



Stator lengths available:

Model	Length (in) / (mm)	Weight(g)	Continuous Watts	Base Price
1902	1.6" / 41mm	125g	300	186.00
1905	1.8" / 44mm	181g	600	230.00
1907	2.0" / 51mm	235g	900	274.00
1910	2.3" / 57mm	284g	1,200	329.00
1912	2.5" / 64mm	340g	1,500	362.00
1915	2.8" / 70mm	397g	1,800	428.00
1917	3.3" / 83mm	454g	2,100	439.00
1920	3.3" / 83mm	510g	2,500	450.00
1924	3.7" / 93mm	624g	3,000	494.00
1930	4.3" / 108mm	794g	3,500	

50mm OD 1900 Series brushless inrunner motor series offer the increased torque of large diameter rotors while keeping the advantages of non-rotating enclosures.

- Direct drive in numerous production UAV programs
- Scuba drives
- Surface water sampling
- vehicle fuel pumps

Motor type: inrunner

Finned: Optional

Gearbox(es): P32, P42

Poles: 8p

Sealed: Optional

Shaft size(s): 5, 6 or 8mm

Slots: 24s

Sensored: Optional

Max RPM: 35,000

1902

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 2.0	1.6	4.4 ozs.	300	600
mm: 51	41	125g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Max Amps (max watts/volts)
1902/6D/1224	1,224	0.026	0.510	7.817	1.107	29	21
1902/5.75D/1277	1,277	0.024	0.532	7.493	1.061	27	22
1902/5.5D/1335	1,335	0.022	0.556	7.167	1.015	26	23
1902/3Y/1360	1,360	0.020	0.567	7.036	0.996	26	23
1902/5.25D/1398	1,398	0.020	0.583	6.844	0.969	25	24
1902/5D/1468	1,468	0.018	0.612	6.518	0.923	24	25
1902/2.75Y/1483	1,483	0.017	0.618	6.452	0.914	24	25
1902/4.75D/1546	1,546	0.017	0.644	6.189	0.876	23	27
1902/2.5Y/1632	1,632	0.014	0.680	5.863	0.830	21	28
1902/4.5D/1632	1,632	0.015	0.680	5.863	0.830	21	28
1902/4.25D/1728	1,728	0.013	0.720	5.537	0.784	20	30
1902/2.25Y/1813	1,813	0.011	0.756	5.278	0.747	19	31
1902/4D/1836	1,836	0.012	0.765	5.212	0.738	19	31
1902/3.75D/1958	1,958	0.010	0.816	4.887	0.692	18	34
1902/2Y/2040	2,040	0.009	0.850	4.690	0.664	17	35
1902/3.5D/2098	2,098	0.009	0.874	4.561	0.646	17	36
1902/3.25D/2259	2,259	0.008	0.942	4.236	0.600	15	39
1902/1.75Y/2331	2,331	0.007	0.971	4.105	0.581	15	40
1902/3D/2448	2,448	0.007	1.020	3.909	0.554	14	42
1902/2.75D/2670	2,670	0.006	1.113	3.584	0.507	13	46

1905

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 2.0	1.8	6.4 ozs.	600	1,200
mm: 51	44	181g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Max Amps (max watts/volts)
1905/6D/612	612	0.053	0.510	15.635	2.214	57	21
1905/5.75D/638	638	0.048	0.532	14.997	2.124	55	22

