



**Stator lengths available:**

Model	Length (in) / (mm)	Weight(g)	Continuous Watts	Base Price
3805	" mm	g	225	
3808	" mm	g	375	
3810	0.9" 23mm	105g	460	88.00
3814	1.1" 27mm	132g	675	98.00
3819	1.3" 32mm	164g	900	110.00
3825	1.6" 40mm	201g	1,150	122.00
3834	1.9" 47mm	260g	1,600	144.00

**Motor type:** outrunner

**Poles:** 22p

**Slots:** 24s

**Finned:**

**Sealed:**

**Sensored:** Optional

**Gearbox(es):** call

**Shaft size(s):** 6mm

**Max RPM:** 12,000

### 3805

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.8		ozs.	225	450
mm: 44		g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
<b>3805/100/94</b>	94	7.616	0.0	101.8	14.41	128	4
<b>3805/95/99</b>	99	6.877	0.1	96.7	13.69	121	5
<b>3805/90/104</b>	104	6.177	0.1	92.0	13.03	115	5
<b>3805/85/110</b>	110	5.514	0.1	87.0	12.32	109	5
<b>3805/80/117</b>	117	4.889	0.1	81.8	11.58	103	6
<b>3805/75/125</b>	125	4.301	0.1	76.5	10.84	96	6
<b>3805/70/134</b>	134	3.751	0.1	71.4	10.11	90	6
<b>3805/65/144</b>	144	3.239	0.1	66.4	9.41	83	7
<b>3805/60/157</b>	157	2.764	0.1	60.9	8.63	76	7
<b>3805/55/171</b>	171	2.327	0.1	56.0	7.92	70	8
<b>3805/50/188</b>	188	1.927	0.1	50.9	7.21	64	9
<b>3805/45/209</b>	209	1.565	0.1	45.8	6.48	57	10
<b>3805/40/235</b>	235	1.241	0.1	40.7	5.77	51	11
<b>3805/38/247</b>	247	1.122	0.1	38.7	5.49	49	12
<b>3805/36/261</b>	261	1.009	0.1	36.7	5.19	46	12
<b>3805/34/276</b>	276	0.901	0.1	34.7	4.91	43	13
<b>3805/32/294</b>	294	0.800	0.2	32.5	4.61	41	14
<b>3805/30/313</b>	313	0.705	0.2	30.6	4.33	38	15
<b>3805/28/335</b>	335	0.616	0.2	28.6	4.04	36	16
<b>3805/26/361</b>	361	0.533	0.2	26.5	3.75	33	17
<b>3805/24/391</b>	391	0.456	0.2	24.5	3.47	31	19
<b>3805/22/427</b>	427	0.385	0.2	22.4	3.17	28	20
<b>3805/20/470</b>	470	0.320	0.2	20.4	2.88	26	22
<b>3805/19/494</b>	494	0.289	0.3	19.4	2.74	24	23
<b>3805/18/522</b>	522	0.261	0.3	18.3	2.60	23	25
<b>3805/17/552</b>	552	0.233	0.3	17.3	2.45	22	26
<b>3805/16/587</b>	587	0.208	0.3	16.3	2.31	20	28
<b>3805/15/626</b>	626	0.183	0.3	15.3	2.16	19	30
<b>3805/14/671</b>	671	0.161	0.4	14.3	2.02	18	32
<b>3805/13/722</b>	722	0.139	0.4	13.3	1.88	17	34
<b>3805/12/783</b>	783	0.120	0.4	12.2	1.73	15	37

### 3805

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.8		<b>ozs.</b>	225	450
mm: 44		g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
<b>3805/11/854</b>	854	0.101	0.4	11.2	1.59	14	40
<b>3805/10/939</b>	939	0.085	0.5	10.2	1.44	13	44
<b>3805/9.5/989</b>	989	0.077	0.5	9.7	1.37	12	47

