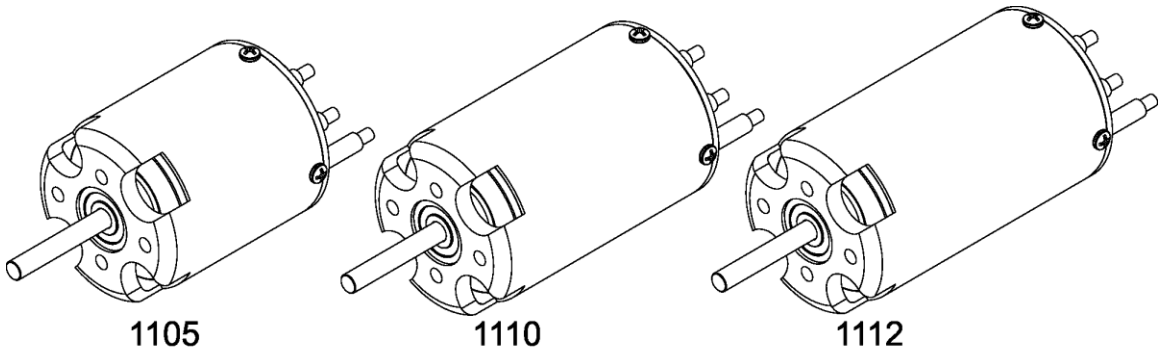
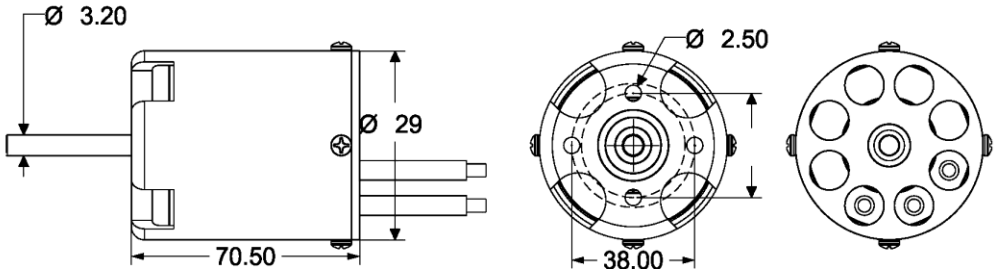
1100 SERIES





Stator lengths available:

Model	Length (in) / (mm)	Weight(g)	Continuous Watts	Base Price
1102	1.2" 30mm	51g	100	164.00
1105	1.4" 36mm	65g	200	164.00
1107	1.9" 48mm	91g	300	186.00
1110	1.9" 48mm	113g	400	197.00
1112	2.1" 53mm	133g	600	219.00
1115	2.4" 61mm	164g	700	241.00
1117	2.8" 71mm	190g	800	251.00
1120	2.8" 71mm	198g	900	263.00

29mm diameter 1100 Series brushless motors operate in a very wide power range. Depending on the length of the stator and the application/duty cycle, the 1100 series motors can deliver 200 to 1,500 watts!

- Small UAV power – 5-7" (direct drive)
- UAVs with 10-20" prop sizes (geared)
- Cooling fans

