360 rpm	6,360 rpm	6,360 rpm
Stall Torque	790.3 mNm	8,058.5 gcm	111.9 oz-in
No-Load Current	0.088 Amps	0.088 Amps	0.088 Amps
Peak Output Power	131.1 Watts	131.1 Watts	131.1 Watts
Torque Constant	35.89 mNm/A	365.99 gcm/A	5.08 oz-in/A
Terminal Resistance	1.09 Ohms	1.09 Ohms	1.09 Ohms
Back-EMF Constant	3.76 V/krpm	3.76 V/krpm	3.76 V/krpm
Mechanical Time Constant	6.8 msec	6.8 msec	6.8 msec
Rotor Inertia	80.30 kgm ² x10 ⁻⁷	80.30 gm cm ²	11.37 x10 ⁻⁴ oz-in-sec ²
Mechanical Time Constant	6.8 msec	6.8 msec	6.8 msec
Slope of Speed/Torque Curve	8.0 rpm/mNm	0.8 rpm/gcm	56.8 rpm/oz-in
Speed Constant	266 rpm/Volt	88 %	88 %
Motor Constant	34.38 mNm/√Watt	350.56 gcm/√Watt	4.87 oz-in/√Watt
Commutation Type	Metal Graphite	Metal Graphite	Metal Graphite
Rated Power @ 5,580 rpm	56.7 Watts	56.7 Watts	56.7 Watts
Rated Torque @ 5,580 rpm	97.0 mNm	989.4 gcm	13.7 oz-in
Rated Current @ 5,580 rpm	2.702 Amps	2.702 Amps	2.702 Amps

Part Number: How to Order C36G24BD000

Ratings are at 25°C Ambient Temperature.

Radial Load Rating	28.0 N	Radial Play	0.030 mm	Max Temperature	65 °C
Radial Load Distance	4 mm	Thrust Play	0.150 mm	Min Temperature	-20 °C
Axial Load	2.40 N	Magnet Type	NdFeB	Max Winding Temp	85 °C
Press Fit Force - Max	110.00 N	Bearing Type	Sleeve	Mass	340 grams
Gearbox Options	Planetary				
Encoder Options	22 mm Optical - 3 Channel				
Options - Other	Shaft length. Lubricants. Leads. Solder Tabs. Connectors.				

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Commutation Type:

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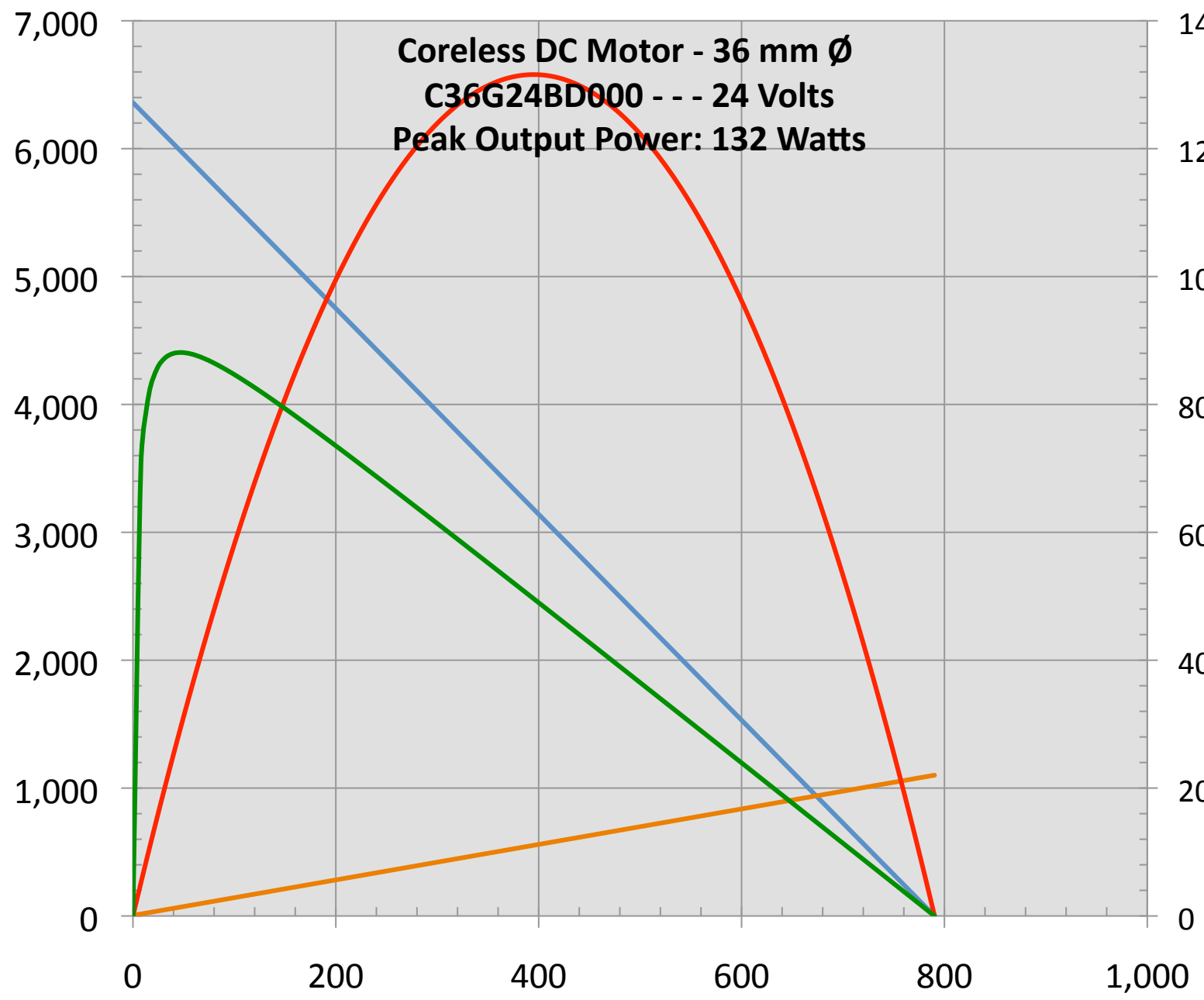
B - August 2011