### 3808

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.8		<b>ozs.</b>	375	750
mm: 44		g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
<b>3808/100/59</b>	59	10.619	0.0	162.2	22.97	203	4
<b>3808/95/62</b>	62	9.588	0.1	154.3	21.85	194	5
<b>3808/90/65</b>	65	8.610	0.1	147.2	20.85	185	5
<b>3808/85/69</b>	69	7.684	0.1	138.7	19.64	174	5
<b>3808/80/73</b>	73	6.811	0.1	131.1	18.56	164	6
<b>3808/75/78</b>	78	5.991	0.1	122.7	17.37	154	6
<b>3808/70/84</b>	84	5.223	0.1	113.9	16.13	143	6
<b>3808/65/90</b>	90	4.508	0.1	106.3	15.06	133	7
<b>3808/60/98</b>	98	3.845	0.1	97.6	13.83	122	7
<b>3808/55/107</b>	107	3.235	0.1	89.4	12.66	112	8
<b>3808/50/117</b>	117	2.678	0.1	81.8	11.58	103	9
<b>3808/45/130</b>	130	2.174	0.1	73.6	10.42	92	10
<b>3808/40/147</b>	147	1.722	0.1	65.1	9.22	82	11
<b>3808/38/154</b>	154	1.555	0.1	62.1	8.80	78	12
<b>3808/36/163</b>	163	1.398	0.1	58.7	8.31	74	12
<b>3808/34/173</b>	173	1.249	0.1	55.3	7.83	69	13
<b>3808/32/183</b>	183	1.108	0.2	52.3	7.40	66	14
<b>3808/30/196</b>	196	0.975	0.2	48.8	6.91	61	15
<b>3808/28/210</b>	210	0.851	0.2	45.6	6.45	57	16
<b>3808/26/226</b>	226	0.736	0.2	42.3	6.00	53	17
<b>3808/24/245</b>	245	0.629	0.2	39.1	5.53	49	19

### 3808

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.8		ozs.	375	750
mm: 44		g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
<b>3808/22/267</b>	267	0.530	0.2	35.8	5.07	45	20
<b>3808/20/294</b>	294	0.440	0.2	32.5	4.61	41	22
<b>3808/19/309</b>	309	0.398	0.3	31.0	4.39	39	23
<b>3808/18/326</b>	326	0.358	0.3	29.4	4.16	37	25
<b>3808/17/345</b>	345	0.320	0.3	27.7	3.93	35	26
<b>3808/16/367</b>	367	0.284	0.3	26.1	3.69	33	28
<b>3808/15/391</b>	391	0.251	0.3	24.5	3.47	31	30
<b>3808/14/419</b>	419	0.219	0.4	22.8	3.23	29	32
<b>3808/13/452</b>	452	0.190	0.4	21.2	3.00	27	34
<b>3808/12/489</b>	489	0.163	0.4	19.6	2.77	25	37
<b>3808/11/534</b>	534	0.138	0.4	17.9	2.54	22	40
<b>3808/10/587</b>	587	0.115	0.5	16.3	2.31	20	44
<b>3808/9.5/618</b>	618	0.104	0.5	15.5	2.19	19	47
<b>3808/9/652</b>	652	0.094	0.5	14.7	2.08	18	49
<b>3808/8.5/691</b>	691	0.084	0.6	13.8	1.96	17	52
<b>3808/8/734</b>	734	0.075	0.6	13.0	1.85	16	56
<b>3808/7.5/783</b>	783	0.066	0.7	12.2	1.73	15	59
<b>3808/7/839</b>	839	0.058	0.7	11.4	1.62	14	63
<b>3808/6.5/903</b>	903	0.051	0.8	10.6	1.50	13	68
<b>3808/6/978</b>	978	0.044	0.8	9.8	1.39	12	74

### 3810

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.8	0.9	3.7 ozs.	460	930
mm: 44	23	105g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
<b>3810/100/47</b>	47	12.621	0.0	203.6	28.83	255	4
<b>3810/95/50</b>	50	11.395	0.1	191.4	27.10	240	5
<b>3810/90/53</b>	53	10.232	0.1	180.5	25.57	226	5
<b>3810/85/56</b>	56	9.131	0.1	170.9	24.20	214	5

