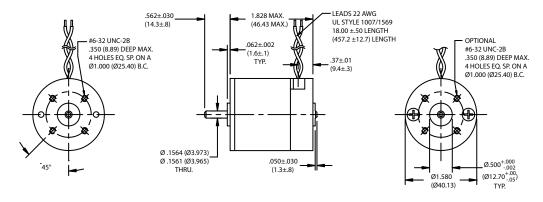
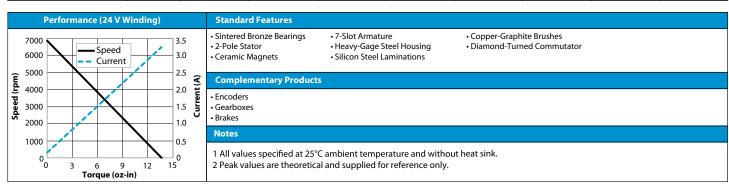
9232 Series

8540 Series Recommended for New Designs





		Part/Model Number								
Specification	Units	9232 9.55 V	9232 12.0 V	9232 15.2 V	9232 19.1 V	9232 24.0 V	9232 30.3 V	9232 38.2 V	9232 48.0 V	
Supply Voltage	VDC	9.55	12.0	15.2	19.1	24.0	30.3	38.2	48.0	
Continuous Torque	oz-in	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	
Continuous rorque	Nm	0.0169	0.0169	0.0169	0.0169	0.0169	0.0169	0.0169	0.0169	
Speed @ Cont. Torque	RPM	5100	5150	5280	5280	5290	5330	5320	5320	
Current @ Cont. Torque	Amps (A)	1.95	1.53	1.21	0.96	0.77	0.61	0.48	0.38	
Continuous Output Power	Watts (W)	9	9	9	9	9	9	9	9	
Motor Constant	oz-in/sqrt W	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	
Woldi Constant	Nm/sqrt W	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	
Targue Canatant	oz-in/A	1.73	2.20	2.77	3.50	4.40	5.53	7.00	8.80	
Torque Constant	Nm/A	0.012	0.016	0.02	0.025	0.031	0.039	0.049	0.062	
Voltage Constant	V/krpm	1.28	1.63	2.05	2.59	3.25	4.09	5.18	6.51	
Voltage Constant	V/rad/s	0.012	0.016	0.02	0.025	0.031	0.039	0.049	0.062	
Terminal Resistance	Ohms	1.25	1.93	2.99	4.70	7.38	11.6	18.5	29.2	
Inductance	mH	0.72	1.16	1.83	2.94	4.64	7.34	11.7	18.6	
No-Load Current	Amps (A)	0.41	0.32	0.25	0.20	0.16	0.13	0.10	0.080	
No-Load Speed	RPM	6920	6860	6910	6880	6870	6900	6880	6880	
Peak Current	Amps (A)	7.64	6.22	5.08	4.06	3.25	2.61	2.07	1.64	
Daals Tarress	oz-in	12.5	13.0	13.4	13.5	13.6	13.7	13.8	13.7	
Peak Torque	Nm	0.0883	0.0918	0.0946	0.0953	0.096	0.0967	0.0974	0.0967	
Oculorate Friedra Terrora	oz-in	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
Coulomb Friction Torque	Nm	0.0035	0.0035	0.0035	0.0035	0.0035	0.0035	0.0035	0.0035	
Viscous Demaiser Freder	oz-in/krpm	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	
Viscous Damping Factor	Nm s/rad	1.81E-6	1.81E-6	1.81E-6	1.81E-6	1.81E-6	1.81E-6	1.81E-6	1.81E-6	
Electrical Time Constant	ms	0.58	0.60	0.61	0.63	0.63	0.63	0.63	0.63	
Mechanical Time Constant	ms	16	15	15	15	15	15	14	14	
Thermal Time Constant	min	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	
Thermal Resistance	Celsius/W	23	23	23	23	23	23	23	23	
Max. Winding Temperature	Celsius	155	155	155	155	155	155	155	155	
<u> </u>	oz-in-sec2	0.00027	0.00027	0.00027	0.00027	0.00027	0.00027	0.00027	0.00027	
Rotor Inertia	kg-m2	1.91E-6	1.91E-6	1.91E-6	1.91E-6	1.91E-6	1.91E-6	1.91E-6	1.91E-6	
Maint (Mann)	oz	6.98	6.98	6.98	6.98	6.98	6.98	6.98	6.98	
Weight (Mass)	g	197.9	197.9	197.9	197.9	197.9	197.9	197.9	197.9	