1905

	Diam.	Length	Weight	Max Cont.	Max Peak
	inch:	2.0	1.8	Watts	Watts
	mm:	51	44	600	1,200
			6.4 ozs.		
			181g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Max Amps (max watts/volts)
1905/5.5D/667	667	0.044	0.556	14.345	2.031	52	23
1905/3Y/680	680	0.040	0.567	14.071	1.993	51	23
1905/5.25D/699	699	0.040	0.583	13.689	1.938	50	24
1905/5D/734	734	0.037	0.612	13.036	1.846	48	25
1905/2.75Y/741	741	0.033	0.618	12.913	1.829	47	25
1905/4.75D/773	773	0.033	0.644	12.378	1.753	45	27
1905/4.5D/816	816	0.030	0.680	11.726	1.661	43	28
1905/2.5Y/816	816	0.028	0.680	11.726	1.661	43	28
1905/4.25D/864	864	0.026	0.720	11.075	1.568	41	30
1905/2.25Y/906	906	0.022	0.756	10.561	1.496	39	31
1905/4D/918	918	0.023	0.765	10.423	1.476	38	31
1905/3.75D/979	979	0.021	0.816	9.774	1.384	36	34
1905/2Y/1020	1,020	0.018	0.850	9.381	1.328	34	35
1905/3.5D/1049	1,049	0.018	0.874	9.121	1.292	33	36
1905/3.25D/1129	1,129	0.015	0.942	8.475	1.200	31	39
1905/1.75Y/1165	1,165	0.013	0.971	8.213	1.163	30	40
1905/3D/1224	1,224	0.013	1.020	7.817	1.107	29	42
1905/2.75D/1335	1,335	0.011	1.113	7.167	1.015	26	46
1905/1.5Y/1360	1,360	0.010	1.133	7.036	0.996	26	47
1905/2.5D/1468	1,468	0.009	1.224	6.518	0.923	24	50
1905/1.25Y/1632	1,632	0.007	1.360	5.863	0.830	21	56
1905/2.25D/1632	1,632	0.007	1.360	5.863	0.830	21	56
1905/2D/1836	1,836	0.006	1.530	5.212	0.738	19	63
1905/1Y/2040	2,040	0.004	1.700	4.690	0.664	17	70
1905/1.75D/2098	2,098	0.004	1.749	4.561	0.646	17	72
1905/1.5D/2448	2,448	0.003	2.040	3.909	0.554	14	84

1907

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 2.0	2.0	8.3 ozs.	900	1,800
mm: 51	51	235g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Max Amps (max watts/volts)
1907/6D/408	408	0.079	0.510	23.452	3.321	86	21
1907/5.75D/425	425	0.073	0.532	22.514	3.188	82	22
1907/5.5D/445	445	0.067	0.556	21.502	3.045	79	23
1907/3Y/453	453	0.059	0.567	21.122	2.991	77	23
1907/5.25D/466	466	0.061	0.583	20.533	2.908	75	24
1907/5D/489	489	0.055	0.612	19.567	2.771	72	25
1907/2.75Y/494	494	0.050	0.618	19.369	2.743	71	25
1907/4.75D/515	515	0.050	0.644	18.579	2.631	68	26
1907/4.5D/544	544	0.045	0.680	17.589	2.491	64	28
1907/2.5Y/544	544	0.041	0.680	17.589	2.491	64	28
1907/4.25D/576	576	0.040	0.720	16.612	2.352	61	30
1907/2.25Y/604	604	0.033	0.756	15.842	2.243	58	31
1907/4D/612	612	0.035	0.765	15.635	2.214	57	31
1907/3.75D/652	652	0.031	0.816	14.675	2.078	54	34
1907/2Y/680	680	0.026	0.850	14.071	1.993	51	35
1907/3.5D/699	699	0.027	0.874	13.689	1.938	50	36
1907/3.25D/753	753	0.023	0.942	12.707	1.799	46	39
1907/1.75Y/777	777	0.020	0.971	12.315	1.744	45	40
1907/3D/816	816	0.020	1.020	11.726	1.661	43	42
1907/2.75D/890	890	0.017	1.113	10.751	1.522	39	46
1907/1.5Y/906	906	0.015	1.133	10.561	1.496	39	47
1907/2.5D/979	979	0.014	1.224	9.774	1.384	36	50
1907/2.25D/1088	1,088	0.011	1.360	8.794	1.245	32	56
1907/1.25Y/1088	1,088	0.010	1.360	8.794	1.245	32	56
1907/2D/1224	1,224	0.009	1.530	7.817	1.107	29	63
1907/1Y/1360	1,360	0.007	1.700	7.036	0.996	26	70
1907/1.75D/1398	1,398	0.007	1.749	6.844	0.969	25	72
1907/1.5D/1632	1,632	0.005	2.040	5.863	0.830	21	84
1907/0.75Y/1813	1,813	0.004	2.267	5.278	0.747	19	93
1907/1.25D/1958	1,958	0.003	2.448	4.887	0.692	18	101
1907/1D/2448	2,448	0.002	3.060	3.909	0.554	14	126

1907

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 2.0	2.0	8.3 ozs.	900	1,800
mm: 51	51	235g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Max Amps (max watts/volts)
1907/0.5Y/2720	2,720	0.002	3.400	3.518	0.498	13	140

