

150mm magnet array 8 pole Axial Flux PMA

Stator is 6 serpentine windings in 3 groups of 2. Groups labeled White, Blue, Red

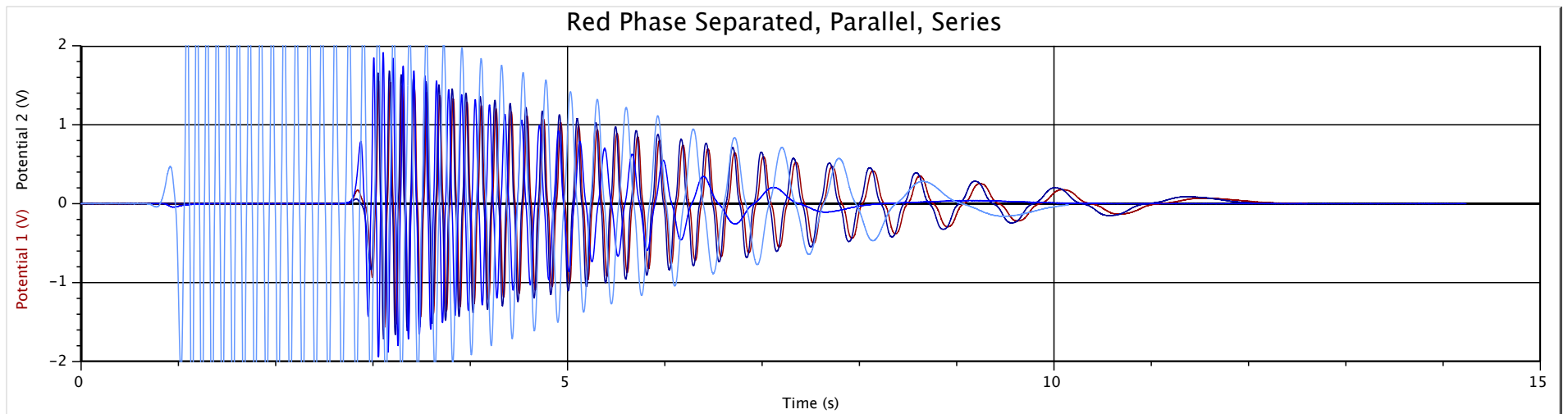
Test of 2 serpentine coils as Red phase

terminals 5,6,9,10

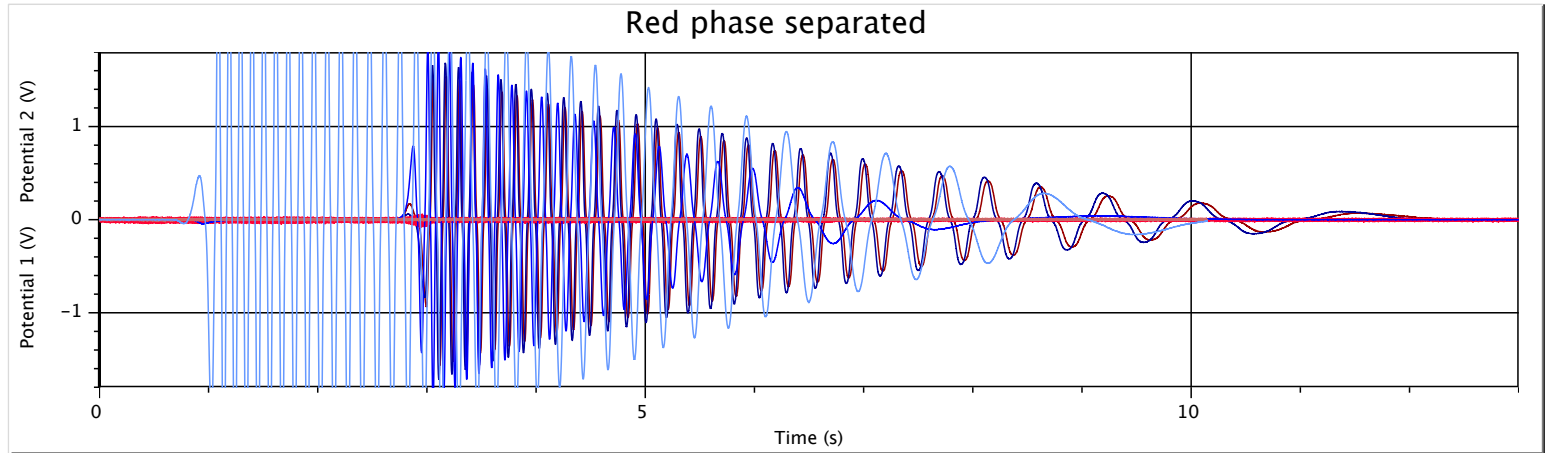
separated pg 2

parallel pg 3

series pg 4



	Latest		
	Time (s)	Pot 1 (V)	Pot 2 (V)
