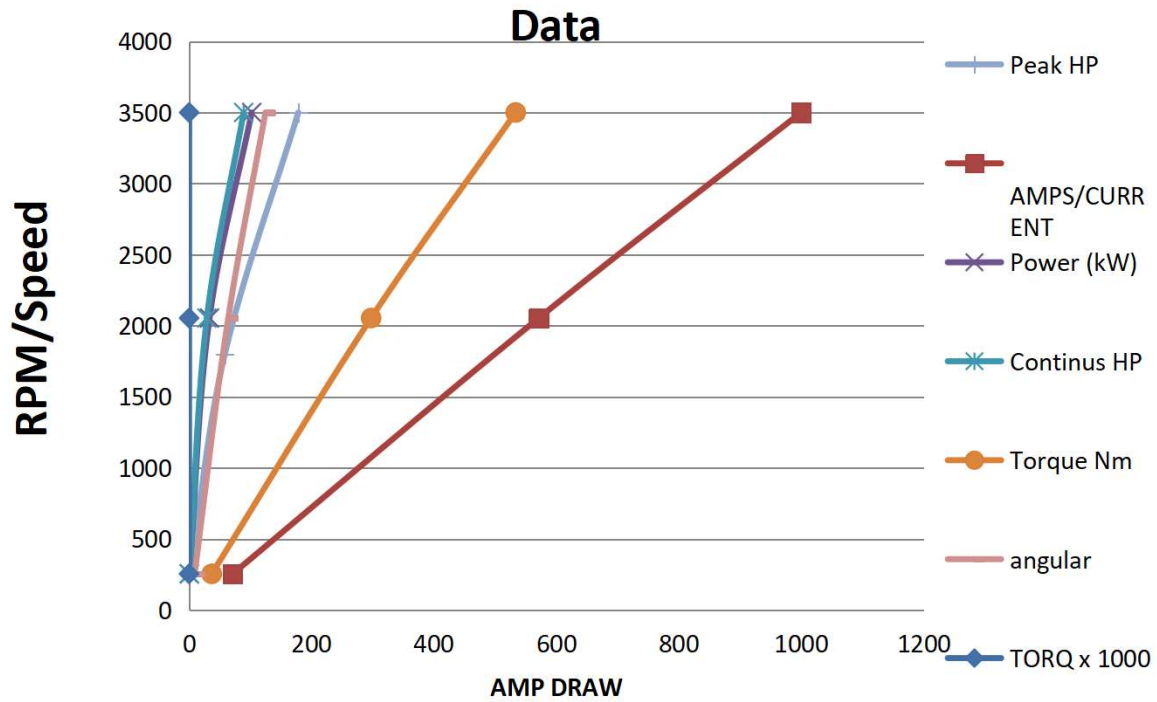
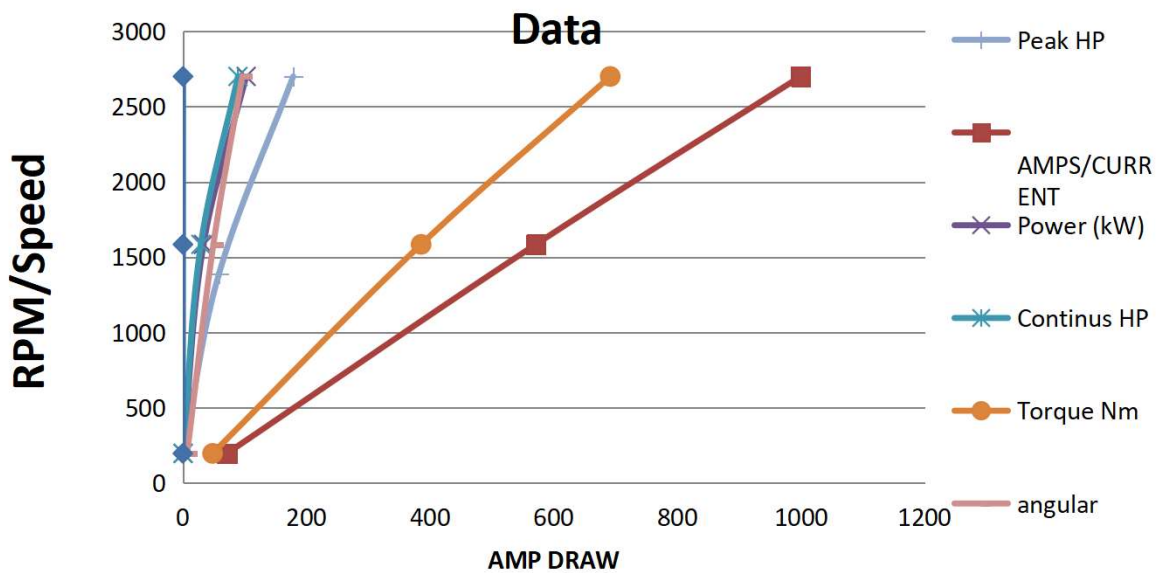