Motor type: inrunner
Poles: 4p
Slots: 12s

Finned: Optional
Sealed: Optional
Sensored: Optional

Gearbox(es): P22-G, P22-M, P29
Shaft size(s): 3.17 or 5mm
Max RPM: 60,000

1102

	Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch:	1.1	1.2	1.8 ozs.	100	200
mm:	29	30	51g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	Torque Constant inOz/A	Max Volts (max rpm/Kv)	**Max Amps (max watts/volts)**
1102/3.5Y/5200	5,200	0.015	0.750	1.840	0.261	12	17
1102/6D/5460	5,460	0.015	0.750	1.752	0.248	11	18
1102/5.75D/5697	5,697	0.014	0.783	1.680	0.238	11	19
1102/5.5D/5956	5,956	0.013	0.818	1.607	0.228	10	20
1102/3Y/6066	6,067	0.011	0.833	1.577	0.223	10	20
1102/5.25D/6240	6,240	0.011	0.857	1.533	0.217	10	21
1102/5D/6552	6,552	0.010	0.900	1.460	0.207	9	22
1102/2.75Y/6618	6,618	0.009	0.909	1.446	0.205	9	22
1102/4.75D/6896	6,897	0.009	0.947	1.387	0.196	9	23
1102/4.5D/7280	7,280	0.008	1.000	1.314	0.186	8	24
1102/2.5Y/7280	7,280	0.008	1.000	1.314	0.186	8	24
1102/4.25D/7708	7,708	0.008	1.059	1.241	0.176	8	26
1102/2.25Y/8088	8,089	0.006	1.111	1.183	0.168	7	27
1102/4D/8190	8,190	0.007	1.125	1.168	0.165	7	27
1102/3.75D/8736	8,736	0.006	1.200	1.095	0.155	7	29
1102/2Y/9100	9,100	0.005	1.250	1.051	0.149	7	30
1102/3.5D/9360	9,360	0.005	1.286	1.022	0.145	6	31

1105

	Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch:	1.1	1.4	2.3 ozs.	200	400
mm:	29	36	65g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	Torque Constant inOz/A	Max Volts (max rpm/Kv)	**Max Amps (max watts/volts)**
1105/6D/2730	2,730	0.030	0.750	3.505	0.496	22	18
1105/5.75D/2848	2,849	0.028	0.783	3.359	0.476	21	19
1105/5.5D/2978	2,978	0.025	0.818	3.213	0.455	20	20
1105/3Y/3033	3,033	0.023	0.833	3.155	0.447	20	20
1105/5.25D/3120	3,120	0.023	0.857	3.067	0.434	19	21
1105/5D/3276	3,276	0.021	0.900	2.921	0.414	18	22
1105/2.75Y/3309	3,309	0.019	0.909	2.892	0.409	18	22

1105

	Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch:	1.1	1.4	2.3 ozs.	200	400
mm:	29	36	65g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	Torque Constant inOz/A	Max Volts (max rpm/Kv)	**Max Amps (max watts/volts)**
1105/4.75D/3448	3,448	0.019	0.947	2.775	0.393	17	23
1105/4.5D/3640	3,640	0.017	1.000	2.629	0.372	16	24
1105/2.5Y/3640	3,640	0.016	1.000	2.629	0.372	16	24
1105/4.25D/3854	3,854	0.015	1.059	2.483	0.352	16	26
1105/2.25Y/4044	4,044	0.013	1.111	2.366	0.335	15	27
1105/4D/4095	4,095	0.013	1.125	2.337	0.331	15	27
1105/3.75D/4368	4,368	0.012	1.200	2.191	0.310	14	29
1105/2Y/4550	4,550	0.010	1.250	2.103	0.298	13	30
1105/3.5D/4680	4,680	0.010	1.286	2.045	0.290	13	31
1105/3.25D/5040	5,040	0.009	1.385	1.898	0.269	12	34
1105/1.75Y/5200	5,200	0.008	1.429	1.840	0.261	12	35
1105/3D/5460	5,460	0.007	1.500	1.752	0.248	11	36
1105/2.75D/5956	5,956	0.006	1.636	1.607	0.228	10	40
1105/1.5Y/6066	6,067	0.006	1.667	1.577	0.223	10	40
1105/2.5D/6552	6,552	0.005	1.800	1.460	0.207	9	44
1105/1.25Y/7280	7,280	0.004	2.000	1.314	0.186	8	49
1105/2.25D/7280	7,280	0.004	2.000	1.314	0.186	8	49
1105/2D/8190	8,190	0.003	2.250	1.168	0.165	7	55
1105/1Y/9100	9,100	0.003	2.500	1.051	0.149	7	61
1105/1.75D/9360	9,360	0.003	2.571	1.022	0.145	6	62

1107

	Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch:	1.1	1.9	3.2 ozs.	300	600
mm:	29	48	91g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	Torque Constant inOz/A	Max Volts (max rpm/Kv)	**Max Amps (max watts/volts)**
1107/6D/1820	1,820	0.045	0.750	5.257	0.745	33	18
1107/5.75D/1899	1,899	0.041	0.783	5.039	0.714	32	19
1107/5.5D/1985	1,985	0.038	0.818	4.820	0.683	30	20
1107/3Y/2022	2,022	0.034	0.833	4.732	0.670	30	20