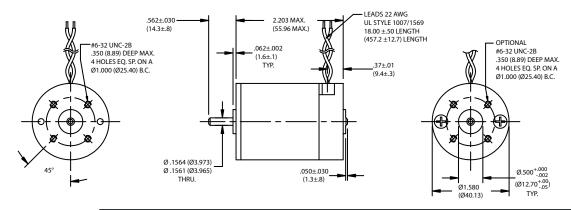




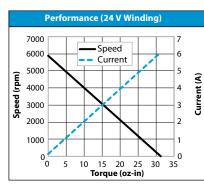
9233 Series







		Part/Model Number								
Specification	Units	9233 9.55 V	9233 12.0 V	9233 15.2 V	9233 19.1 V	9233 24.0 V	9233 30.3 V	9233 38.2 V	9233 48.0 V	
Supply Voltage	VDC	9.55	12.0	15.2	19.1	24.0	30.3	38.2	48.0	
Continuous Torque	oz-in	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	
Continuous roique	Nm	0.0332	0.0332	0.0332	0.0332	0.0332	0.0332	0.0332	0.0332	
Speed @ Cont. Torque	RPM	4570	4650	4840	4850	4870	4890	4900	4900	
Current @ Cont. Torque	Amps (A)	2.92	2.30	1.85	1.46	1.16	0.92	0.74	0.59	
Continuous Output Power	Watts (W)	16	16	17	17	17	17	17	17	
Motor Constant	oz-in/sqrt W	2.5	2.6	2.6	2.6	2.7	2.7	2.7	2.7	
Woldi Constant	Nm/sqrt W	0.018	0.018	0.018	0.018	0.019	0.019	0.019	0.019	
Torque Constant	oz-in/A	2.10	2.67	3.31	4.20	5.28	6.68	8.40	10.6	
Torque Constant	Nm/A	0.015	0.019	0.023	0.03	0.037	0.047	0.059	0.075	
Valtage Constant	V/krpm	1.55	1.97	2.45	3.11	3.90	4.94	6.21	7.81	
Voltage Constant	V/rad/s	0.015	0.019	0.023	0.03	0.037	0.047	0.059	0.075	
Terminal Resistance	Ohms	0.72	1.08	1.63	2.53	3.94	6.21	9.	15.4	
Inductance	mH	0.52	0.84	1.29	2.08	3.29	5.27	8.32	13.2	
No-Load Current	Amps (A)	0.38	0.30	0.24	0.19	0.15	0.12	0.10	0.080	
No-Load Speed	RPM	5850	5800	5930	5880	5880	5860	5870	5870	
Peak Current	Amps (A)	13.3	11.1	9.33	7.55	6.09	4.88	3.91	3.11	
Dook Torque	oz-in	27.1	28.9	30.1	30.9	31.4	31.8	32.0	32.0	
Peak Torque	Nm	0.1913	0.204	0.2125	0.2182	0.2217	0.2245	0.2259	0.2259	
Coulomb Friction Torque	oz-in	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	
Coulomb Friction Torque	Nm	0.0042	0.0042	0.0042	0.0042	0.0042	0.0042	0.0042	0.0042	
Viscous Damping Factor	oz-in/krpm	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	
Viscous Damping Factor	Nm s/rad	2.28E-6	2.28E-6	2.28E-6	2.28E-6	2.28E-6	2.28E-6	2.28E-6	2.28E-6	
Electrical Time Constant	ms	0.72	0.78	0.79	0.82	0.84	0.85	0.85	0.85	
Mechanical Time Constant	ms	11	10	10	9.3	9.2	9.1	9.0	9.0	
Thermal Time Constant	min	11	11	11	11	11	11	11	11	
Thermal Resistance	Celsius/W	19	19	19	19	19	19	19	19	
Max. Winding Temperature	Celsius	155	155	155	155	155	155	155	155	
Dates Incetic	oz-in-sec2	0.00046	0.00046	0.00046	0.00046	0.00046	0.00046	0.00046	0.00046	
Rotor Inertia	kg-m2	3.25E-6	3.25E-6	3.25E-6	3.25E-6	3.25E-6	3.25E-6	3.25E-6	3.25E-6	
Weight (Mage)	OZ	8.90	8.90	8.90	8.90	8.90	8.90	8.90	8.90	
Weight (Mass)	g	252.3	252.3	252.3	252.3	252.3	252.3	252.3	252.3	



