

GMW Associates
Electromagnet Excitation Plot
Field Vs Current

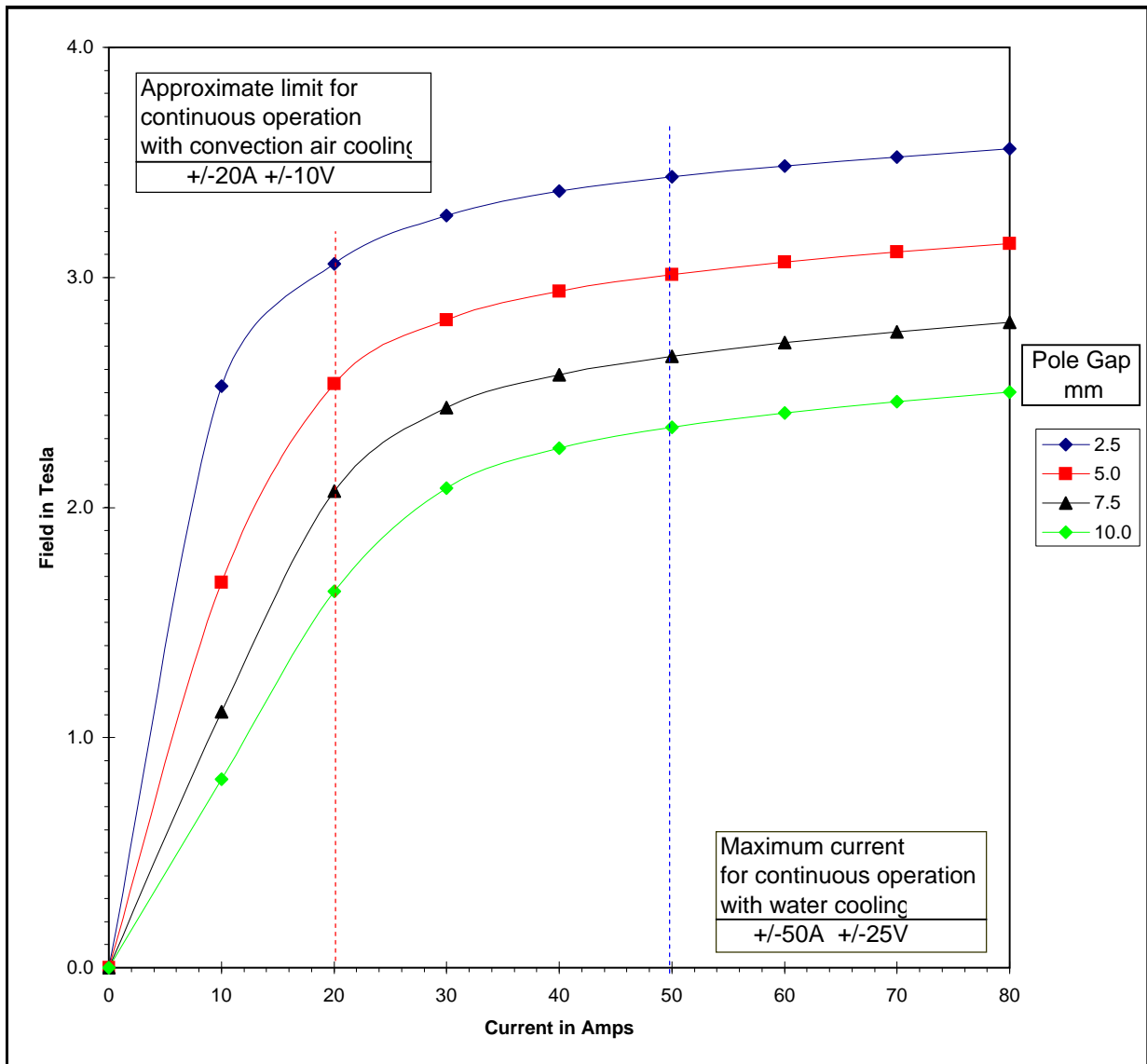
Contract No:	Page: 1 of 2	Date: Jan 18, 2011
Customer:		Engr: G.Douglas
Model: 5403	Power Supply:	Set Current:
Serial No: None	Serial No:	Target Field:
Pole Face: 10mm	Position: X=0, Y=0, Z=0	
Serial No: None	Notes: Data taken in Magneto simulation software	
Pole Gap: 2.5, 5.0, 7.5, 10.0mm	1006 Pole [taper angles 42 and 63 deg]	
Pole Spacers: None		