### 3810

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.8	0.9	3.7 ozs.	460	930
mm: 44	23	105g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
<b>3810/80/59</b>	59	8.093	0.1	162.2	22.97	203	6
<b>3810/75/63</b>	63	7.117	0.1	151.9	21.51	190	6
<b>3810/70/68</b>	68	6.204	0.1	140.7	19.93	176	6
<b>3810/65/73</b>	73	5.354	0.1	131.1	18.56	164	7
<b>3810/60/79</b>	79	4.566	0.1	121.1	17.15	152	7
<b>3810/55/86</b>	86	3.841	0.1	111.3	15.76	140	8
<b>3810/50/95</b>	95	3.179	0.1	100.7	14.26	126	9
<b>3810/45/105</b>	105	2.579	0.1	91.1	12.90	114	10
<b>3810/40/119</b>	119	2.042	0.1	80.4	11.39	101	11
<b>3810/38/125</b>	125	1.845	0.1	76.5	10.84	96	12
<b>3810/36/132</b>	132	1.657	0.1	72.5	10.27	91	12
<b>3810/34/140</b>	140	1.480	0.1	68.3	9.68	86	13
<b>3810/32/148</b>	148	1.313	0.2	64.7	9.16	81	14
<b>3810/30/158</b>	158	1.156	0.2	60.6	8.58	76	15
<b>3810/28/169</b>	169	1.008	0.2	56.6	8.02	71	16
<b>3810/26/182</b>	182	0.871	0.2	52.6	7.45	66	17
<b>3810/24/198</b>	198	0.744	0.2	48.3	6.84	61	19
<b>3810/22/216</b>	216	0.627	0.2	44.3	6.27	56	20
<b>3810/20/237</b>	237	0.520	0.2	40.4	5.72	51	22
<b>3810/19/250</b>	250	0.470	0.3	38.3	5.42	48	23
<b>3810/18/264</b>	264	0.423	0.3	36.2	5.13	45	25
<b>3810/17/279</b>	279	0.378	0.3	34.3	4.86	43	26
<b>3810/16/296</b>	296	0.336	0.3	32.3	4.58	41	28
<b>3810/15/316</b>	316	0.296	0.3	30.3	4.29	38	30
<b>3810/14/339</b>	339	0.259	0.4	28.2	4.00	35	32
<b>3810/13/365</b>	365	0.224	0.4	26.2	3.71	33	34
<b>3810/12/395</b>	395	0.192	0.4	24.2	3.43	30	37
<b>3810/11/431</b>	431	0.162	0.4	22.2	3.14	28	40
<b>3810/10/474</b>	474	0.135	0.5	20.2	2.86	25	44
<b>3810/9.5/499</b>	499	0.122	0.5	19.2	2.72	24	47
<b>3810/9/527</b>	527	0.110	0.5	18.2	2.57	23	49

### 3810

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.8	0.9	3.7 ozs.	460	930
mm: 44	23	105g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
<b>3810/8.5/558</b>	558	0.098	0.6	17.1	2.43	22	52
<b>3810/8/593</b>	593	0.088	0.6	16.1	2.28	20	56
<b>3810/7.5/632</b>	632	0.078	0.7	15.1	2.14	19	59
<b>3810/7/678</b>	678	0.068	0.7	14.1	2.00	18	63
<b>3810/6.5/730</b>	730	0.059	0.8	13.1	1.86	16	68
<b>3810/6/791</b>	791	0.051	0.8	12.1	1.71	15	74
<b>3810/5.5/862</b>	862	0.043	0.9	11.1	1.57	14	81
<b>3810/5/949</b>	949	0.036	1.0	10.1	1.43	13	89

### 3814

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.8	1.1	4.7 ozs.	675	1,350
mm: 44	27	133g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
<b>3814/100/33</b>	33	16.626	0.0	290.0	41.06	364	4
<b>3814/95/35</b>	35	15.009	0.1	273.4	38.71	343	5
<b>3814/90/37</b>	37	13.475	0.1	258.6	36.62	324	5
<b>3814/85/39</b>	39	12.024	0.1	245.3	34.74	308	5
<b>3814/80/41</b>	41	10.655	0.1	233.4	33.05	293	6
<b>3814/75/44</b>	44	9.370	0.1	217.5	30.80	273	6
<b>3814/70/47</b>	47	8.166	0.1	203.6	28.83	255	6
<b>3814/65/51</b>	51	7.046	0.1	187.6	26.57	235	7
<b>3814/60/55</b>	55	6.008	0.1	174.0	24.64	218	7
<b>3814/55/60</b>	60	5.052	0.1	159.5	22.58	200	8
<b>3814/50/66</b>	66	4.180	0.1	145.0	20.53	182	9
<b>3814/45/73</b>	73	3.390	0.1	131.1	18.56	164	10
<b>3814/40/82</b>	82	2.683	0.1	116.7	16.52	146	11
<b>3814/38/87</b>	87	2.423	0.1	110.0	15.57	138	12
<b>3814/36/91</b>	91	2.176	0.1	105.1	14.89	132	12
<b>3814/34/97</b>	97	1.943	0.1	98.6	13.97	124	13

