GROUP SIX

Allied Motion

Emoteq Corporation

Emoteq QB Series BLDC Servo Motors

- High strength NdFeB magnets maximize torque
- Integrated Hall sensors for commutation
- Sealed versions up to IP65

Contact Us! 800-433-3434 USA
Email □ info@grp6.com

Purchase Source: GROUP SIX (USA)
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Quantum Frameless Brushless Servo Motors

Brushless component (rotor and stator) servo motor

Allied Motion's Quantum (QB) series of frameless brushless servo motors are specifically designed for direct axis integration in machine applications where a housed motor is undesirable.

The QB series are brushless kit motors (rotor & stator sets) designed to deliver high performance and servo precision at minimal cost. They can be easily customized to the exact specs required. QS versions are available offering improved efficiency at high speeds are also available.

The QB series are optimized for high output power, high torque density, and low cogging torque. Their high power density ratio allows a smaller size motor to be used in many applications, saving space and weight.

Quantum servo motors are also available as housed versions in standard NEMA sizes (17, 23, 34 and 56 frames) for use in typical servo applications.

Common applications of the frameless QB series include high speed pumps and fans, laboratory automation, robotic joints, cash counter/handling devices, and semiconductor manufacturing.

Features & Benefits

- Frameless brushless servomotors designed to be compact and cost-effective
- Rated stall torque from 11.5 oz-in (0.08 Nm) up to 10.40 ft-lb (14.1 Nm)
- Standard winding voltage ratings of 24, 40, 130, and 300 VDC
- High strength NdFeB magnets maximize torque production

Options & Accessories

- Custom winding designs to accommodate special performance requirements
- Alternate rotor through-bore size
- Thermistor or other temperature-sensing options

- Cost-effective frameless brushless servo motor
- Rated power up to 4.5 kW cont., and stall torque rated up to 10.4 Nm cont.
- Standard winding voltages of 24, 40, and 130 VDC (300 VDC for the QB56)

SPECIFICATION SUMMARY

Model	Units	QB017	QB023	QB034	QB056
Cont. Stall Torque	oz-in	11.5 - 43.5	51.0 - 182	115 - 429	3.17 - 10.4 lb-ft
	Nm	0.08 - 0.30	0.36 - 1.28	0.81 - 3.03	4.29 - 14.1
Design Voltage	VDC	24, 40, 130			40, 130, 300
No Load Speed	RPM	5302 - 29095	2269 - 10254	1244 - 8037	2156 - 5896
	rad/s	555 - 3046	237 - 1073	1244 - 8037	225 - 617
Motor Inertia	oz-in-s^2	1.4E-4 - 5.8E-4	1.0E-3 - 4.3E-3	7.4e-3 - 3.0E-2	2.7E-4 - 1.1E-3 lb-ft-s^2
	kg-m^2	1.0E-7 - 4.1E-6	7.6E-6 - 3.0E-5	5.2E-5 - 2.1E-4	3.6E-4 - 1.5E-3
Diameter (Outer)	in	1.41	2.18	3.20	5.00
	mm	35.81	55.37	81.28	127.00

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Servo Motors

QB017 Series Frameless Brushless Servo Motors

SPECIFICATIONS

Model No.		QB01700			QB01701		
Stall Torque (continuous)	oz-in	11.5			21.6		
	Nm	0.08			0.15		
Motor Constant	oz-in/√W	3.20			4.99		
	Nm/√W	0.023			0.035		
Elect. Time Constant	ms	0.380			0.520		
Mech. Time Constant	ms	2.030			1.670		
Thermal Resistance	°C/W	4.7			3.29		
Viscous Damping	oz-in/RPM	7.5E-5			1.5E-4		
	Nm/RPM	5.3E-5			1.1E-6		
Cogging Torque (max.)	oz-in	1.0			1.5		
	Nm	7.0E-3			1.1E-2		
Motor Inertia	oz-in-s²	1.4E-4			2.9E-4		
	kg-m²	1.0E-7			2.0E-6		
Motor Weight	oz	2.5			5.0		
	kg	0.07			0.14		
Poles	-	6					
Winding Constants		**A**	**B**	**C**	**A**	**B**	**C**
Design Voltage	V	24	40	130	24	40	130
Peak Torque	oz-in	92	92	92	169	169	169
	Nm	0.65	0.65	0.65	1.19	1.19	1.19
Peak Current	A	36	24	15	44	35	14
Torque Constant (±10%)	oz-in/A	2.54	3.84	6.04	3.65	4.79	11.35
	Nm/A	0.018	0.027	0.043	0.026	0.034	0.080
No Load Speed	RPM	12775	14068	29095	8874	11287	15488
	rad/s	1337	1473	3046	829	1182	1621
BEMF Constant (±10%)	V/kRPM	1.88	2.84	4.46	2.70	3.54	8.39
	V/rad/s	0.018	0.027	0.043	0.026	0.034	0.080
Terminal Resistance (±12%)	Ohm	0.63	1.51	3.76	0.530	1.050	6.440
Terminal Inductance (±30%)	mH	0.24	0.55	1.36	0.28	0.48	2.68

Model No.		QB01702			QB01703		
Stall Torque (continuous)	oz-in	33.5			43.5		
	Nm	0.23			0.30		
Motor Constant	oz-in/√W	6.85			8.11		
	Nm/√W	0.048			0.057		
Elect. Time Constant	ms	0.590			0.65		
Mech. Time Constant	ms	1.330			1.26		
Thermal Resistance	°C/W	2.58			2.14		
Viscous Damping	oz-in/RPM	2.3E-4			3.1E-4		
	Nm/RPM	1.6E-6			2.2E-6		
Cogging Torque (max.)	oz-in	1.8			2.2		
	Nm	1.3E-2			1.6E-2		
Motor Inertia	oz-in-s²	4.4-4			5.8E-4		
	kg-m²	3.1E-6			4.1E-6		
Motor Weight	oz	7.4			9.7		
	kg	0.21			0.27		
Poles	-	6					
Winding Constants		**A**	**B**	**C**	**A**	**B**	**C**
Design Voltage	V	24	40	130	24	40	130
Peak Torque	oz-in	264	264	264	258	341	341
	Nm	1.87	1.87	1.87	1.82	2.41	2.41
Peak Current	A	42	41	16	42	49	20
Torque Constant (±10%)	oz-in/A	5.13	6.32	16.20	6.21	6.88	16.83
	Nm/A	0.036	0.045	0.114	0.043	0.049	0.119
No Load Speed	RPM	6318	8555	10851	5302	7855	10444
	rad/s	661	895	1136	555	822	1093
BEMF Constant (±10%)	V/kRPM	3.79	4.67	11.98	4.52	5.09	12.44
	V/rad/s	0.036	0.045	0.114	0.043	0.049	0.119
Terminal Resistance (±12%)	Ohm	0.56	0.86	5.62	0.56	0.72	4.43
Terminal Inductance (±30%)	mH	0.330	0.5	3.29	0.37	0.47	2.81

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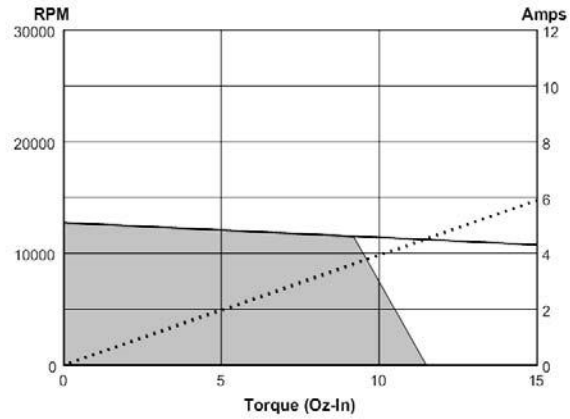
QB017 Series Frameless Brushless Servo Motors

PERFORMANCE

QB01700-A00



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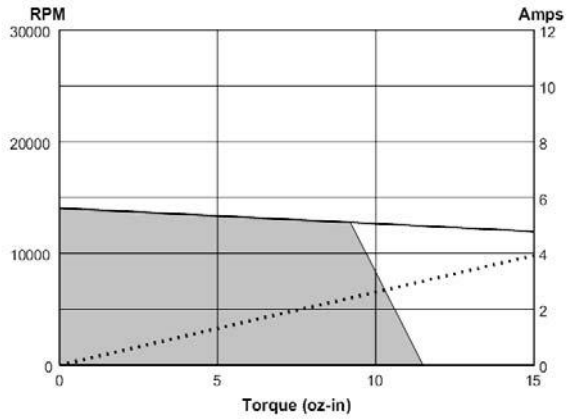

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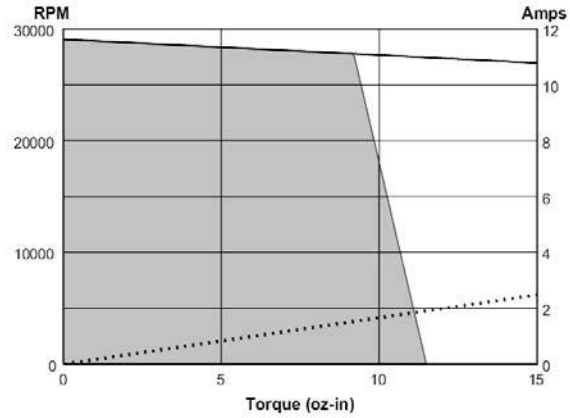