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

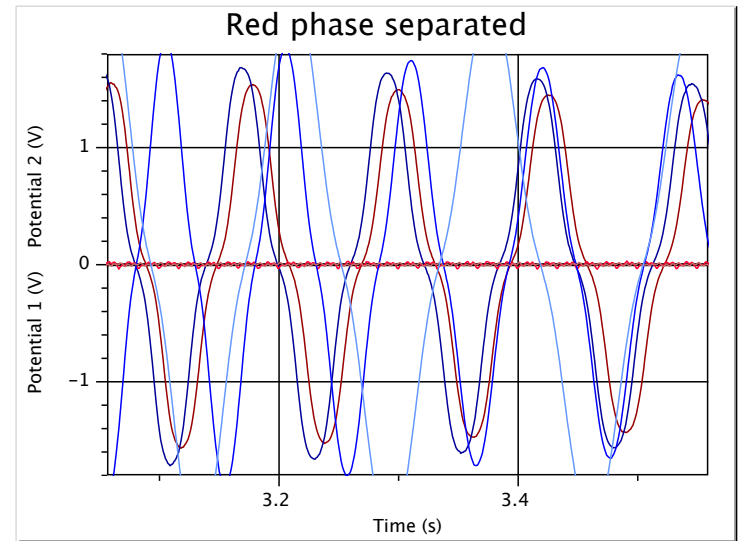


Red Phase 2 coils separately measured

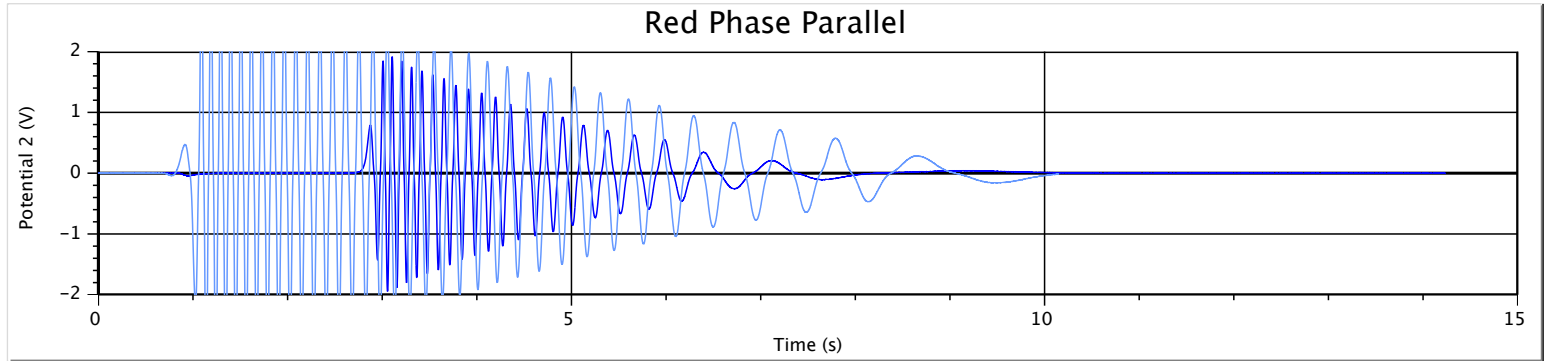
Terminals  
5(+) V 6(-)

and  
9(-) V 10(+)

in 0.497 seconds per rotations it produced 1.62V  
 $\text{rpm} = 60 / 0.497 = 120\text{rpm}$   
 $\text{kV} = 1.62 / 120 = 0.013 \text{ kV}$