### 3814

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.8	1.1	4.7 ozs.	675	1,350
mm: 44	27	133g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
<b>3814/32/103</b>	103	1.723	0.2	92.9	13.16	117	14
<b>3814/30/110</b>	110	1.516	0.2	87.0	12.32	109	15
<b>3814/28/117</b>	117	1.322	0.2	81.8	11.58	103	16
<b>3814/26/126</b>	126	1.142	0.2	75.9	10.75	95	17
<b>3814/24/137</b>	137	0.975	0.2	69.8	9.89	88	19
<b>3814/22/149</b>	149	0.821	0.2	64.2	9.09	81	20
<b>3814/20/164</b>	164	0.680	0.2	58.3	8.26	73	22
<b>3814/19/173</b>	173	0.615	0.3	55.3	7.83	69	23
<b>3814/18/183</b>	183	0.553	0.3	52.3	7.40	66	25
<b>3814/17/193</b>	193	0.494	0.3	49.6	7.02	62	26
<b>3814/16/205</b>	205	0.438	0.3	46.7	6.61	59	28
<b>3814/15/219</b>	219	0.386	0.3	43.7	6.19	55	30
<b>3814/14/235</b>	235	0.337	0.4	40.7	5.77	51	32
<b>3814/13/253</b>	253	0.292	0.4	37.8	5.36	47	34
<b>3814/12/274</b>	274	0.249	0.4	34.9	4.95	44	37
<b>3814/11/299</b>	299	0.210	0.4	32.0	4.53	40	40
<b>3814/10/329</b>	329	0.175	0.5	29.1	4.12	36	44
<b>3814/9.5/346</b>	346	0.158	0.5	27.7	3.92	35	47
<b>3814/9/365</b>	365	0.142	0.5	26.2	3.71	33	49
<b>3814/8.5/387</b>	387	0.127	0.6	24.7	3.50	31	52
<b>3814/8/411</b>	411	0.113	0.6	23.3	3.30	29	56
<b>3814/7.5/438</b>	438	0.100	0.7	21.8	3.09	27	59
<b>3814/7/470</b>	470	0.088	0.7	20.4	2.88	26	63
<b>3814/6.5/506</b>	506	0.076	0.8	18.9	2.68	24	68
<b>3814/6/548</b>	548	0.065	0.8	17.5	2.47	22	74
<b>3814/5.5/598</b>	598	0.055	0.9	16.0	2.27	20	81
<b>3814/5/657</b>	657	0.046	1.0	14.6	2.06	18	89
<b>3814/4.5/731</b>	731	0.038	1.1	13.1	1.85	16	99
<b>3814/4/822</b>	822	0.030	1.2	11.6	1.65	15	111
<b>3814/3.5/939</b>	939	0.024	1.4	10.2	1.44	13	127