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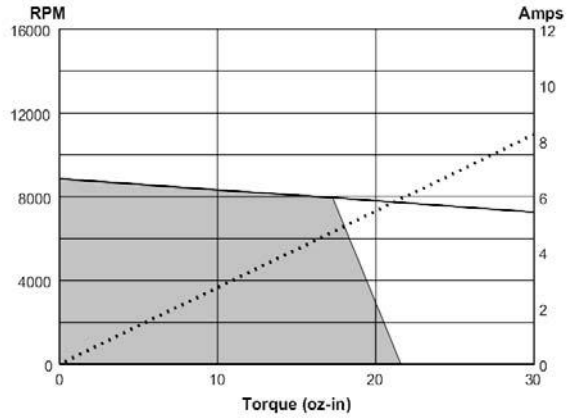

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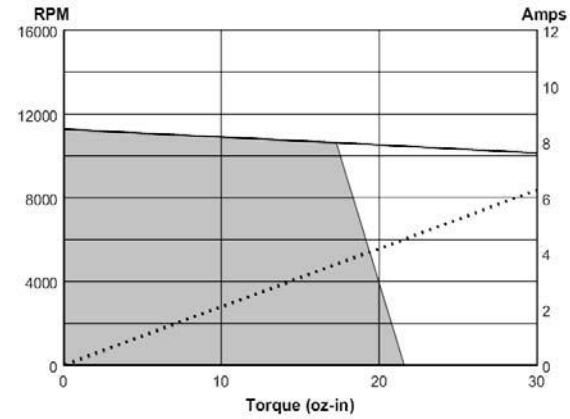

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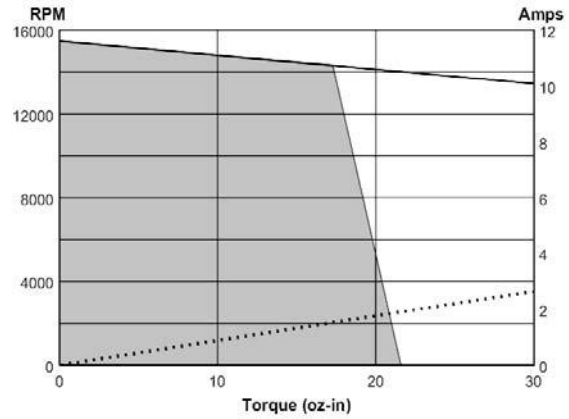

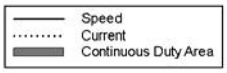

QB017 Series Frameless Brushless Servo Motors

PERFORMANCE

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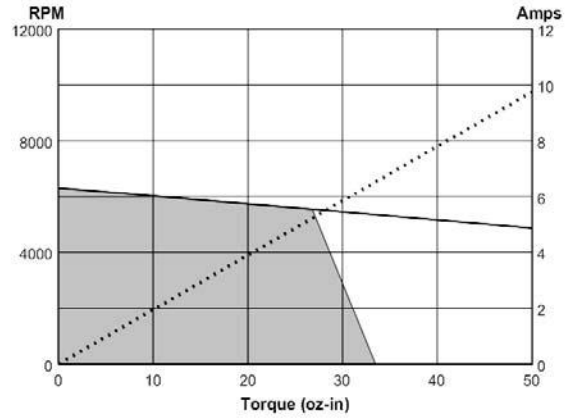

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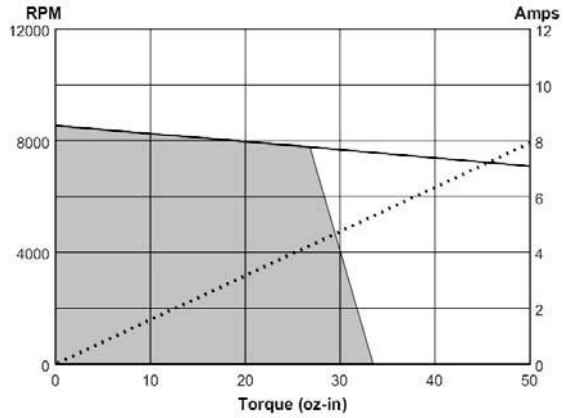

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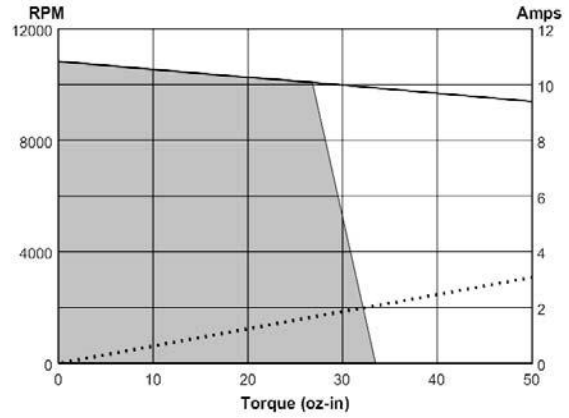

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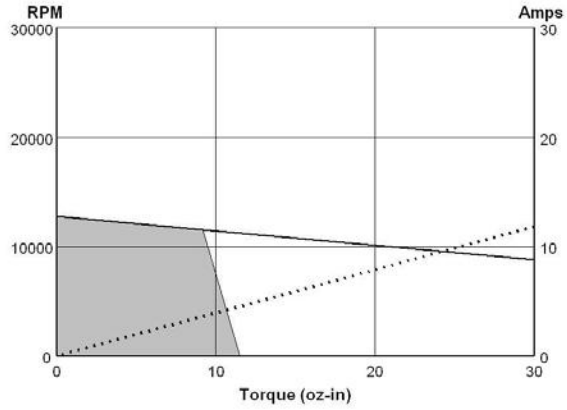

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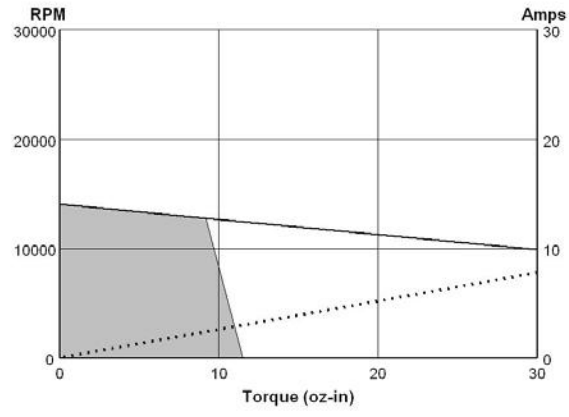

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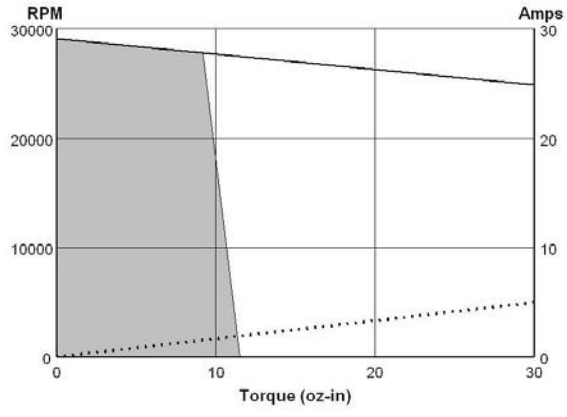

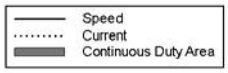

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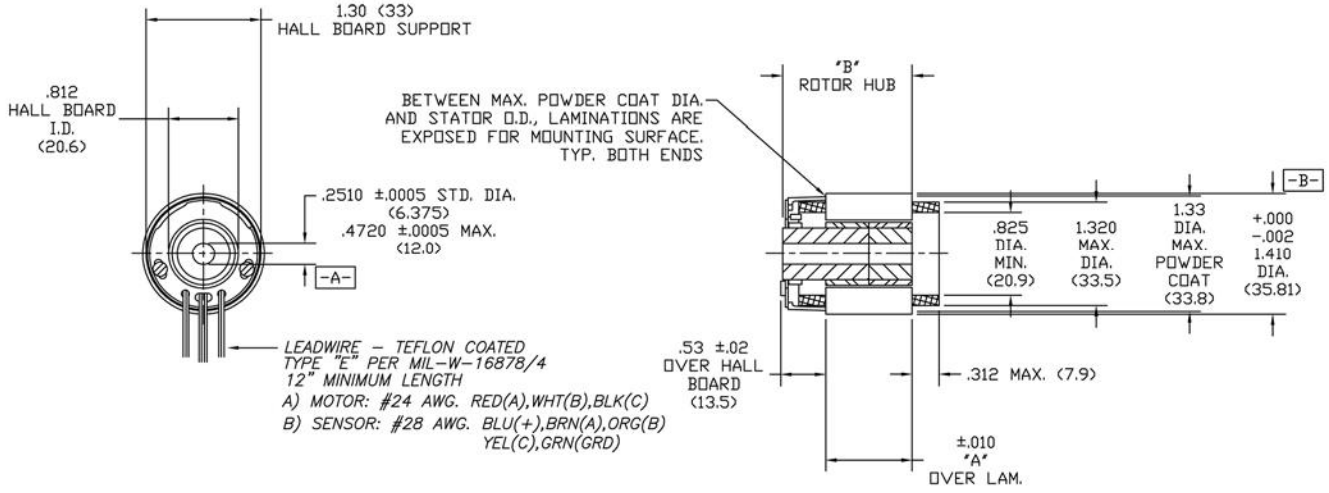
QB017 Series Frameless Brushless Servo Motors

