



Stator lengths available:

Model	Length (in) / (mm)	Weight(g)	Continuous Watts	Base Price
8814	1.8" 44mm	g	1,900	356.00
8819	2.0" 51mm	911g	2,500	418.00
8830	0.0" 0mm	g	4,000	550.00
8842	0.0" 0mm	g	5,500	696.00
8860	0.0" 0mm	g	8,000	

Optimized multicopter / propeller drive.

Motor type: outrunner

Poles: 22p

Slots: 24s

Finned:

Sealed:

Sensored: No

Gearbox(es): call

Shaft size(s): integral bolt pa

Max RPM: 10,000

8814

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 4.0	1.8	ozs.	1,900	3,800
mm: 102	44	g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
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8814

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 4.0	1.8	ozs.	1,900	3,800
mm: 102	44	g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
8814/100/14	14	0.102	3.506	683.457	96.786	714	10
8814/95/15	15	0.107	3.166	637.894	90.333	667	10
8814/85/16	16	0.119	2.538	598.025	84.688	625	11
8814/90/16	16	0.113	2.844	598.025	84.688	625	11
8814/80/18	18	0.127	2.250	531.578	75.278	556	12
8814/75/19	19	0.135	1.980	503.600	71.316	526	13
8814/70/20	20	0.145	1.727	478.420	67.750	500	14
8814/65/22	22	0.156	1.491	434.927	61.591	455	15
8814/60/23	23	0.169	1.272	416.018	58.913	435	16
8814/55/25	25	0.185	1.071	382.736	54.200	400	18
8814/50/28	28	0.203	0.887	341.729	48.393	357	19
8814/45/31	31	0.226	0.720	308.658	43.710	323	22
8814/40/35	35	0.254	0.571	273.383	38.714	286	24
8814/38/37	37	0.267	0.516	258.605	36.622	270	26
8814/36/39	39	0.282	0.464	245.344	34.744	256	27
8814/34/41	41	0.299	0.414	233.376	33.049	244	29
8814/32/44	44	0.317	0.368	217.464	30.795	227	30
8814/30/47	47	0.338	0.324	203.583	28.830	213	32
8814/28/50	50	0.363	0.283	191.368	27.100	200	35
8814/26/54	54	0.390	0.245	177.193	25.093	185	37
8814/24/58	58	0.423	0.209	164.972	23.362	172	40
8814/22/64	64	0.461	0.177	149.506	21.172	156	44
8814/20/70	70	0.508	0.147	136.691	19.357	143	49
8814/19/74	74	0.534	0.133	129.303	18.311	135	51
8814/18/78	78	0.564	0.120	122.672	17.372	128	54
8814/17/82	82	0.597	0.107	116.688	16.524	122	57
8814/16/88	88	0.634	0.095	108.732	15.398	114	61
8814/15/93	93	0.677	0.084	102.886	14.570	108	65
8814/14/100	100	0.725	0.074	95.684	13.550	100	69
8814/13/108	108	0.781	0.064	88.596	12.546	93	75
8814/12/117	117	0.846	0.055	81.781	11.581	85	81

8814

	Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch:	4.0	1.8	ozs.	1,900	3,800
mm:	102	44	g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	Torque Constant inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
8814/11/127	127	0.923	0.046	75.342	10.669	79	88
8814/10/140	140	1.015	0.039	68.346	9.679	71	97
8814/9.5/148	148	1.068	0.035	64.651	9.155	68	102
8814/9/156	156	1.128	0.032	61.336	8.686	64	108
8814/8.5/165	165	1.194	0.028	57.990	8.212	61	114
8814/8/175	175	1.269	0.025	54.677	7.743	57	122
8814/7.5/187	187	1.353	0.023	51.168	7.246	53	130
8814/7/200	200	1.450	0.020	47.842	6.775	50	139
8814/6.5/216	216	1.562	0.017	44.298	6.273	46	150
8814/6/234	234	1.692	0.015	40.891	5.791	43	162
8814/5.5/255	255	1.845	0.013	37.523	5.314	39	177
8814/5/280	280	2.030	0.011	34.173	4.839	36	194
8814/4.5/311	311	2.256	0.009	30.767	4.357	32	216
8814/4/350	350	2.538	0.007	27.338	3.871	29	243
8814/3.5/400	400	2.900	0.006	23.921	3.388	25	278
8814/3/467	467	3.383	0.004	20.489	2.901	21	324
8814/2.5/561	561	4.060	0.002	17.056	2.415	18	486
8814/2/701	701	5.075	0.002	13.650	1.933	14	486
8814/1.5/934	934	6.767	0.001	10.245	1.451	11	648
8814/1/1401	1,401	10.150	0.001	6.830	0.967	7	972
8814/0.5/2803	2,803	20.300	0.000	3.414	0.483	4	1,944

