



**Stator lengths available:**

Model	Length (in) / (mm)	Weight(g)	Continuous Watts	Base Price
705	1.1" 28mm	28.3g	100	76.00
707	1.4" 36mm	39.6g	150	87.00

25mm OD 700 Series (Neutron) brushless motors operate in the 100 to 300 watt range and can be configured with gearboxes for increased torque. 700 series motors are best suited for high RPM (90,000) RPM applications.

Applications include swarming UAVs, hand held rotary tools, etc.

Add a gearbox for high-torque compact drives such as miniature ROV thrusters or high torque hand tools.

**Motor type:** inrunner

**Poles:** 4P

**Slots:** 12S

**Finned:** Optional

**Sealed:** No

**Sensored:** Optional

**Gearbox(es):** P16

**Shaft size(s):** 2 or 3mm

**Max RPM:** 90,000

**705**

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.0	1.1	1 ozs.	100	200
mm: 25	28	28g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Max Amps (max watts/volts)
<b>705/25D/890</b>	890	2.292	0.158	10.751	1.522	101	2
<b>705/13.75Y/899</b>	899	2.080	0.160	10.643	1.507	100	2
<b>705/24.75D/899</b>	899	2.246	0.160	10.643	1.507	100	2
<b>705/24.5D/908</b>	908	2.201	0.162	10.538	1.492	99	2
<b>705/13.5Y/916</b>	916	2.005	0.163	10.446	1.479	98	2
<b>705/24.25D/918</b>	918	2.156	0.163	10.423	1.476	98	2
<b>705/24D/927</b>	927	2.112	0.165	10.322	1.462	97	2
<b>705/13.25Y/933</b>	933	1.931	0.166	10.256	1.452	96	2
<b>705/23.75D/937</b>	937	2.068	0.167	10.212	1.446	96	2
<b>705/23.5D/947</b>	947	2.025	0.169	10.104	1.431	95	2
<b>705/13Y/951</b>	951	1.859	0.169	10.061	1.425	95	2
<b>705/23.25D/957</b>	957	1.982	0.170	9.998	1.416	94	2
<b>705/23D/968</b>	968	1.940	0.172	9.885	1.400	93	2
<b>705/12.75Y/970</b>	970	1.788	0.173	9.864	1.397	93	2
<b>705/22.75D/978</b>	978	1.898	0.174	9.784	1.385	92	2
<b>705/12.5Y/989</b>	989	1.719	0.176	9.675	1.370	91	2
<b>705/22.5D/989</b>	989	1.856	0.176	9.675	1.370	91	2
<b>705/22.25D/1000</b>	1,000	1.815	0.178	9.568	1.355	90	2
<b>705/12.25Y/1009</b>	1,009	1.651	0.180	9.483	1.343	89	2
<b>705/22D/1012</b>	1,012	1.775	0.180	9.455	1.339	89	2
<b>705/21.75D/1023</b>	1,023	1.735	0.182	9.353	1.325	88	2
<b>705/12Y/1030</b>	1,030	1.584	0.183	9.290	1.316	87	2
<b>705/21.5D/1035</b>	1,035	1.695	0.184	9.245	1.309	87	2
<b>705/21.25D/1047</b>	1,047	1.656	0.186	9.139	1.294	86	2
<b>705/11.75Y/1052</b>	1,052	1.519	0.187	9.095	1.288	86	2
<b>705/21D/1060</b>	1,060	1.617	0.189	9.027	1.278	85	2
<b>705/20.75D/1073</b>	1,073	1.579	0.191	8.917	1.263	84	2
<b>705/11.5Y/1075</b>	1,075	1.455	0.191	8.901	1.260	84	2
<b>705/20.5D/1086</b>	1,086	1.541	0.193	8.811	1.248	83	2
<b>705/11.25Y/1099</b>	1,099	1.392	0.196	8.706	1.233	82	2
<b>705/20.25D/1099</b>	1,099	1.504	0.196	8.706	1.233	82	2

