

(98) 60Hz V2 = 208 Vrms = V3 V4 Z1= 30 + 40i Find I've to neutral voltage phasois

Line - to - (me

1/ab= 294230°V/ E Vbc = 294 L-900 V Vec = 2946150° V

Vab = Van - Vbn = 120 72 60 - 120 75 6-120

Vy = 120 Vmg

Vy = 120 V2

I've curent phasers ZuA = 2.4-122-53.13" A 26B = 2.4-52 L-173,13° A icc = 2.4-12 66.870 A

1 A 9 30+40; 30+40; = 2.4,521-53.18

The Power P(t) = 3 \frac{\text{Vy II cos 0}}{2} = \frac{3}{2} \left(120 \overline{\text{F}} \right) \left(2.4 \overline{\text{F}} \right) \cos \left(53.13 \right) = \frac{518.4}{6} \text{W} = P

Denetve

Q = 3 Vy I sm0 = 3 120 1 Z.4 JZ sm(53.15) = 691,2 VAR = Q

delivered