

IL= 4656.19 A.

The par unit Reactions on 100 MVA

$$I_{s} = \frac{1}{.07} = 14.29 A$$

$$Igen = \frac{1}{0.159} = 6.289$$
 =

$$\frac{Igen = 23346}{1000} = 23.35 A$$

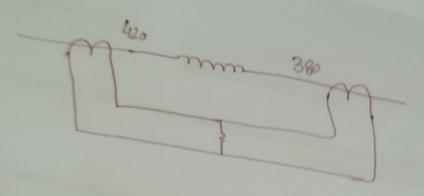
Tsys = 1 = 8

Isn = 8 x 3724 9 = 298831

Isist on Secondary: 2988.3 1000 = 29.89 A AHORI

D.

2=5



$$I_{1} = \frac{420}{400/5} = 5.25A$$

$$I_{2} = \frac{380}{400/5} = 4.75A \ge$$

$$I_{1} - I_{2} = 5.25 - 4.75 = .5A$$

$$I_{1} + I_{2} = 5.25 + 4.75$$

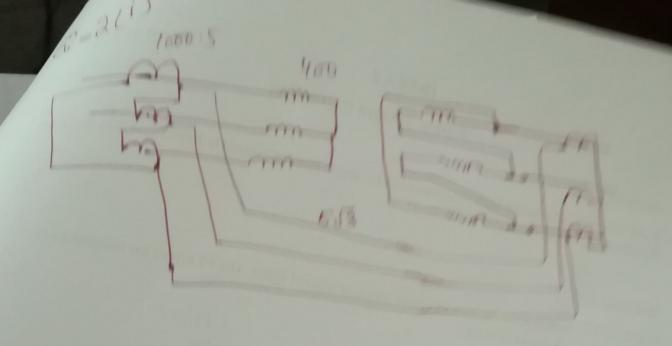
$$\frac{1}{2} = 5.25 + 4.75$$

$$I_{1}-I_{2} = K\left(\frac{I_{1}+I_{2}}{2}\right) + K_{0}$$

$$= 0.1\left(5\right) + 0.25$$

$$= 0.75$$

So for the operation of the Relay $I_1-J_2 > .75$ when $I_1+I_2 = 5A$. But $I_1-J_2 \neq .5$ and $I_1-J_2 \neq .5$



V3 x 400 x 1000 = 53 x33000 x 542

The Corrent through Secondary of CT will be delta Connected.

Current through it will be 553A.
The of on secondary will be.

33000 V 8de = 400 33x553