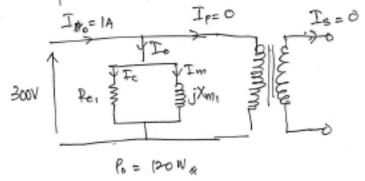
Assuming no locses:  $\frac{Vp}{Vs} = \frac{Np}{Ns}.$   $\frac{Vp}{Vs} = \frac{Np}{Ns}.$   $\frac{Vs}{Vs} = \frac{Vs}{Vs} = \frac{240}{1500} \times 600 = 96 \text{ fs}$ 

Neglicot loeses;

$$P_{in} = P_{out}$$
  
 $V_{p} = \frac{V_s^2}{R} = \frac{150^2}{20} = 1125 \text{ W}$   
 $V_{p} = \frac{1125}{C} = 225 \text{ V}_{a}$   $P_{i} = 54$ 

(4)

For open circuit - Test:



a.) Iron loss convent &

6) The power factor on no-load;

phasor diagram:  $F_0$   $F_0$ 

c.) The magnetising covert:

$$I_m = \sqrt{(I_0^2 - I_c^2)}$$
  
=  $\sqrt{I_0^2 - 0.4^2} = 0.92$ 

a) 
$$V_2 = M_2$$
 $V_1 = M_1$ 
 $V_2 = M_2$ 
 $V_3 = S_0$ 
 $V_4 = S_0$ 
 $V_5 = I_1$ 
 $V_1 = S_0$ 
 $V_1 = I_2$ 
 $V_2 = I_1$ 
 $V_3 = V_1 I_1$ 
 $V_4 = I_1$ 
 $V_1 = I_2$ 
 $V_1 = I_2$ 
 $V_2 = I_3$ 
 $V_3 = V_1 I_2$ 
 $V_4 = I_4$ 
 $V_1 = I_2$ 
 $V_1 = I_2$ 
 $V_2 = I_3$ 
 $V_3 = I_4$ 
 $V_4 =$ 

= 98.21