



Specification	Units	Part/Model Number								
		6212 6.0 V	6212 7.58 V	6212 9.55 V	6212 12.0 V	6212 15.2 V	6212 19.1 V	6212 24.0 V	6212 30.3 V	
Supply Voltage	VDC	6.0	7.58	9.55	12.0	15.2	19.1	24.0	30.3	
Continuous Torque	oz-in	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	
	Nm	0.0056	0.0056	0.0056	0.0056	0.0056	0.0056	0.0056	0.0056	
Speed @ Cont. Torque	RPM	4650	4630	4590	4560	4620	4690	4660	4480	
Current @ Cont. Torque	Amps (A)	1.11	0.88	0.70	0.56	0.44	0.35	0.28	0.22	
Continuous Output Power	Watts (W)	2.8	2.7	2.7	2.7	2.7	2.8	2.8	2.7	
Motor Constant	oz-in/sqrt W	0.67	0.67	0.67	0.66	0.67	0.67	0.67	0.66	
	Nm/sqrt W	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	
Torque Constant	oz-in/A	0.93	1.17	1.47	1.85	2.34	2.95	3.70	4.68	
	Nm/A	0.007	0.008	0.01	0.013	0.017	0.021	0.026	0.033	
Voltage Constant	V/krpm	0.69	0.87	1.09	1.37	1.73	2.18	2.74	3.46	
	V/rad/s	0.007	0.008	0.01	0.013	0.017	0.021	0.026	0.033	
Terminal Resistance	Ohms	1.90	3.05	4.88	7.75	123	19.1	30.4	50.2	
Inductance	mH	1.01	1.62	2.57	4.05	6.49	10.3	16.2	26.0	
No-Load Current	Amps (A)	0.18	0.14	0.11	0.090	0.071	0.056	0.045	0.036	
No-Load Speed	RPM	8060	8100	8110	8100	8110	8100	8110	8070	
Peak Current	Amps (A)	3.16	2.49	1.96	1.55	1.24	1.00	0.79	0.60	
Peak Torque	oz-in	2.77	7.27	2.71	2.70	2.73	2.78	2.76	2.66	
	Nm	0.0196	0.0513	0.0191	0.0191	0.0193	0.0196	0.0195	0.0188	
Coulomb Friction Torque	oz-in	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	
	Nm	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	
Viscous Damping Factor	oz-in/krpm	0.0072	0.0072	0.0072	0.0072	0.0072	0.0072	0.0072	0.0072	
	Nm s/rad	4.83E-7	4.83E-7	4.83E-7	4.83E-7	4.83E-7	4.83E-7	4.83E-7	4.83E-7	
Electrical Time Constant	ms	0.53	0.53	0.53	0.52	0.53	0.54	0.53	0.52	
Mechanical Time Constant	ms	23	23	23	23	23	23	23	24	
Thermal Time Constant	min	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	
Thermal Resistance	Celsius/W	38	38	38	38	38	38	38	38	
Max. Winding Temperature	Celsius	130	130	130	130	130	130	130	130	
Rotor Inertia	oz-in-sec ²	7.30E-5	7.30E-5	7.30E-5	7.30E-5	7.30E-5	7.30E-5	7.30E-5	7.30E-5	
	kg-m ²	5.15E-7	5.15E-7	5.15E-7	5.15E-7	5.15E-7	5.15E-7	5.15E-7	5.15E-7	
Weight (Mass)	oz	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
	g	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	

Performance (24 V Winding)	Standard Features
	<ul style="list-style-type: none"> Sintered Bronze Bearings 2-Pole Stator Neodymium Magnets 5-Slot Armature Heavy-Gage Steel Housing Silicon Steel Laminations Copper-Graphite Brushes Diamond-Turned Commutator
	<p>Complementary Products</p> <ul style="list-style-type: none"> Encoders Gearboxes
	<p>Notes</p> <p>1 All values specified at 25°C ambient temperature and without heat sink. 2 Peak values are theoretical and supplied for reference only.</p>

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