

EE4226 - EXPERIMENT #5

THREE PHASE CIRCUITS

Lab Section: 602

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Part 1:

3.

	Magnitude	Angle
V_{AN}	0	0
V_{BN}	128	
V_{CN}	128	
V_0		
V_1		
V_2		
I_A	1.2 A	
I_B		
I_C		
I_0		
I_1		
I_2		

$$V_{pp} = 170$$

$$\text{Faulted } V_{pp} = 256$$

If 1.2A

Part 2:

8. Power Meter 1335 Wattmeter 1 670W Wattmeter 2 640W

V_{ab} 670W 208.13 V_{bc} 640 209.06 V_{ca} 209.65

I_a 3.2A I_b 3.2 I_c 3.3

I_{ab} 1.4A I_{bc} 1.6A I_{ca} 1.5

9. Power Meter 1345 Wattmeter 1 1100 Wattmeter 2 200

V_{ab} 3.2A 208.42 V_{bc} 209.24 V_{ca} 210.59

I_a 5.2 I_b 5.0 I_c 5.0

I_{ab} 2.7 I_{bc} 2.8 I_{ca} 2.8

$$\begin{array}{r} 670 \\ 640 \\ \hline 1310 \end{array}$$