1107

	Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch:	1.1	1.9	3.2 ozs.	300	600
mm:	29	48	91g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	Torque Constant inOz/A	Max Volts (max rpm/Kv)	**Max Amps (max watts/volts)**
1107/5.25D/2080	2,080	0.034	0.857	4.600	0.651	29	21
1107/5D/2184	2,184	0.031	0.900	4.381	0.620	27	22
1107/2.75Y/2206	2,206	0.028	0.909	4.337	0.614	27	22
1107/4.75D/2298	2,299	0.028	0.947	4.162	0.589	26	23
1107/4.5D/2426	2,427	0.025	1.000	3.942	0.558	25	24
1107/2.5Y/2426	2,427	0.023	1.000	3.942	0.558	25	24
1107/4.25D/2569	2,569	0.023	1.059	3.725	0.527	23	26
1107/2.25Y/2696	2,696	0.019	1.111	3.549	0.503	22	27
1107/4D/2730	2,730	0.020	1.125	3.505	0.496	22	27
1107/3.75D/2912	2,912	0.018	1.200	3.286	0.465	21	29
1107/2Y/3033	3,033	0.015	1.250	3.155	0.447	20	30
1107/3.5D/3120	3,120	0.015	1.286	3.067	0.434	19	31
1107/3.25D/3360	3,360	0.013	1.385	2.848	0.403	18	34
1107/1.75Y/3466	3,467	0.011	1.429	2.760	0.391	17	35
1107/3D/3640	3,640	0.011	1.500	2.629	0.372	16	36
1107/2.75D/3970	3,971	0.009	1.636	2.410	0.341	15	40
1107/1.5Y/4044	4,044	0.008	1.667	2.366	0.335	15	40
1107/2.5D/4368	4,368	0.008	1.800	2.191	0.310	14	44
1107/2.25D/4853	4,853	0.006	2.000	1.972	0.279	12	49
1107/1.25Y/4853	4,853	0.006	2.000	1.972	0.279	12	49
1107/2D/5460	5,460	0.005	2.250	1.752	0.248	11	55
1107/1Y/6066	6,067	0.004	2.500	1.577	0.223	10	61
1107/1.75D/6240	6,240	0.004	2.571	1.533	0.217	10	62
1107/1.5D/7280	7,280	0.003	3.000	1.314	0.186	8	73
1107/0.75Y/8088	8,089	0.002	3.333	1.183	0.168	7	81
1107/1.25D/8736	8,736	0.002	3.600	1.095	0.155	7	87

1110

	Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch:	1.1	1.9	4 ozs.	400	1,000
mm:	29	48	113g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	Torque Constant inOz/A	Max Volts (max rpm/Kv)	**Max Amps (max watts/volts)**
1110/6D/1365	1,365	0.060	0.750	7.010	0.993	44	23
1110/5.75D/1424	1,424	0.055	0.783	6.719	0.952	42	24
1110/5.5D/1489	1,489	0.050	0.818	6.426	0.910	40	25
1110/3Y/1516	1,517	0.045	0.833	6.307	0.893	40	25
1110/5.25D/1560	1,560	0.046	0.857	6.134	0.869	38	26
1110/5D/1638	1,638	0.042	0.900	5.842	0.827	37	27
1110/2.75Y/1654	1,655	0.038	0.909	5.782	0.819	36	28
1110/4.75D/1724	1,724	0.038	0.947	5.550	0.786	35	29
1110/4.5D/1820	1,820	0.034	1.000	5.257	0.745	33	30
1110/2.5Y/1820	1,820	0.031	1.000	5.257	0.745	33	30
1110/4.25D/1927	1,927	0.030	1.059	4.965	0.703	31	32
1110/2.25Y/2022	2,022	0.025	1.111	4.732	0.670	30	34
1110/4D/2047	2,048	0.027	1.125	4.672	0.662	29	34
1110/3.75D/2184	2,184	0.023	1.200	4.381	0.620	27	36
1110/2Y/2275	2,275	0.020	1.250	4.206	0.596	26	38
1110/3.5D/2340	2,340	0.020	1.286	4.089	0.579	26	39
1110/3.25D/2520	2,520	0.018	1.385	3.797	0.538	24	42
1110/1.75Y/2600	2,600	0.015	1.429	3.680	0.521	23	43
1110/3D/2730	2,730	0.015	1.500	3.505	0.496	22	46
1110/2.75D/2978	2,978	0.013	1.636	3.213	0.455	20	50
1110/1.5Y/3033	3,033	0.011	1.667	3.155	0.447	20	51
1110/2.5D/3276	3,276	0.010	1.800	2.921	0.414	18	55
1110/2.25D/3640	3,640	0.008	2.000	2.629	0.372	16	61
1110/1.25Y/3640	3,640	0.008	2.000	2.629	0.372	16	61
1110/2D/4095	4,095	0.007	2.250	2.337	0.331	15	68
1110/1Y/4550	4,550	0.005	2.500	2.103	0.298	13	76
1110/1.75D/4680	4,680	0.005	2.571	2.045	0.290	13	78
1110/1.5D/5460	5,460	0.004	3.000	1.752	0.248	11	91
1110/0.75Y/6066	6,067	0.003	3.333	1.577	0.223	10	101
1110/1.25D/6552	6,552	0.003	3.600	1.460	0.207	9	109
1110/1D/8190	8,190	0.002	4.500	1.168	0.165	7	137