Specifications Subject to change without notice

Coreless DC Motor - 36 mm Ø
C36G24BD000 - - - 24 Volts
Peak Output Power: 132 Watts

140 C36G24BD000
Voltage: 24 Volts
 No Load Speed: 6360 rpm
 No Load Current: 0.0878 Amps
 Terminal Resistance: 1.09 Ohms
 Stall Torque: 790.27 mNm
 Torque Constant: 35.89 mNm/A
 Peak Output Power: 131.6 Watts
 Peak Efficiency: 88.1%
 Stall Current: 22.02 Amps

Speed - rpm



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

Torque - mNm

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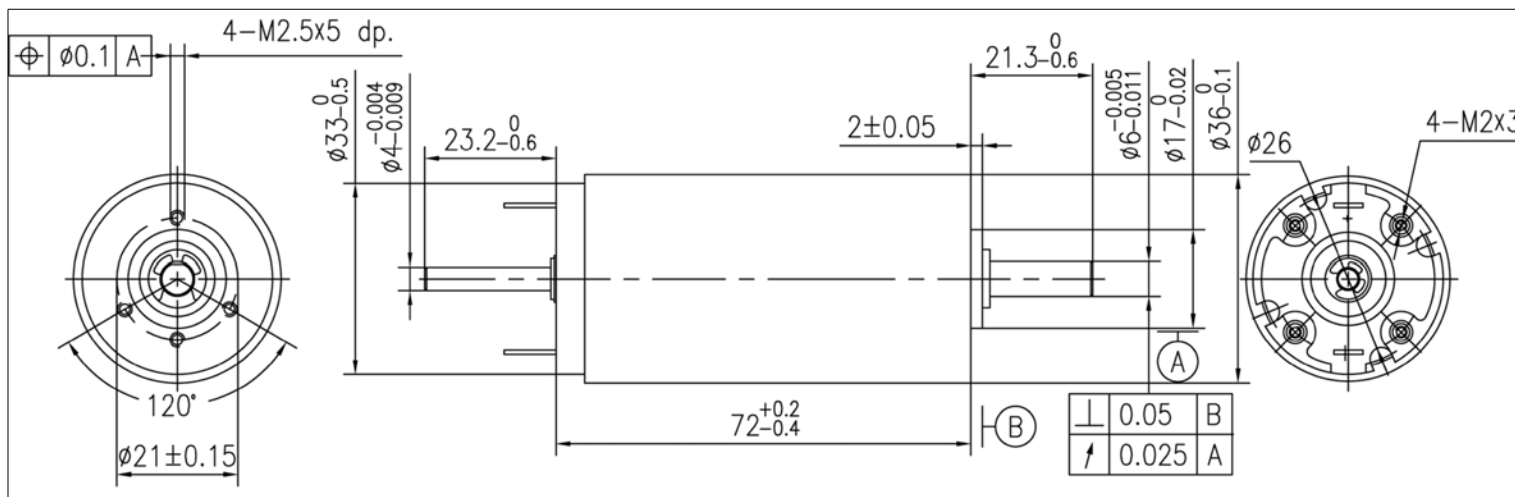
CAUTION: Peak Output Power is NOT a RATING. This is merely a calculated value and does not address Thermal Issues.