8819

	Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch:	4.0	2.0	32 ozs.	2,500	5,000
mm:	102	51	906g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	Torque Constant inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
8819/100/10	10	0.102	4.386	956.840	135.500	1,000	10
8819/90/11	11	0.113	3.556	869.855	123.182	909	11
8819/95/11	11	0.107	3.960	869.855	123.182	909	10

8819

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 4.0	2.0	32 ozs.	2,500	5,000
mm: 102	51	906g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
8819/85/12	12	0.119	3.174	797.367	112.917	833	11
8819/80/13	13	0.127	2.813	736.031	104.231	769	12
8819/75/14	14	0.135	2.474	683.457	96.786	714	13
8819/70/15	15	0.145	2.157	637.894	90.333	667	14
8819/65/16	16	0.156	1.862	598.025	84.688	625	15
8819/60/17	17	0.169	1.588	562.847	79.706	588	16
8819/55/19	19	0.185	1.337	503.600	71.316	526	18
8819/50/21	21	0.203	1.106	455.638	64.524	476	19
8819/45/23	23	0.226	0.898	416.018	58.913	435	22
8819/40/26	26	0.254	0.711	368.015	52.115	385	24
8819/38/27	27	0.267	0.643	354.385	50.185	370	26
8819/36/29	29	0.282	0.578	329.945	46.724	345	27
8819/34/30	30	0.299	0.516	318.947	45.167	333	29
8819/32/32	32	0.317	0.458	299.013	42.344	313	30
8819/30/34	34	0.338	0.403	281.424	39.853	294	32
8819/28/37	37	0.363	0.352	258.605	36.622	270	35
8819/26/40	40	0.390	0.304	239.210	33.875	250	37
8819/24/43	43	0.423	0.260	222.521	31.512	233	40
8819/22/47	47	0.461	0.219	203.583	28.830	213	44
8819/20/52	52	0.508	0.182	184.008	26.058	192	49
8819/19/54	54	0.534	0.164	177.193	25.093	185	51
8819/18/57	57	0.564	0.148	167.867	23.772	175	54
8819/17/61	61	0.597	0.132	156.859	22.213	164	57
8819/16/65	65	0.634	0.118	147.206	20.846	154	61
8819/15/69	69	0.677	0.104	138.673	19.638	145	65
8819/14/74	74	0.725	0.091	129.303	18.311	135	69
8819/13/79	79	0.781	0.079	121.119	17.152	127	75
8819/12/86	86	0.846	0.067	111.260	15.756	116	81
8819/11/94	94	0.923	0.057	101.792	14.415	106	88
8819/10/103	103	1.015	0.047	92.897	13.155	97	97
8819/9.5/109	109	1.068	0.043	87.784	12.431	92	102

8819

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 4.0	2.0	32 ozs.	2,500	5,000
mm: 102	51	906g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
8819/9/115	115	1.128	0.039	83.204	11.783	87	108
8819/8.5/121	121	1.194	0.035	79.078	11.198	83	114
8819/8/129	129	1.269	0.031	74.174	10.504	78	122
8819/7.5/138	138	1.353	0.027	69.336	9.819	72	130
8819/7/148	148	1.450	0.024	64.651	9.155	68	139
8819/6.5/159	159	1.562	0.021	60.179	8.522	63	150
8819/6/172	172	1.692	0.018	55.630	7.878	58	162
8819/5.5/188	188	1.845	0.015	50.896	7.207	53	177
8819/5/207	207	2.030	0.013	46.224	6.546	48	194
8819/4.5/229	229	2.256	0.011	41.783	5.917	44	216
8819/4/258	258	2.538	0.009	37.087	5.252	39	243
8819/3.5/295	295	2.900	0.007	32.435	4.593	34	278
8819/3/344	344	3.383	0.005	27.815	3.939	29	324
8819/2.5/413	413	4.060	0.003	23.168	3.281	24	486
8819/2/516	516	5.075	0.003	18.543	2.626	19	486
8819/1.5/688	688	6.767	0.002	13.908	1.969	15	648
8819/1/1033	1,033	10.150	0.001	9.263	1.312	10	972
8819/0.5/2065	2,065	20.300	0.000	4.634	0.656	5	1,944