### 3819

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.8	1.3	5.8 ozs.	900	1,800
mm: 44	32	164g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
<b>3819/100/25</b>	25	21.631	0.0	382.7	54.20	480	4
<b>3819/95/26</b>	26	19.527	0.1	368.0	52.12	462	5
<b>3819/90/27</b>	27	17.530	0.1	354.4	50.19	444	5
<b>3819/85/29</b>	29	15.641	0.1	329.9	46.72	414	5
<b>3819/80/31</b>	31	13.859	0.1	308.7	43.71	387	6
<b>3819/75/33</b>	33	12.185	0.1	290.0	41.06	364	6
<b>3819/70/35</b>	35	10.619	0.1	273.4	38.71	343	6
<b>3819/65/38</b>	38	9.161	0.1	251.8	35.66	316	7
<b>3819/60/41</b>	41	7.810	0.1	233.4	33.05	293	7
<b>3819/55/45</b>	45	6.567	0.1	212.6	30.11	267	8
<b>3819/50/49</b>	49	5.431	0.1	195.3	27.65	245	9
<b>3819/45/55</b>	55	4.404	0.1	174.0	24.64	218	10
<b>3819/40/62</b>	62	3.484	0.1	154.3	21.85	194	11
<b>3819/38/65</b>	65	3.146	0.1	147.2	20.85	185	12
<b>3819/36/69</b>	69	2.825	0.1	138.7	19.64	174	12
<b>3819/34/73</b>	73	2.522	0.1	131.1	18.56	164	13
<b>3819/32/77</b>	77	2.235	0.2	124.3	17.60	156	14
<b>3819/30/82</b>	82	1.967	0.2	116.7	16.52	146	15
<b>3819/28/88</b>	88	1.715	0.2	108.7	15.40	136	16
<b>3819/26/95</b>	95	1.480	0.2	100.7	14.26	126	17
<b>3819/24/103</b>	103	1.263	0.2	92.9	13.16	117	19
<b>3819/22/112</b>	112	1.063	0.2	85.4	12.10	107	20
<b>3819/20/124</b>	124	0.880	0.2	77.2	10.93	97	22
<b>3819/19/130</b>	130	0.795	0.3	73.6	10.42	92	23
<b>3819/18/137</b>	137	0.715	0.3	69.8	9.89	88	25
<b>3819/17/145</b>	145	0.638	0.3	66.0	9.34	83	26
<b>3819/16/154</b>	154	0.566	0.3	62.1	8.80	78	28
<b>3819/15/165</b>	165	0.499	0.3	58.0	8.21	73	30
<b>3819/14/177</b>	177	0.435	0.4	54.1	7.66	68	32
<b>3819/13/190</b>	190	0.376	0.4	50.4	7.13	63	34
<b>3819/12/206</b>	206	0.321	0.4	46.4	6.58	58	37



### 3819

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.8	1.3	5.8 ozs.	900	1,800
mm: 44	32	164g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
<b>3819/11/225</b>	225	0.271	0.4	42.5	6.02	53	40
<b>3819/10/247</b>	247	0.225	0.5	38.7	5.49	49	44
<b>3819/9.5/260</b>	260	0.203	0.5	36.8	5.21	46	47
<b>3819/9/275</b>	275	0.183	0.5	34.8	4.93	44	49
<b>3819/8.5/291</b>	291	0.164	0.6	32.9	4.66	41	52
<b>3819/8/309</b>	309	0.145	0.6	31.0	4.39	39	56
<b>3819/7.5/330</b>	330	0.128	0.7	29.0	4.11	36	59
<b>3819/7/353</b>	353	0.112	0.7	27.1	3.84	34	63
<b>3819/6.5/380</b>	380	0.097	0.8	25.2	3.57	32	68
<b>3819/6/412</b>	412	0.083	0.8	23.2	3.29	29	74
<b>3819/5.5/449</b>	449	0.070	0.9	21.3	3.02	27	81
<b>3819/5/494</b>	494	0.059	1.0	19.4	2.74	24	89
<b>3819/4.5/549</b>	549	0.048	1.1	17.4	2.47	22	99
<b>3819/4/618</b>	618	0.038	1.2	15.5	2.19	19	111
<b>3819/3.5/706</b>	706	0.030	1.4	13.6	1.92	17	127
<b>3819/3/824</b>	824	0.022	1.6	11.6	1.64	15	148
<b>3819/2.5/989</b>	989	0.016	2.0	9.7	1.37	12	178

### 3825

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.8	1.6	7.1 ozs.	1,150	2,300
mm: 44	40	201g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
<b>3825/100/19</b>	19	27.638	0.0	503.6	71.32	632	4
<b>3825/95/20</b>	20	24.948	0.1	478.4	67.75	600	5
<b>3825/90/21</b>	21	22.395	0.1	455.6	64.52	571	5
<b>3825/85/23</b>	23	19.980	0.1	416.0	58.91	522	5
<b>3825/80/24</b>	24	17.703	0.1	398.7	56.46	500	6
<b>3825/75/26</b>	26	15.564	0.1	368.0	52.12	462	6
<b>3825/70/27</b>	27	13.562	0.1	354.4	50.19	444	6