1910

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 2.0	2.3	10 ozs.	1,200	2,400
mm: 51	57	283g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Max Amps (max watts/volts)
1910/6D/306	306	0.106	0.510	31.269	4.428	114	21
1910/5.75D/319	319	0.097	0.532	29.995	4.248	110	22
1910/5.5D/333	333	0.089	0.556	28.734	4.069	105	23
1910/3Y/340	340	0.079	0.567	28.142	3.985	103	23
1910/5.25D/349	349	0.081	0.583	27.417	3.883	100	24
1910/5D/367	367	0.073	0.612	26.072	3.692	95	25
1910/2.75Y/370	370	0.067	0.618	25.861	3.662	95	25
1910/4.75D/386	386	0.066	0.644	24.789	3.510	91	26
1910/4.5D/408	408	0.059	0.680	23.452	3.321	86	28
1910/2.5Y/408	408	0.055	0.680	23.452	3.321	86	28
1910/4.25D/432	432	0.053	0.720	22.149	3.137	81	30
1910/2.25Y/453	453	0.045	0.756	21.122	2.991	77	31
1910/4D/459	459	0.047	0.765	20.846	2.952	76	31
1910/3.75D/489	489	0.041	0.816	19.567	2.771	72	34
1910/2Y/510	510	0.035	0.850	18.762	2.657	69	35
1910/3.5D/524	524	0.036	0.874	18.260	2.586	67	36
1910/3.25D/564	564	0.031	0.942	16.965	2.402	62	39
1910/1.75Y/582	582	0.027	0.971	16.441	2.328	60	40
1910/3D/612	612	0.026	1.020	15.635	2.214	57	42
1910/2.75D/667	667	0.022	1.113	14.345	2.031	52	46
1910/1.5Y/680	680	0.020	1.133	14.071	1.993	51	47
1910/2.5D/734	734	0.018	1.224	13.036	1.846	48	50
1910/2.25D/816	816	0.015	1.360	11.726	1.661	43	56

1910

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 2.0	2.3	10 ozs.	1,200	2,400
mm: 51	57	283g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Max Amps (max watts/volts)
1910/1.25Y/816	816	0.014	1.360	11.726	1.661	43	56
1910/2D/918	918	0.012	1.530	10.423	1.476	38	63
1910/1Y/1020	1,020	0.009	1.700	9.381	1.328	34	70
1910/1.75D/1049	1,049	0.009	1.749	9.121	1.292	33	72
1910/1.5D/1224	1,224	0.007	2.040	7.817	1.107	29	84
1910/0.75Y/1360	1,360	0.005	2.267	7.036	0.996	26	93
1910/1.25D/1468	1,468	0.005	2.448	6.518	0.923	24	101
1910/1D/1836	1,836	0.003	3.060	5.212	0.738	19	126
1910/0.5Y/2040	2,040	0.002	3.400	4.690	0.664	17	140
1910/0.75D/2448	2,448	0.002	4.080	3.909	0.554	14	168

1912

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 2.0	2.5	12 ozs.	1,500	3,000
mm: 51	64	340g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Max Amps (max watts/volts)
1912/6D/244	244	0.132	0.510	39.215	5.553	143	21
1912/5.75D/255	255	0.121	0.532	37.523	5.314	137	22
1912/5.5D/267	267	0.111	0.556	35.837	5.075	131	23
1912/3Y/272	272	0.099	0.567	35.178	4.982	129	23
1912/5.25D/279	279	0.101	0.583	34.295	4.857	125	24
1912/5D/293	293	0.092	0.612	32.657	4.625	119	25
1912/2.75Y/296	296	0.083	0.618	32.326	4.578	118	25
1912/4.75D/309	309	0.083	0.644	30.966	4.385	113	26
1912/4.5D/326	326	0.074	0.680	29.351	4.156	107	28
1912/2.5Y/326	326	0.069	0.680	29.351	4.156	107	28
1912/4.25D/345	345	0.066	0.720	27.735	3.928	101	30
1912/2.25Y/362	362	0.056	0.756	26.432	3.743	97	31
1912/4D/367	367	0.059	0.765	26.072	3.692	95	31
1912/3.75D/391	391	0.052	0.816	24.472	3.465	90	34

