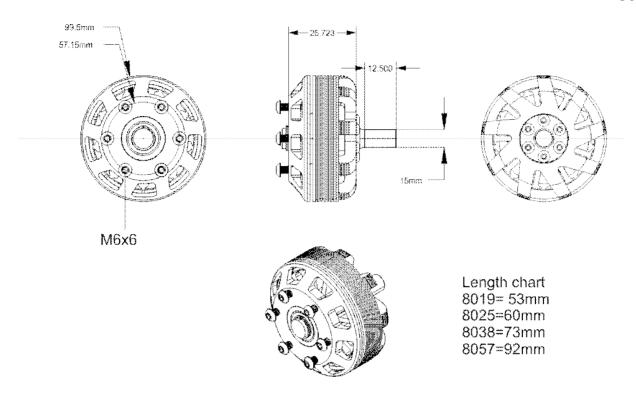
8000 SERIES



## Stator lengths available:

Model	Length (in) / (mm)	Weight(g)	<b>Continuous Watts</b>	<b>Base Price</b>
8012	2.0" 51mm	590g	2,250	394.00
8012-F3A	2.0" 51mm	590g	2,250	394.00
8019	2.1" 53mm	1219g	3,500	330.00
8025	2.4" 60mm	1450g	4,600	370.00
8038	2.9" 73mm	1970g	7,125	454.00
8057	3.6" 92mm	2659g	10,600	578.00

Neu 80xx series outrunners are perfect for many UAV, industrial, and commercial, applications where medical grade performance and quality are required.

The motor shafts are modular, and front or rear mounting options are available. The 18 slot 16 pole magnetic design is optimized for the 4,000-8,000 RPM range. There are 3 lengths available with 2 winding options for each.

The 8019 is perfect for 12S(44.4v) projects and the 8038 and 8057 will reach full potential on 14S(51.8v) to 18S(66.6v.)

A special 18mm O.D. collet adapter is available.

- Industrial blowers
- UAV multicopter heavy lift
- Off-road tricycles
- battlebots
- industrial jackhammers





Motor type: outrunner

Poles: 16p Slots: 18s Finned: Optional

Sealed: No

Sensored: No

Gearbox(es): call

**Shaft size(s):** prop adapter

2,250

4,500

Max RPM: 12,000

8012 Diam. Length Weight Max Cont. Max Peak Watts Watts

inch: 4.0 2.0 24.3 ozs.

				4.0	2.0	24.5 023.	2,23	0 4,300
			mm:	102	51	688g		
					Torque (		Max Volts	Saturation Amps
Motor		Rm Ohms	lo @ :		mNm/A	inOz/A	(max rpm/Kv)	
8012/100/23	23	1.788	0.081		416.018	58.913	522	10
8012/85/27	27	1.295	0.095		354.385	50.185	444	12
8012/75/30	30	1.010	0.108		318.947	45.167	400	14
8012/65/35	35	0.760	0.125		273.383	38.714	343	16
8012/55/41	41	0.546	0.147		233.376	33.049	293	19
8012/50/45	45	0.453	0.162		212.631	30.111	267	20
8012/45/50	50	0.368	0.180		191.368	27.100	240	23
8012/40/57	57	0.291	0.203		167.867	23.772	211	26
8012/38/60	60	0.263	0.213		159.473	22.583	200	27
8012/36/63	63	0.237	0.225		151.879	21.508	190	28
8012/34/67	67	0.212	0.238		142.812	20.224	179	30
8012/32/71	71	0.188	0.253		134.766	19.085	169	32
8012/30/75	75	0.166	0.270		127.579	18.067	160	34
8012/28/81	81	0.145	0.289		118.128	16.728	148	36
8012/26/87	87	0.125	0.312		109.982	15.575	138	39
8012/24/94	94	0.107	0.338		101.792	14.415	128	42
8012/22/103	103	0.090	0.368		92.897	13.155	117	46
8012/20/113	113	0.075	0.405		84.676	11.991	106	51
8012/19/119	119	0.068	0.426		80.407	11.387	101	54
8012/18/126	126	0.061	0.450		75.940	10.754	95	57
8012/17/133	133	0.055	0.476		71.943	10.188	90	60
8012/16/142	142	0.049	0.506		67.383	9.542	85	64
8012/15/151	151	0.043	0.540		63.367	8.974	79	68
8012/14/162	162	0.038	0.579		59.064	8.364	74	73
8012/13/174	174	0.033	0.623		54.991	7.787	69	78
8012/12/189	189	0.028	0.675		50.626	7.169	63	85
8012/11/206	206	0.024	0.736		46.449	6.578	58	93
8012/10/226	226	0.020	0.810		42.338	5.996	53	102