Standard Features

- Sintered Bronze Bearings
- 2-Pole Stator
- Ceramic Magnets
- 7-Slot Armature
- Heavy-Gage Steel Housing
- · Silicon Steel Laminations
- Copper-Graphite Brushes
- Diamond-Turned Commutator

Complementary Products

- Encoders
- Gearboxes Brakes

Notes

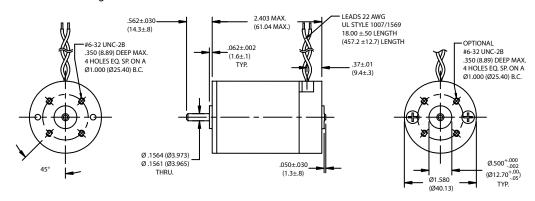
- 1 All values specified at 25°C ambient temperature and without heat sink.
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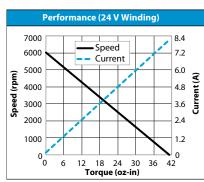
9234 Series

8540 Series Recommended for New Designs





		Part/Model Number								
Specification	Units	9234 9.55 V	9234 12.0 V	9234 15.2 V	9234 19.1 V	9234 24.0 V	9234 30.3 V	9234 38.2 V	9234 48.0 V	
Supply Voltage	VDC	9.55	12.0	15.2	19.1	24.0	30.3	38.2	48.0	
Continuous Torque	oz-in	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	
Continuous Torque	Nm	0.0431	0.0431	0.0431	0.0431	0.0431	0.0431	0.0431	0.0431	
Speed @ Cont. Torque	RPM	4670	4800	4900	5050	5040	5090	5090	5090	
Current @ Cont. Torque	Amps (A)	3.82	3.02	2.37	1.91	1.50	1.20	0.94	0.75	
Continuous Output Power	Watts (W)	21	22	22	23	23	23	23	23.0	
Motor Constant	oz-in/sqrt W	2.7	2.8	2.9	3.0	3.0	3.0	3.0	3.0	
Wotor Constant	Nm/sqrt W	0.019	0.02	0.02	0.021	0.021	0.021	0.021	0.021	
Torque Constant	oz-in/A	2.04	2.58	3.29	4.07	5.165	6.50	8.22	10.3	
Torque Constant	Nm/A	0.014	0.018	0.023	0.029	0.036	0.046	0.058	0.073	
Voltage Constant	V/krpm	1.51	1.91	2.43	3.01	3.82	4.81	6.08	7.65	
Voltage Constant	V/rad/s	0.014	0.018	0.023	0.029	0.036	0.046	0.058	0.073	
Terminal Resistance	Ohms	0.56	0.83	1.26	1.89	2.96	4.62	7.30	11.5	
Inductance	mH	0.39	0.63	1.02	1.56	2.51	3.97	6.35	10.0	
No-Load Current	Amps (A)	0.42	0.33	0.26	0.21	0.16	0.13	0.10	0.080	
No-Load Speed	RPM	6050	6020	5990	6090	6030	6060	6040	6030	
Peak Current	Amps (A)	17.1	14.5	12.1	10.1	8.1	6.56	5.23	4.17	
Peak Torque	oz-in	33.9	36.4	38.8	40.3	41.1	41.8	42.2	42.3	
Feak Torque	Nm	0.2393	0.257	0.2739	0.2845	0.2902	0.2951	0.2979	0.2986	
Coulomb Friction Torque	oz-in	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	
Coulomb Friction Torque	Nm	0.0042	0.0042	0.0042	0.0042	0.0042	0.0042	0.0042	0.0042	
Viscous Demning Factor	oz-in/krpm	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	
Viscous Damping Factor	Nm s/rad	2.62E-6	2.62E-6	2.62E-6	2.62E-6	2.62E-6	2.62E-6	2.62E-6	2.62E-6	
Electrical Time Constant	ms	0.70	0.76	0.81	0.83	0.85	0.86	0.87	0.87	
Mechanical Time Constant	ms	11	10	10	10	9.3	9.1	9.0	9.0	
Thermal Time Constant	min	12	12	12	12	12	12	12	12	
Thermal Resistance	Celsius/W	17	17	17	17	17	17	17	17	
Max. Winding Temperature	Celsius	155	155	155	155	155	155	155	155	
Rotor Inertia	oz-in-sec2	0.00059	.00059	.00059	.00059	.00059	.00059	.00059	.00059	
notor mertia	kg-m2	4.17E-6	4.17E-6	4.17E-6	4.17E-6	4.17E-6	4.17E-6	4.17E-6	4.17E-6	
Weight (Mass)	OZ	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	
vveigitt (iviass)	g	286.3	286.3	286.3	286.3	286.3	286.3	286.3	286.3	