**705**

	Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch:	1.0	1.1	1 ozs.	100	200
mm:	25	28	28g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	Constant inOz/A	Max Volts (max rpm/Kv)	Max Amps (max watts/volts)
<b>705/20D/1113</b>	1,113	1.467	0.198	8.597	1.217	81	2
<b>705/11Y/1124</b>	1,124	1.331	0.200	8.513	1.206	80	2
<b>705/19.75D/1127</b>	1,127	1.430	0.201	8.490	1.202	80	3
<b>705/19.5D/1141</b>	1,141	1.394	0.203	8.386	1.188	79	3
<b>705/10.75Y/1150</b>	1,150	1.271	0.205	8.320	1.178	78	3
<b>705/19.25D/1156</b>	1,156	1.359	0.206	8.277	1.172	78	3
<b>705/19D/1171</b>	1,171	1.324	0.208	8.171	1.157	77	3
<b>705/10.5Y/1178</b>	1,178	1.213	0.210	8.123	1.150	76	3
<b>705/18.75D/1187</b>	1,187	1.289	0.211	8.061	1.142	76	3
<b>705/18.5D/1203</b>	1,203	1.255	0.214	7.954	1.126	75	3
<b>705/10.25Y/1206</b>	1,206	1.156	0.215	7.934	1.124	75	3
<b>705/18.25D/1219</b>	1,219	1.221	0.217	7.849	1.112	74	3
<b>705/18D/1236</b>	1,236	1.188	0.220	7.741	1.096	73	3
<b>705/10Y/1236</b>	1,236	1.100	0.220	7.741	1.096	73	3
<b>705/17.75D/1254</b>	1,254	1.155	0.223	7.630	1.081	72	3
<b>705/9.75Y/1268</b>	1,268	1.046	0.226	7.546	1.069	71	3
<b>705/17.5D/1272</b>	1,272	1.123	0.226	7.522	1.065	71	3
<b>705/17.25D/1290</b>	1,290	1.091	0.230	7.417	1.050	70	3
<b>705/9.5Y/1301</b>	1,301	0.993	0.232	7.355	1.042	69	3
<b>705/17D/1309</b>	1,309	1.060	0.233	7.310	1.035	69	3
<b>705/16.75D/1329</b>	1,329	1.029	0.236	7.200	1.020	68	3
<b>705/9.25Y/1337</b>	1,337	0.941	0.238	7.157	1.013	67	3
<b>705/16.5D/1349</b>	1,349	0.998	0.240	7.093	1.004	67	3
<b>705/16.25D/1370</b>	1,370	0.968	0.244	6.984	0.989	66	3
<b>705/9Y/1374</b>	1,374	0.891	0.244	6.964	0.986	66	3
<b>705/16D/1391</b>	1,391	0.939	0.248	6.879	0.974	65	3
<b>705/15.75D/1413</b>	1,413	0.910	0.251	6.772	0.959	64	3
<b>705/8.75Y/1413</b>	1,413	0.842	0.251	6.772	0.959	64	3
<b>705/15.5D/1436</b>	1,436	0.881	0.255	6.663	0.944	63	3
<b>705/8.5Y/1455</b>	1,455	0.795	0.259	6.576	0.931	62	3
<b>705/15.25D/1459</b>	1,459	0.853	0.260	6.558	0.929	62	3