1110

	Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch:	1.1	1.9	4 ozs.	400	1,000
mm:	29	48	113g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	Torque Constant inOz/A	Max Volts (max rpm/Kv)	**Max Amps (max watts/volts)**
1110/0.5Y/9100	9,100	0.001	5.000	1.051	0.149	7	152

1112

	Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch:	1.1	2.1	4.7 ozs.	600	1,200
mm:	29	53	133g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	Torque Constant inOz/A	Max Volts (max rpm/Kv)	**Max Amps (max watts/volts)**
1112/6D/1092	1,092	0.075	0.750	8.762	1.241	55	22
1112/5.75D/1139	1,139	0.069	0.783	8.401	1.190	53	23
1112/5.5D/1191	1,191	0.063	0.818	8.034	1.138	50	24
1112/3Y/1213	1,213	0.056	0.833	7.888	1.117	49	24
1112/5.25D/1248	1,248	0.057	0.857	7.667	1.086	48	25
1112/5D/1310	1,310	0.052	0.900	7.304	1.034	46	26
1112/2.75Y/1323	1,324	0.047	0.909	7.227	1.023	45	26
1112/4.75D/1379	1,379	0.047	0.947	6.939	0.983	44	28
1112/4.5D/1456	1,456	0.042	1.000	6.572	0.931	41	29
1112/2.5Y/1456	1,456	0.039	1.000	6.572	0.931	41	29
1112/4.25D/1541	1,542	0.038	1.059	6.205	0.879	39	31
1112/2.25Y/1617	1,618	0.032	1.111	5.914	0.837	37	32
1112/4D/1638	1,638	0.033	1.125	5.842	0.827	37	33
1112/3.75D/1747	1,747	0.029	1.200	5.477	0.776	34	35
1112/2Y/1820	1,820	0.025	1.250	5.257	0.745	33	36
1112/3.5D/1872	1,872	0.026	1.286	5.111	0.724	32	37
1112/3.25D/2016	2,016	0.022	1.385	4.746	0.672	30	40
1112/1.75Y/2080	2,080	0.019	1.429	4.600	0.651	29	42
1112/3D/2184	2,184	0.019	1.500	4.381	0.620	27	44
1112/2.75D/2382	2,383	0.016	1.636	4.015	0.569	25	48
1112/1.5Y/2426	2,427	0.014	1.667	3.942	0.558	25	49
1112/2.5D/2620	2,621	0.013	1.800	3.651	0.517	23	52
1112/2.25D/2912	2,912	0.011	2.000	3.286	0.465	21	58