8830

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 4.0	0.0	ozs.	4,000	8,000
mm: 102	0	g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
8830/100/7	7	0.102	6.320	1366.915	193.571	1,429	10
8830/90/7	7	0.113	5.123	1366.915	193.571	1,429	11
8830/95/7	7	0.107	5.706	1366.915	193.571	1,429	10
8830/80/8	8	0.127	4.051	1196.050	169.375	1,250	12
8830/85/8	8	0.119	4.572	1196.050	169.375	1,250	11
8830/70/9	9	0.145	3.105	1063.156	150.556	1,111	14

8830

	Diam.	Length	Weight	Max Cont.	Max Peak
	inch: 4.0	0.0	ozs.	Watts 4,000	Watts 8,000
	mm: 102	0	g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
8830/75/9	9	0.135	3.563	1063.156	150.556	1,111	13
8830/65/10	10	0.156	2.679	956.840	135.500	1,000	15
8830/60/11	11	0.169	2.285	869.855	123.182	909	16
8830/55/12	12	0.185	1.922	797.367	112.917	833	18
8830/50/13	13	0.203	1.590	736.031	104.231	769	19
8830/45/15	15	0.226	1.290	637.894	90.333	667	22
8830/40/16	16	0.254	1.021	598.025	84.688	625	24
8830/38/17	17	0.267	0.922	562.847	79.706	588	26
8830/36/18	18	0.282	0.828	531.578	75.278	556	27
8830/34/19	19	0.299	0.740	503.600	71.316	526	29
8830/32/20	20	0.317	0.656	478.420	67.750	500	30
8830/30/22	22	0.338	0.577	434.927	61.591	455	32
8830/28/23	23	0.363	0.504	416.018	58.913	435	35
8830/26/25	25	0.390	0.435	382.736	54.200	400	37
8830/24/27	27	0.423	0.371	354.385	50.185	370	40
8830/22/30	30	0.461	0.313	318.947	45.167	333	44
8830/20/33	33	0.508	0.259	289.952	41.061	303	49
8830/19/34	34	0.534	0.234	281.424	39.853	294	51
8830/18/36	36	0.564	0.211	265.789	37.639	278	54
8830/17/38	38	0.597	0.188	251.800	35.658	263	57
8830/16/41	41	0.634	0.167	233.376	33.049	244	61
8830/15/44	44	0.677	0.147	217.464	30.795	227	65
8830/14/47	47	0.725	0.129	203.583	28.830	213	69
8830/13/50	50	0.781	0.111	191.368	27.100	200	75
8830/12/54	54	0.846	0.095	177.193	25.093	185	81
8830/11/59	59	0.923	0.080	162.176	22.966	169	88
8830/10/65	65	1.015	0.067	147.206	20.846	154	97
8830/9.5/69	69	1.068	0.060	138.673	19.638	145	102
8830/9/73	73	1.128	0.054	131.074	18.562	137	108
8830/8.5/77	77	1.194	0.049	124.265	17.597	130	114
8830/8/82	82	1.269	0.043	116.688	16.524	122	122

8830

	Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch:	4.0	0.0	ozs.	4,000	8,000
mm:	102	0	g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	Torque Constant inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
8830/7.5/87	87	1.353	0.038	109.982	15.575	115	130
8830/7/93	93	1.450	0.034	102.886	14.570	108	139
8830/6.5/101	101	1.562	0.029	94.737	13.416	99	150
8830/6/109	109	1.692	0.025	87.784	12.431	92	162
8830/5.5/119	119	1.845	0.021	80.407	11.387	84	177
8830/5/131	131	2.030	0.018	73.041	10.344	76	194
8830/4.5/145	145	2.256	0.015	65.989	9.345	69	216
8830/4/163	163	2.538	0.012	58.702	8.313	61	243
8830/3.5/187	187	2.900	0.009	51.168	7.246	53	278
8830/3/218	218	3.383	0.007	43.892	6.216	46	324
8830/2.5/262	262	4.060	0.003	36.521	5.172	38	486
8830/2/327	327	5.075	0.003	29.261	4.144	31	486
8830/1.5/436	436	6.767	0.002	21.946	3.108	23	648
8830/1/654	654	10.150	0.001	14.631	2.072	15	972
8830/0.5/1308	1,308	20.300	0.000	7.315	1.036	8	1,944

