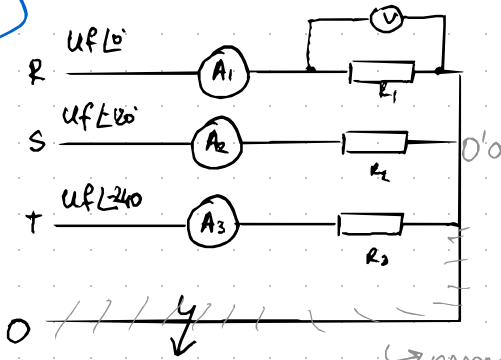


5.D7



$$R_1 = 115 \Omega$$

$$R_2 = 55 \Omega$$

$$R_3 = 18 \Omega$$

$$U_L = 215 \text{ V}$$

$$I_1 = ? \quad I_2 = ? \quad P_{uk} = ?$$

↳ nema D. vodiča pa je napon 0,0

$$U_{0'0} = \frac{\frac{U_{FL0}}{115} + \frac{U_{FL120}}{55} + \frac{U_{FL240}}{18}}{\frac{1}{115} + \frac{1}{55} + \frac{1}{18}} = 111,92V \angle 131.03^\circ$$

$$\rightarrow U_{R_1} = U_f \cdot \frac{R_1}{R_0} = 300,57 \angle -16,31^\circ \rightarrow I_1 = \frac{U_{R_1}}{R_1} = 2,61 \angle -16,31^\circ$$

$$U_{R_2} = 272,76 \angle -97,16^\circ$$

$$I_2 = 4.96 - 97.16^\circ$$

$$U_{R3} = 107,31 \angle 108,49^\circ$$

$$\underline{I_3 = 5.96 \angle 108.49^\circ}$$

$$P_{uk} = P_1 + P_2 + P_3 = \frac{U_{R1}^2}{R_1} + \frac{U_{R2}^2}{R_2} + \frac{U_{R3}^2}{R_3} = 1253,06 \angle -157,79^\circ \text{ W}$$

$$I_1 = 2.61 \text{ A}$$

$$I_2 = 4,96 \text{ A}$$

$$P_{uk} = 1,253 \text{ kW}$$

4. PREDANO