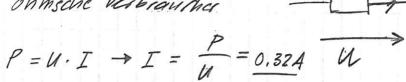
I

ET11,37

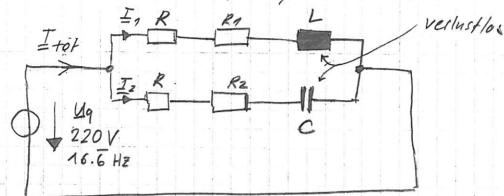
a) Lampen



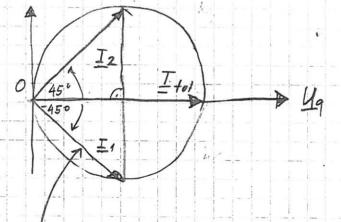
ohmsche Verbrauther



ESB :



Anfordering:



Zueig 1



$$|U_{R+R},| = \frac{U_g}{\sqrt{2}} = 155.6 \text{ V}$$

$$U_{R1} = U_{R+R1}T - 125 = 30.56 V$$

$$R_1 = \frac{u_{R1}}{I} = \frac{30.56 \, V}{0.324} = 95.5 \, \Omega$$

$$U_{L} = \frac{u_{q}}{\sqrt{2}} = \frac{220 \, V}{\sqrt{2}} = 155.6 \, V$$

$$X_{L} = \frac{U_{L}}{I} = \frac{155.6}{0.32} = 486.1 \Omega$$

UR+R=

$$L = \frac{X_L}{\omega} = \frac{486.1}{211.163/3} = 4.64 + \frac{1}{2}$$

$$U_c = \frac{U_9}{\sqrt{2}} = 155.6 V$$

$$X_c = \frac{u_c}{T} = 486.1 \square$$

$$X_{c} = \frac{1}{\omega c} \Rightarrow c = \frac{1}{\omega X_{c}} = \frac{1}{2\pi \cdot 6 \cdot 5} \cdot 486.7$$