**705**

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.0	1.1	1 ozs.	100	200
mm: 25	28	28g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Max Amps (max watts/volts)
<b>705/15D/1484</b>	1,484	0.825	0.264	6.448	0.913	61	3
<b>705/8.25Y/1499</b>	1,499	0.749	0.267	6.383	0.904	60	3
<b>705/14.75D/1509</b>	1,509	0.798	0.268	6.341	0.898	60	3
<b>705/14.5D/1535</b>	1,535	0.771	0.273	6.233	0.883	59	3
<b>705/8Y/1546</b>	1,546	0.704	0.275	6.189	0.876	58	3
<b>705/14.25D/1562</b>	1,562	0.745	0.278	6.126	0.867	58	3
<b>705/14D/1590</b>	1,590	0.719	0.283	6.018	0.852	57	4
<b>705/7.75Y/1595</b>	1,595	0.661	0.284	5.999	0.850	56	4
<b>705/13.75D/1619</b>	1,619	0.693	0.288	5.910	0.837	56	4
<b>705/7.5Y/1649</b>	1,649	0.619	0.293	5.803	0.822	55	4
<b>705/13.5D/1649</b>	1,649	0.668	0.293	5.803	0.822	55	4
<b>705/13.25D/1680</b>	1,680	0.644	0.299	5.695	0.807	54	4
<b>705/7.25Y/1705</b>	1,705	0.578	0.303	5.612	0.795	53	4
<b>705/13D/1712</b>	1,712	0.620	0.305	5.589	0.791	53	4
<b>705/12.75D/1746</b>	1,746	0.596	0.311	5.480	0.776	52	4
<b>705/7Y/1766</b>	1,766	0.539	0.314	5.418	0.767	51	4
<b>705/12.5D/1780</b>	1,780	0.573	0.317	5.376	0.761	51	4
<b>705/12.25D/1817</b>	1,817	0.550	0.323	5.266	0.746	50	4
<b>705/6.75Y/1832</b>	1,832	0.501	0.326	5.223	0.740	49	4
<b>705/12D/1855</b>	1,855	0.528	0.330	5.158	0.730	49	4
<b>705/11.75D/1894</b>	1,894	0.506	0.337	5.052	0.715	48	4
<b>705/6.5Y/1902</b>	1,902	0.465	0.338	5.031	0.712	47	4
<b>705/11.5D/1935</b>	1,935	0.485	0.344	4.945	0.700	47	4
<b>705/11.25D/1978</b>	1,978	0.464	0.352	4.837	0.685	46	4
<b>705/6.25Y/1978</b>	1,978	0.430	0.352	4.837	0.685	46	4
<b>705/11D/2023</b>	2,023	0.444	0.360	4.730	0.670	44	4
<b>705/6Y/2061</b>	2,061	0.396	0.367	4.643	0.657	44	5
<b>705/10.75D/2070</b>	2,070	0.424	0.368	4.622	0.655	43	5
<b>705/10.5D/2120</b>	2,120	0.404	0.377	4.513	0.639	42	5
<b>705/5.75Y/2150</b>	2,150	0.364	0.383	4.450	0.630	42	5
<b>705/10.25D/2171</b>	2,171	0.385	0.386	4.407	0.624	41	5

**705**

	Diam.	Length	Weight	Max Cont.	Max Peak
	inch: 1.0	1.1	1 ozs.	Watts 100	Watts 200
	mm: 25	28	28g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Max Amps (max watts/volts)
<b>705/10D/2226</b>	2,226	0.367	0.396	4.298	0.609	40	5
<b>705/5.5Y/2248</b>	2,248	0.333	0.400	4.256	0.603	40	5
<b>705/9.75D/2283</b>	2,283	0.349	0.406	4.191	0.594	39	5
<b>705/9.5D/2343</b>	2,343	0.331	0.417	4.084	0.578	38	5
<b>705/5.25Y/2355</b>	2,355	0.303	0.419	4.063	0.575	38	5
<b>705/9.25D/2406</b>	2,406	0.314	0.428	3.977	0.563	37	5
<b>705/9D/2473</b>	2,473	0.297	0.440	3.869	0.548	36	5
<b>705/5Y/2473</b>	2,473	0.275	0.440	3.869	0.548	36	5
<b>705/8.75D/2543</b>	2,543	0.281	0.453	3.763	0.533	35	6
<b>705/4.75Y/2603</b>	2,603	0.248	0.463	3.676	0.521	35	6
<b>705/8.5D/2618</b>	2,618	0.265	0.466	3.655	0.518	34	6
<b>705/8.25D/2698</b>	2,698	0.250	0.480	3.546	0.502	33	6
<b>705/4.5Y/2748</b>	2,748	0.223	0.489	3.482	0.493	33	6
<b>705/8D/2782</b>	2,782	0.235	0.495	3.439	0.487	32	6
<b>705/7.75D/2872</b>	2,872	0.220	0.511	3.332	0.472	31	6
<b>705/4.25Y/2909</b>	2,909	0.199	0.518	3.289	0.466	31	6
<b>705/7.5D/2967</b>	2,967	0.206	0.528	3.225	0.457	30	7
<b>705/7.25D/3070</b>	3,070	0.193	0.546	3.117	0.441	29	7
<b>705/4Y/3091</b>	3,091	0.176	0.550	3.096	0.438	29	7
<b>705/7D/3179</b>	3,179	0.180	0.566	3.010	0.426	28	7
<b>705/3.75Y/3297</b>	3,297	0.155	0.587	2.902	0.411	27	7
<b>705/6.75D/3297</b>	3,297	0.167	0.587	2.902	0.411	27	7
<b>705/6.5D/3424</b>	3,424	0.155	0.609	2.795	0.396	26	8
<b>705/3.5Y/3533</b>	3,533	0.135	0.629	2.708	0.384	25	8
<b>705/6.25D/3561</b>	3,561	0.143	0.634	2.687	0.381	25	8
<b>705/6D/3709</b>	3,709	0.132	0.660	2.580	0.365	24	8
<b>705/5.75D/3870</b>	3,870	0.121	0.689	2.472	0.350	23	9
<b>705/5.5D/4046</b>	4,046	0.111	0.720	2.365	0.335	22	9
<b>705/3Y/4121</b>	4,121	0.099	0.733	2.322	0.329	22	9
<b>705/5.25D/4239</b>	4,239	0.101	0.754	2.257	0.320	21	9
<b>705/5D/4451</b>	4,451	0.092	0.792	2.150	0.304	20	10