8012			1	Diam.	Length	Weight	Max Co Watt	nt. Max Peak s Watts
			inch:	4.0	2.0	24.3 ozs.	2,25	0 4,500
			mm:	102	51	688g		
Motor	KV	Rm Ohms	lo @ :	100	Torque mNm/A	Constant inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
8012/9.5/238	238	0.018	0.853		40.203	5.693	50	107
8012/9/252	252	0.016	0.900		37.970	5.377	48	113
8012/8.5/266	266	0.015	0.953		35.971	5.094	45	120
8012/8/283	283	0.013	1.013		33.811	4.788	42	128
8012/7.5/302	302	0.012	1.080		31.683	4.487	40	136
8012/7/323	323	0.012	1.157		29.624	4.195	37	146
8012/6.5/348	348	0.010	1.246		27.495	3.894	34	157
8012/6/377	377	0.003	1.350		25.380	3.594	32	170
8012/5.5/412	412	0.008	1.473		23.224	3.289	29	185
8012/5/453	453	0.007	1.620		21.122	2.991	26	204
0012/3/433	+33	0.000	1.020		21.122	2.551	20	204
8012-F3A			I	Diam.	Length	Weight		nt. Max Peak
			inch:	4.0	2.0	24.3 ozs.	Watt 2,25	
			mm:	102	51	688g	2)23	.,500
				102	31	0006		
Motor	KV	Rm Ohms	lo @ :	10v	•	Constant inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
8012/225	230	0.021	0.900	ı	41.602	5.891	52	102
8019			ı	Diam.	Length	Weight	Max Co Watt	nt. Max Peak s Watts
			inch:	4.0	2.1	43 ozs.	3,50	
			mm:	102	53	1217g		
Motor	KV	Rm Ohms	lo @ :	10v	Torque mNm/A	Constant inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
8019/100/14	14	2.413	0.081		683.457	96.786	857	10
8019/85/17	17	1.746	0.095		562.847	79.706	706	12
8019/80/18	18	1.548	0.101		531.578	75.278	667	13
8019/65/22	22	1.024	0.125		434.927	61.591	545	16
8019/55/26	26	0.735	0.147		368.015	52.115	462	19
8019/45/32	32	0.494	0.180		299.013	42.344	375	23



8019			Dian	n. Length	Weight	Max Coi Watts	nt. Max Peak s Watts
			inch: 4.0	2.1	43 ozs.	3,500	
			mm: 102	2 53	1217g		
				T	Stt	N 4 ) / - l + -	Catamatian Amana
Motor	KV	Rm Ohms	lo @ 10v	Torque ( mNm/A		Max Volts (max rpm/Kv)	Saturation Amps
8019/40/36	36	0.391	0.203	265.789	37.639	333	26
8019/36/40	40	0.318	0.225	239.210	33.875	300	28
8019/32/45	45	0.252	0.253	212.631	30.111	267	32
8019/28/51	51	0.194	0.289	187.616	26.569	235	36
8019/26/55	55	0.167	0.312	173.971	24.636	218	39
8019/24/60	60	0.143	0.338	159.473	22.583	200	42
8019/22/65	65	0.121	0.368	147.206	20.846	185	46
8019/20/71	71	0.100	0.405	134.766	19.085	169	51
8019/19/75	75	0.091	0.426	127.579	18.067	160	54
8019/18/79	79	0.081	0.450	121.119	17.152	152	57
8019/17/84	84	0.073	0.476	113.910	16.131	143	60
8019/16/89	89	0.065	0.506	107.510	15.225	135	64
8019/15/95	95	0.057	0.540	100.720	14.263	126	68
8019/14/102	102	0.050	0.579	93.808	13.284	118	73
8019/13/110	110	0.043	0.623	86.985	12.318	109	78
8019/12/119	119	0.037	0.675	80.407	11.387	101	85
8019/11/130	130	0.031	0.736	73.603	10.423	92	93
8019/10/143	143	0.026	0.810	66.912	9.476	84	102
8019/9.5/151	151	0.024	0.853	63.367	8.974	79	107
8019/9/159	159	0.021	0.900	60.179	8.522	75	113
8019/8.5/168	168	0.019	0.953	56.955	8.065	71	120
8019/8/179	179	0.017	1.013	53.455	7.570	67	128
8019/7.5/191	191	0.015	1.080	50.096	7.094	63	136
8019/7/204	204	0.013	1.157	46.904	6.642	59	146
8019/6.5/220	220	0.012	1.246	43.493	6.159	55	157
8019/6/238	238	0.010	1.350	40.203	5.693	50	170
8019/5.5/260	260	0.008	1.473	36.802	5.212	46	185
8019/5/286	286	0.007	1.620	33.456	4.738	42	204
8019/4.5/318	318	0.006	1.800	30.089	4.261	38	227
8019/4/357	357	0.005	2.025	26.802	3.796	34	255
8019/3.5/409	409	0.004	2.314	23.395	3.313	29	291