8842

	Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch:	4.0	0.0	ozs.	5,500	11,000
mm:	102	0	g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	Torque Constant inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
8842/85/5	5	0.119	6.096	1913.681	271.000	2,000	11
8842/90/5	5	0.113	6.833	1913.681	271.000	2,000	11
8842/95/5	5	0.107	7.611	1913.681	271.000	2,000	10
8842/100/5	5	0.102	8.431	1913.681	271.000	2,000	10
8842/75/6	6	0.135	4.750	1594.734	225.833	1,667	13
8842/80/6	6	0.127	5.402	1594.734	225.833	1,667	12
8842/65/7	7	0.156	3.571	1366.915	193.571	1,429	15
8842/70/7	7	0.145	4.140	1366.915	193.571	1,429	14
8842/60/8	8	0.169	3.045	1196.050	169.375	1,250	16

8842

	Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch:	4.0	0.0	ozs.	5,500	11,000
mm:	102	0	g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	Torque Constant inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
8842/55/8	8	0.185	2.560	1196.050	169.375	1,250	18
8842/50/9	9	0.203	2.118	1063.156	150.556	1,111	19
8842/45/10	10	0.226	1.717	956.840	135.500	1,000	22
8842/38/12	12	0.267	1.227	797.367	112.917	833	26
8842/40/12	12	0.254	1.359	797.367	112.917	833	24
8842/36/13	13	0.282	1.102	736.031	104.231	769	27
8842/34/14	14	0.299	0.984	683.457	96.786	714	29
8842/32/15	15	0.317	0.872	637.894	90.333	667	30
8842/30/16	16	0.338	0.767	598.025	84.688	625	32
8842/28/17	17	0.363	0.669	562.847	79.706	588	35
8842/26/18	18	0.390	0.578	531.578	75.278	556	37
8842/24/19	19	0.423	0.493	503.600	71.316	526	40
8842/22/21	21	0.461	0.415	455.638	64.524	476	44
8842/20/23	23	0.508	0.344	416.018	58.913	435	49
8842/19/25	25	0.534	0.311	382.736	54.200	400	51
8842/18/26	26	0.564	0.279	368.015	52.115	385	54
8842/17/27	27	0.597	0.249	354.385	50.185	370	57
8842/16/29	29	0.634	0.221	329.945	46.724	345	61
8842/15/31	31	0.677	0.195	308.658	43.710	323	65
8842/14/33	33	0.725	0.170	289.952	41.061	303	69
8842/13/36	36	0.781	0.147	265.789	37.639	278	75
8842/12/39	39	0.846	0.126	245.344	34.744	256	81
8842/11/42	42	0.923	0.106	227.819	32.262	238	88
8842/10/47	47	1.015	0.088	203.583	28.830	213	97
8842/9.5/49	49	1.068	0.080	195.274	27.653	204	102
8842/9/52	52	1.128	0.072	184.008	26.058	192	108
8842/8.5/55	55	1.194	0.064	173.971	24.636	182	114
8842/8/58	58	1.269	0.057	164.972	23.362	172	122
8842/7.5/62	62	1.353	0.050	154.329	21.855	161	130
8842/7/67	67	1.450	0.044	142.812	20.224	149	139
8842/6.5/72	72	1.562	0.038	132.894	18.819	139	150

8842

	Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch:	4.0	0.0	ozs.	5,500	11,000
mm:	102	0	g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
8842/6/78	78	1.692	0.033	122.672	17.372	128	162
8842/5.5/85	85	1.845	0.028	112.569	15.941	118	177
8842/5/93	93	2.030	0.023	102.886	14.570	108	194
8842/4.5/104	104	2.256	0.019	92.004	13.029	96	216
8842/4/117	117	2.538	0.015	81.781	11.581	85	243
8842/3.5/133	133	2.900	0.012	71.943	10.188	75	278
8842/3/156	156	3.383	0.009	61.336	8.686	64	324
8842/2.5/187	187	4.060	0.004	51.168	7.246	53	486
8842/2/234	234	5.075	0.004	40.891	5.791	43	486
8842/1.5/311	311	6.767	0.002	30.767	4.357	32	648
8842/1/467	467	10.150	0.001	20.489	2.901	21	972
8842/0.5/934	934	20.300	0.000	10.245	1.451	11	1,944