**705**

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.0	1.1	1 ozs.	100	200
mm: 25	28	28g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Max Amps (max watts/volts)
<b>705/2.75Y/4496</b>	4,496	0.083	0.800	2.128	0.301	20	10
<b>705/4.75D/4685</b>	4,685	0.083	0.834	2.042	0.289	19	10
<b>705/2.5Y/4946</b>	4,946	0.069	0.880	1.935	0.274	18	11
<b>705/4.5D/4946</b>	4,946	0.074	0.880	1.935	0.274	18	11
<b>705/4.25D/5237</b>	5,237	0.066	0.932	1.827	0.259	17	12
<b>705/2.25Y/5495</b>	5,495	0.056	0.978	1.741	0.247	16	12
<b>705/4D/5564</b>	5,564	0.059	0.990	1.720	0.244	16	12
<b>705/3.75D/5935</b>	5,935	0.052	1.056	1.612	0.228	15	13
<b>705/2Y/6182</b>	6,182	0.044	1.100	1.548	0.219	15	14
<b>705/3.5D/6359</b>	6,359	0.045	1.131	1.505	0.213	14	14
<b>705/3.25D/6848</b>	6,848	0.039	1.218	1.397	0.198	13	15
<b>705/1.75Y/7065</b>	7,065	0.034	1.257	1.354	0.192	13	16
<b>705/3D/7418</b>	7,418	0.033	1.320	1.290	0.183	12	16
<b>705/2.75D/8093</b>	8,093	0.028	1.440	1.182	0.167	11	18
<b>705/1.5Y/8243</b>	8,243	0.025	1.467	1.161	0.164	11	18
<b>705/2.5D/8902</b>	8,902	0.023	1.584	1.075	0.152	10	20
<b>705/2.25D/9891</b>	9,891	0.019	1.760	0.967	0.137	9	22
<b>705/1.25Y/9891</b>	9,891	0.017	1.760	0.967	0.137	9	22
<b>705/2D/11128</b>	11,128	0.015	1.980	0.860	0.122	8	25
<b>705/1Y/12364</b>	12,364	0.011	2.200	0.774	0.110	7	27
<b>705/1.75D/12717</b>	12,717	0.011	2.263	0.752	0.107	7	28
<b>705/1.5D/14837</b>	14,837	0.008	2.640	0.645	0.091	6	33
<b>705/1.25D/17804</b>	17,804	0.006	3.168	0.537	0.076	5	40
<b>705/1D/22255</b>	22,255	0.004	3.960	0.430	0.061	4	49
<b>705/0.75D/29674</b>	29,674	0.002	5.280	0.322	0.046	3	66
<b>705/0.75D/29674</b>	29,674	0.002	5.280	0.322	0.046	3	66