35KV 102V @ 1000A 80kw Peak BLDC Motor



27KV 102V @ 1000A 80kw Peak BLDC Motor



DC VOL	RPM	STORQ x 1000	AMPS	Input Pow	Power (kW)	Continus HP	Torque Nm	Peak HP	angular
7.3	255.5	0.01947955	71.4	521.22	0.52122	0.45414611	37.17757009	0.9082922	9.112833
14.6	511	0.0389591	142.8	2084.88	2.08488	1.81658445	74.35514019	3.6331689	18.22567
21.9	766.5	0.05843866	214.2	4690.98	4.69098	4.08731501	111.5327103	8.17463	27.3385
29.5	1033	0.07791821	285.6	8425.2	8.4252	7.34099196	148.7102804	14.681984	36.82583
36.8	1288	0.09739776	357	13137.6	13.1376	11.4469705	185.8878505	22.893941	45.93867
44.1	1544	0.11687731	428.4	18892.4	18.8924	16.4612413	223.0654206	32.922483	55.0515
51.4	1799	0.13635686	499.8	25689.7	25.6897	22.3838043	260.2429907	44.767609	64.16433
58.7	2055	0.15583642	571.2	33529.4	33.5294	29.2146595	297.4205607	58.429319	73.27717
66	2310	0.17531597	642.6	42411.6	42.4116	36.953807	334.5981308	73.907614	82.39
73.3	2566	0.19479552	714	52336.2	52.3362	45.6012466	371.7757009	91.202493	91.50283
80.6	2821	0.21427507	785.4	63303.2	63.3032	55.1569786	408.953271	110.31396	100.6157
87.9	3077	0.23375462	856.8	75312.7	75.3127	65.6210027	446.1308411	131.24201	109.7285
95.2	3332	0.25351246	929.2	88461.7	88.4617	77.0779271	483.8395194	154.15585	118.8413
102.5	3500	0.27953157	999.6	102459	102.459	89.2739276	533.4981308	178.54786	124.8333

Torque = (I * V * E * 60) / (rpm * 2π)

EFICENCY 0.65 Estimate

Torque = HP X 5252 / RPM OR

Torque (N.m) = 9.5488 x Power (kW) / Speed (RPM)

volts x amps = watts / 1000=kW

KV = RPM x Volts

I=V/R

BASED ON 500 Amp ESC or 1000amp ESC

recomended prop size 42x12 50x12 60x12

DC VO	RPM/S	TORQ x 1000	AMPS/	Input	Pov	Power (kW	Continus	HP	Torque	Nm	Peak	HP	angular
7.3	197.1	0.025251271	71.4	521.22	0.52122	0.454146113	48.19314642	0.9082922	7.0299				
14.6	394.2	0.050502542	142.8	2084.88	2.08488	1.81658445	96.38629283	3.6331689	14.06				
21.9	591.3	0.075753813	214.2	4690.98	4.69098	4.087315013	144.5794393	8.17463	21.09				
29.5	796.5	0.101005084	285.6	8425.2	8.4252	7.340991957	192.7725857	14.681984	28.409				
36.8	993.6	0.126256356	357	13137.6	13.1376	11.44697051	240.9657321	22.893941	35.438				
44.1	1191	0.151507627	428.4	18892.4	18.89244	16.46124129	289.1588785	32.922483	42.468				
51.4	1388	0.176758898	499.8	25689.7	25.68972	22.38380429	337.3520249	44.767609	49.498				
58.7	1585	0.202010169	571.2	33529.4	33.52944	29.21465952	385.5451713	58.429319	56.528				
66	1782	0.22726144	642.6	42411.6	42.4116	36.95380697	433.7383178	73.907614	63.558				
73.3	1979	0.252512711	714	52336.2	52.3362	45.60124665	481.9314642	91.202493	70.588				
80.6	2176	0.277763982	785.4	63303.2	63.30324	55.15697855	530.1246106	110.31396	77.618				
87.9	2373	0.303015253	856.8	75312.7	75.31272	65.62100268	578.317757	131.24201	84.648				
95.2	2570	0.328627257	929.2	88461.7	88.46174	77.07792708	627.1993769	154.15585	91.678				
103	2700	0.36235574	999.6	102459	102.459	89.27392761	691.5716511	178.54786	96.3				