8019			Diam	n. Length	Weight		nt. Max Peak
			inch: 4.0	2.1	43 ozs.	Watt 3,50	
			mm: 102		1217g	-,	, -
Motor	KV	Rm Ohms	lo @ 10v	Torque mNm/A	Constant inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
8019/3/477	477	0.003	2.700	20.060	2.841	25	340
8025			Diam	n. Length	Weight	Max Co Watt	nt. Max Peak s Watts
			inch: 4.0	2.4	51.1 ozs.	4,60	0 9,375
			mm: 102	2 60	1446g		
Motor	KV	Rm Ohms	lo @ 10v	•	Constant inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
8025/100/11	11	2.948	0.081	869.855	123.182	1,091	10
8025/80/14	14	1.890	0.101	683.457	96.786	857	13
8025/60/18	18	1.067	0.135	531.578	75.278	667	17
8025/50/22	22	0.743	0.162	434.927	61.591	545	20
8025/40/27	27	0.477	0.203	354.385	50.185	444	26
8025/36/30	30	0.387	0.225	318.947	45.167	400	28
8025/32/34	34	0.307	0.253	281.424	39.853	353	32
8025/28/39	39	0.236	0.289	245.344	34.744	308	36
8025/26/42	42	0.204	0.312	227.819	32.262	286	39
8025/24/45	45	0.174	0.338	212.631	30.111	267	42
8025/22/49	49	0.147	0.368	195.274	27.653	245	46
8025/20/54	54	0.121	0.405	177.193	25.093	222	51
8025/19/57	57	0.110	0.426	167.867	23.772	211	54
8025/18/60	60	0.099	0.450	159.473	22.583	200	57
8025/17/64	64	0.088	0.476	149.506	21.172	188	60
8025/16/68	68	0.078	0.506	140.712	19.926	176	64
8025/15/72	72	0.069	0.540	132.894	18.819	167	68
8025/14/78	78	0.060	0.579	122.672	17.372	154	73
8025/13/84	84	0.052	0.623	113.910	16.131	143	78
8025/12/91	91	0.045	0.675	105.147	14.890	132	85
8025/11/99	99	0.038	0.736	96.651	13.687	121	93
8025/10/109	109	0.031	0.810	87.784	12.431	110	102
8025/9.5/114	114	0.029	0.853	83.933	11.886	105	107