**707**

Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch: 1.0	1.4	1.4 ozs.	150	300
mm: 25	36	40g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Max Amps (max watts/volts)
<b>707/25D/593</b>	593	3.437	0.158	16.136	2.285	152	2
<b>707/24.75D/599</b>	599	3.369	0.160	15.974	2.262	150	2
<b>707/13.75Y/599</b>	599	3.120	0.160	15.974	2.262	150	2
<b>707/24.5D/606</b>	606	3.301	0.162	15.789	2.236	149	2
<b>707/13.5Y/611</b>	611	3.007	0.163	15.660	2.218	147	2
<b>707/24.25D/612</b>	612	3.234	0.163	15.635	2.214	147	2
<b>707/24D/618</b>	618	3.168	0.165	15.483	2.193	146	2
<b>707/13.25Y/622</b>	622	2.897	0.166	15.383	2.178	145	2
<b>707/23.75D/625</b>	625	3.102	0.167	15.309	2.168	144	2
<b>707/23.5D/631</b>	631	3.037	0.169	15.164	2.147	143	2
<b>707/13Y/634</b>	634	2.789	0.169	15.092	2.137	142	2
<b>707/23.25D/638</b>	638	2.973	0.170	14.997	2.124	141	2
<b>707/23D/645</b>	645	2.909	0.172	14.835	2.101	140	2
<b>707/12.75Y/646</b>	646	2.682	0.173	14.812	2.098	139	2
<b>707/22.75D/652</b>	652	2.847	0.174	14.675	2.078	138	2
<b>707/22.5D/659</b>	659	2.784	0.176	14.520	2.056	137	2
<b>707/12.5Y/659</b>	659	2.578	0.176	14.520	2.056	137	2
<b>707/22.25D/667</b>	667	2.723	0.178	14.345	2.031	135	2
<b>707/12.25Y/673</b>	673	2.476	0.180	14.218	2.013	134	2
<b>707/22D/674</b>	674	2.662	0.180	14.196	2.010	134	2
<b>707/21.75D/682</b>	682	2.602	0.182	14.030	1.987	132	2
<b>707/12Y/687</b>	687	2.376	0.183	13.928	1.972	131	2
<b>707/21.5D/690</b>	690	2.542	0.184	13.867	1.964	130	2
<b>707/21.25D/698</b>	698	2.484	0.186	13.708	1.941	129	2
<b>707/11.75Y/702</b>	702	2.278	0.187	13.630	1.930	128	2
<b>707/21D/707</b>	707	2.425	0.189	13.534	1.917	127	2
<b>707/20.75D/715</b>	715	2.368	0.191	13.382	1.895	126	2
<b>707/11.5Y/717</b>	717	2.182	0.191	13.345	1.890	126	2
<b>707/20.5D/724</b>	724	2.311	0.193	13.216	1.872	124	2
<b>707/11.25Y/733</b>	733	2.088	0.196	13.054	1.849	123	2
<b>707/20.25D/733</b>	733	2.255	0.196	13.054	1.849	123	2