DC VOIR	RPM/SP	TORQ x 1000	AMPS/Input	Power (kW)	Continus HP	Torque Nm	Peak HP	angular	
7.3	197.1	0.025251271	71.4	521.22	0.52122	0.45414611	48.193146	0.9082922	7.0299
14.6	657	0.030301525	142.8	2084.88	2.08488	1.81658445	57.831776	3.6331689	23.433
21.9	985.5	0.045452288	214.2	4690.98	4.69098	4.08731501	86.747664	8.17463	35.15
29.5	1327.5	0.060603051	285.6	8425.2	8.4252	7.34099196	115.66355	14.681984	47.348
36.8	1656	0.075753813	357	13137.6	13.1376	11.4469705	144.57944	22.893941	59.064
44.1	1984.5	0.090904576	428.4	18892.44	18.8924	16.4612413	173.49533	32.922483	70.781
51.4	2313	0.106055339	499.8	25689.72	25.6897	22.3838043	202.41121	44.767609	82.497
58.7	2641.5	0.121206101	571.2	33529.44	33.5294	29.2146595	231.3271	58.429319	94.214
66	2970	0.136356864	642.6	42411.6	42.4116	36.953807	260.24299	73.907614	105.93
73.3	3298.5	0.151507627	714	52336.2	52.3362	45.6012466	289.15888	91.202493	117.65
80.6	3627	0.166658389	785.4	63303.24	63.3032	55.1569786	318.07477	110.31396	129.36
87.9	3955.5	0.181809152	856.8	75312.72	75.3127	65.6210027	346.99065	131.24201	141.08
95.2	4284	0.197176354	929.2	88461.74	88.4617	77.0779271	376.31963	154.15585	152.8
102.5	4500	0.217413444	999.6	102459	102.459	89.2739276	414.94299	178.54786	160.5

DC VCRPM/SPE	TORQ x 1000	AMPS/	Input Pow	Power (kW)	Continus HP	Torque Nm	Peak HP	angular sp	
7.3	401.5	0.012396079	71.4	521.22	0.52122	0.45414611	23.6584537	0.908292	14.32017
14.6	803	0.024792157	142.8	2084.88	2.08488	1.81658445	47.31690739	3.633169	28.64033
21.9	1204.5	0.037188236	214.2	4690.98	4.69098	4.08731501	70.97536109	8.17463	42.9605
29.5	1622.5	0.049584314	285.6	8425.2	8.4252	7.34099196	94.63381478	14.68198	57.86917
36.8	2024	0.061980393	357	13137.6	13.1376	11.4469705	118.2922685	22.89394	72.18933
44.1	2425.5	0.074376471	428.4	18892.4	18.89244	16.4612413	141.9507222	32.92248	86.5095
51.4	2827	0.08677255	499.8	25689.7	25.68972	22.3838043	165.6091759	44.76761	100.8297
58.7	3228.5	0.099168628	571.2	33529.4	33.52944	29.2146595	189.2676296	58.42932	115.1498
66	3630	0.111564707	642.6	42411.6	42.4116	36.953807	212.9260833	73.90761	129.47
73.3	4031.5	0.123960785	714	52336.2	52.3362	45.6012466	236.584537	91.20249	143.7902
80.6	4433	0.136356864	785.4	63303.2	63.30324	55.1569786	260.2429907	110.314	158.1103
87.9	4834.5	0.148752943	856.8	75312.7	75.31272	65.6210027	283.9014444	131.242	172.4305
95.2	5236	0.161326108	929.2	88461.7	88.461744	77.0779271	307.897876	154.1559	186.7507
103	5637.5	0.1735451	999.6	102459	102.459	89.2739276	331.2183517	178.5479	201.0708