DIMENSIONS

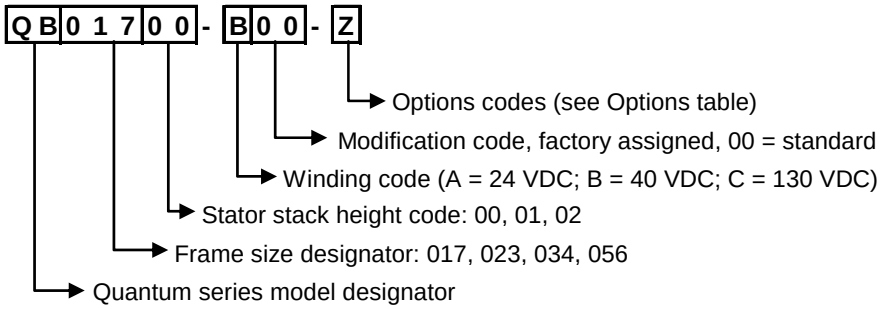


MODEL NO.	"A" STATOR	"B" ROTOR
QB01700	.500 (12.70)	1.000 (25.40)
QB01701	1.000 (25.40)	1.500 (38.10)
QB01702	1.500 (38.10)	2.000 (50.80)
QB01703	2.000 (50.80)	2.500 (63.5)

1. MOTOR SUPPLIED AS TWO SEPARATE COMPONENTS, ROTOR ASSEMBLY AND STATOR ASSEMBLY.
2. DIAMETERS "A" AND "B" TO BE CONCENTRIC WITHIN .002 WHEN MOUNTED.
3. STD. HUB LENGTH IS 1.000" LG. .500" HUBS ARE PROVIDED FOR CUSTOMER STACKING BEYOND 1.000".

in (mm)

MODEL NUMBERING



Options
Z = RoHS compliant

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Servo Motors

QB023 Series Frameless Brushless Servo Motors

SPECIFICATIONS

Model No.		QB02300			QB02301		
Stall Torque (continuous)	oz-in	51			96		
	Nm	0.36			0.68		
Motor Constant	oz-in/√W	10.8			17.2		
	Nm/√W	0.076			0.121		
Elect. Time Constant	ms	0.94			1.14		
Mech. Time Constant	ms	1.30			1.03		
Thermal Resistance	°C/W	2.79			2.00		
Viscous Damping	oz-in/RPM	3.5E-4			7.5E-4		
	Nm/RPM	2.5E-6			5.3E-6		
Cogging Torque (max.)	oz-in	2.6			4.1		
	Nm	0.018			0.029		
Motor Inertia	oz-in-s²	1.1E-3			2.2E-3		
	kg-m²	7.9E-6			1.5E-5		
Motor Weight	oz	24.1			32.6		
	kg	0.68			0.92		
Poles	-	6					
Winding Constants		**A**	**B**	**C**	**A**	**B**	**C**
Design Voltage	V	24	40	130	24	40	130
Peak Torque	oz-in	516	558	558	658	849	1106
	Nm	3.64	3.94	3.94	4.65	6.00	7.81
Peak Current	A	95	81	32	61	62	40
Torque Constant (±10%)	oz-in/A	5.4	6.8	17.1	10.7	13.5	27.1
	Nm/A	0.038	0.048	0.121	0.076	0.096	0.192
No Load Speed	RPM	5994	7888	10254	3014	3981	6470
	rad/s	627	826	1073	315	416	677
BEMF Constant (±10%)	V/kRPM	4.0	5.0	12.6	7.6	10.0	20.0
	V/rad/s	0.038	0.048	0.121	0.079	0.096	0.192
Terminal Resistance (±12%)	Ohm	0.25	0.40	2.53	0.39	0.63	2.55
Terminal Inductance (±30%)	mH	0.23	0.38	2.37	0.45	0.72	2.88

Model No.		QB02302			QB02303		
Stall Torque (continuous)	oz-in	138			181		
	Nm	0.98			1.28		
Motor Constant	oz-in/√W	22.0			25.7		
	Nm/√W	0.155			0.181		
Elect. Time Constant	ms	1.22			1.25		
Mech. Time Constant	ms	0.94			0.92		
Thermal Resistance	°C/W	1.59			1.26		
Viscous Damping	oz-in/RPM	1.1E-3			1.5E-3		
	Nm/RPM	7.9E-6			1.1E-5		
Cogging Torque (max.)	oz-in	5.1			6.3		
	Nm	0.036			0.044		
Motor Inertia	oz-in-s²	3.3E-3			4.3E-3		
	kg-m²	2.3E-5			3.0E-5		
Motor Weight	oz	41.2			33.4		
	kg	1.17			0.95		
Poles	-	6					
Winding Constants		**A**	**B**	**C**	**A**	**B**	**C**
Design Voltage	V	24	40	130	24	40	130
Peak Torque	oz-in	1080	1396	1659	1107	1465	2212
	Nm	7.63	9.86	11.72	7.82	10.34	15.62
Peak Current	A	100	104	56	77	81	70
Torque Constant (±10%)	oz-in/A	10.7	13.4	29.4	14.3	17.8	31.4
	Nm/A	0.076	0.095	0.208	0.101	0.126	0.222
No Load Speed	RPM	3014	4035	5860	2269	3026	5588
	rad/s	315	422	624	237	316	585
BEMF Constant (±10%)	V/kRPM	7.9	9.9	21.8	10.5	13.2	23.2
	V/rad/s	0.076	0.095	0.208	0.101	0.126	0.222
Terminal Resistance (±12%)	Ohm	0.24	0.38	2.00	0.31	0.48	1.61
Terminal Inductance (±30%)	mH	0.29	0.46	2.22	0.39	0.60	1.87

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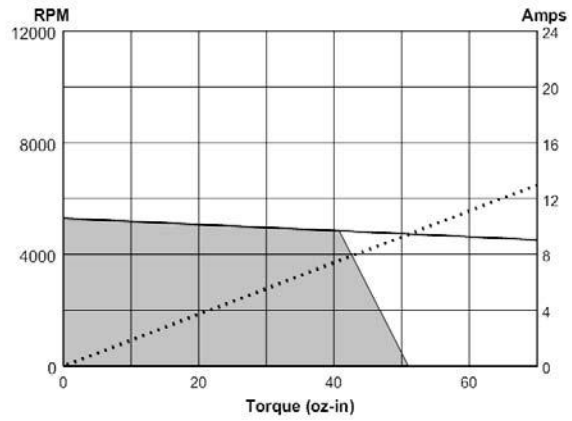
Servo Motors

QB023 Series Frameless Brushless Servo Motors

PERFORMANCE

QB02300-A00



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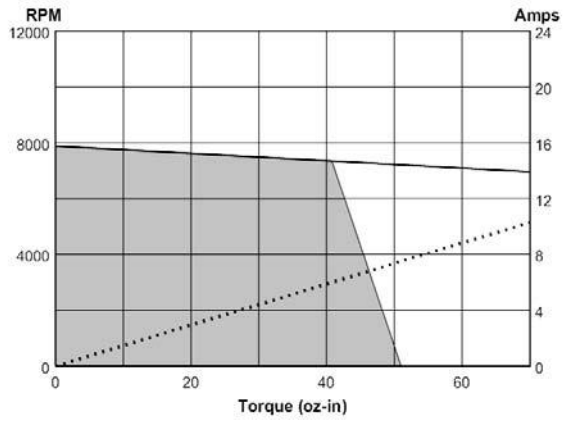

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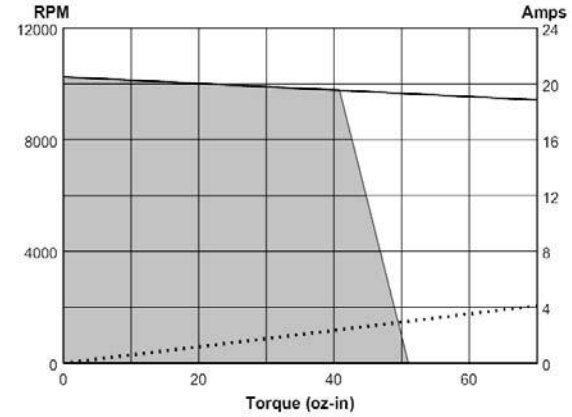

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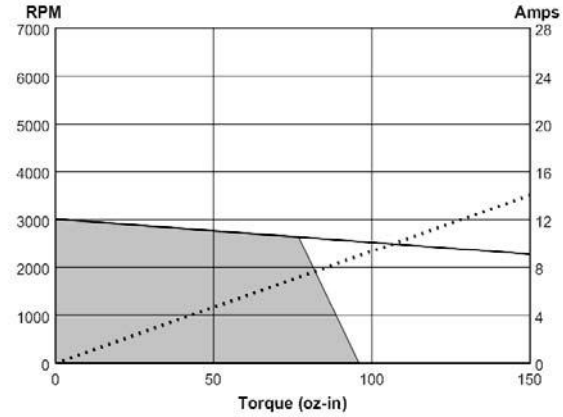