Standard Features

- Sintered Bronze Bearings 7-Slot Armature
- 2-Pole Stator Ceramic Magnets
- Heavy-Gage Steel Housing
- Silicon Steel Laminations
- Copper-Graphite Brushes
- Diamond-Turned Commutator

Complementary Products

- Encoders
- Gearboxes
- Brakes

Notes

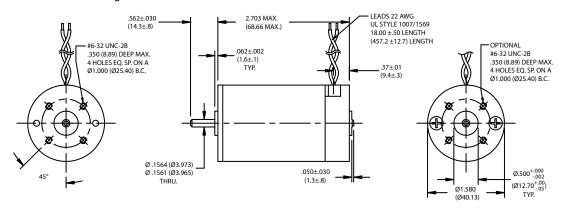
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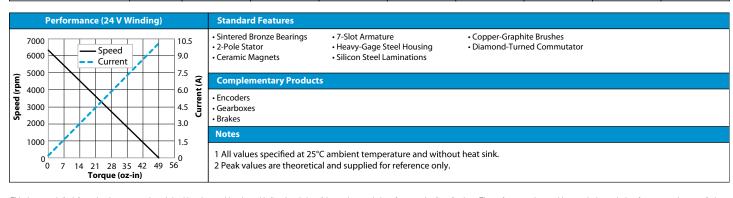
9235 Series

