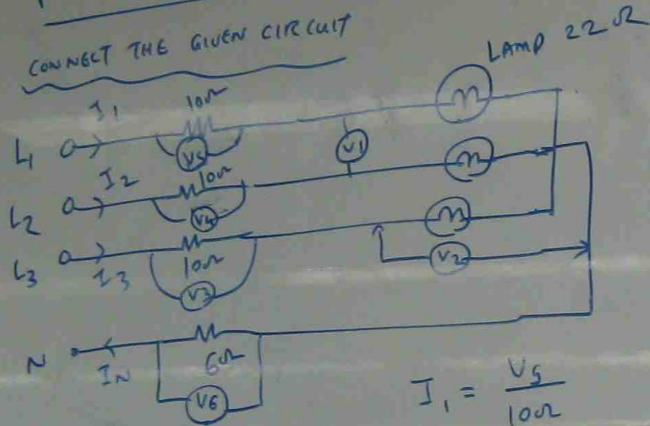


POWER SYSTEM ANALYSIS 3 ϕ BALANCED λ & Δ CONNECTION (LAB-2)

CONNECT THE GIVEN CIRCUIT



$$I_1 = \frac{V_5}{100\Omega}$$

$$I_N = \frac{V_6}{60\Omega}$$

TANG $V_1, V_2, V_3, V_4, V_5, V_6$

V_1 = LINE VOLTAGE

V_2 = PHASE VOLTAGE

V_5, V_6, V_7 = SERIES RESISTOR VOLTAGE

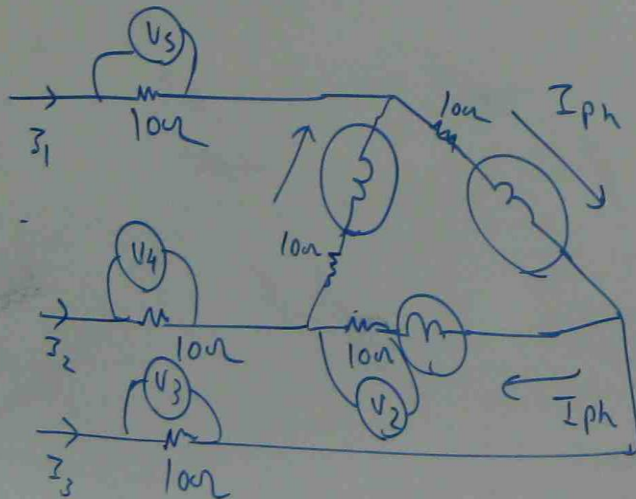
$$I_2 = \frac{V_4}{100\Omega}, \quad I_3 = \frac{V_3}{100\Omega}$$

(I_1, I_2, I_3 = LINE CURRENT)

COMPARE I_1, I_2, I_3
COMMENT ON I_N

$$\frac{\text{LINE TO PHASE VOLTAGE RATIO}}{= \frac{V_1}{V_2} =}$$

CHANGE THE CONNECTION TO Δ



$$I_1 = \frac{V_5}{100\Omega}$$

$$I_2 = \frac{V_4}{100\Omega}$$

$$I_3 = \frac{V_3}{100\Omega}$$

$$I_{ph} = \frac{V_2}{100\Omega}$$

CALCULATE $\frac{I_1}{I_{ph}}, \frac{I_2}{I_{ph}}, \frac{I_3}{I_{ph}}$

PROVIDE COMMENT.

