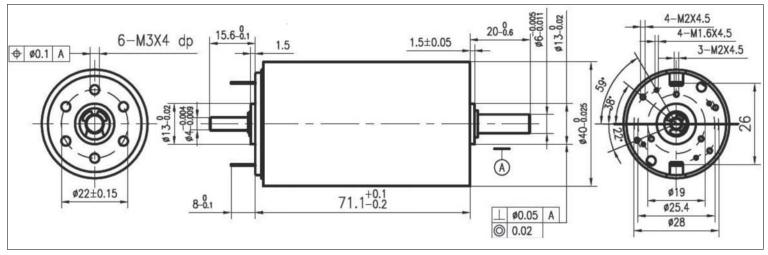
Coreless DC Motor - 40 mm Ø

C40G24BD000

551.33 Peak Power





Natta Caala	D:		(
Not to Scale -	Dimensions	s in millimeters	(mm)

Nominal Voltage	24.0 Volts	24.0 Volts	24.0 Volts
No-Load Speed	7,800 rpm	7,800 rpm	7,800 rpm
Stall Torque	2,706.1 mNm	27,594.0 gcm	383.21 oz-in
No-Load Current	0.210 Amps	0.210 Amps	0.210 Amps
Peak Output Power	551.33 Watts	551.33 Watts	551.33 Watts
Torque Constant	29.32 mNm/A	298.94 gcm/A	4.15 oz-in/A
Terminal Resistance	0.26 Ohms	0.26 Ohms	0.26 Ohms
Back-EMF Constant	3.07 V/krpm	3.07 V/krpm	3.07 V/krpm
Inductance			
Rotor Inertia	146.9 kg-m^2 x10-7	146.9 gm cm^2	20.8 x10-4 oz in sec^2
Mechanical Time Constant	4.4 msec	4.4 msec	4.4 msec
Slope of Speed/Torque Curve	2.9 rpm/mNm	0.3 rpm/gcm	20.4 rpm/oz-in
Speed Constant	326 rpm/Volt	326 rpm/Volt	326 rpm/Volt
Motor Constant	57.49 mNm/√Watt	586.26 gcm/√Watt	8.14 oz-in/√Watt

Rated Power @	7,379 rpm	122.30 Watts	122.30 Watts	122.30 Watts
Rated Torque @	7,379 rpm	158.4 mNm	1,615.2 gcm	22.43 oz-in
Rated Current @	7,379 rpm	5.400 Amps	5.400 Amps	5.400 Amps
Dort Number: How t	o Ordor	C40C34PD000	Characteristics Specifications at	22 °C

Part Number: How to Order C40G24BD000 Characteristics - Specifications at 22 °C

Radial Load Rating	28.0 N	Radial Play	≤ 0.020 mm	Max Temperature	65 °C
Radial Load Distance	34 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	420.0 grams

Gearbox Options Planetary and low cost Spur Gearboxes are available.

Encoder Options Optical and Magnetic quadrature encoders, including 3 Channel Versions.

Options - Other Shaft length, wire leads, connectors.

Global Motion Products Distributed by:

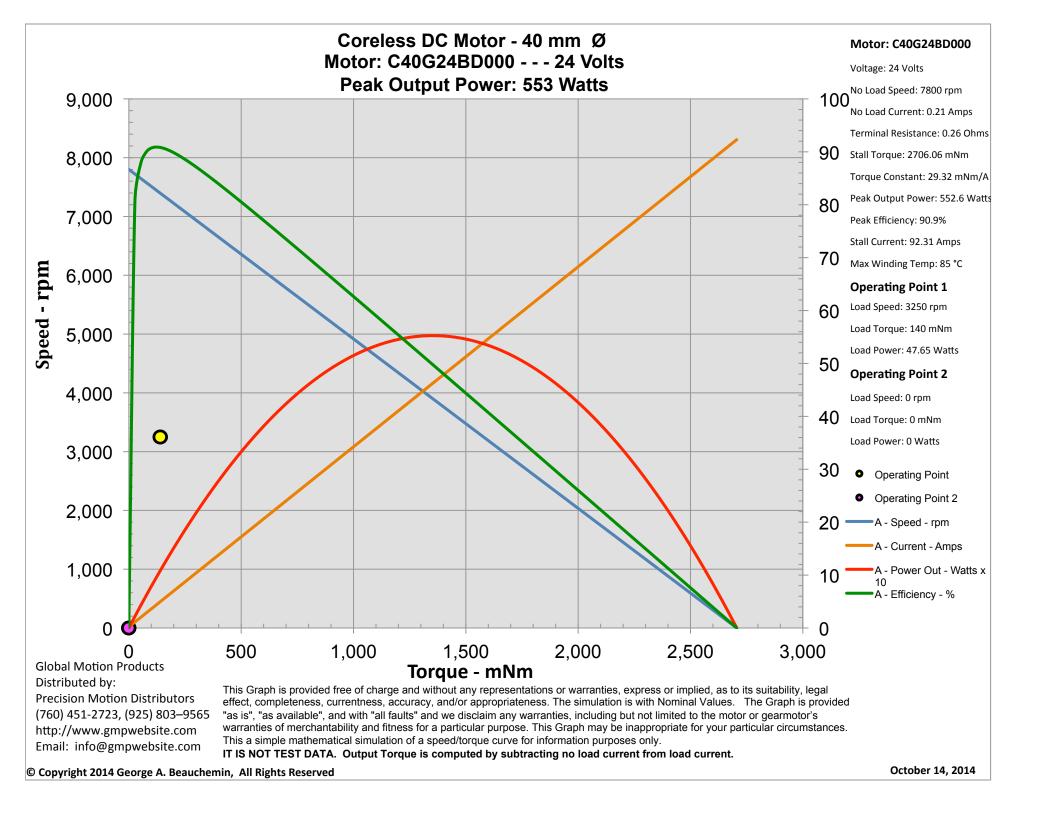
Precision Motion Distributors: (925) 803-9565