8540 Series Recommended for New Designs



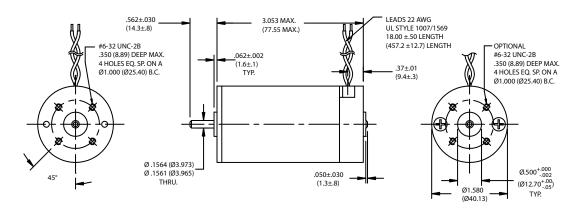


		Part/Model Number							
Specification	Units	9235 9.55 V	9235 12.0 V	9235 15.2 V	9235 19.1 V	9235 24.0 V	9235 30.3 V	9235 38.2 V	9235 48.0 V
Supply Voltage	VDC	9.55	12.0	15.2	19.1	24.0	30.3	38.2	48.0
Continuous Torque	oz-in	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Continuous rorque	Nm	0.0487	0.0487	0.0487	0.0487	0.0487	0.0487	0.0487	0.0487
Speed @ Cont. Torque	RPM	4790	5090	5220	5250	5380	5390	5420	5400
Current @ Cont. Torque	Amps (A)	4.39	3.55	2.80	2.21	1.78	1.40	1.11	0.88
Continuous Output Power	Watts (W)	24	26	27	27	27	28	28	28
Motor Constant	oz-in/sqrt W	2.9	3.0	3.1	3.2	3.2	3.3	3.3	3.3
Woldi Constant	Nm/sqrt W	0.02	0.021	0.022	0.023	0.023	0.023	0.023	0.023
Targua Canatant	oz-in/A	2.00	2.47	3.14	3.99	4.94	6.27	7.89	9.98
Torque Constant	Nm/A	0.014	0.017	0.022	0.028	0.035	0.044	0.056	0.07
Valtaria Caratarit	V/krpm	1.48	1.83	2.32	2.95	3.65	4.64	5.83	7.38
Voltage Constant	V/rad/s	0.014	0.017	0.022	0.028	0.035	0.044	0.056	0.07
Terminal Resistance	Ohms	0.48	0.68	1.02	1.56	2.37	3.72	5.83	9.23
Inductance	mH	0.33	0.51	0.82	1.33	2.05	3.30	5.21	8.35
No-Load Current	Amps (A)	0.47	0.38	0.30	0.24	0.19	0.15	0.12	0.090
No-Load Speed	RPM	6180	6300	6290	6220	6320	6290	6300	6260
Peak Current	Amps (A)	19.9	17.6	14.9	12.2	10.1	8.15	6.55	5.20
Deals Tarres	oz-in	38.9	42.6	45.9	47.9	49.1	50.1	50.8	51.0
Peak Torque	Nm	0.2746	0.3008	0.3241	0.3382	0.3466	0.3537	0.3586	0.3601
Caulamb Friation Targus	oz-in	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
Coulomb Friction Torque	Nm	0.0046	0.0046	0.0046	0.0046	0.0046	0.0046	0.0046	0.0046
Vicesus Demaries Feeter	oz-in/krpm	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045
Viscous Damping Factor	Nm s/rad	3.02E-6	3.02E-6	3.02E-6	3.02E-6	3.02E-6	3.02E-6	3.02E-6	3.02E-6
Electrical Time Constant	ms	0.69	0.75	0.80	0.85	0.86	0.89	0.89	0.90
Mechanical Time Constant	ms	13	12	12	11	11	11	10	10
Thermal Time Constant	min	13	13	13	13	13	13	13	13
Thermal Resistance	Celsius/W	15	15	15	15	15	15	15	15
Max. Winding Temperature	Celsius	155	155	155	155	155	155	155	155
Dates Inartic	oz-in-sec2	0.00079	0.00079	0.00079	0.00079	0.00079	0.00079	0.00079	0.00079
Rotor Inertia	kg-m2	5.58E-6	5.58E-6	5.58E-6	5.58E-6	5.58E-6	5.58E-6	5.58E-6	5.58E-6
Weight (Mage)	OZ	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Weight (Mass)	g	340.2	340.2	340.2	340.2	340.2	340.2	340.2	340.2