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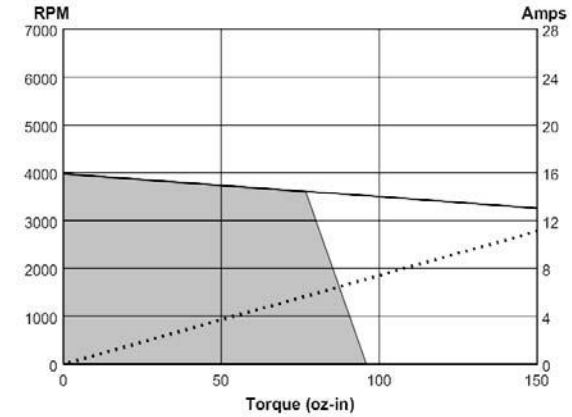

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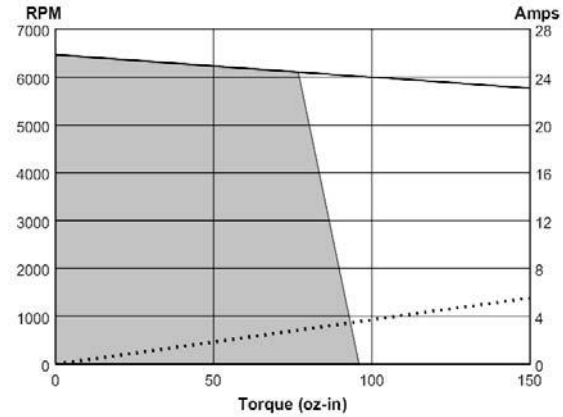

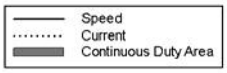

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QB023 Series Frameless Brushless Servo Motors

PERFORMANCE

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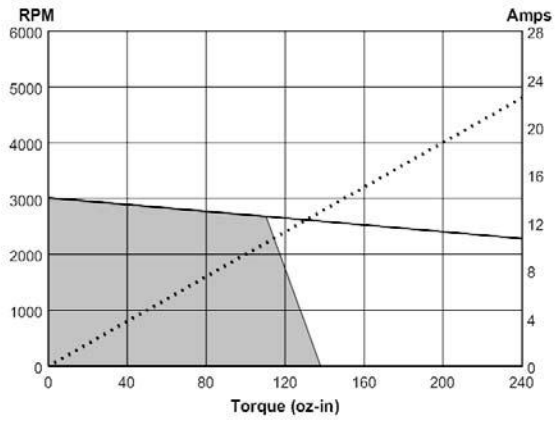

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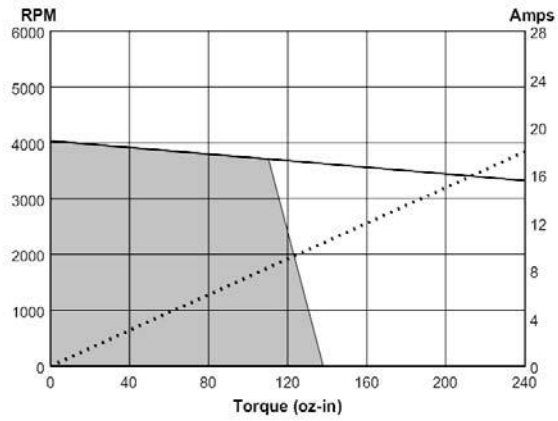

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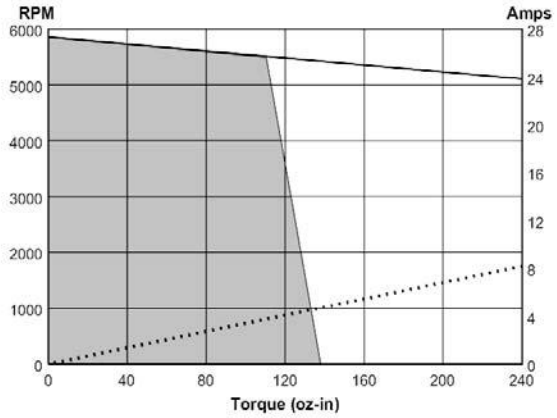

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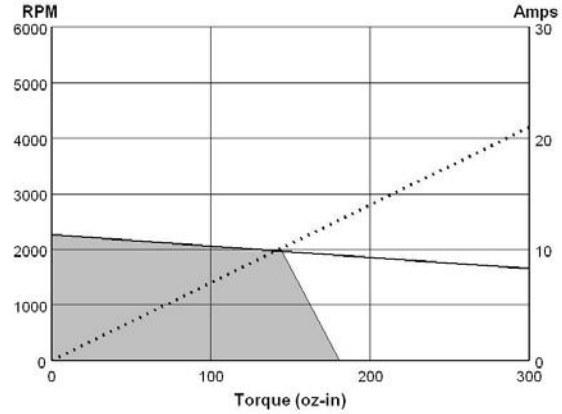

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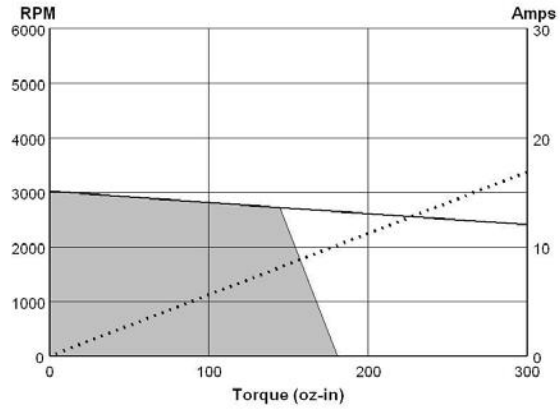

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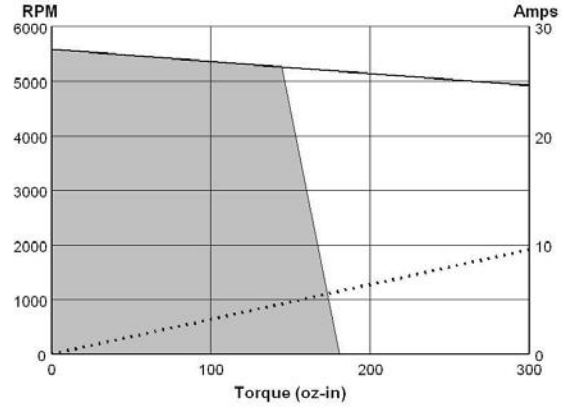

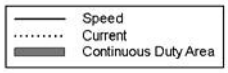

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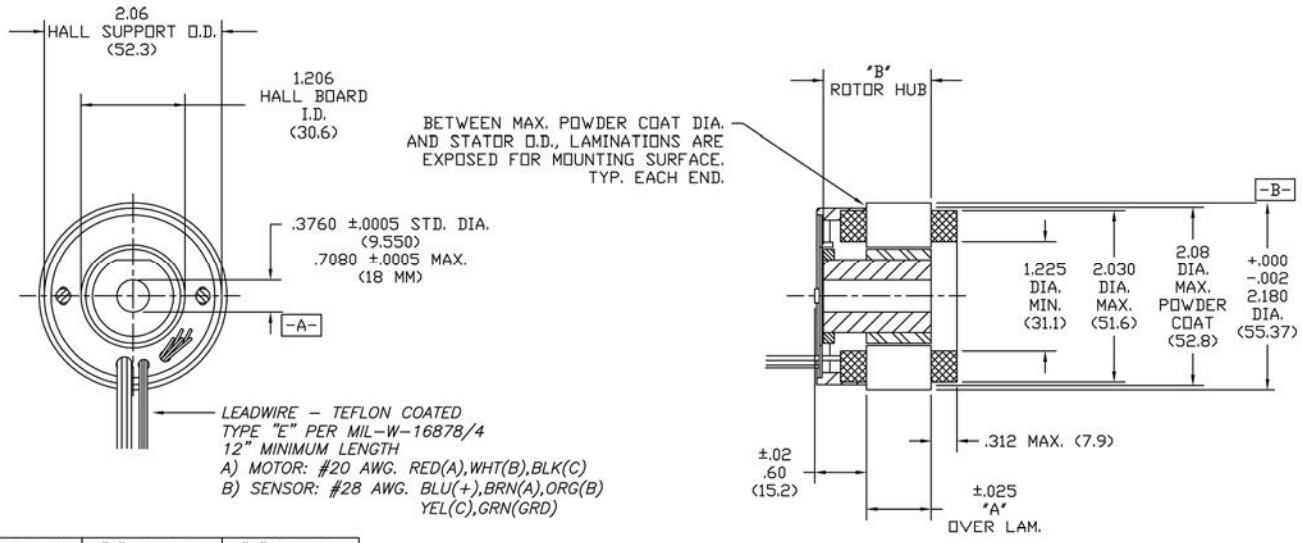
Purchase Source: GROUP SIX (USA)
info@grp6.com 800-433-3434