1912

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 2.0	2.5	12 ozs.	1,500	3,000
mm: 51	64	340g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Max Amps (max watts/volts)
1912/2Y/408	408	0.044	0.850	23.452	3.321	86	35
1912/3.5D/419	419	0.045	0.874	22.836	3.234	84	36
1912/3.25D/451	451	0.039	0.942	21.216	3.004	78	39
1912/1.75Y/466	466	0.034	0.971	20.533	2.908	75	40
1912/3D/489	489	0.033	1.020	19.567	2.771	72	42
1912/2.75D/534	534	0.028	1.113	17.918	2.537	66	46
1912/1.5Y/544	544	0.025	1.133	17.589	2.491	64	47
1912/2.5D/587	587	0.023	1.224	16.301	2.308	60	50
1912/1.25Y/652	652	0.017	1.360	14.675	2.078	54	56
1912/2.25D/652	652	0.019	1.360	14.675	2.078	54	56
1912/2D/734	734	0.015	1.530	13.036	1.846	48	63
1912/1Y/816	816	0.011	1.700	11.726	1.661	43	70
1912/1.75D/839	839	0.011	1.749	11.405	1.615	42	72
1912/1.5D/979	979	0.008	2.040	9.774	1.384	36	84
1912/0.75Y/1088	1,088	0.006	2.267	8.794	1.245	32	93
1912/1.25D/1175	1,175	0.006	2.448	8.143	1.153	30	101
1912/1D/1468	1,468	0.004	3.060	6.518	0.923	24	126
1912/0.5Y/1632	1,632	0.003	3.400	5.863	0.830	21	140
1912/0.75D/1958	1,958	0.002	4.080	4.887	0.692	18	168
1912/0.5D/2937	2,937	0.001	6.120	3.258	0.461	12	252

1915

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 2.0	2.8	14 ozs.	1,800	3,600
mm: 51	70	396g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Max Amps (max watts/volts)
1915/6D/204	204	0.158	0.510	46.904	6.642	172	21
1915/5.75D/212	212	0.145	0.532	45.134	6.392	165	22
1915/5.5D/222	222	0.133	0.556	43.101	6.104	158	23
1915/3Y/226	226	0.119	0.567	42.338	5.996	155	23

1915

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 2.0	2.8	14 ozs.	1,800	3,600
mm: 51	70	396g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Max Amps (max watts/volts)
1915/5.25D/233	233	0.121	0.583	41.066	5.815	150	24
1915/5D/244	244	0.110	0.612	39.215	5.553	143	25
1915/2.75Y/247	247	0.100	0.618	38.738	5.486	142	25
1915/4.75D/257	257	0.099	0.644	37.231	5.272	136	26
1915/4.5D/272	272	0.089	0.680	35.178	4.982	129	28
1915/2.5Y/272	272	0.083	0.680	35.178	4.982	129	28
1915/4.25D/288	288	0.079	0.720	33.224	4.705	122	30
1915/2.25Y/302	302	0.067	0.756	31.683	4.487	116	31
1915/4D/306	306	0.070	0.765	31.269	4.428	114	31
1915/3.75D/326	326	0.062	0.816	29.351	4.156	107	34
1915/2Y/340	340	0.053	0.850	28.142	3.985	103	35
1915/3.5D/349	349	0.054	0.874	27.417	3.883	100	36
1915/3.25D/376	376	0.046	0.942	25.448	3.604	93	39
1915/1.75Y/388	388	0.040	0.971	24.661	3.492	90	40
1915/3D/408	408	0.040	1.020	23.452	3.321	86	42
1915/2.75D/445	445	0.033	1.113	21.502	3.045	79	46
1915/1.5Y/453	453	0.030	1.133	21.122	2.991	77	47
1915/2.5D/489	489	0.027	1.224	19.567	2.771	72	50
1915/1.25Y/544	544	0.021	1.360	17.589	2.491	64	56
1915/2.25D/544	544	0.022	1.360	17.589	2.491	64	56
1915/2D/612	612	0.018	1.530	15.635	2.214	57	63
1915/1Y/680	680	0.013	1.700	14.071	1.993	51	70
1915/1.75D/699	699	0.013	1.749	13.689	1.938	50	72
1915/1.5D/816	816	0.010	2.040	11.726	1.661	43	84
1915/0.75Y/906	906	0.007	2.267	10.561	1.496	39	93
1915/1.25D/979	979	0.007	2.448	9.774	1.384	36	101
1915/1D/1224	1,224	0.004	3.060	7.817	1.107	29	126
1915/0.5Y/1360	1,360	0.003	3.400	7.036	0.996	26	140
1915/0.75D/1632	1,632	0.002	4.080	5.863	0.830	21	168
1915/0.5D/2448	2,448	0.001	6.120	3.909	0.554	14	252
1915/0.25Y/2720	2,720	0.001	6.800	3.518	0.498	13	280