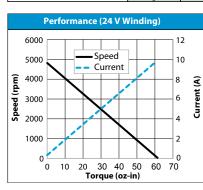








		Part/Model Number								
Specification	Units	9236 9.55 V	9236 12.0 V	9236 15.2 V	9236 19.1 V	9236 24.0 V	9236 30.3 V	9236 38.2 V	9236 48.0 V	
Supply Voltage	VDC	9.55	12.0	15.2	19.1	24.0	30.3	38.2	48.0	
Continuous Torque	oz-in	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	
Continuous Torque	Nm	0.0671	0.0671	0.0671	0.0671	0.0671	0.0671	0.0671	0.0671	
Speed @ Cont. Torque	RPM	3530	3750	3850	3880	3980	3980	4010	3990	
Current @ Cont. Torque	Amps (A)	4.52	3.65	2.88	2.26	1.82	1.44	1.14	0.90	
Continuous Output Power	Watts (W)	25	26	27	27	28	28	28	28	
Motor Constant	oz-in/sqrt W	3.7	3.9	4.0	4.1	4.1	4.2	4.2	4.2	
Motor Constant	Nm/sqrt W	0.026	0.028	0.028	0.029	0.029	0.03	0.03	0.03	
Torque Constant	oz-in/A	2.62	3.25	4.12	5.24	6.49	8.24	10.4	13.1	
Torque Constant	Nm/A	0.019	0.023	0.029	0.037	0.046	0.058	0.073	0.093	
Valtaria Caratari	V/krpm	1.94	2.40	3.05	3.87	4.80	6.09	7.66	9.69	
Voltage Constant	V/rad/s	0.019	0.023	0.029	0.037	0.046	0.058	0.073	0.093	
Terminal Resistance	Ohms	0.50	0.71	1.07	1.64	2.49	3.91	6.14	9.72	
Inductance	mH	0.43	0.66	1.06	1.72	2.63	4.24	6.70	10.7	
No-Load Current	Amps (A)	0.40	0.33	0.26	0.20	0.16	0.13	0.10	0.080	
No-Load Speed	RPM	4730	4800	4800	4750	4820	4790	4810	4770	
Peak Current	Amps (A)	19.1	16.9	14.2	11.6	9.64	7.75	6.22	4.94	
Deal Terrina	oz-in	49.0	53.9	57.5	60.0	61.5	62.8	63.4	63.7	
Peak Torque	Nm	0.3459	0.3805	0.406	0.4236	0.4342	0.4434	0.4476	0.4497	
Osulassk Friedra Tarrus	oz-in	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	
Coulomb Friction Torque	Nm	0.0056	0.0056	0.0056	0.0056	0.0056	0.0056	0.0056	0.0056	
Vices Demains Frates	oz-in/krpm	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	
Viscous Damping Factor	Nm s/rad	3.56E-6	3.56E-6	3.56E-6	3.56E-6	3.56E-6	3.56E-6	3.56E-6	3.56E-6	
Electrical Time Constant	ms	0.86	0.93	0.99	1.0	1.1	1.1	1.1	1.1	
Mechanical Time Constant	ms	10	10	8.9	8.5	8.4	8.2	8.1	8.0	
Thermal Time Constant	min	14	14	14	14	14	14	14	14	
Thermal Resistance	Celsius/W	14	14	14	14	14	14	14	14	
Max. Winding Temperature	Celsius	155	155	155	155	155	155	155	155	
Datas Inartia	oz-in-sec2	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	
Rotor Inertia	kg-m2	7.06E-6	7.06E-6	7.06E-6	7.06E-6	7.06E-6	7.06E-6	7.06E-6	7.06E-6	
Maight (Maga)	OZ	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	
Weight (Mass)	g	391.2	391.2	391.2	391.2	391.2	391.2	391.2	391.2	



Standard Features

- 2-Pole Stator Hea
- Ceramic Magnets
 Silicon Steel Laminations
- Copper-Graphite Brushes
- Heavy-Gage Steel Housing
 Diamond-Turned Commutator

Complementary Products

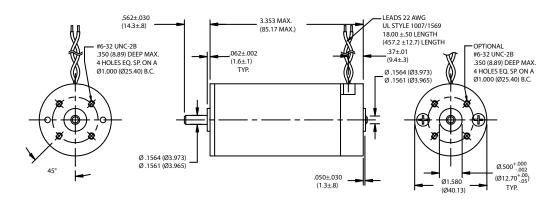
- Encoders
- Gearboxes
- Brakes

Note

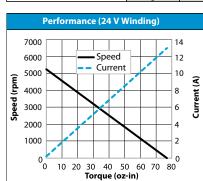
- 1 All values specified at 25°C ambient temperature and without heat sink.
- 2 Peak values are theoretical and supplied for reference only.







