

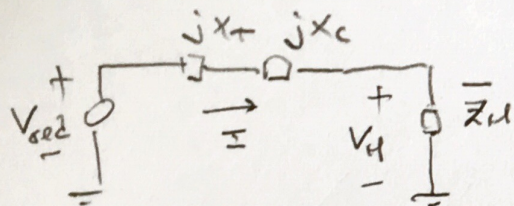
m2 1

$$\bar{Z}_{Arr} = \frac{440/\sqrt{3}}{1250} \angle x \cos 0,3 = 0,203 \angle 72,5 = 0,061 + j 0,19$$

2) Um solo Trfso conectado.

$$\alpha_T = 0,053 \times \frac{440^2}{750 \times 10^3} = 0,0142$$

$$\alpha_c = 0,15 \times 0,3 = 0,0452$$



$$V_{red} = \frac{6000}{\sqrt{3}} \times \frac{440}{6300} = \frac{419}{\sqrt{3}} = 242,2V$$

3) Arraueque: $\bar{Z}_H = \bar{Z}_{Arr}$

$$I = \frac{V_{red}}{j(X_T + X_C) + \bar{Z}_{Arr}} = \frac{242,2}{0,061 + j 0,25} = \frac{242,2}{0,26 \angle 76} = 931,5 \angle -16$$

$$V_H = 0,203 \times 931,5 = 189,1V \Rightarrow \underline{U_H = 327,1V}$$

$$4) C_{Arr} = K U^2 \Rightarrow C_{ArrN} = K U_N^2 \Rightarrow K = \frac{750}{440^2} \Rightarrow C_{Arr, \text{fun}} = \left(\frac{327,1}{440} \right)^2 \times 750 = \underline{454,5 N \cdot m}$$

$$C_{x \text{ mfm}} < C_r \Rightarrow \underline{\text{No Arranca}}$$