**707**

	Diam.	Length	Weight	Max Cont.	Max Peak
	inch:	1.0	1.4	Watts	Watts
	mm:	25	36	150	300
			1.4 ozs.		
			40g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Max Amps (max watts/volts)
<b>707/20D/742</b>	742	2.200	0.198	12.895	1.826	121	2
<b>707/11Y/749</b>	749	1.997	0.200	12.775	1.809	120	2
<b>707/19.75D/751</b>	751	2.145	0.201	12.741	1.804	120	3
<b>707/19.5D/761</b>	761	2.091	0.203	12.573	1.781	118	3
<b>707/10.75Y/767</b>	767	1.907	0.205	12.475	1.767	117	3
<b>707/19.25D/771</b>	771	2.038	0.206	12.410	1.757	117	3
<b>707/19D/781</b>	781	1.985	0.208	12.251	1.735	115	3
<b>707/10.5Y/785</b>	785	1.819	0.210	12.189	1.726	115	3
<b>707/18.75D/791</b>	791	1.934	0.211	12.097	1.713	114	3
<b>707/18.5D/802</b>	802	1.882	0.214	11.931	1.690	112	3
<b>707/10.25Y/804</b>	804	1.734	0.215	11.901	1.685	112	3
<b>707/18.25D/813</b>	813	1.832	0.217	11.769	1.667	111	3
<b>707/18D/824</b>	824	1.782	0.220	11.612	1.644	109	3
<b>707/10Y/824</b>	824	1.650	0.220	11.612	1.644	109	3
<b>707/17.75D/836</b>	836	1.733	0.223	11.445	1.621	108	3
<b>707/9.75Y/845</b>	845	1.569	0.226	11.324	1.604	107	3
<b>707/17.5D/848</b>	848	1.684	0.226	11.283	1.598	106	3
<b>707/17.25D/860</b>	860	1.637	0.230	11.126	1.576	105	3
<b>707/9.5Y/868</b>	868	1.489	0.232	11.024	1.561	104	3
<b>707/17D/873</b>	873	1.589	0.233	10.960	1.552	103	3
<b>707/16.75D/886</b>	886	1.543	0.236	10.800	1.529	102	3
<b>707/9.25Y/891</b>	891	1.412	0.238	10.739	1.521	101	3
<b>707/16.5D/899</b>	899	1.497	0.240	10.643	1.507	100	3
<b>707/16.25D/913</b>	913	1.452	0.244	10.480	1.484	99	3
<b>707/9Y/916</b>	916	1.337	0.244	10.446	1.479	98	3
<b>707/16D/927</b>	927	1.408	0.248	10.322	1.462	97	3
<b>707/15.75D/942</b>	942	1.364	0.251	10.158	1.438	96	3
<b>707/8.75Y/942</b>	942	1.263	0.251	10.158	1.438	96	3
<b>707/15.5D/957</b>	957	1.321	0.255	9.998	1.416	94	3
<b>707/8.5Y/970</b>	970	1.192	0.259	9.864	1.397	93	3
<b>707/15.25D/973</b>	973	1.279	0.260	9.834	1.393	92	3



**707**

	Diam.	Length	Weight	Max Cont.	Max Peak
	inch:	1.0	1.4	Watts	Watts
	mm:	25	36	150	300
			40g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Max Amps (max watts/volts)
<b>707/15D/989</b>	989	1.237	0.264	9.675	1.370	91	3
<b>707/8.25Y/999</b>	999	1.123	0.267	9.578	1.356	90	3
<b>707/14.75D/1006</b>	1,006	1.197	0.268	9.511	1.347	89	3
<b>707/14.5D/1023</b>	1,023	1.156	0.273	9.353	1.325	88	3
<b>707/8Y/1030</b>	1,030	1.056	0.275	9.290	1.316	87	3
<b>707/14.25D/1041</b>	1,041	1.117	0.278	9.192	1.302	86	3
<b>707/14D/1060</b>	1,060	1.078	0.283	9.027	1.278	85	4
<b>707/7.75Y/1064</b>	1,064	0.991	0.284	8.993	1.273	85	4
<b>707/13.75D/1079</b>	1,079	1.040	0.288	8.868	1.256	83	4
<b>707/7.5Y/1099</b>	1,099	0.928	0.293	8.706	1.233	82	4
<b>707/13.5D/1099</b>	1,099	1.002	0.293	8.706	1.233	82	4
<b>707/13.25D/1120</b>	1,120	0.966	0.299	8.543	1.210	80	4
<b>707/7.25Y/1137</b>	1,137	0.867	0.303	8.415	1.192	79	4
<b>707/13D/1141</b>	1,141	0.929	0.305	8.386	1.188	79	4
<b>707/12.75D/1164</b>	1,164	0.894	0.311	8.220	1.164	77	4
<b>707/7Y/1178</b>	1,178	0.809	0.314	8.123	1.150	76	4
<b>707/12.5D/1187</b>	1,187	0.859	0.317	8.061	1.142	76	4
<b>707/12.25D/1211</b>	1,211	0.825	0.323	7.901	1.119	74	4
<b>707/6.75Y/1221</b>	1,221	0.752	0.326	7.837	1.110	74	4
<b>707/12D/1236</b>	1,236	0.792	0.330	7.741	1.096	73	4
<b>707/11.75D/1263</b>	1,263	0.759	0.337	7.576	1.073	71	4
<b>707/6.5Y/1268</b>	1,268	0.697	0.338	7.546	1.069	71	4
<b>707/11.5D/1290</b>	1,290	0.727	0.344	7.417	1.050	70	4
<b>707/6.25Y/1319</b>	1,319	0.645	0.352	7.254	1.027	68	4
<b>707/11.25D/1319</b>	1,319	0.696	0.352	7.254	1.027	68	4
<b>707/11D/1349</b>	1,349	0.665	0.360	7.093	1.004	67	4
<b>707/6Y/1374</b>	1,374	0.594	0.367	6.964	0.986	66	5
<b>707/10.75D/1380</b>	1,380	0.636	0.368	6.934	0.982	65	5
<b>707/10.5D/1413</b>	1,413	0.606	0.377	6.772	0.959	64	5
<b>707/5.75Y/1434</b>	1,434	0.546	0.383	6.673	0.945	63	5
<b>707/10.25D/1447</b>	1,447	0.578	0.386	6.613	0.936	62	5