QB023 Series Frameless Brushless Servo Motors

DIMENSIONS

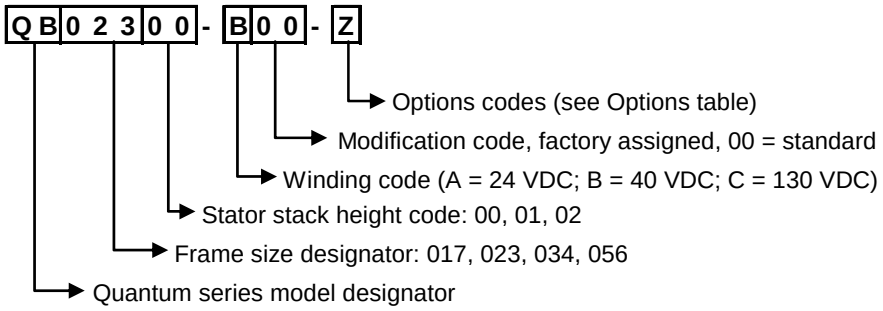


MODEL NO.	"A" STATOR	"B" ROTOR
QB02300	.750 (19.05)	1.250 (31.75)
QB02301	1.500 (38.10)	2.000 (50.80)
QB02302	2.250 (57.15)	2.750 (69.85)
QB02303	3.000 (76.2)	3.500 (88.90)

1. MOTOR SUPPLIED AS TWO SEPARATE COMPONENTS, ROTOR ASSEMBLY AND STATOR ASSEMBLY.
2. DIAMETERS "A" AND "B" TO BE CONCENTRIC WITHIN .002 WHEN MOUNTED
3. STD. HUB LENGTH IS 1.250" LG. .750" HUBS ARE PROVIDED FOR CUSTOMER STACKING BEYOND 1.250".

in (mm)

MODEL NUMBERING



Options
Z = RoHS compliant

Issued: Preliminary

Servo Motors

QB034 Series Frameless Brushless Servo Motors

SPECIFICATIONS

Model No.		QB03400			QB03401		
Stall Torque (continuous)	oz-in	115			222		
	Nm	0.81			1.57		
Motor Constant	oz-in/√W	20.1			34.7		
	Nm/√W	0.142			0.245		
Elect. Time Constant	ms	1.89			2.57		
Mech. Time Constant	ms	2.59			1.74		
Thermal Resistance	°C/W	1.87			1.51		
Viscous Damping	oz-in/RPM	7.3E-4			1.5E-3		
	Nm/RPM	5.1E-6			1.0E-5		
Cogging Torque (max.)	oz-in	3.5			5.0		
	Nm	0.025			0.035		
Motor Inertia	oz-in-s²	7.4E-3			1.5E-2		
	kg-m²	5.2E-5			1.0E-4		
Motor Weight	oz	21.4			41.3		
	kg	0.60			1.17		
Poles	-	6					
Winding Constants		**A**	**B**	**C**	**A**	**B**	**C**
Design Voltage	V	24	40	130	24	40	130
Peak Torque	oz-in	708	761	761	1535	1538	1538
	Nm	5.00	5.38	5.38	10.8	10.8	10.8
Peak Current	A	51	49	34	81	65	40
Torque Constant (±10%)	oz-in/A	13.7	15.4	21.8	18.8	23.5	37.6
	Nm/A	0.098	0.109	0.154	0.133	0.166	0.266
No Load Speed	RPM	2367	3499	8037	1722	2286	4665
	rad/s	247	366	841	180	240	488
BEMF Constant (±10%)	V/kRPM	10.1	11.4	16.1	13.9	17.4	27.8
	V/rad/s	0.097	0.109	0.154	0.133	0.166	0.266
Terminal Resistance (±12%)	Ohm	0.46	0.58	1.17	0.29	0.46	1.24
Terminal Inductance (±30%)	mH	0.88	1.11	2.24	0.75	1.18	3.03

Model No.		QB03402			QB03403		
Stall Torque (continuous)	oz-in	328			429		
	Nm	2.32			3.03		
Motor Constant	oz-in/√W	44.7			52.8		
	Nm/√W	0.316			0.369		
Elect. Time Constant	ms	2.78			2.37		
Mech. Time Constant	ms	1.57			1.53		
Thermal Resistance	°C/W	1.15			0.92		
Viscous Damping	oz-in/RPM	2.3E-3			3.2E-3		
	Nm/RPM	1.6E-5			2.2E-5		
Cogging Torque (max.)	oz-in	6.5			8.0		
	Nm	0.046			0.056		
Motor Inertia	oz-in-s²	2.2E-2			3.0E-2		
	kg-m²	1.5E-4			2.1E-4		
Motor Weight	oz	61.2			81.0		
	kg	1.73			2.29		
Poles	-	6					
Winding Constants		**A**	**B**	**C**	**A**	**B**	**C**
Design Voltage	V	24	40	130	24	40	130
Peak Torque	oz-in	2090	2307	2307	2516	2961	2961
	Nm	14.7	16.2	16.2	17.7	21.1	21.1
Peak Current	A	91	81	51	96	100	74
Torque Constant (±10%)	oz-in/A	22.9	28.2	45.0	26.0	29.4	39.6
	Nm/A	0.162	0.200	0.318	0.184	0.208	0.280
No Load Speed	RPM	1413	1913	3802	1244	1835	4430
	rad/s	148	200	408	130	192	464
BEMF Constant (±10%)	V/kRPM	16.9	20.9	33.3	19.2	21.7	29.3
	V/rad/s	0.162	0.200	0.318	0.184	0.208	0.280
Terminal Resistance (±12%)	Ohm	0.26	0.40	1.03	0.24	0.31	0.56
Terminal Inductance (±30%)	mH	0.73	1.11	2.82	0.59	0.75	1.36

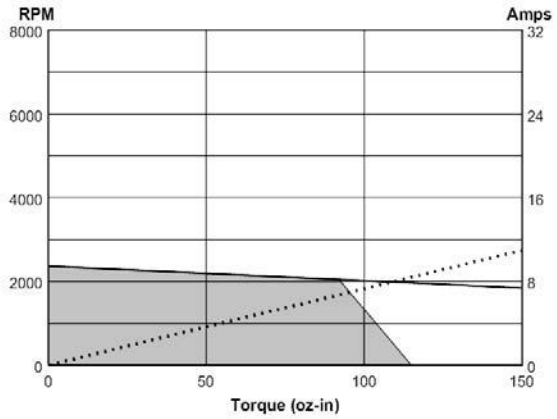
Purchase Source: GROUP SIX (USA)
info@grp6.com 800-433-3434

Servo Motors

QB034 Series Frameless Brushless Servo Motors

PERFORMANCE

QB03400-A00



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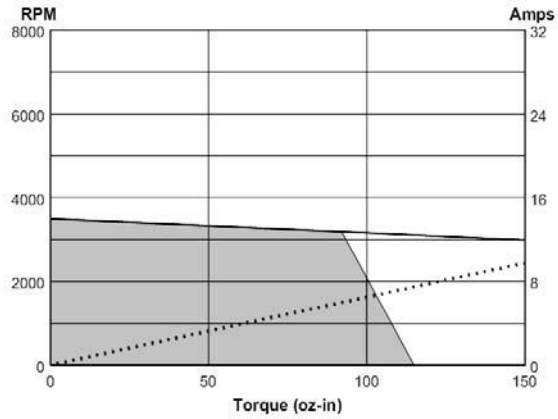

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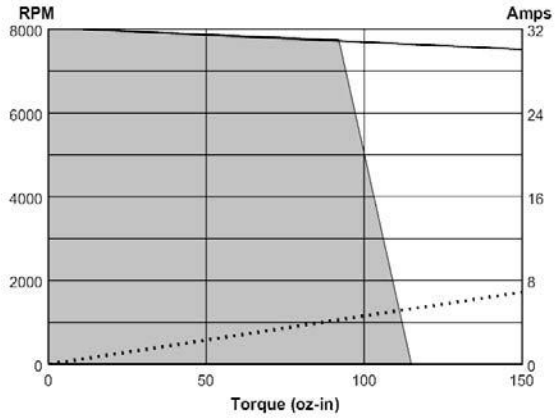

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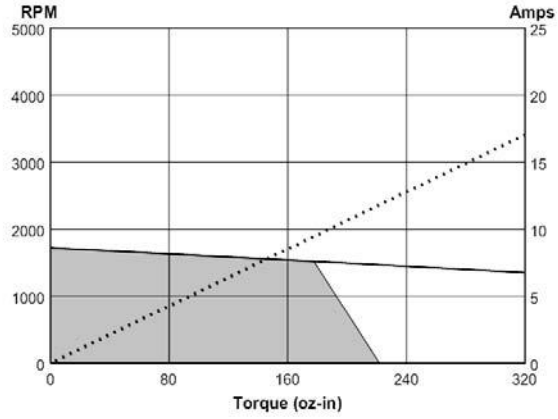

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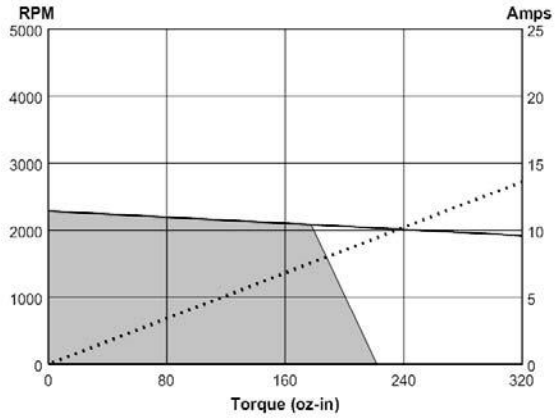

