

## "TMA5 Question 2"

The Fault current as things stand is

$$\frac{6350}{0.78} = 8141 \text{ Amps.}$$

$$\text{Impedance} = (0.3 + j0.3) + 0.42$$

$$= 0.72 + j0.3$$

$$0.78 \Omega$$

We need to Reduce the current to

$$\frac{4300}{0.72} = 597.22 \text{ Amps}$$

to find the ~~current~~ earth path impedance

$$\frac{6350}{597.22} = 10.63 \Omega$$

What I'm thinking is the correct thing to do next is to find the Resistor needed. we subtract our original

Resistance "0.72" From the "10.63  $\Omega$ "

giving us  $= 9.91 \Omega$  Resistor  
(Neutral earthing Resistor)