Coreless DC Motor - 36 mm Ø

C36G30BD000 111.7 Watts Peak Power



Global Motion Products



Not to Scale - Dimensions in millimeters (mm)

Nominal Voltage	30.0 Volts	30.0 Volts	30.0 Volts
No-Load Speed	6,090 rpm	6,090 rpm	6,090 rpm
Stall Torque	703.1 mNm	7,169.4 gcm	99.6 oz-in
No-Load Current	0.054 Amps	0.054 Amps	0.054 Amps
Peak Output Power	111.7 Watts	111.7 Watts	111.7 Watts
Torque Constant	46.87 mNm/A	477.96 gcm/A	6.64 oz-in/A
Terminal Resistance	2.00 Ohms	2.00 Ohms	2.00 Ohms
Back-EMF Constant	4.91 V/krpm	4.91 V/krpm	4.91 V/krpm
Mechanical Time Constant	6.4 msec	6.4 msec	6.4 msec
Rotor Inertia	70.10 kgm ² x10 ⁻⁷	70.10 gm cm ²	9.93 x10 ⁻⁴ oz-in-sec ²
Mechanical Time Constant	6.4 msec	6.4 msec	6.4 msec
Slope of Speed/Torque Curve	8.7 rpm/mNm	0.8 rpm/gcm	61.2 rpm/oz-in
Speed Constant	204 rpm/Volt	88 %	88 %
Motor Constant	33.14 mNm/√Watt	337.97 gcm/√Watt	4.69 oz-in/√Watt
Commutation Type	Metal Graphite	Metal Graphite	Metal Graphite
Rated Power @ 5,407 rpm	44.6 Watts	44.6 Watts	44.6 Watts
Rated Torque @ 5,407 rpm	78.9 mNm	804.4 gcm	11.2 oz-in
Rated Current @ 5,407 rpm	1.682 Amps	1.682 Amps	1.682 Amps

Part Number: How to Order C36G30BD000

Ratings are at 25°C Ambient Temperature.

Radial Load Rating	28.0 N	Radial Play	0.030 mm	Max Temperature	65 °C
Radial Load Distance	4 mm	Thrust Play	0.150 mm	Min Temperature	-20 °C
Axial Load	2.40 N	Magnet Type	NdFeB	Max Winding Temp	85 °C
Press Fit Force - Max	110.00 N	Bearing Type	Ball Bearings	Mass	340 grams
Gearbox Options	Planetary				
Encoder Options	22 mm Optical - 3 Channel				
Options - Other	Shaft length. Lubricants. Leads. Solder Tabs. Connectors.				

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Commutation Type:

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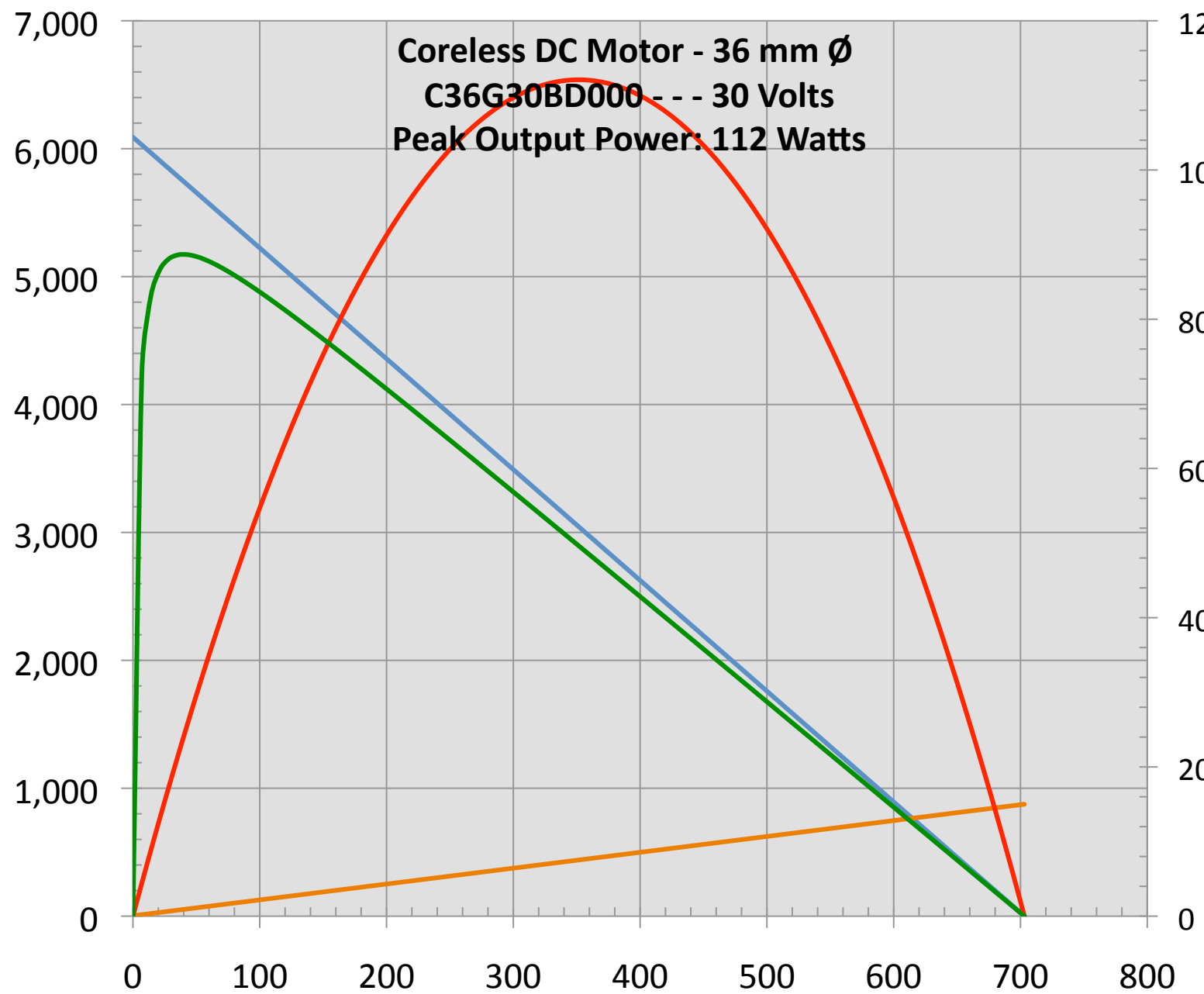
B - August 2011

Specifications Subject to change without notice

**Coreless DC Motor - 36 mm Ø
C36G30BD000 - - - 30 Volts
Peak Output Power: 112 Watts**

120 C36G30BD000
Voltage: 30 Volts
 No Load Speed: 6090 rpm
 No Load Current: 0.0539 Amps
 Terminal Resistance: 2 Ohms
 Stall Torque: 703.08 mNm
 Torque Constant: 46.87 mNm/A
 Peak Output Power: 112.1 Watts
 Peak Efficiency: 88.7%
 Stall Current: 15 Amps

Speed - rpm



— A - Speed - rpm
 — A - Current - Amps
 — A - Power Out - Watts
 — A - Efficiency - %