1112

	Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch:	1.1	2.1	4.7 ozs.	600	1,200
mm:	29	53	133g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	Torque Constant inOz/A	Max Volts (max rpm/Kv)	**Max Amps (max watts/volts)**
1112/1.25Y/2912	2,912	0.010	2.000	3.286	0.465	21	58
1112/2D/3276	3,276	0.008	2.250	2.921	0.414	18	66
1112/1Y/3640	3,640	0.006	2.500	2.629	0.372	16	73
1112/1.75D/3744	3,744	0.006	2.571	2.556	0.362	16	75
1112/1.5D/4368	4,368	0.005	3.000	2.191	0.310	14	87
1112/0.75Y/4853	4,853	0.004	3.333	1.972	0.279	12	97
1112/1.25D/5241	5,242	0.003	3.600	1.825	0.258	11	105
1112/1D/6552	6,552	0.002	4.500	1.460	0.207	9	131
1112/0.5Y/7280	7,280	0.002	5.000	1.314	0.186	8	146
1112/0.75D/8736	8,736	0.001	6.000	1.095	0.155	7	175

1115

	Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch:	1.1	2.4	5.8 ozs.	700	1,400
mm:	29	61	164g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	Torque Constant inOz/A	Max Volts (max rpm/Kv)	**Max Amps (max watts/volts)**
1115/6D/910	910	0.090	0.750	10.515	1.489	66	21
1115/5.75D/949	950	0.083	0.783	10.072	1.426	63	22
1115/5.5D/992	993	0.076	0.818	9.636	1.365	60	23
1115/3Y/1011	1,011	0.068	0.833	9.464	1.340	59	24
1115/5.25D/1040	1,040	0.069	0.857	9.200	1.303	58	24
1115/5D/1092	1,092	0.062	0.900	8.762	1.241	55	25
1115/2.75Y/1103	1,103	0.057	0.909	8.675	1.228	54	26
1115/4.75D/1149	1,149	0.056	0.947	8.328	1.179	52	27
1115/4.5D/1213	1,213	0.051	1.000	7.888	1.117	49	28
1115/2.5Y/1213	1,213	0.047	1.000	7.888	1.117	49	28
1115/4.25D/1284	1,285	0.045	1.059	7.446	1.054	47	30
1115/2.25Y/1348	1,348	0.038	1.111	7.098	1.005	45	31
1115/4D/1365	1,365	0.040	1.125	7.010	0.993	44	32
1115/3.75D/1456	1,456	0.035	1.200	6.572	0.931	41	34

1115

	Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch:	1.1	2.4	5.8 ozs.	700	1,400
mm:	29	61	164g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	Torque Constant inOz/A	Max Volts (max rpm/Kv)	**Max Amps (max watts/volts)**
1115/2Y/1516	1,517	0.030	1.250	6.307	0.893	40	35
1115/3.5D/1560	1,560	0.031	1.286	6.134	0.869	38	36
1115/3.25D/1680	1,680	0.026	1.385	5.695	0.807	36	39
1115/1.75Y/1733	1,733	0.023	1.429	5.521	0.782	35	40
1115/3D/1820	1,820	0.022	1.500	5.257	0.745	33	42
1115/2.75D/1985	1,985	0.019	1.636	4.820	0.683	30	46
1115/1.5Y/2022	2,022	0.017	1.667	4.732	0.670	30	47
1115/2.5D/2184	2,184	0.016	1.800	4.381	0.620	27	51
1115/2.25D/2426	2,427	0.013	2.000	3.942	0.558	25	57
1115/1.25Y/2426	2,427	0.012	2.000	3.942	0.558	25	57
1115/2D/2730	2,730	0.010	2.250	3.505	0.496	22	64
1115/1Y/3033	3,033	0.008	2.500	3.155	0.447	20	71
1115/1.75D/3120	3,120	0.008	2.571	3.067	0.434	19	73
1115/1.5D/3640	3,640	0.006	3.000	2.629	0.372	16	85
1115/0.75Y/4044	4,044	0.004	3.333	2.366	0.335	15	94
1115/1.25D/4368	4,368	0.004	3.600	2.191	0.310	14	102
1115/1D/5460	5,460	0.002	4.500	1.752	0.248	11	127
1115/0.5Y/6066	6,067	0.002	5.000	1.577	0.223	10	142
1115/0.75D/7280	7,280	0.001	6.000	1.314	0.186	8	170