### 3825

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.8	1.6	7.1 ozs.	1,150	2,300
mm: 44	40	201g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
<b>3825/65/29</b>	29	11.698	0.1	329.9	46.72	414	7
<b>3825/60/32</b>	32	9.972	0.1	299.0	42.34	375	7
<b>3825/55/35</b>	35	8.384	0.1	273.4	38.71	343	8
<b>3825/50/38</b>	38	6.933	0.1	251.8	35.66	316	9
<b>3825/45/43</b>	43	5.620	0.1	222.5	31.51	279	10
<b>3825/40/48</b>	48	4.445	0.1	199.3	28.23	250	11
<b>3825/38/50</b>	50	4.013	0.1	191.4	27.10	240	12
<b>3825/36/53</b>	53	3.604	0.1	180.5	25.57	226	12
<b>3825/34/56</b>	56	3.216	0.1	170.9	24.20	214	13
<b>3825/32/60</b>	60	2.851	0.2	159.5	22.58	200	14
<b>3825/30/64</b>	64	2.507	0.2	149.5	21.17	188	15
<b>3825/28/68</b>	68	2.186	0.2	140.7	19.93	176	16
<b>3825/26/74</b>	74	1.886	0.2	129.3	18.31	162	17
<b>3825/24/80</b>	80	1.609	0.2	119.6	16.94	150	19
<b>3825/22/87</b>	87	1.354	0.2	110.0	15.57	138	20
<b>3825/20/96</b>	96	1.121	0.2	99.7	14.11	125	22
<b>3825/19/101</b>	101	1.012	0.3	94.7	13.42	119	23
<b>3825/18/106</b>	106	0.909	0.3	90.3	12.78	113	25
<b>3825/17/113</b>	113	0.812	0.3	84.7	11.99	106	26
<b>3825/16/120</b>	120	0.720	0.3	79.7	11.29	100	28
<b>3825/15/128</b>	128	0.634	0.3	74.8	10.59	94	30
<b>3825/14/137</b>	137	0.553	0.4	69.8	9.89	88	32
<b>3825/13/147</b>	147	0.478	0.4	65.1	9.22	82	34
<b>3825/12/160</b>	160	0.408	0.4	59.8	8.47	75	37
<b>3825/11/174</b>	174	0.344	0.4	55.0	7.79	69	40
<b>3825/10/192</b>	192	0.285	0.5	49.8	7.06	63	44
<b>3825/9.5/202</b>	202	0.258	0.5	47.4	6.71	59	47
<b>3825/9/213</b>	213	0.232	0.5	44.9	6.36	56	49
<b>3825/8.5/225</b>	225	0.207	0.6	42.5	6.02	53	52
<b>3825/8/240</b>	240	0.184	0.6	39.9	5.65	50	56
<b>3825/7.5/255</b>	255	0.162	0.7	37.5	5.31	47	59

### 3825

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.8	1.6	7.1 ozs.	1,150	2,300
mm: 44	40	201g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
<b>3825/7/274</b>	274	0.142	0.7	34.9	4.95	44	63
<b>3825/6.5/295</b>	295	0.122	0.8	32.4	4.59	41	68
<b>3825/6/319</b>	319	0.105	0.8	30.0	4.25	38	74
<b>3825/5.5/348</b>	348	0.088	0.9	27.5	3.89	34	81
<b>3825/5/383</b>	383	0.074	1.0	25.0	3.54	31	89
<b>3825/4.5/426</b>	426	0.060	1.1	22.5	3.18	28	99
<b>3825/4/479</b>	479	0.048	1.2	20.0	2.83	25	111
<b>3825/3.5/547</b>	547	0.037	1.4	17.5	2.48	22	127
<b>3825/3/639</b>	639	0.028	1.6	15.0	2.12	19	148
<b>3825/2.5/766</b>	766	0.020	2.0	12.5	1.77	16	178
<b>3825/2/958</b>	958	0.013	2.5	10.0	1.41	13	222