		Part/Model Number								
Specification	Units	9237 12.0 V	9237 15.2 V	9237 19.1 V	9237 24.0 V	9237 30.3 V	9237 38.2 V	9237 48.0 V	9237 60.0 V	
Supply Voltage	VDC	12.0	15.2	19.1	24.0	30.3	38.2	48.0	60.0	
Continuous Torque	oz-in	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	
Continuous rorque	Nm	0.0812	0.0812	0.0812	0.0812	0.0812	0.0812	0.0812	0.0812	
Speed @ Cont. Torque	RPM	4050	4310	4360	4370	4490	4490	4490	4490	
Current @ Cont. Torque	Amps (A)	4.73	3.81	3.00	2.36	1.91	1.51	1.19	0.95	
Continuous Output Power	Watts (W)	34	37	37	37	38	38	38	38	
Motor Constant	oz-in/sqrt W	4.0	4.2	4.3	4.4	4.4	4.5	4.5	4.5	
Woldi Constant	Nm/sqrt W	0.028	0.03	0.03	0.031	0.031	0.032	0.032	0.032	
Torque Constant	oz-in/A	3.00	3.72	4.72	6.00	7.43	9.40	11.9	15.0	
Torque Constant	Nm/A	0.021	0.026	0.033	0.042	0.052	0.066	0.084	0.106	
Valtage Constant	V/krpm	2.22	2.75	3.49	4.44	5.49	6.95	8.80	11.1	
Voltage Constant	V/rad/s	0.021	0.026	0.033	0.042	0.052	0.066	0.084	0.106	
Terminal Resistance	Ohms	0.55	0.79	1.20	1.85	2.82	4.45	6.98	11.1	
Inductance	mH	0.49	0.75	1.21	1.97	3.01	4.85	7.67	12.3	
No-Load Current	Amps (A)	0.37	0.30	0.23	0.18	0.15	0.12	0.090	0.080	
No-Load Speed	RPM	5210	5330	5290	5230	5330	5310	5280	5280	
Peak Current	Amps (A)	21.8	19.2	15.9	13.0	10.7	8.58	6.88	5.47	
Daals Tarress	oz-in	64.3	70.5	74.0	76.8	78.7	79.6	80.8	80.9	
Peak Torque	Nm	0.454	0.4977	0.5224	0.5422	0.5556	0.562	0.5704	0.5712	
Carriage Frietian Tarrer	oz-in	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	
Coulomb Friction Torque	Nm	0.0056	0.0056	0.0056	0.0056	0.0056	0.0056	0.0056	0.0056	
Vicesus Demoise Feeter	oz-in/krpm	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	
Viscous Damping Factor	Nm s/rad	3.69E-6	3.69E-6	3.69E-6	3.69E-6	3.69E-6	3.69E-6	3.69E-6	3.69E-6	
Electrical Time Constant	ms	0.89	0.95	1.0	1.1	1.1	1.1	1.1	1.1	
Mechanical Time Constant	ms	10	10	9.2	8.7	8.7	8.6	8.4	8.4	
Thermal Time Constant	min	14	14	14	14	14	14	14	14	
Thermal Resistance	Celsius/W	11	11	11	11	11	11	11	11	
Max. Winding Temperature	Celsius	155	155	155	155	155	155	155	155	
Datas Islandia	oz-in-sec2	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	
Rotor Inertia	kg-m2	8.47E-6	8.47E-6	8.47E-6	8.47E-6	8.47E-6	8.47E-6	8.47E-6	8.47E-6	
\\\\-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	oz	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	
Weight (Mass)	g	439.4	439.4	439.4	439.4	439.4	439.4	439.4	439.4	



Standard Features

- Sintered Bronze Bearings 7-Slot Armature
- 2-Pole Stator Ceramic Magnets
- Heavy-Gage Steel Housing
- Silicon Steel Laminations
- · Copper-Graphite Brushes
- · Diamond-Turned Commutator

Complementary Products

- Encoders
- Gearboxes
- Brakes

Notes

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