<b>707</b>	Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
	inch: 1.0	1.4	1.4 ozs.	150	300
	mm: 25	36	40g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Max Amps (max watts/volts)
<b>707/10D/1484</b>	1,484	0.550	0.396	6.448	0.913	61	5
<b>707/5.5Y/1499</b>	1,499	0.499	0.400	6.383	0.904	60	5
<b>707/9.75D/1522</b>	1,522	0.523	0.406	6.287	0.890	59	5
<b>707/9.5D/1562</b>	1,562	0.496	0.417	6.126	0.867	58	5
<b>707/5.25Y/1570</b>	1,570	0.455	0.419	6.095	0.863	57	5
<b>707/9.25D/1604</b>	1,604	0.471	0.428	5.965	0.845	56	5
<b>707/9D/1649</b>	1,649	0.445	0.440	5.803	0.822	55	5
<b>707/5Y/1649</b>	1,649	0.413	0.440	5.803	0.822	55	5
<b>707/8.75D/1696</b>	1,696	0.421	0.453	5.642	0.799	53	6
<b>707/4.75Y/1735</b>	1,735	0.372	0.463	5.515	0.781	52	6
<b>707/8.5D/1746</b>	1,746	0.397	0.466	5.480	0.776	52	6
<b>707/8.25D/1798</b>	1,798	0.374	0.480	5.322	0.754	50	6
<b>707/4.5Y/1832</b>	1,832	0.334	0.489	5.223	0.740	49	6
<b>707/8D/1855</b>	1,855	0.352	0.495	5.158	0.730	49	6
<b>707/7.75D/1914</b>	1,914	0.330	0.511	4.999	0.708	47	6
<b>707/4.25Y/1939</b>	1,939	0.298	0.518	4.935	0.699	46	6
<b>707/7.5D/1978</b>	1,978	0.309	0.528	4.837	0.685	46	7
<b>707/7.25D/2046</b>	2,046	0.289	0.546	4.677	0.662	44	7
<b>707/4Y/2061</b>	2,061	0.264	0.550	4.643	0.657	44	7
<b>707/7D/2120</b>	2,120	0.269	0.566	4.513	0.639	42	7
<b>707/3.75Y/2198</b>	2,198	0.232	0.587	4.353	0.616	41	7
<b>707/6.75D/2198</b>	2,198	0.251	0.587	4.353	0.616	41	7
<b>707/6.5D/2283</b>	2,283	0.232	0.609	4.191	0.594	39	8
<b>707/3.5Y/2355</b>	2,355	0.202	0.629	4.063	0.575	38	8
<b>707/6.25D/2374</b>	2,374	0.215	0.634	4.030	0.571	38	8
<b>707/6D/2473</b>	2,473	0.198	0.660	3.869	0.548	36	8
<b>707/3.25Y/2536</b>	2,536	0.174	0.677	3.773	0.534	35	8
<b>707/5.75D/2580</b>	2,580	0.182	0.689	3.709	0.525	35	9
<b>707/5.5D/2698</b>	2,698	0.166	0.720	3.546	0.502	33	9
<b>707/3Y/2748</b>	2,748	0.149	0.733	3.482	0.493	33	9
<b>707/5.25D/2826</b>	2,826	0.152	0.754	3.386	0.479	32	9