### 3834

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.8	1.9	9.2 ozs.	1,600	3,200
mm: 44	47	260g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
<b>3834/100/14</b>	14	36.648	0.0	683.5	96.79	857	4
<b>3834/95/15</b>	15	33.079	0.1	637.9	90.33	800	5
<b>3834/90/15</b>	15	29.693	0.1	637.9	90.33	800	5
<b>3834/85/16</b>	16	26.490	0.1	598.0	84.69	750	5
<b>3834/80/17</b>	17	23.470	0.1	562.8	79.71	706	6
<b>3834/75/18</b>	18	20.632	0.1	531.6	75.28	667	6
<b>3834/70/20</b>	20	17.977	0.1	478.4	67.75	600	6
<b>3834/65/21</b>	21	15.505	0.1	455.6	64.52	571	7
<b>3834/60/23</b>	23	13.216	0.1	416.0	58.91	522	7
<b>3834/55/25</b>	25	11.109	0.1	382.7	54.20	480	8
<b>3834/50/28</b>	28	9.185	0.1	341.7	48.39	429	9
<b>3834/45/31</b>	31	7.444	0.1	308.7	43.71	387	10
<b>3834/40/35</b>	35	5.886	0.1	273.4	38.71	343	11

### 3834

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.8	1.9	9.2 ozs.	1,600	3,200
mm: 44	47	260g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
<b>3834/38/36</b>	36	5.314	0.1	265.8	37.64	333	12
<b>3834/36/38</b>	38	4.771	0.1	251.8	35.66	316	12
<b>3834/34/41</b>	41	4.258	0.1	233.4	33.05	293	13
<b>3834/32/43</b>	43	3.773	0.2	222.5	31.51	279	14
<b>3834/30/46</b>	46	3.318	0.2	208.0	29.46	261	15
<b>3834/28/49</b>	49	2.892	0.2	195.3	27.65	245	16
<b>3834/26/53</b>	53	2.495	0.2	180.5	25.57	226	17
<b>3834/24/58</b>	58	2.128	0.2	165.0	23.36	207	19
<b>3834/22/63</b>	63	1.790	0.2	151.9	21.51	190	20
<b>3834/20/69</b>	69	1.481	0.2	138.7	19.64	174	22
<b>3834/19/73</b>	73	1.337	0.3	131.1	18.56	164	23
<b>3834/18/77</b>	77	1.201	0.3	124.3	17.60	156	25
<b>3834/17/81</b>	81	1.072	0.3	118.1	16.73	148	26
<b>3834/16/86</b>	86	0.951	0.3	111.3	15.76	140	28
<b>3834/15/92</b>	92	0.837	0.3	104.0	14.73	130	30
<b>3834/14/99</b>	99	0.730	0.4	96.7	13.69	121	32
<b>3834/13/106</b>	106	0.630	0.4	90.3	12.78	113	34
<b>3834/12/115</b>	115	0.538	0.4	83.2	11.78	104	37
<b>3834/11/126</b>	126	0.453	0.4	75.9	10.75	95	40
<b>3834/10/138</b>	138	0.375	0.5	69.3	9.82	87	44
<b>3834/9.5/145</b>	145	0.339	0.5	66.0	9.34	83	47
<b>3834/9/153</b>	153	0.305	0.5	62.5	8.86	78	49
<b>3834/8.5/162</b>	162	0.272	0.6	59.1	8.36	74	52
<b>3834/8/173</b>	173	0.241	0.6	55.3	7.83	69	56
<b>3834/7.5/184</b>	184	0.213	0.7	52.0	7.36	65	59
<b>3834/7/197</b>	197	0.186	0.7	48.6	6.88	61	63
<b>3834/6.5/212</b>	212	0.161	0.8	45.1	6.39	57	68
<b>3834/6/230</b>	230	0.137	0.8	41.6	5.89	52	74
<b>3834/5.5/251</b>	251	0.116	0.9	38.1	5.40	48	81
<b>3834/5/276</b>	276	0.096	1.0	34.7	4.91	43	89
<b>3834/4.5/307</b>	307	0.078	1.1	31.2	4.41	39	99

**3834**

	Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch:	1.8	1.9	9.2 ozs.	1,600	3,200
mm:	44	47	260g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	Constant inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
<b>3834/4/345</b>	345	0.062	1.2	27.7	3.93	35	111
<b>3834/3.5/395</b>	395	0.048	1.4	24.2	3.43	30	127
<b>3834/3/460</b>	460	0.036	1.6	20.8	2.95	26	148
<b>3834/2.5/552</b>	552	0.025	2.0	17.3	2.45	22	178
<b>3834/2/691</b>	691	0.016	2.5	13.8	1.96	17	222
<b>3834/1.5/921</b>	921	0.010	3.3	10.4	1.47	13	296

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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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