1917

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 2.0	3.3	16 ozs.	2,100	4,100
mm: 51	83	453g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Max Amps (max watts/volts)
1917/6D/174	174	0.185	0.510	54.991	7.787	201	20
1917/5.75D/182	182	0.170	0.532	52.574	7.445	192	21
1917/5.5D/190	190	0.155	0.556	50.360	7.132	184	22
1917/3Y/194	194	0.139	0.567	49.322	6.985	180	23
1917/5.25D/199	199	0.141	0.583	48.082	6.809	176	23
1917/5D/209	209	0.128	0.612	45.782	6.483	167	24
1917/2.75Y/211	211	0.116	0.618	45.348	6.422	166	25
1917/4.75D/220	220	0.116	0.644	43.493	6.159	159	26
1917/4.5D/233	233	0.104	0.680	41.066	5.815	150	27
1917/2.5Y/233	233	0.096	0.680	41.066	5.815	150	27
1917/4.25D/246	246	0.093	0.720	38.896	5.508	142	29
1917/2.25Y/259	259	0.078	0.756	36.944	5.232	135	30
1917/4D/262	262	0.082	0.765	36.521	5.172	134	31
1917/3.75D/279	279	0.072	0.816	34.295	4.857	125	33
1917/2Y/291	291	0.062	0.850	32.881	4.656	120	34
1917/3.5D/299	299	0.063	0.874	32.001	4.532	117	35
1917/3.25D/322	322	0.054	0.942	29.716	4.208	109	38
1917/1.75Y/333	333	0.047	0.971	28.734	4.069	105	39
1917/3D/349	349	0.046	1.020	27.417	3.883	100	41
1917/2.75D/381	381	0.039	1.113	25.114	3.556	92	45
1917/1.5Y/388	388	0.035	1.133	24.661	3.492	90	45
1917/2.5D/419	419	0.032	1.224	22.836	3.234	84	49
1917/1.25Y/466	466	0.024	1.360	20.533	2.908	75	55
1917/2.25D/466	466	0.026	1.360	20.533	2.908	75	55
1917/2D/524	524	0.021	1.530	18.260	2.586	67	61
1917/1Y/582	582	0.015	1.700	16.441	2.328	60	68
1917/1.75D/599	599	0.016	1.749	15.974	2.262	58	70
1917/1.5D/699	699	0.012	2.040	13.689	1.938	50	82
1917/0.75Y/777	777	0.009	2.267	12.315	1.744	45	91
1917/1.25D/839	839	0.008	2.448	11.405	1.615	42	98
1917/1D/1049	1,049	0.005	3.060	9.121	1.292	33	123

1917

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 2.0	3.3	16 ozs.	2,100	4,100
mm: 51	83	453g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Max Amps (max watts/volts)
1917/0.5Y/1165	1,165	0.004	3.400	8.213	1.163	30	136
1917/0.75D/1398	1,398	0.003	4.080	6.844	0.969	25	164
1917/0.5D/2098	2,098	0.001	6.120	4.561	0.646	17	246
1917/0.25Y/2331	2,331	0.001	6.800	4.105	0.581	15	273

1920

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 2.0	3.3	18 ozs.	2,500	5,000
mm: 51	83	509g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Max Amps (max watts/volts)
1920/6D/153	153	0.211	0.510	62.539	8.856	229	22
1920/5.75D/159	159	0.194	0.532	60.179	8.522	220	23
1920/5.5D/166	166	0.177	0.556	57.641	8.163	211	24
1920/3Y/170	170	0.158	0.567	56.285	7.971	206	24
1920/5.25D/174	174	0.162	0.583	54.991	7.787	201	25
1920/5D/183	183	0.147	0.612	52.286	7.404	191	26
1920/2.75Y/185	185	0.133	0.618	51.721	7.324	189	26
1920/4.75D/193	193	0.132	0.644	49.577	7.021	181	28
1920/4.5D/204	204	0.119	0.680	46.904	6.642	172	29
1920/2.5Y/204	204	0.110	0.680	46.904	6.642	172	29
1920/4.25D/216	216	0.106	0.720	44.298	6.273	162	31
1920/2.25Y/226	226	0.089	0.756	42.338	5.996	155	32
1920/4D/229	229	0.094	0.765	41.783	5.917	153	33
1920/3.75D/244	244	0.082	0.816	39.215	5.553	143	35
1920/2Y/255	255	0.070	0.850	37.523	5.314	137	36
1920/3.5D/262	262	0.072	0.874	36.521	5.172	134	37
1920/3.25D/282	282	0.062	0.942	33.931	4.805	124	40
1920/1.75Y/291	291	0.054	0.971	32.881	4.656	120	42
1920/3D/306	306	0.053	1.020	31.269	4.428	114	44
1920/2.75D/333	333	0.044	1.113	28.734	4.069	105	48