**707**

	Diam.	Length	Weight	Max Cont. Watts	Max Peak Watts
inch:	1.0	1.4	1.4 ozs.	150	300
mm:	25	36	40g		

Motor	KV	Rm Ohms	Io @ 10v	Torque Constant mNm/A	inOz/A	Max Volts (max rpm/Kv)	Max Amps (max watts/volts)
<b>707/5D/2967</b>	2,967	0.137	0.792	3.225	0.457	30	10
<b>707/2.75Y/2997</b>	2,997	0.125	0.800	3.193	0.452	30	10
<b>707/4.75D/3124</b>	3,124	0.124	0.834	3.063	0.434	29	10
<b>707/4.5D/3297</b>	3,297	0.111	0.880	2.902	0.411	27	11
<b>707/2.5Y/3297</b>	3,297	0.103	0.880	2.902	0.411	27	11
<b>707/4.25D/3491</b>	3,491	0.099	0.932	2.741	0.388	26	12
<b>707/2.25Y/3663</b>	3,663	0.084	0.978	2.612	0.370	25	12
<b>707/4D/3709</b>	3,709	0.088	0.990	2.580	0.365	24	12
<b>707/3.75D/3956</b>	3,956	0.077	1.056	2.419	0.343	23	13
<b>707/2Y/4121</b>	4,121	0.066	1.100	2.322	0.329	22	14
<b>707/3.5D/4239</b>	4,239	0.067	1.131	2.257	0.320	21	14
<b>707/3.25D/4565</b>	4,565	0.058	1.218	2.096	0.297	20	15
<b>707/1.75Y/4710</b>	4,710	0.051	1.257	2.032	0.288	19	16
<b>707/3D/4946</b>	4,946	0.049	1.320	1.935	0.274	18	16
<b>707/2.75D/5395</b>	5,395	0.042	1.440	1.774	0.251	17	18
<b>707/1.5Y/5495</b>	5,495	0.037	1.467	1.741	0.247	16	18
<b>707/2.5D/5935</b>	5,935	0.034	1.584	1.612	0.228	15	20
<b>707/2.25D/6594</b>	6,594	0.028	1.760	1.451	0.205	14	22
<b>707/1.25Y/6594</b>	6,594	0.026	1.760	1.451	0.205	14	22
<b>707/2D/7418</b>	7,418	0.022	1.980	1.290	0.183	12	25
<b>707/1Y/8243</b>	8,243	0.017	2.200	1.161	0.164	11	27
<b>707/1.75D/8478</b>	8,478	0.017	2.263	1.129	0.160	11	28
<b>707/1.5D/9891</b>	9,891	0.012	2.640	0.967	0.137	9	33
<b>707/1.25D/11869</b>	11,869	0.009	3.168	0.806	0.114	8	40
<b>707/1D/14837</b>	14,837	0.005	3.960	0.645	0.091	6	49
<b>707/0.75D/19782</b>	19,782	0.003	5.280	0.484	0.068	5	66
<b>707/0.75D/19782</b>	19,782	0.003	5.280	0.484	0.068	5	66
<b>707/0.5D/29674</b>	29,674	0.001	7.920	0.322	0.046	3	99
<b>707/0.5D/29674</b>	29,674	0.001	7.920	0.322	0.046	3	99

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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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