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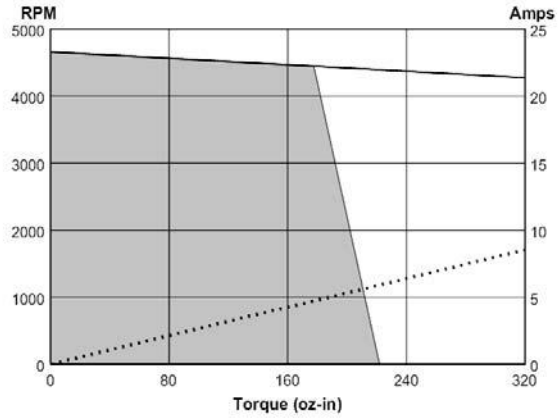

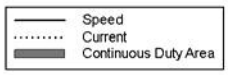

QB034 Series Frameless Brushless Servo Motors

PERFORMANCE

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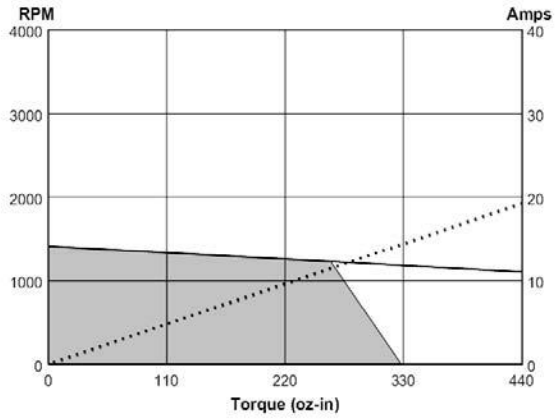

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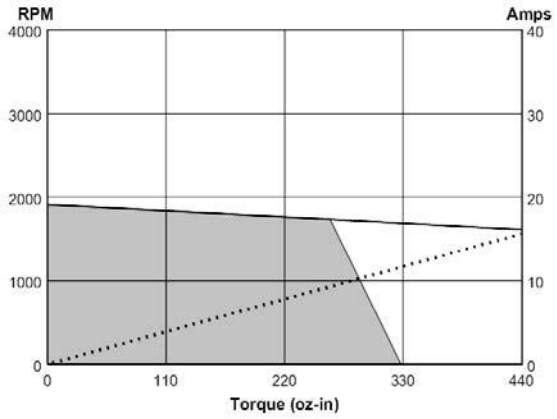

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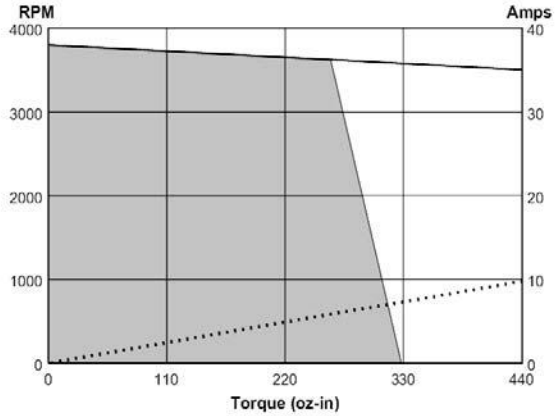

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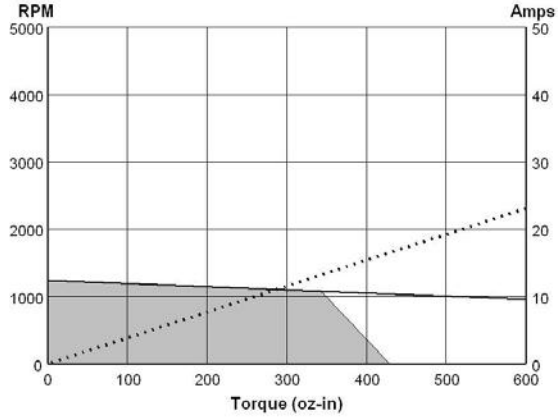

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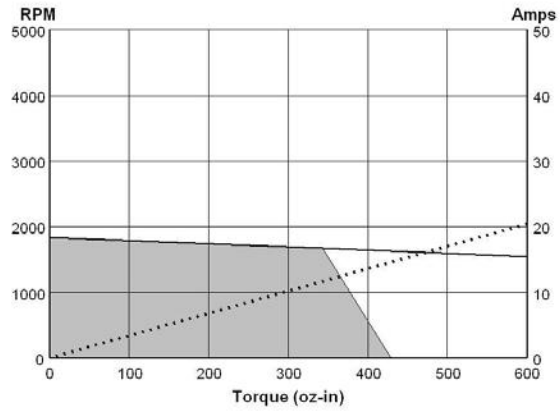

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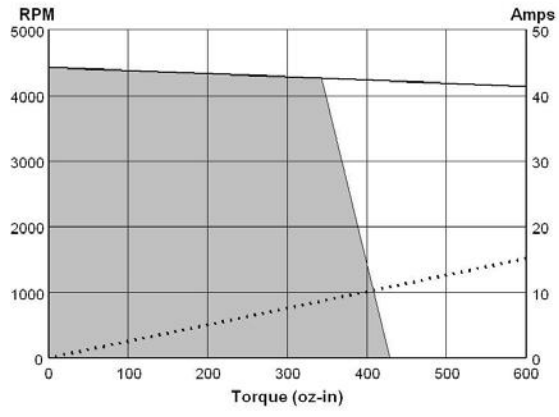

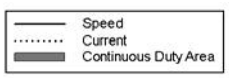

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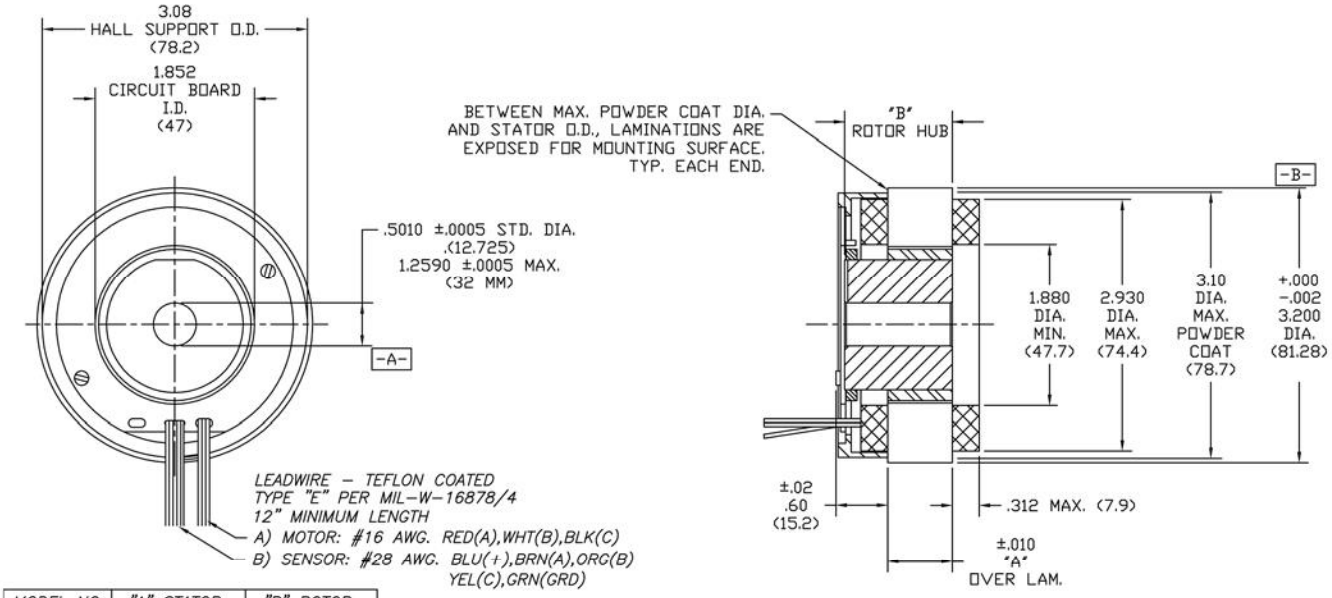
QB034 Series Frameless Brushless Servo Motors

DIMENSIONS

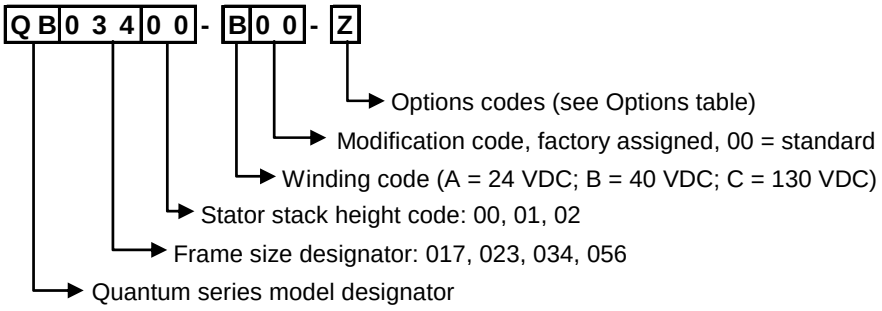


MODEL NO.	"A" STATOR	"B" ROTOR
QB03400	.750 (19.05)	1.250 (31.75)
QB03401	1.500 (38.10)	2.000 (50.80)
QB03402	2.250 (57.15)	2.750 (69.85)
QB03403	3.000 (76.20)	3.500 (88.90)