Torque - mNm

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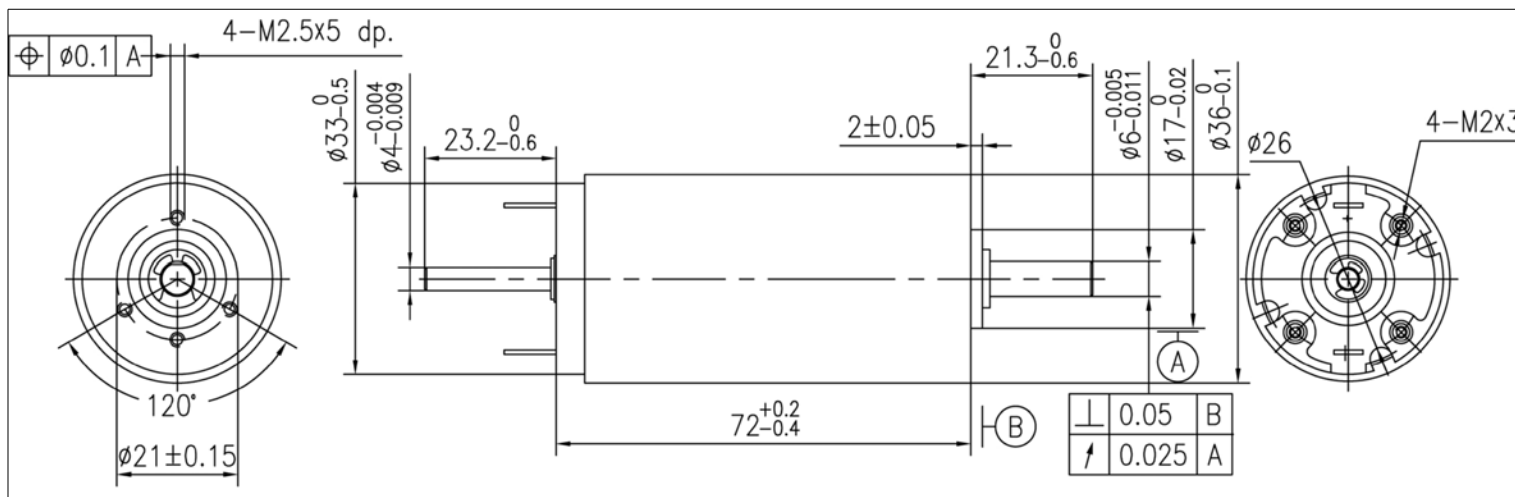
CAUTION: Peak Output Power is NOT a RATING. This is merely a calculated value and does not address Thermal Issues.

Coreless DC Motor - 36 mm Ø

C36G36BD000 110.8 Watts Peak Power



Global Motion Products



Not to Scale - Dimensions in millimeters (mm)

Nominal Voltage	36.0 Volts	36.0 Volts	36.0 Volts
No-Load Speed	6,220 rpm	6,220 rpm	6,220 rpm
Stall Torque	683.4 mNm	6,968.3 gcm	96.8 oz-in
No-Load Current	0.050 Amps	0.050 Amps	0.050 Amps
Peak Output Power	110.8 Watts	110.8 Watts	110.8 Watts
Torque Constant	55.05 mNm/A	561.34 gcm/A	7.80 oz-in/A
Terminal Resistance	2.90 Ohms	2.90 Ohms	2.90 Ohms
Back-EMF Constant	5.76 V/krpm	5.76 V/krpm	5.76 V/krpm
Mechanical Time Constant	6.9 msec	6.9 msec	6.9 msec
Rotor Inertia	71.90 kgm ² x10 ⁻⁷	71.90 gm cm ²	10.18 x10 ⁻⁴ oz-in-sec ²
Mechanical Time Constant	6.9 msec	6.9 msec	6.9 msec
Slope of Speed/Torque Curve	9.1 rpm/mNm	0.9 rpm/gcm	64.3 rpm/oz-in
Speed Constant	173 rpm/Volt	88 %	88 %
Motor Constant	32.33 mNm/√Watt	329.63 gcm/√Watt	4.58 oz-in/√Watt
Commutation Type	Metal Graphite	Metal Graphite	Metal Graphite
Rated Power @ 5,557 rpm	42.4 Watts	42.4 Watts	42.4 Watts
Rated Torque @ 5,557 rpm	72.9 mNm	743.6 gcm	10.3 oz-in
Rated Current @ 5,557 rpm	1.324 Amps	1.324 Amps	1.324 Amps

Part Number: How to Order C36G36BD000

Ratings are at 25°C Ambient Temperature.

Radial Load Rating	28.0 N	Radial Play	0.030 mm	Max Temperature	65 °C
Radial Load Distance	4 mm	Thrust Play	0.150 mm	Min Temperature	-20 °C
Axial Load	2.40 N	Magnet Type	NdFeB	Max Winding Temp	85 °C
Press Fit Force - Max	110.00 N	Bearing Type	Ball Bearings	Mass	340 grams
Gearbox Options	Planetary				
Encoder Options	22 mm Optical - 3 Channel				
Options - Other	Shaft length. Lubricants. Leads. Solder Tabs. Connectors.				