1117

	Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch:	1.1	2.8	6.7 ozs.	800	1,600
mm:	29	71	190g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	Torque Constant inOz/A	Max Volts (max rpm/Kv)	**Max Amps (max watts/volts)**
1117/6D/780	780	0.105	0.750	12.267	1.737	77	21
1117/5.75D/813	814	0.096	0.783	11.755	1.665	74	22
1117/5.5D/850	851	0.088	0.818	11.244	1.592	71	23
1117/3Y/866	867	0.079	0.833	11.036	1.563	69	23
1117/5.25D/891	891	0.080	0.857	10.739	1.521	67	24

1117

	Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch:	1.1	2.8	6.7 ozs.	800	1,600
mm:	29	71	190g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	Torque Constant inOz/A	Max Volts (max rpm/Kv)	**Max Amps (max watts/volts)**
1117/5D/936	936	0.073	0.900	10.223	1.448	64	25
1117/2.75Y/945	945	0.066	0.909	10.125	1.434	63	25
1117/4.75D/985	985	0.066	0.947	9.714	1.376	61	26
1117/4.5D/1040	1,040	0.059	1.000	9.200	1.303	58	28
1117/2.5Y/1040	1,040	0.055	1.000	9.200	1.303	58	28
1117/4.25D/1101	1,101	0.053	1.059	8.691	1.231	54	29
1117/2.25Y/1155	1,156	0.044	1.111	8.277	1.172	52	31
1117/4D/1170	1,170	0.047	1.125	8.178	1.158	51	31
1117/3.75D/1248	1,248	0.041	1.200	7.667	1.086	48	33
1117/2Y/1300	1,300	0.035	1.250	7.360	1.042	46	35
1117/3.5D/1337	1,337	0.036	1.286	7.157	1.013	45	36
1117/3.25D/1440	1,440	0.031	1.385	6.645	0.941	42	38
1117/1.75Y/1485	1,486	0.027	1.429	6.439	0.912	40	40
1117/3D/1560	1,560	0.026	1.500	6.134	0.869	38	42
1117/2.75D/1701	1,702	0.022	1.636	5.622	0.796	35	45
1117/1.5Y/1733	1,733	0.020	1.667	5.521	0.782	35	46
1117/2.5D/1872	1,872	0.018	1.800	5.111	0.724	32	50
1117/1.25Y/2080	2,080	0.014	2.000	4.600	0.651	29	55
1117/2.25D/2080	2,080	0.015	2.000	4.600	0.651	29	55
1117/2D/2340	2,340	0.012	2.250	4.089	0.579	26	62
1117/1Y/2600	2,600	0.009	2.500	3.680	0.521	23	69
1117/1.75D/2674	2,674	0.009	2.571	3.578	0.507	22	71
1117/1.5D/3120	3,120	0.007	3.000	3.067	0.434	19	83
1117/0.75Y/3466	3,467	0.005	3.333	2.760	0.391	17	92
1117/1.25D/3744	3,744	0.005	3.600	2.556	0.362	16	100
1117/1D/4680	4,680	0.003	4.500	2.045	0.290	13	125
1117/0.5Y/5200	5,200	0.002	5.000	1.840	0.261	12	139
1117/0.75D/6240	6,240	0.002	6.000	1.533	0.217	10	166
1117/0.5D/9360	9,360	0.001	9.000	1.022	0.145	6	250