Gap [mm]									
Amps	2.5	5.0	7.5	10.0					
0	0.00000	0.00000	0.00000	0.00000					
10	2.52751	1.67416	1.11175	0.81982					
20	3.05822	2.53689	2.07248	1.63551					
30	3.26951	2.81616	2.43313	2.08348					
40	3.37467	2.93952	2.57742	2.25753					
50	3.43667	3.01170	2.65838	2.34776					
60	3.48446	3.06558	2.71639	2.40985					
70	3.52390	3.10964	2.76424	2.45977					
80	3.55966	3.14734	2.80437	2.50224					

Gap [mm]									
Amps									
0	0.00000	0.00000	0.00000	0.00000	0.00000				
10	0.00000	0.00000	0.00000	0.00000	0.00000				
20	0.00000	0.00000	0.00000	0.00000	0.00000				
30	0.00000	0.00000	0.00000	0.00000	0.00000				
40	0.00000	0.00000	0.00000	0.00000	0.00000				
50	0.00000	0.00000	0.00000	0.00000	0.00000				
60	0.00000	0.00000	0.00000	0.00000	0.00000				
70	0.00000	0.00000	0.00000	0.00000	0.00000				

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Customer:		Engr: G.Douglas
Model: 5403	Power Supply:	Set Current:
Serial No: None	Serial No:	Target Field:
Pole Face: 38	Position: X=0, Y=0, Z=0	
Serial No: None	Notes: Data taken in Magneto simulation software	
Pole Gap: 10 to 80mm		
Pole Spacers: None		

Gap [mm]									
Amps	10	20	30	40	50	60	70	80	
0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
10	0.81486	0.42345	0.27631	0.19920	0.15206	0.12075	0.09883	0.08280	
20	1.58611	0.84013	0.54239	0.39823	0.30403	0.24147	0.19764	0.16560	
30	1.94332	1.20739	0.81360	0.59244	0.45127	0.35859	0.29446	0.24740	
40	2.09393	1.43466	1.01957	0.76362	0.59590	0.47796	0.39275	0.32948	
50	2.18155	1.55218	1.15017	0.88799	0.70934	0.58040	0.48291	0.40894	
60	2.24401	1.63029	1.23957	0.97257	0.79002	0.65760	0.55807	0.47828	
70	2.29292	1.69039	1.30610	1.03855	0.85119	0.71588	0.61452	0.53523	