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Commutation Type:

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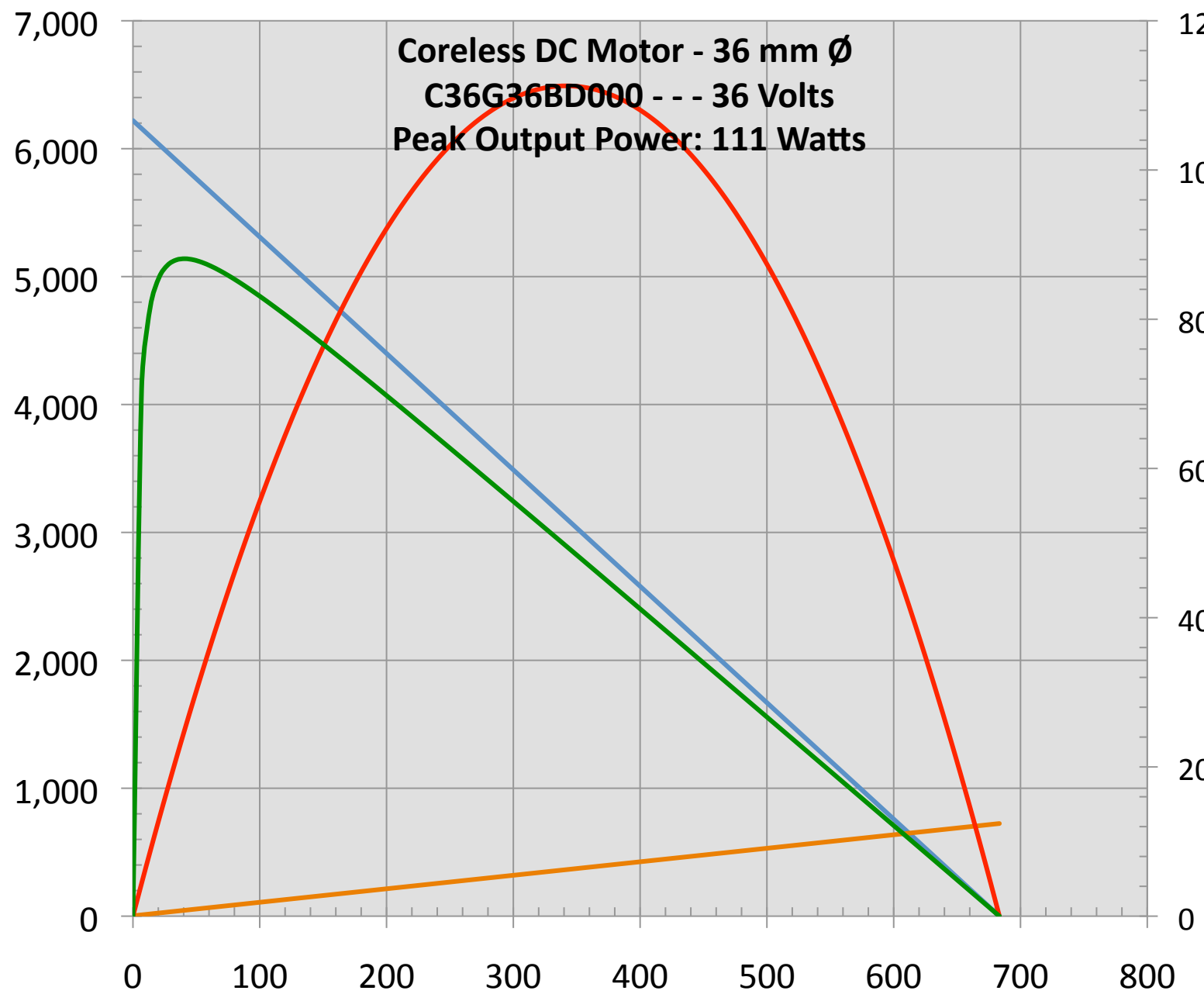
B - August 2011

Specifications Subject to change without notice

Coreless DC Motor - 36 mm Ø
C36G36BD000 - - - 36 Volts
Peak Output Power: 111 Watts

120 C36G36BD000
Voltage: 36 Volts
 No Load Speed: 6220 rpm
 No Load Current: 0.0496 Amps
 Terminal Resistance: 2.9 Ohms
 Stall Torque: 683.36 mNm
 Torque Constant: 55.05 mNm/A
 Peak Output Power: 111.3 Watts
 Peak Efficiency: 88.1%
 Stall Current: 12.41 Amps

Speed - rpm



- A - Speed - rpm
- A - Current - Amps
- A - Power Out - Watts
- 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.