Metal Graphite

Commutation Type: Manufactured under a Certified ISO 9001:2008 Quality System

RoHS Compliant

Technical Support: (760) 451-2723 Specifications Subject to change without notice A - August 2014 http://www.gmpwebsite.com Email: info@gmpwebsite.com

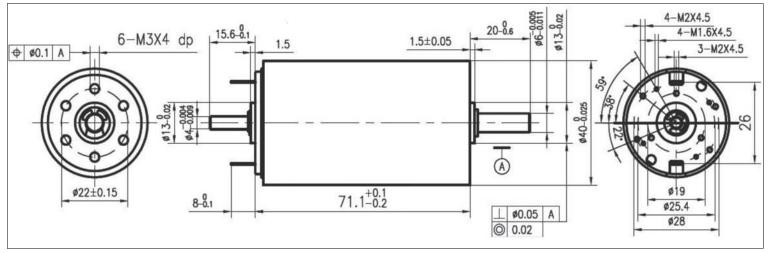


Coreless DC Motor - 40 mm Ø

C40G15BD000

310.25 Peak Power





Not to Scale - Dimensions in millimeters (mm)

Nominal Voltage		15.0 Volts 15.0 Volts		15.0 Volts	
No-Load Speed		7,000 rpm	7,000 rpm	7,000 rpm	
Stall Torque		1,699.1 mNm	17,326.0 gcm	240.61 oz-in	
No-Load Current		0.300 Amps	0.300 Amps	0.300 Amps	
Peak Output Power		310.25 Watts	310.25 Watts	310.25 Watts	
Torque Constant		20.39 mNm/A	207.91 gcm/A	2.89 oz-in/A	
Terminal Resistance	•	0.18 Ohms	0.18 Ohms	0.18 Ohms	
Back-EMF Constant		2.14 V/krpm	2.14 V/krpm	2.14 V/krpm	
Inductance					
Rotor Inertia		103.7 kg-m^2 x10-7	103.7 gm cm^2	14.7 x10-4 oz in sec^2	
Mechanical Time Cor	nstant	4.5 msec	4.5 msec	4.5 msec	
Slope of Speed/Torq	ue Curve	4.1 rpm/mNm	0.4 rpm/gcm	29.1 rpm/oz-in	
Speed Constant		468 rpm/Volt	468 rpm/Volt	468 rpm/Volt	
Motor Constant		48.06 mNm/√Watt	490.05 gcm/√Watt	6.81 oz-in/√Watt	
CAUTION: Stall Tor	que and Peal	Power are theoretical cald	culations - NOT a Rating or M	ax Value.	
Rated Power @	6,439 rpm	91.80 Watts	91.80 Watts	91.80 Watts	

Rated Power @	6,439 rpm	91.80 Watts	91.80 Watts	91.80 Watts
Rated Torque @	6,439 rpm	136.2 mNm	1,388.9 gcm	19.29 oz-in
Rated Current @	6,439 rpm	6.676 Amps	6.676 Amps	6.676 Amps
Part Number: How t	o Order	C40G15BD000	Characteristics - Specifications at	22 °C

Radial Load Rating	28.0 N	Radial Play	≤ 0.020 mm	Max Temperature	65 °C
Radial Load Distance	34 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	420.0 grams

Gearbox Options Planetary and low cost Spur Gearboxes are available.

Encoder Options Optical and Magnetic quadrature encoders, including 3 Channel Versions.

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