S, = 9.3 LVA

P1 = 8.3 hw

PF, = cos 0, -> 0, = cos-1 (PF)

S, = J3' U400 \(\bar{Z}_1^* \rightarrow \bar{R}_1 = \frac{(9.3 WA \(\frac{7}{260} \)^*}{\sqrt{3} 480 \(\frac{7}{400} \) \(\frac{7}{400} \)

$$\Theta_{2} = \cos^{-1}(0.8) = 37^{\circ}$$

$$S_{T} = S_{1} + S_{2} + S_{3}$$

$$= 9.3 \mu VA 4 26° + 10.8 \mu VA × 37° + 24 \mu VA 4 °°$$