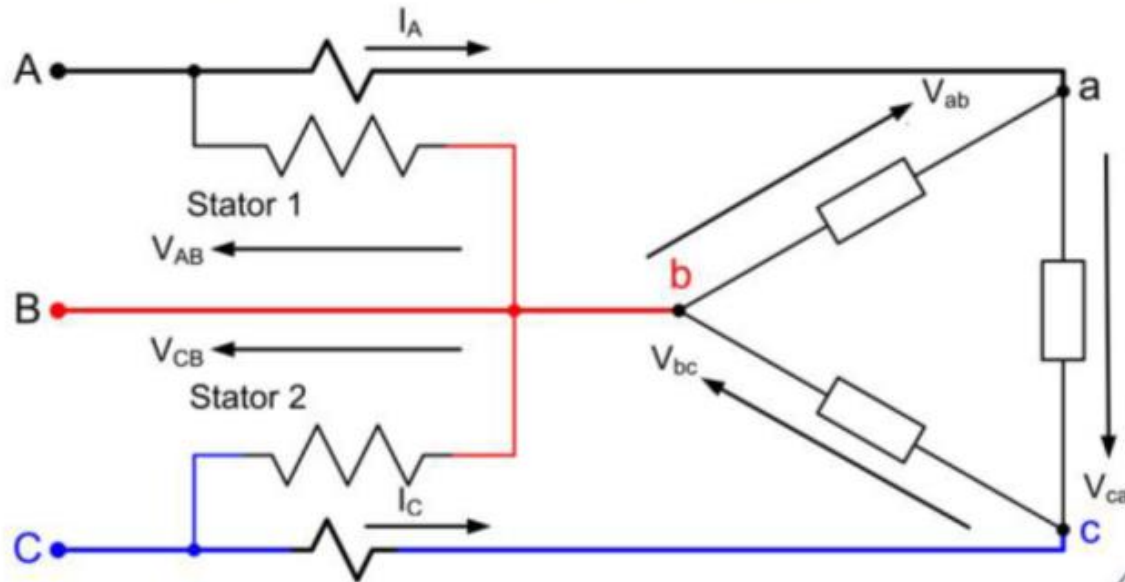


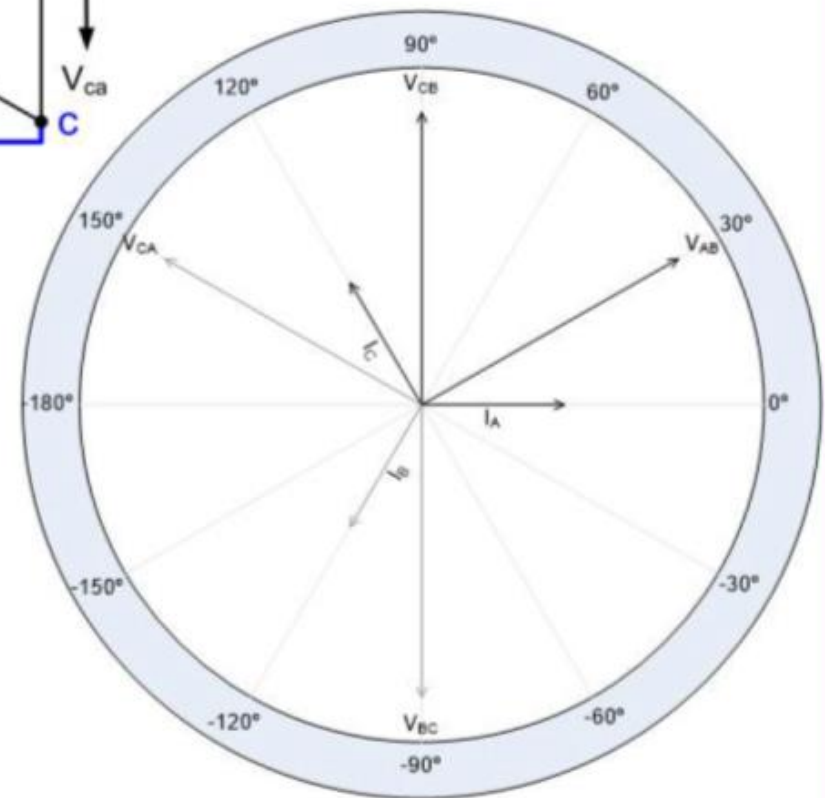
Figure 2.8 Form 5, 2-Element, Three-Wire Delta Wiring Diagram

SEL secondary vector representation. How map out vectors from Primary to secondary and prove this?

# Form 5 Meters Measure $V_{CB}$ Not $V_{BC}$



- Form 5 meters use cross-phasing to measure three-phase power
- Stator/test source phasors differ from system phasors



Bench Test results with Doble inputs to Phase A and C. Results from meter measurement.

Power Measurement and V & I angles suggested by SEL (See Test 1 thru Test 8 Tabs for meter screen shots)										
	Phase Test Voltage (Setup in Doble)			Phase Test Current (Setup in Doble)				Meter Display Results		
Test	A, B, C Voltage (Ph-N Sec)	Voltage A Angle (Deg)	Voltage C Angle (Deg)	A, B, C Current (Ph-N Sec)	Current A Angle (Deg)	Current C Angle (Deg)	Meter Quadrant	Measured MW (3PH PRI)	Measured MVAR (3PH PRI)	Calc PF
1	120.0	30	90	7.5	0	120	---	7.5	0.0	1.000
2	120.0	30	90	7.5	45	165	1	5.3	-5.3	0.707
3	120.0	30	90	7.5	90	210	---	0.0	-7.5	0.000
4	120.0	30	90	7.5	135	255	2	-5.3	-5.3	0.707
5	120.0	30	90	7.5	180	300	---	-7.5	0.0	1.000
6	120.0	30	90	7.5	225	345	3	-5.3	5.3	0.707
7	120.0	30	90	7.5	270	30	---	0.0	7.5	0.000
8	120.0	30	90	7.5	315	75	4	5.5	5.3	

Meter screen shot for Test 1 – Shows vectors for System (calculated, primary side at Unity).  
 Note: SEL HMI screen is not capable of showing input vector.