1. MOTOR SUPPLIED AS TWO SEPARATE COMPONENTS, ROTOR ASSEMBLY AND STATOR ASSEMBLY.
2. DIAMETERS "A" AND "B" TO BE CONCENTRIC WITHIN .002 WHEN MOUNTED.
3. STD. HUB LENGTH IS 1.250" LG. .750" HUBS ARE PROVIDED FOR CUSTOMER STACKING BEYOND 1.250"

in (mm)

MODEL NUMBERING



Options
Z = RoHS compliant

Issued: Preliminary

Purchase Source: GROUP SIX (USA)
info@grp6.com 800-433-3434

Servo Motors

QB056 Series Frameless Brushless Servo Motors

SPECIFICATIONS

Model No.		QB05600			QB05601		
Stall Torque (continuous)	ft-lb	3.17			5.92		
	Nm	4.29			8.03		
Motor Constant	ft-lb/√W	0.42			0.65		
	Nm/√W	0.56			0.88		
Elect. Time Constant	ms	5.09			5.49		
Mech. Time Constant	ms	1.13			0.93		
Thermal Resistance	°C/W	1.09			0.75		
Viscous Damping	ft-lb/RPM	1.7E-5			3.6E-5		
	Nm/RPM	2.3E-5			4.9E-5		
Cogging Torque (max.)	ft-lb	0.057			0.099		
	Nm	0.078			0.134		
Motor Inertia	ft-lb-s²	2.7E-4			5.4E-4		
	kg-m²	3.6E-4			7.3E-4		
Motor Weight	lb	3.79			8.81		
	kg	1.72			3.99		
Poles	-	8					
Winding Constants		**A**	**B**	**C**	**A**	**B**	**C**
Design Voltage	V	40	130	300	40	130	300
Peak Torque	ft-lb	22.3	22.3	22.3	43.7	43.7	43.7
	Nm	30.3	30.3	30.3	59.2	59.2	59.2
Peak Current	A	224	121	62	409	204	93
Torque Constant (±10%)	ft-lb/A	0.100	0.184	0.358	0.107	0.214	0.467
	Nm/A	0.135	0.250	0.486	0.145	0.290	0.633
No Load Speed	RPM	2830	4971	5896	2634	4281	4528
	rad/s	296	520	617	275	448	474
BEMF Constant (±10%)	V/kRPM	14.3	26.1	50.8	15.1	30.3	66.2
	V/rad/s	0.135	0.250	0.486	0.145	0.290	0.633
Terminal Resistance (±12%)	Ohm	0.056	0.196	0.761	0.027	0.107	0.511
Terminal Inductance (±30%)	mH	0.287	0.981	3.715	0.146	0.586	2.788

Model No.		QB05602			QB05603		
Stall Torque (continuous)	ft-lb	8.19			10.40		
	Nm	11.10			14.10		
Motor Constant	ft-lb/√W	0.809			0.957		
	Nm/√W	1.09			1.29		
Elect. Time Constant	ms	6.59			6.83		
Mech. Time Constant	ms	0.92			0.88		
Thermal Resistance	°C/W	0.60			0.52		
Viscous Damping	ft-lb/RPM	5.5E-5			7.4E-5		
	Nm/RPM	7.5E-5			1.0E-4		
Cogging Torque (max.)	ft-lb	0.141			0.182		
	Nm	0.191			0.247		
Motor Inertia	ft-lb-s²	8.1E-4			1.1E-3		
	kg-m²	1.1E-3			1.5E-3		
Motor Weight	lb	12.8			17.0		
	kg	5.84			7.76		
Poles	-						
Winding Constants		**A**	**B**	**C**	**A**	**B**	**C**
Design Voltage	V	40	130	300	40	130	300
Peak Torque	ft-lb	62.8	62.8	62.8	83.7	83.7	83.7
	Nm	85.1	85.1	85.1	113.5	113.5	113.5
Peak Current	A	498	263	124	640	299	154
Torque Constant (±10%)	ft-lb/A	0.126	0.238	0.504	0.131	0.280	0.541
	Nm/A	0.171	0.323	0.683	0.177	0.380	0.734
No Load Speed	RPM	2235	3847	4192	2156	3270	3903
	rad/s	234	402	439	225	342	408
BEMF Constant (±10%)	V/kRPM	17.8	33.8	71.5	18.5	39.7	76.8
	V/rad/s	0.171	0.323	0.683	0.177	0.380	0.734
Terminal Resistance (±12%)	Ohm	0.024	0.085	0.400	0.019	0.088	0.324
Terminal Inductance (±30%)	mH	0.160	0.570	2.556	0.127	0.585	2.187

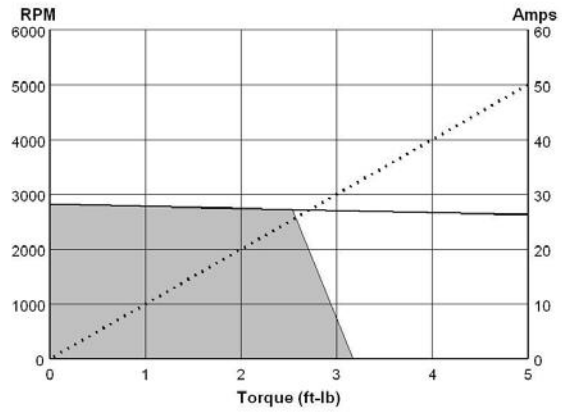
Issued: Preliminary

Servo Motors

QB056 Series Frameless Brushless Servo Motors

PERFORMANCE

QB05600-A00



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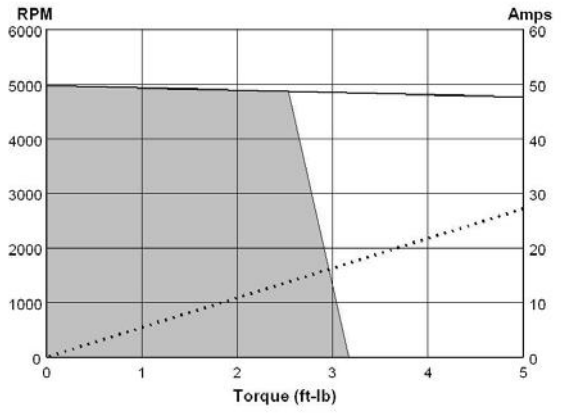

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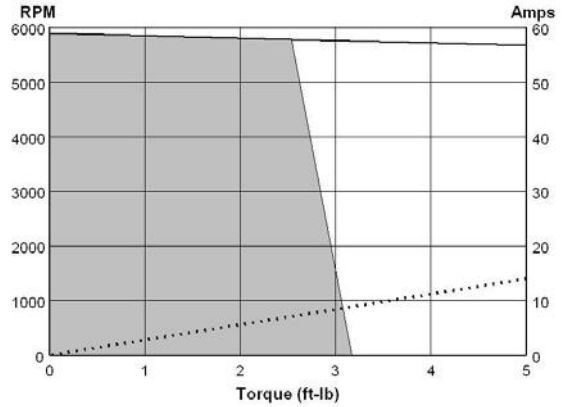

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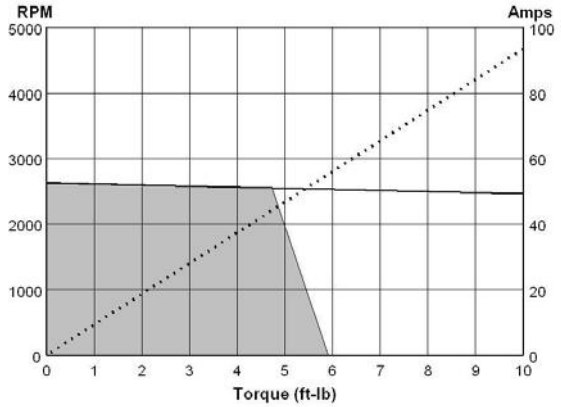

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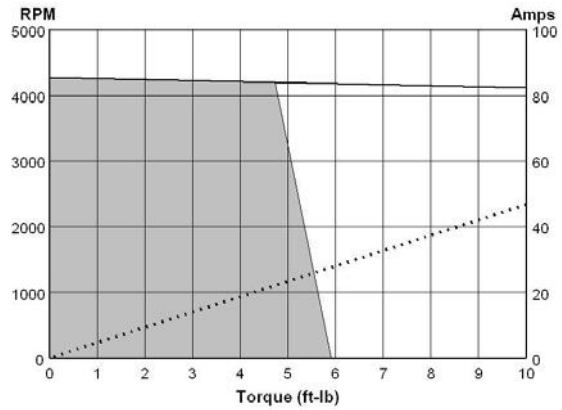

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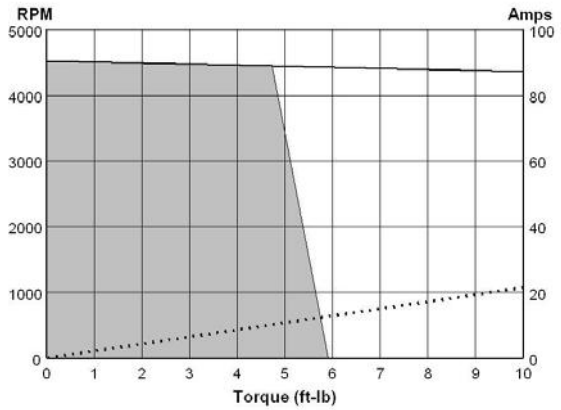
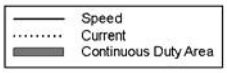