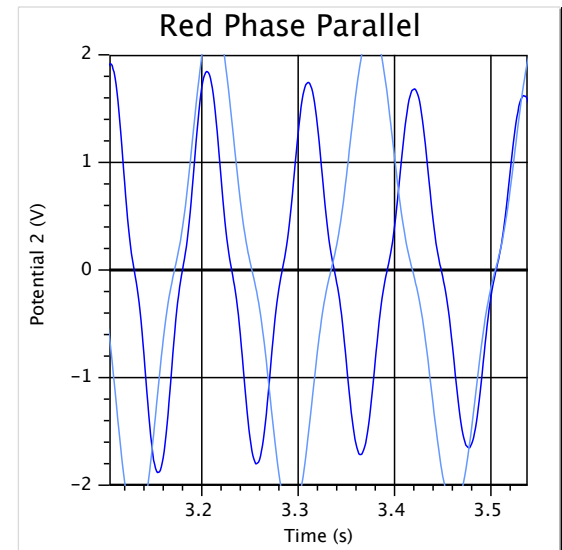
	Latest		
	Time (s)	Pot 1 (V)	Pot 2 (V)
2			
3			
4			
5			
6			
7			
8			
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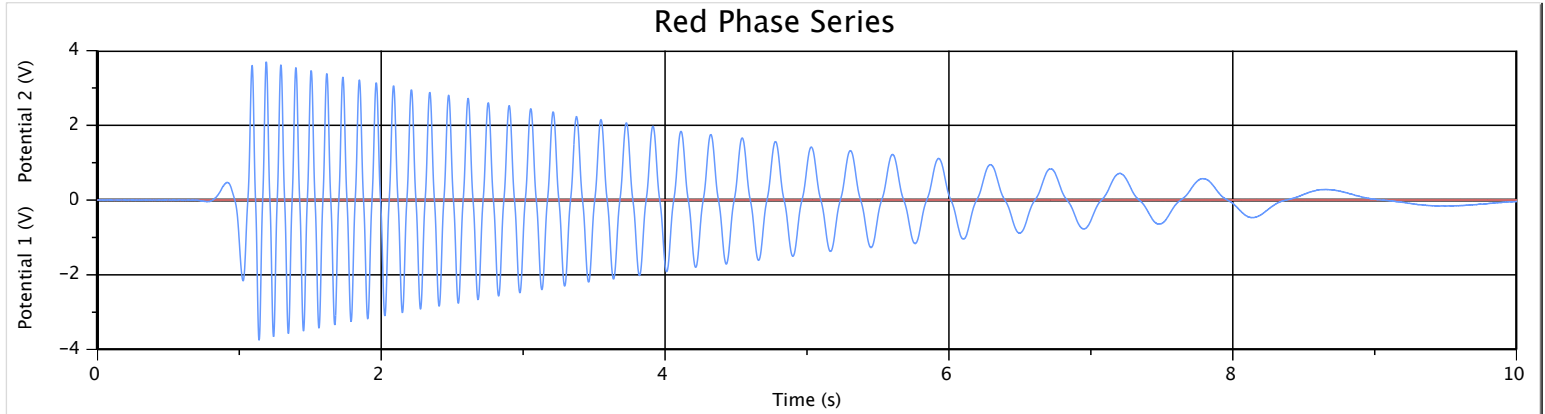
Red Phase 2 coils parallel open circuit V measured on terminals

terminals 5 and 6 joined and 9 and 10 joined, then volts measured across paired groups

at .426 seconds per rotation and 1.85V  
 $\text{rpm} = 60 / .426 = 140 \text{ rpm}$   
 $\text{kV} = 1.85\text{V} / 140 = 0.0132 \text{ kV}$



	Latest		
	Time (s)	Pot 1 (V)	Pot 2 (V)
1173			
1174			
1175			
1176			
1177			
1178			
1179			
1180			
1181			
1182			
1183			
1184			
1185			
1186			
1187			
1188			
1189			
1190			
1191			
1192			
1193			



Red Phase Series Connected

measured across terminals 5(+) to 9(-) with 6 jumpered to 10

in .432 seconds per revolution 3.72 V

$\text{rpm} = 60 / 0.432 = 138 \text{ rpm}$

$\text{kV} = 3.72\text{V} / 138 \text{ rpm} = \text{kV } 0.26$