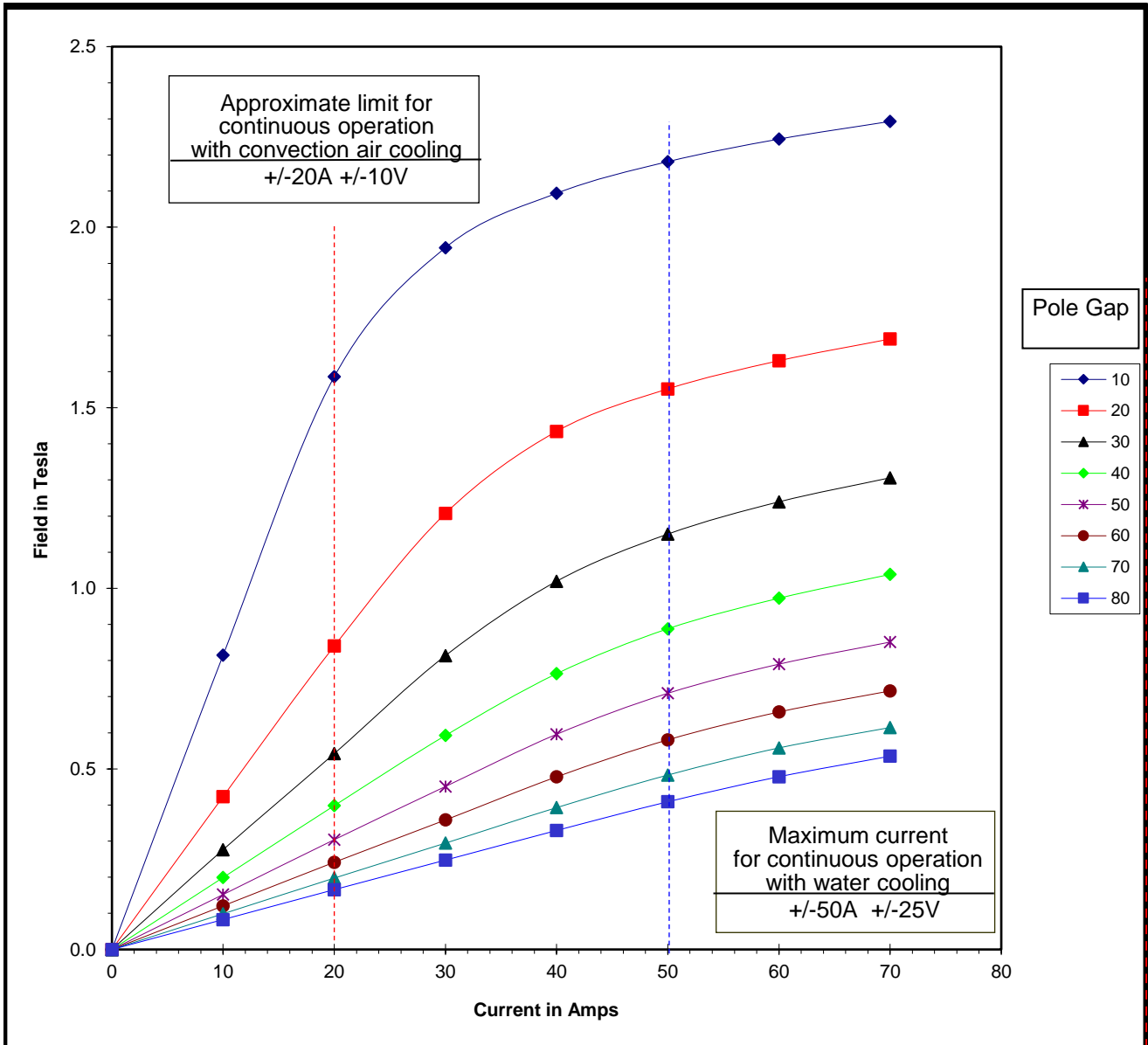
Gap [mm]									
Amps									
0	0.00000	0.00000	0.00000	0.00000	0.00000				
10	0.00000	0.00000	0.00000	0.00000	0.00000				
20	0.00000	0.00000	0.00000	0.00000	0.00000				
30	0.00000	0.00000	0.00000	0.00000	0.00000				
40	0.00000	0.00000	0.00000	0.00000	0.00000				
50	0.00000	0.00000	0.00000	0.00000	0.00000				
60	0.00000	0.00000	0.00000	0.00000	0.00000				
70	0.00000	0.00000	0.00000	0.00000	0.00000				

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Contract No:	Page: 1 of 2	Date: May 19, 2004
Customer:		Engr: G.Douglas
Model: 5403	Power Supply:	Set Current:
Serial No:	Serial No:	Target Field:
Pole Face: 76	Position: X=0, Y=0, Z=0	
Serial No: None	Notes: Data taken in Magneto simulation software	
Pole Gap: 10 to 80mm		
Pole Spacers: None		

Gap [mm]									
Amps	10	20	30	40	50	60	70	80	
0	0.00085	0.00000	0.00000	0.00000	0.00000	0.00003	0.00000	0.00000	
10	0.82924	0.42283	0.28294	0.21180	0.16788	0.13750	0.11510	0.09787	
20	1.32351	0.80270	0.55998	0.42246	0.33549	0.27498	0.23021	0.19574	
30	1.48301	1.03933	0.77959	0.60651	0.49007	0.40800	0.34376	0.29293	
40	1.55964	1.14446	0.90512	0.74416	0.62178	0.52505	0.44636	0.38267	
50	1.61667	1.21118	0.97903	0.82279	0.70626	0.61330	0.53514	0.46759	
60	1.66268	1.26282	1.03333	0.87855	0.76306	0.67059	0.59455	0.52927	
70	1.70453	1.30789	1.07902	0.92403	0.80804	0.71518	0.63865	0.57305	

Gap [mm]									
Amps									
0	0.00000	0.00000	0.00000	0.00000	0.00000				
10	0.00000	0.00000	0.00000	0.00000	0.00000				
20	0.00000	0.00000	0.00000	0.00000	0.00000				
30	0.00000	0.00000	0.00000	0.00000	0.00000				
40	0.00000	0.00000	0.00000	0.00000	0.00000				
50	0.00000	0.00000	0.00000	0.00000	0.00000				
60	0.00000	0.00000	0.00000	0.00000	0.00000				
70	0.00000	0.00000	0.00000	0.00000	0.00000				

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Serial No:	Serial No:	Target Field:
Pole Face: 76	Position: X=0, Y=0, Z=0	
Serial No: None	Notes: Data taken in Magneto simulation software	
Pole Gap: 10 to 80mm		
Pole Spacers: None		

