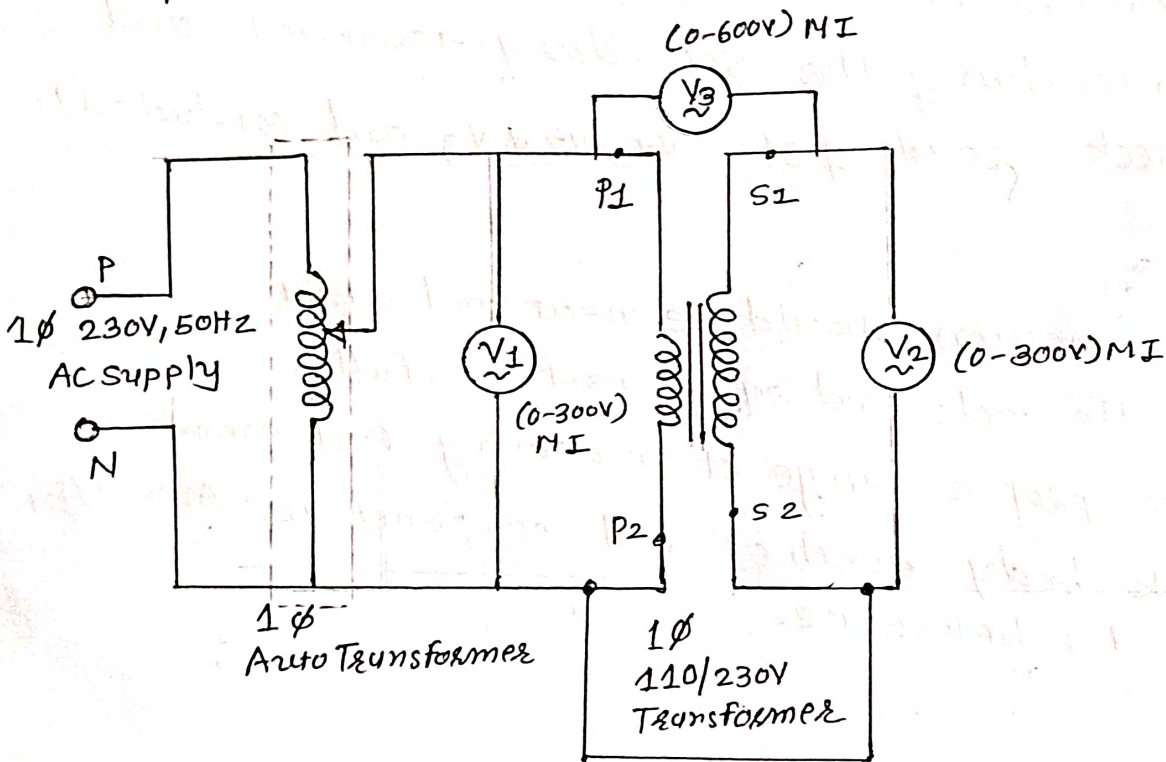


Polarity test of 1 ϕ Transformer = 01 =

★ Material, Tools & Equipment.

Specification	Rating	Quantity
1 ϕ auto T/F	2 KVA	1 Nos
1 ϕ 110/230V T/F	2 KVA	1 Nos
Voltmeter (0-600V)	(0-600V) MI	1 No.
Voltmeter (0-300V)	(0-300V) MI	2 No.



Conclusion:-

(i) $V_3 = V_2 - V_1$

↳ Subtractive polarity

↳ Polarity is correct.

(ii) $V_3 = V_2 + V_1$

↳ Additive polarity

↳ Polarity is incorrect.

Procedure:-

- 1) Collect all tools and equipment and check its physical and electrical working condition.
- 2) Construct circuit according to diagram.
- 3) Switch ON supply through the auto T/F and observe reading of V_1, V_2 & V_3 and conclude it.
- 4) Interchange the secondary terminal and check reading of V_1, V_2 & V_3 and conclude it.

Safety

- 1) All connection should be neat and tight.
- 2) Handle tools and equipment carefully.
- 3) Take proper range of measuring instrument.
- 4) Check body earth of all component i.e. Auto T/F, and T/F before use.