لم شراه ليستر شر هيده

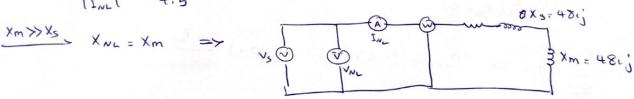
Vs: 2200 V Pout 260 hp f: 60 HZ

NLT: 2200 V, 60 HZ, 4,5 A, 1600 W

BRT: 270 V, 15 HZ, 25 A, 900 W

DCT: 28 V, 5A

$$R_{NL} = \frac{P_{NL}}{|I_{NL}|^2} = \frac{1600}{(4.5)^2} = 79 \Rightarrow ie_{NL} : 3 \times 79$$



II) 
$$R_{BR} = \frac{P_{BR}}{1I_{BR}I^2} = \frac{900}{(25)^2} = 1.44 \%$$
,  $|Z_{BR}|^2 = \frac{|V_{BR}|}{1I_{BR}I} = \frac{270}{25} = 10.8$ 

$$|X_{BR}| = \sqrt{|Z_{BR}|^2 - |BR_{BR}|} = \sqrt{(10.8)^2 - (1.44)^2} = 10.7$$

$$=> X_{I} = a^2 X_{B} = \frac{X_{BR}}{a^2} = \frac{10.7}{3}, \quad R_{I} = R_{BR} - R_{S} \Rightarrow 1.44 - 5.6 = -4.16$$

II) DCT: 
$$R_{s} = \frac{V_{0c}}{F_{0c}} = \frac{28}{5} = 5.6$$