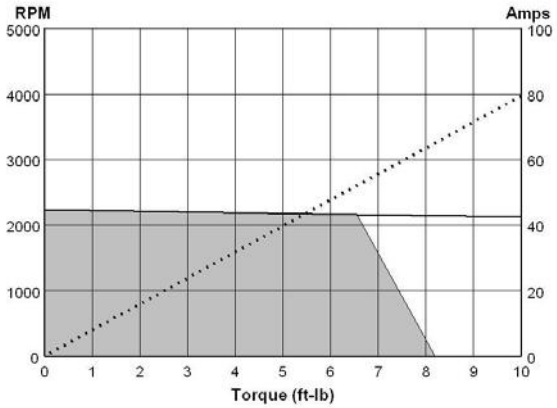


Issued: Preliminary

QB056 Series Frameless Brushless Servo Motors

PERFORMANCE

QB05602-A00



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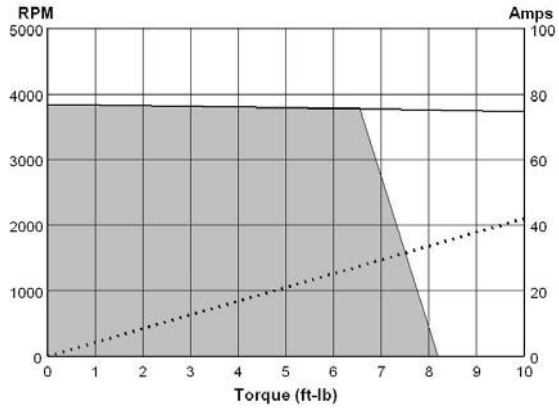

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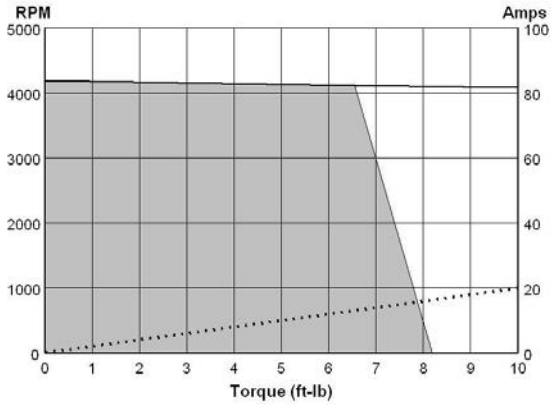

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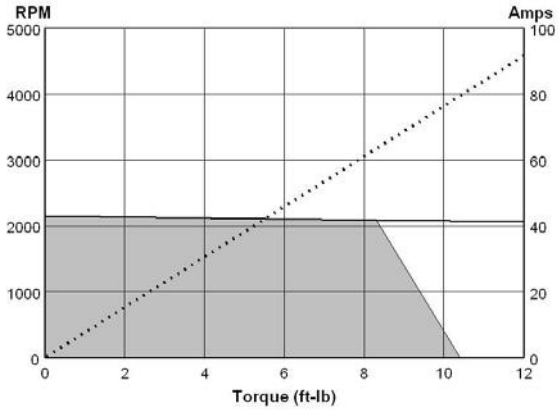

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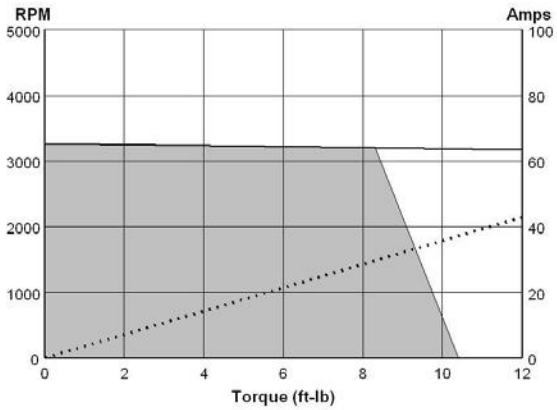

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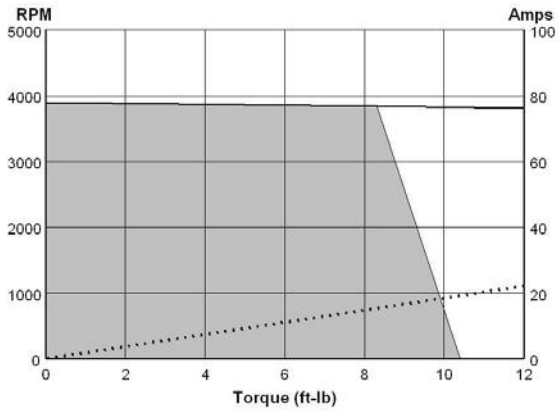

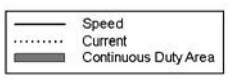

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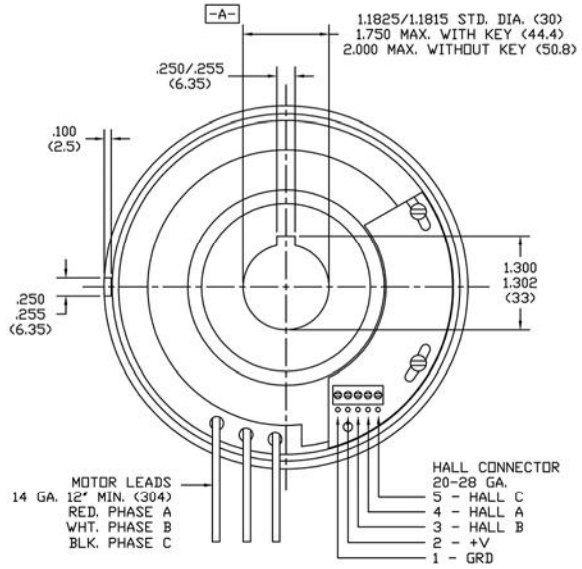
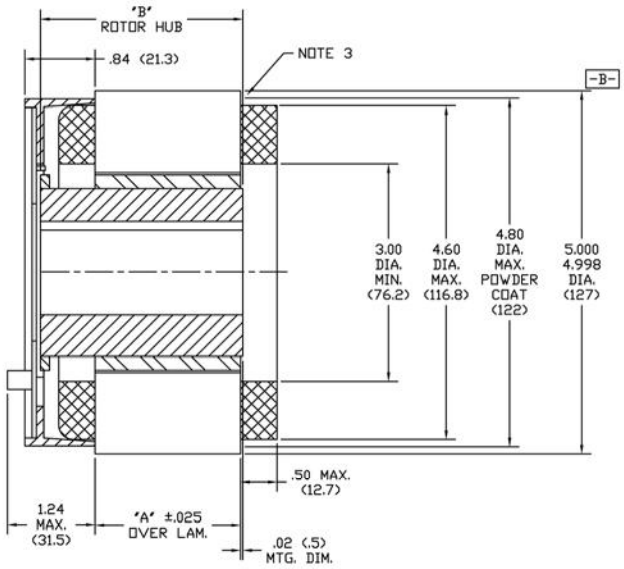
QB056 Series Frameless Brushless Servo Motors

DIMENSIONS



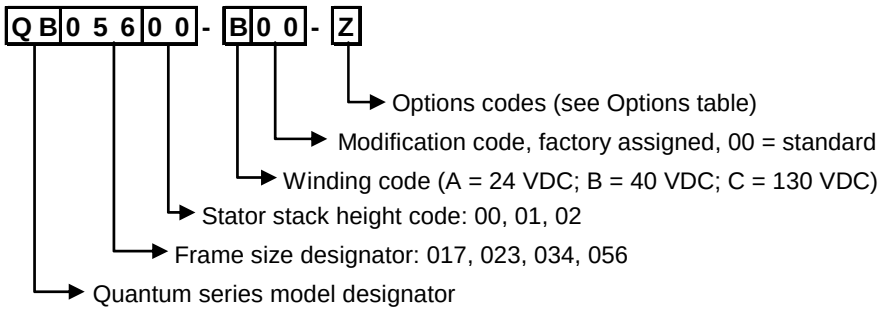
MODEL	"A" STATOR	"B" ROTOR
5600	1.0 (25.4)	1.78 (45.2)
5601	2.0 (50.8)	2.81 (71.3)
5602	3.0 (76.2)	3.81 (96.7)
5603	4.0 (101.6)	4.84 (122.9)
5604	5.0 (127)	5.84 (148.3)
5605	6.0 (152.4)	6.87 (174.5)



1. MOTOR SUPPLIED AS TWO SEPARATE COMPONENTS, ROTOR ASSEMBLY AND STATOR ASSEMBLY.
2. DIAMETERS "A" AND "B" TO BE CONCENTRIC WITHIN .005 WHEN MOUNTED.
3. BETWEEN STATOR O.D. AND POWDER COAT, LAMINATIONS ARE EXPOSED FOR MOUNTING SURFACE, BOTH ENDS.

in (mm)

MODEL NUMBERING



Options
Z = RoHS compliant

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NOTES

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