Oct. 15, 2023

Motor         KV         Rm Ohms         lo @ 10v         Torque Constant mMn/A inO2/A (max rpm/kv)         Max Volts (max rpm/kv)         Saturation Amps           8025/9/121         121         0.026         0.900         79.078         11.198         99         113           8025/8.5/128         128         0.023         0.953         74.753         10.586         94         120           8025/8/136         136         0.021         1.013         70.356         9.963         88         128           8025/7.5/145         145         0.018         1.080         65.989         9.345         83         136           8025/6.5/167         167         0.014         1.246         57.296         8.114         72         157           8025/6.5/167         167         0.014         1.246         57.296         8.114         72         157           8025/5.5/198         198         0.010         1.473         48.325         6.843         61         185           8025/4.5/217         217         0.008         1.620         44.094         6.244         55         204           8025/4.5/241         241         0.007         1.800         39.703         5.622         50 </th
Motor         KV         Rm Ohms         lo @ 10v         mNm/A         inOz/A         (max rpm/Kv)           8025/9/121         121         0.026         0.900         79.078         11.198         99         113           8025/8.5/128         128         0.023         0.953         74.753         10.586         94         120           8025/8/136         136         0.021         1.013         70.356         9.963         88         128           8025/7.5/145         145         0.018         1.080         65.989         9.345         83         136           8025/7.5/145         145         0.016         1.157         61.732         8.742         77         146           8025/6.5/167         167         0.014         1.246         57.296         8.114         72         157           8025/6.181         181         0.012         1.350         52.864         7.486         66         170           8025/5.5/198         198         0.010         1.473         48.325         6.843         61         185           8025/5.5/217         217         0.008         1.620         44.094         6.244         55         204           8
8025/9/121       121       0.026       0.900       79.078       11.198       99       113         8025/8.5/128       128       0.023       0.953       74.753       10.586       94       120         8025/8/136       136       0.021       1.013       70.356       9.963       88       128         8025/7.5/145       145       0.018       1.080       65.989       9.345       83       136         8025/7.155       155       0.016       1.157       61.732       8.742       77       146         8025/6.5/167       167       0.014       1.246       57.296       8.114       72       157         8025/6/181       181       0.012       1.350       52.864       7.486       66       170         8025/5.5/198       198       0.010       1.473       48.325       6.843       61       185         8025/5/217       217       0.008       1.620       44.094       6.244       55       204         8025/4.5/241       241       0.007       1.800       39.703       5.622       50       227         8025/3.5/310       310       0.004       2.314       30.866       4.371       39
8025/8/136       136       0.021       1.013       70.356       9.963       88       128         8025/7.5/145       145       0.018       1.080       65.989       9.345       83       136         8025/7/155       155       0.016       1.157       61.732       8.742       77       146         8025/6.5/167       167       0.014       1.246       57.296       8.114       72       157         8025/6/181       181       0.012       1.350       52.864       7.486       66       170         8025/5.5/198       198       0.010       1.473       48.325       6.843       61       185         8025/5/217       217       0.008       1.620       44.094       6.244       55       204         8025/4.5/241       241       0.007       1.800       39.703       5.622       50       227         8025/4/272       272       0.006       2.025       35.178       4.982       44       255         8025/3/362       362       0.003       2.700       26.432       3.743       33       340         8025/2.5/435       435       0.002       3.240       21.996       3.115       28       <
8025/7.5/145       145       0.018       1.080       65.989       9.345       83       136         8025/7/155       155       0.016       1.157       61.732       8.742       77       146         8025/6.5/167       167       0.014       1.246       57.296       8.114       72       157         8025/6/181       181       0.012       1.350       52.864       7.486       66       170         8025/5.5/198       198       0.010       1.473       48.325       6.843       61       185         8025/5/217       217       0.008       1.620       44.094       6.244       55       204         8025/4.5/241       241       0.007       1.800       39.703       5.622       50       227         8025/4/272       272       0.006       2.025       35.178       4.982       44       255         8025/3/362       362       0.003       2.700       26.432       3.743       33       340         8025/2.5/435       435       0.002       3.240       21.996       3.115       28       408
8025/7/155       155       0.016       1.157       61.732       8.742       77       146         8025/6.5/167       167       0.014       1.246       57.296       8.114       72       157         8025/6/181       181       0.012       1.350       52.864       7.486       66       170         8025/5.5/198       198       0.010       1.473       48.325       6.843       61       185         8025/5/217       217       0.008       1.620       44.094       6.244       55       204         8025/4.5/241       241       0.007       1.800       39.703       5.622       50       227         8025/4/272       272       0.006       2.025       35.178       4.982       44       255         8025/3.5/310       310       0.004       2.314       30.866       4.371       39       291         8025/3/362       362       0.003       2.700       26.432       3.743       33       340         8025/2.5/435       435       0.002       3.240       21.996       3.115       28       408
8025/6.5/167       167       0.014       1.246       57.296       8.114       72       157         8025/6/181       181       0.012       1.350       52.864       7.486       66       170         8025/5.5/198       198       0.010       1.473       48.325       6.843       61       185         8025/5/217       217       0.008       1.620       44.094       6.244       55       204         8025/4.5/241       241       0.007       1.800       39.703       5.622       50       227         8025/4/272       272       0.006       2.025       35.178       4.982       44       255         8025/3.5/310       310       0.004       2.314       30.866       4.371       39       291         8025/3/362       362       0.003       2.700       26.432       3.743       33       340         8025/2.5/435       435       0.002       3.240       21.996       3.115       28       408
8025/6/181       181       0.012       1.350       52.864       7.486       66       170         8025/5.5/198       198       0.010       1.473       48.325       6.843       61       185         8025/5/217       217       0.008       1.620       44.094       6.244       55       204         8025/4.5/241       241       0.007       1.800       39.703       5.622       50       227         8025/4/272       272       0.006       2.025       35.178       4.982       44       255         8025/3.5/310       310       0.004       2.314       30.866       4.371       39       291         8025/3/362       362       0.003       2.700       26.432       3.743       33       340         8025/2.5/435       435       0.002       3.240       21.996       3.115       28       408
8025/5.5/198       198       0.010       1.473       48.325       6.843       61       185         8025/5/217       217       0.008       1.620       44.094       6.244       55       204         8025/4.5/241       241       0.007       1.800       39.703       5.622       50       227         8025/4/272       272       0.006       2.025       35.178       4.982       44       255         8025/3.5/310       310       0.004       2.314       30.866       4.371       39       291         8025/3/362       362       0.003       2.700       26.432       3.743       33       340         8025/2.5/435       435       0.002       3.240       21.996       3.115       28       408
8025/5/217       217       0.008       1.620       44.094       6.244       55       204         8025/4.5/241       241       0.007       1.800       39.703       5.622       50       227         8025/4/272       272       0.006       2.025       35.178       4.982       44       255         8025/3.5/310       310       0.004       2.314       30.866       4.371       39       291         8025/3/362       362       0.003       2.700       26.432       3.743       33       340         8025/2.5/435       435       0.002       3.240       21.996       3.115       28       408
8025/4.5/241       241       0.007       1.800       39.703       5.622       50       227         8025/4/272       272       0.006       2.025       35.178       4.982       44       255         8025/3.5/310       310       0.004       2.314       30.866       4.371       39       291         8025/3/362       362       0.003       2.700       26.432       3.743       33       340         8025/2.5/435       435       0.002       3.240       21.996       3.115       28       408
8025/4/272       272       0.006       2.025       35.178       4.982       44       255         8025/3.5/310       310       0.004       2.314       30.866       4.371       39       291         8025/3/362       362       0.003       2.700       26.432       3.743       33       340         8025/2.5/435       435       0.002       3.240       21.996       3.115       28       408
8025/3.5/310       310       0.004       2.314       30.866       4.371       39       291         8025/3/362       362       0.003       2.700       26.432       3.743       33       340         8025/2.5/435       435       0.002       3.240       21.996       3.115       28       408             8038       Diam.       Length       Weight       Max Cont.       Max Peak Watts
8025/3/362       362       0.003       2.700       26.432       3.743       33       340         8025/2.5/435       435       0.002       3.240       21.996       3.115       28       408         8038         Diam. Length Weight Weight Watts Watts
8025/2.5/435 435 0.002 3.240 21.996 3.115 28 408  8038 Diam. Length Weight Max Cont. Max Peak Watts Watts
8038 Diam. Length Weight Max Cont. Max Peak Watts Watts
Watts Watts
inch: 40 20 60 F 075 7 12F 142F0
1,125 14,250
mm: 102 73 1967g
Torque Constant Max Volts <b>Saturation Amps</b> Motor KV Rm Ohms Io @ 10v mNm/A inOz/A (max rpm/Kv)
<b>8038/75/10</b> 10 2.315 0.108 956.840 135.500 1,200 14
<b>8038/40/18</b> 18 0.663 0.203 531.578 75.278 667 26
<b>8038/34/21</b> 21 0.480 0.238 455.638 64.524 571 30
<b>8038/30/24</b> 24 0.374 0.270 398.683 56.458 500 34
<b>8038/24/30</b> 30 0.241 0.338 318.947 45.167 400 42
<b>8038/20/36</b> 36 0.168 0.405 265.789 37.639 333 51
<b>8038/18/40</b> 40 0.136 0.450 239.210 33.875 300 57
<b>8038/16/45</b> 45 0.108 0.506 212.631 30.111 267 64
8038/16/45       45       0.108       0.506       212.631       30.111       267       64         8038/15/48       48       0.095       0.540       199.342       28.229       250       68