1920

	Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch:	2.0	3.3	18 ozs.	2,500	5,000
mm:	51	83	509g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Max Amps (max watts/volts)
1920/1.5Y/340	340	0.040	1.133	28.142	3.985	103	49
1920/2.5D/367	367	0.037	1.224	26.072	3.692	95	52
1920/2.25D/408	408	0.030	1.360	23.452	3.321	86	58
1920/1.25Y/408	408	0.028	1.360	23.452	3.321	86	58
1920/2D/459	459	0.023	1.530	20.846	2.952	76	66
1920/1Y/510	510	0.018	1.700	18.762	2.657	69	73
1920/1.75D/524	524	0.018	1.749	18.260	2.586	67	75
1920/1.5D/612	612	0.013	2.040	15.635	2.214	57	87
1920/0.75Y/680	680	0.010	2.267	14.071	1.993	51	97
1920/1.25D/734	734	0.009	2.448	13.036	1.846	48	105
1920/1D/918	918	0.006	3.060	10.423	1.476	38	131
1920/0.5Y/1020	1,020	0.004	3.400	9.381	1.328	34	146
1920/0.75D/1224	1,224	0.003	4.080	7.817	1.107	29	175
1920/0.5D/1836	1,836	0.001	6.120	5.212	0.738	19	262
1920/0.25Y/2040	2,040	0.001	6.800	4.690	0.664	17	291

1924

	Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch:	2.0	3.7	22 ozs.	3,000	6,000
mm:	51	93	623g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Max Amps (max watts/volts)
1924/6D/122	128	0.264	0.510	74.753	10.586	273	22
1924/5.75D/127	133	0.242	0.532	71.943	10.188	263	23
1924/5.5D/133	139	0.222	0.556	68.837	9.748	252	24
1924/3Y/136	142	0.198	0.567	67.383	9.542	246	24
1924/5.25D/139	146	0.202	0.583	65.537	9.281	240	25
1924/5D/146	153	0.183	0.612	62.539	8.856	229	26
1924/2.75Y/148	155	0.166	0.618	61.732	8.742	226	27
1924/4.75D/154	161	0.165	0.644	59.431	8.416	217	28
1924/4.5D/163	170	0.149	0.680	56.285	7.971	206	29

1924

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 2.0	3.7	22 ozs.	3,000	6,000
mm: 51	93	623g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Max Amps (max watts/volts)
1924/2.5Y/163	170	0.138	0.680	56.285	7.971	206	29
1924/4.25D/172	180	0.132	0.720	53.158	7.528	194	31
1924/2.25Y/181	189	0.111	0.756	50.626	7.169	185	32
1924/4D/183	191	0.117	0.765	50.096	7.094	183	33
1924/3.75D/195	204	0.103	0.816	46.904	6.642	172	35
1924/2Y/204	213	0.088	0.850	44.922	6.362	164	37
1924/3.5D/209	219	0.090	0.874	43.691	6.187	160	38
1924/3.25D/225	235	0.077	0.942	40.717	5.766	149	40
1924/1.75Y/233	243	0.067	0.971	39.376	5.576	144	42
1924/3D/244	255	0.066	1.020	37.523	5.314	137	44
1924/2.75D/267	278	0.055	1.113	34.419	4.874	126	48
1924/1.5Y/272	283	0.050	1.133	33.811	4.788	124	49
1924/2.5D/293	306	0.046	1.224	31.269	4.428	114	52
1924/2.25D/326	340	0.037	1.360	28.142	3.985	103	58
1924/1.25Y/326	340	0.034	1.360	28.142	3.985	103	58
1924/2D/367	383	0.029	1.530	24.983	3.538	91	66
1924/1Y/408	425	0.022	1.700	22.514	3.188	82	73
1924/1.75D/419	437	0.022	1.749	21.896	3.101	80	75
1924/1.5D/489	510	0.017	2.040	18.762	2.657	69	87
1924/0.75Y/544	567	0.012	2.267	16.875	2.390	62	97
1924/1.25D/587	612	0.011	2.448	15.635	2.214	57	105
1924/1D/734	765	0.007	3.060	12.508	1.771	46	131
1924/0.5Y/816	850	0.006	3.400	11.257	1.594	41	146
1924/0.75D/979	1,020	0.004	4.080	9.381	1.328	34	175
1924/0.5D/1468	1,530	0.002	6.120	6.254	0.886	23	262
1924/0.25Y/1632	1,700	0.001	6.800	5.628	0.797	21	291
1924/0.25D/2937	2,937	0.000	12.240	3.258	0.461	12	503