1120

	Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch:	1.1	2.8	7 ozs.	900	1,800
mm:	29	71	198g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	Torque Constant inOz/A	Max Volts (max rpm/Kv)	**Max Amps (max watts/volts)**
1120/6D/682.5	682	0.120	0.750	14.030	1.987	88	20
1120/5.75D/712	712	0.110	0.783	13.439	1.903	84	21
1120/5.5D/744	745	0.101	0.818	12.843	1.819	81	22
1120/3Y/758	758	0.090	0.833	12.623	1.788	79	23
1120/5.25D/780	780	0.092	0.857	12.267	1.737	77	23
1120/5D/819	819	0.083	0.900	11.683	1.654	73	25
1120/2.75Y/827	827	0.076	0.909	11.570	1.638	73	25
1120/4.75D/862	862	0.075	0.947	11.100	1.572	70	26
1120/2.5Y/910	910	0.063	1.000	10.515	1.489	66	27
1120/4.5D/910	910	0.067	1.000	10.515	1.489	66	27
1120/4.25D/963	964	0.060	1.059	9.926	1.406	62	29
1120/2.25Y/1011	1,011	0.051	1.111	9.464	1.340	59	30
1120/4D/1023	1,024	0.053	1.125	9.344	1.323	59	31
1120/3.75D/1092	1,092	0.047	1.200	8.762	1.241	55	33
1120/2Y/1137	1,138	0.040	1.250	8.408	1.191	53	34
1120/3.5D/1170	1,170	0.041	1.286	8.178	1.158	51	35
1120/3.25D/1260	1,260	0.035	1.385	7.594	1.075	48	38
1120/1.75Y/1300	1,300	0.031	1.429	7.360	1.042	46	39
1120/3D/1365	1,365	0.030	1.500	7.010	0.993	44	41
1120/2.75D/1489	1,489	0.025	1.636	6.426	0.910	40	45
1120/1.5Y/1516	1,517	0.023	1.667	6.307	0.893	40	46
1120/2.5D/1638	1,638	0.021	1.800	5.842	0.827	37	49
1120/2.25D/1820	1,820	0.017	2.000	5.257	0.745	33	55
1120/1.25Y/1820	1,820	0.016	2.000	5.257	0.745	33	55
1120/2D/2047	2,048	0.013	2.250	4.672	0.662	29	61
1120/1Y/2275	2,275	0.010	2.500	4.206	0.596	26	68
1120/1.75D/2340	2,340	0.010	2.571	4.089	0.579	26	70
1120/1.5D/2730	2,730	0.007	3.000	3.505	0.496	22	82
1120/0.75Y/3033	3,033	0.006	3.333	3.155	0.447	20	91
1120/1.25D/3276	3,276	0.005	3.600	2.921	0.414	18	98
1120/1D/4095	4,095	0.003	4.500	2.337	0.331	15	123

1120

	Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch:	1.1	2.8	7 ozs.	900	1,800
mm:	29	71	198g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	Torque Constant inOz/A	Max Volts (max rpm/Kv)	**Max Amps (max watts/volts)**
1120/0.5Y/4550	4,550	0.003	5.000	2.103	0.298	13	137
1120/0.75D/5460	5,460	0.002	6.000	1.752	0.248	11	164
1120/0.5D/8190	8,190	0.001	9.000	1.168	0.165	7	246
1120/0.25Y/9100	9,100	0.001	10.000	1.051	0.149	7	273

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DOMESTIC CONTENT / COUNTRY OF ORIGIN
Motors may be assembled with varying degrees of domestic (USA) content. Please contact to discuss content requirements, solutions, and resulting pricing variances, if any. Baseline motors are assembled and or tested in the US or Mexico from components sourced globally, including China.

QUALITY CONTROL
Our factory is ISO 9001 certified. Quality documentation available on a custom order basis.

POWER RATINGS (Watts):
Continuous rating is the power the motor can deliver while maintaining the external housing temperatures below 100C.

MAX power rating is the power the motor can deliver beginning with motor at a temp of 20C until it reaches it's limit temperature of 100C. The exact maximum power output of a motor is dependent on a number of variables including air flow, ambient air temperature, contact cooling, etc. 100C rating is measured on the outside of the case, which allows for higher internal temperatures and a small measure of overhead.

MAX VOLTAGE
Limited by kv (RPMs per volt) times the applied voltage. Max voltage must be kept below the voltage which will spin the motor over max rpm for the motor series.

MAX AMPERAGE
See power ratings above.

MTBF RATINGS:
When used within the constraints described above, BLDC motors' primary "wear" item(s) are the bearings supporting the shaft. Bearing life is inversely affected by speed, temperature, radial and axial loads. While an MTBF figure can be generated, it would be rendered invalid by excursions beyond prescribed temperatures or load limits – such as prop strikes or side loads. MTBF must be determined on a case by case basis, and even then it would be subject to numerous exceptions.

COMPONENT SPECIFICATIONS
Winding temperature: 180C
Magnet grade: 180C UH grade
Bearings: Japanese SPB bearings

Specifications subject to change without notice.