8038			Diam	ı. Length	Weight		. Max Peak
			inch: 4.0	2.9	69.5 ozs.	Watts 7,125	Watts 14,250
			mm: 102	2 73	1967g		
Motor	KV	Rm Ohms	lo @ 10v	Torque mNm/A	Constant inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
8038/13/55	55	0.072	0.623	173.971	24.636	218	78
8038/12/60	60	0.062	0.675	159.473	22.583	200	85
8038/11/65	65	0.052	0.736	147.206	20.846	185	93
8038/10/71	71	0.043	0.810	134.766	19.085	169	102
8038/9.5/75	75	0.039	0.853	127.579	18.067	160	107
8038/9/79	79	0.035	0.900	121.119	17.152	152	113
8038/8.5/84	84	0.031	0.953	113.910	16.131	143	120
8038/8/89	89	0.028	1.013	107.510	15.225	135	128
8038/7.5/95	95	0.025	1.080	100.720	14.263	126	136
8038/7/102	102	0.022	1.157	93.808	13.284	118	146
8038/6.5/110	110	0.019	1.246	86.985	12.318	109	157
8038/6/119	119	0.016	1.350	80.407	11.387	101	170
8038/5.5/130	130	0.014	1.473	73.603	10.423	92	185
8038/5/143	143	0.011	1.620	66.912	9.476	84	204
8038/4.5/159	159	0.009	1.800	60.179	8.522	75	227
8038/4/179	179	0.007	2.025	53.455	7.570	67	255
8038/3.5/204	204	0.006	2.314	46.904	6.642	59	291
8038/3/238	238	0.004	2.700	40.203	5.693	50	340
8038/2.5/286	286	0.003	3.240	33.456	4.738	42	408
8038/2/357	357	0.002	4.050	26.802	3.796	34	510
8038/1.5/477	477	0.001	5.400	20.060	2.841	25	680
8057			Diam	ı. Length	Weight	Max Cont Watts	. Max Peak Watts
			inch: 4.0	3.6	93.8 ozs.	10,600	
			mm: 102	92	2655g		
		:		•	Constant		Saturation Amps
Motor	KV	Rm Ohms	lo @ 10v	-	inOz/A	(max rpm/Kv)	10
8057/100/5	5	5.804		1913.681	271.000	2,400	10
8057/55/9	9	1.761	0.147	1063.156	150.556	1,333	19
8057/40/12	12	0.934	0.203	797.367	112.917	1,000	26