1930

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 2.0	4.3	28 ozs.	3,500	7,000
mm: 51	108	792g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Max Amps (max watts/volts)
1930/6D/102	102	0.317	0.510	93.808	13.284	343	20
1930/5.75D/106	106	0.291	0.532	90.268	12.783	330	21
1930/5.5D/111	111	0.266	0.556	86.202	12.207	315	22
1930/3Y/113	113	0.238	0.567	84.676	11.991	310	23
1930/5.25D/116	116	0.243	0.583	82.486	11.681	302	23
1930/5D/122	122	0.220	0.612	78.430	11.107	287	24
1930/2.75Y/123	123	0.200	0.618	77.792	11.016	285	25
1930/4.75D/128	128	0.199	0.644	74.753	10.586	273	26
1930/2.5Y/136	136	0.165	0.680	70.356	9.963	257	27
1930/4.5D/136	136	0.178	0.680	70.356	9.963	257	27
1930/4.25D/144	144	0.159	0.720	66.447	9.410	243	29
1930/2.25Y/151	151	0.134	0.756	63.367	8.974	232	30
1930/4D/153	153	0.141	0.765	62.539	8.856	229	31
1930/3.75D/163	163	0.124	0.816	58.702	8.313	215	33
1930/2Y/170	170	0.106	0.850	56.285	7.971	206	34
1930/3.5D/174	174	0.108	0.874	54.991	7.787	201	35
1930/3.25D/188	188	0.093	0.942	50.896	7.207	186	38
1930/1.75Y/194	194	0.081	0.971	49.322	6.985	180	39
1930/3D/204	204	0.079	1.020	46.904	6.642	172	41
1930/2.75D/222	222	0.067	1.113	43.101	6.104	158	44
1930/1.5Y/226	226	0.059	1.133	42.338	5.996	155	45
1930/2.5D/244	244	0.055	1.224	39.215	5.553	143	49
1930/2.25D/272	272	0.045	1.360	35.178	4.982	129	54
1930/1.25Y/272	272	0.041	1.360	35.178	4.982	129	54
1930/2D/306	306	0.035	1.530	31.269	4.428	114	61
1930/1Y/340	340	0.026	1.700	28.142	3.985	103	68
1930/1.75D/349	349	0.027	1.749	27.417	3.883	100	70
1930/1.5D/408	408	0.020	2.040	23.452	3.321	86	82
1930/0.75Y/453	453	0.015	2.267	21.122	2.991	77	91
1930/1.25D/489	489	0.014	2.448	19.567	2.771	72	98
1930/1D/612	612	0.009	3.060	15.635	2.214	57	122

1930

	Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch:	2.0	4.3	28 ozs.	3,500	7,000
mm:	51	108	792g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	Torque Constant inOz/A	Max Volts (max rpm/Kv)	Max Amps (max watts/volts)
1930/0.5Y/680	680	0.007	3.400	14.071	1.993	51	136
1930/0.75D/816	816	0.005	4.080	11.726	1.661	43	163
1930/0.5D/1224	1,224	0.002	6.120	7.817	1.107	29	245
1930/0.25Y/1360	1,360	0.002	6.800	7.036	0.996	26	272
1930/0.25D/2448	2,448	0.001	12.240	3.909	0.554	14	490

NEUTRONICS ENTERPRISES INC.
4631 Viewridge Ave Unit B
San Diego, CA 92123

email: info@neutronics.com
phone: 858-674-2250

<http://www.neumotors.com>

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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