8860

	Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch:	4.0	0.0	ozs.	8,000	16,000
mm:	102	0	g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
8860/95/3	3	0.107	10.468	3189.468	451.667	3,333	10
8860/100/3	3	0.102	11.597	3189.468	451.667	3,333	10
8860/75/4	4	0.135	6.531	2392.101	338.750	2,500	13
8860/80/4	4	0.127	7.428	2392.101	338.750	2,500	12
8860/85/4	4	0.119	8.384	2392.101	338.750	2,500	11
8860/90/4	4	0.113	9.397	2392.101	338.750	2,500	11
8860/60/5	5	0.169	4.184	1913.681	271.000	2,000	16
8860/65/5	5	0.156	4.909	1913.681	271.000	2,000	15
8860/70/5	5	0.145	5.691	1913.681	271.000	2,000	14
8860/55/6	6	0.185	3.518	1594.734	225.833	1,667	18
8860/50/7	7	0.203	2.909	1366.915	193.571	1,429	19
8860/45/7	7	0.226	2.358	1366.915	193.571	1,429	22

8860

	Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch:	4.0	0.0	ozs.	8,000	16,000
mm:	102	0	g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
8860/40/8	8	0.254	1.865	1196.050	169.375	1,250	24
8860/38/9	9	0.267	1.684	1063.156	150.556	1,111	26
8860/36/9	9	0.282	1.512	1063.156	150.556	1,111	27
8860/32/10	10	0.317	1.196	956.840	135.500	1,000	30
8860/34/10	10	0.299	1.350	956.840	135.500	1,000	29
8860/30/11	11	0.338	1.052	869.855	123.182	909	32
8860/28/12	12	0.363	0.917	797.367	112.917	833	35
8860/26/13	13	0.390	0.792	736.031	104.231	769	37
8860/24/14	14	0.423	0.675	683.457	96.786	714	40
8860/22/15	15	0.461	0.568	637.894	90.333	667	44
8860/20/16	16	0.508	0.470	598.025	84.688	625	49
8860/19/17	17	0.534	0.425	562.847	79.706	588	51
8860/18/18	18	0.564	0.382	531.578	75.278	556	54
8860/17/19	19	0.597	0.341	503.600	71.316	526	57
8860/16/20	20	0.634	0.302	478.420	67.750	500	61
8860/15/22	22	0.677	0.266	434.927	61.591	455	65
8860/14/23	23	0.725	0.232	416.018	58.913	435	69
8860/13/25	25	0.781	0.201	382.736	54.200	400	75
8860/12/27	27	0.846	0.171	354.385	50.185	370	81
8860/11/30	30	0.923	0.144	318.947	45.167	333	88
8860/10/33	33	1.015	0.120	289.952	41.061	303	97
8860/9.5/34	34	1.068	0.108	281.424	39.853	294	102
8860/9/36	36	1.128	0.097	265.789	37.639	278	108
8860/8.5/38	38	1.194	0.087	251.800	35.658	263	114
8860/8/41	41	1.269	0.077	233.376	33.049	244	122
8860/7.5/44	44	1.353	0.068	217.464	30.795	227	130
8860/7/47	47	1.450	0.059	203.583	28.830	213	139
8860/6.5/50	50	1.562	0.051	191.368	27.100	200	150
8860/6/54	54	1.692	0.044	177.193	25.093	185	162
8860/5.5/59	59	1.845	0.037	162.176	22.966	169	177
8860/5/65	65	2.030	0.031	147.206	20.846	154	194

8860

	Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch:	4.0	0.0	ozs.	8,000	16,000
mm:	102	0	g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	Torque Constant inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
8860/4.5/73	73	2.256	0.025	131.074	18.562	137	216
8860/4/82	82	2.538	0.020	116.688	16.524	122	243
8860/3.5/93	93	2.900	0.016	102.886	14.570	108	278
8860/3/109	109	3.383	0.012	87.784	12.431	92	324
8860/2.5/131	131	4.060	0.005	73.041	10.344	76	486
8860/2/163	163	5.075	0.005	58.702	8.313	61	486
8860/1.5/218	218	6.767	0.003	43.892	6.216	46	648
8860/1/327	327	10.150	0.002	29.261	4.144	31	972
8860/0.5/654	654	20.300	0.000	14.631	2.072	15	1,944

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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.

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