8057			inch:	Diam. 4.0	Length	Weight 93.8 ozs.	Max Co Watt: 10,60	
			mm:	102	92	2655g	_0,00	,
Motor	KV	Rm Ohms	lo @ 1	10v	Torque mNm/A	Constant inOz/A	Max Volts (max rpm/Kv)	Saturation Amps
8057/32/15	15	0.599	0.253		637.894	90.333	800	32
8057/24/20	20	0.338	0.338		478.420	67.750	600	42
8057/20/24	24	0.236	0.405		398.683	56.458	500	51
8057/17/28	28	0.171	0.476		341.729	48.393	429	60
8057/15/32	32	0.133	0.540		299.013	42.344	375	68
8057/13/37	37	0.101	0.623		258.605	36.622	324	78
8057/12/40	40	0.086	0.675		239.210	33.875	300	85
8057/11/43	43	0.072	0.736		222.521	31.512	279	93
8057/10/48	48	0.060	0.810		199.342	28.229	250	102
8057/9.5/50	50	0.054	0.853		191.368	27.100	240	107
8057/9/53	53	0.049	0.900		180.536	25.566	226	113
8057/8.5/56	56	0.044	0.953		170.864	24.196	214	120
8057/8/60	60	0.039	1.013		159.473	22.583	200	128
8057/7.5/64	64	0.034	1.080		149.506	21.172	188	136
8057/7/68	68	0.030	1.157		140.712	19.926	176	146
8057/6.5/73	73	0.026	1.246		131.074	18.562	164	157
8057/6/79	79	0.022	1.350		121.119	17.152	152	170
8057/5.5/87	87	0.019	1.473		109.982	15.575	138	185
8057/5/95	95	0.016	1.620		100.720	14.263	126	204
8057/4.5/106	106	0.013	1.800		90.268	12.783	113	227
8057/4/119	119	0.010	2.025		80.407	11.387	101	255
8057/3.5/136	136	0.008	2.314		70.356	9.963	88	291
8057/3/159	159	0.006	2.700		60.179	8.522	75	340
8057/2.5/191	191	0.004	3.240		50.096	7.094	63	408
8057/2/238	238	0.003	4.050		40.203	5.693	50	510
8057/1.5/318	318	0.002	5.400		30.089	4.261	38	680
8057/1/477	477	0.001	8.100		20.060	2.841	25	1,020



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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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