000 12-> 220v . 0-150/300v Wo - Paling Prin. Voltmeley + Primar. Amo TO J 0:184 J 0-1/24 X Wo → 0-1/21 N. 1002/051-0 - 1011 - 0 12- 94 -Wy -> 0-30/50V I SX > 9.5A + 0-15/10A (0,-5A K Ve -> 22 V Motor Selection 0-150/3000 5 30-20/60V 0- 10A/15A

Equivalent - Ckt of 10 Transformer)

1. 10 Transformers are the trans. Dhich deal with single phase power.

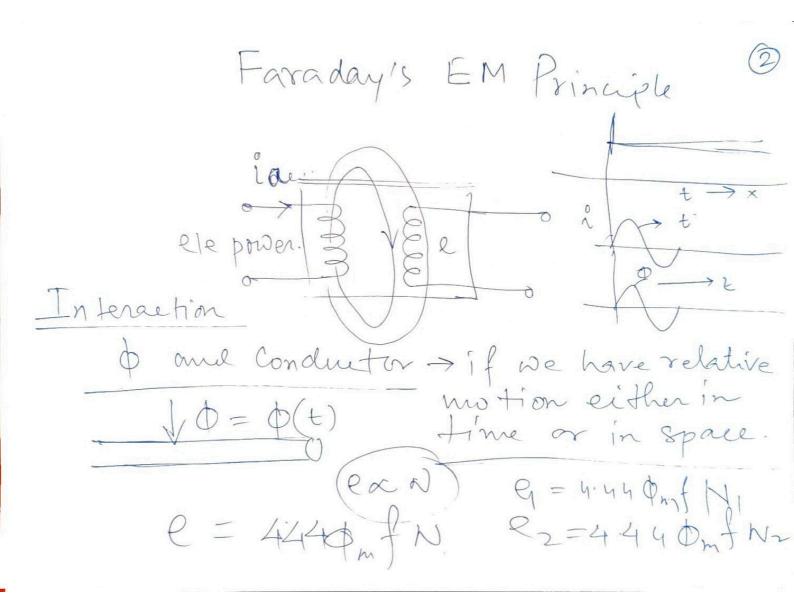
Ele.

Pin Transformer Poul
by changing the levels of V and I

We need to fixed.

in crease V Requirement J. P.S.

or decrease V Requirement J. P.S.



Names of Windings

depends on

Primary capplication Secondary

Pin > Be Pont

depends on

LV 2 design.

HV

N 2 > N, => V2 > N,

Rating of Transformer & ted Parameters. P = 1kVA = 10 VA $VX = \frac{V \times 10^{120}}{100} = \frac{10}{220} = \frac{10}{200} = \frac$ $\boxed{P = V_1 I_1 = V_2 I_2} \boxed{ \cdots } \cos \phi = \boxed{1} 0.965$ $\frac{\frac{1}{10}}{\frac{1}{10}} = \frac{1}{10} = \frac{1}{10$ $T_{3} = \frac{P_{3}}{V_{3}} = \frac{10^{3}}{10^{3}} = 9.1 \text{ A} \rightarrow Paled when the current of the curren$ Equivalent Ckt of 10Tr.

1. OCT

2. Set = combination of cle. Ckt. elem. $\Rightarrow \text{Equ. Ckt}$ = cle. x=? $\Rightarrow \text{equ. ckt}$

OCT & Flot.

1. To calculate the M W Direct method,
2. To calculate the loss of Direct method,

Pin Pont Wo M = Wo

Loss = W, - Wo M

1. N W

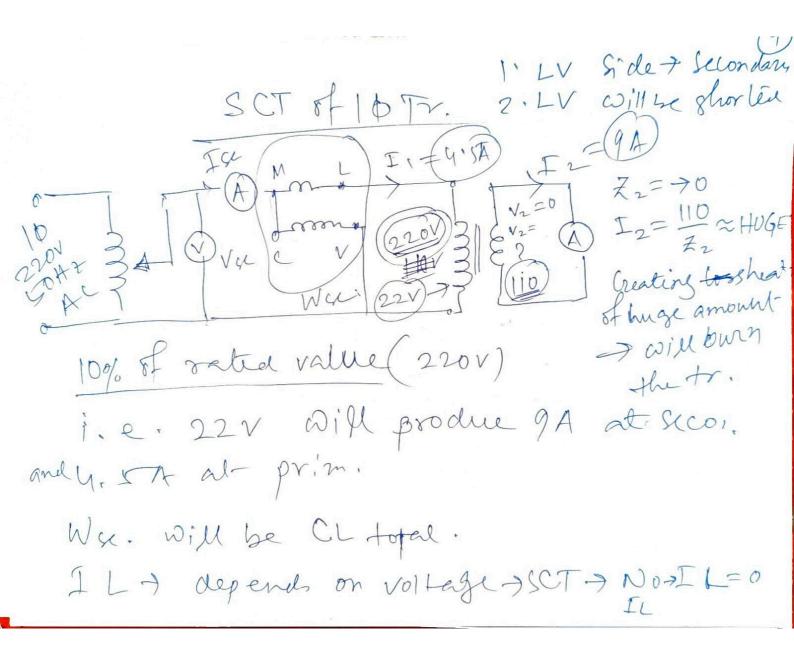
2. LW > We get Floss C-loss seperately

3. Equ. cut parameter:

OCT + SCT

(F Trans L I flows the

Ck Variac 10 PI=VII 110 = Wo 2% of GA (II 25 50 75 PCL = 0 S CL = 0 CL = PCL Comp belier = 0 100 110



SCTDala

Val	Ice	Wy	I2/
	=		2 A
			YA
	250		6A
			84
22)	-		9.A

Meter Selection (MI)

OCT Vo > 110 v > 0-150/300v.W

Fo > 0.18A -> 0-1/2A W

Wo -> Palings Prim. Voltmely + Primar. Amr

12 -> 220v. 0-150/300v

Wo -> 0-1/2A
0-150/300v

SCT

Scr 22V -> 0-30/60v

Isc > 9.5A -> 0-05/10A 0,-5A W

Ws -> 0-30/60v

Isc > 9.5A -> 0-10A/15A

Connection Procedure.

SHA M L

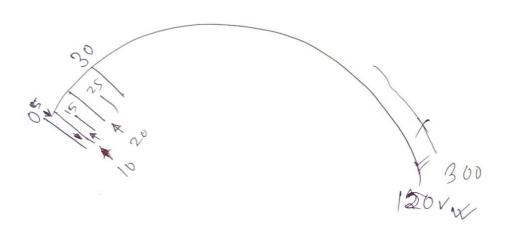
SHA M L

WHY V

IIV. Plant HY V

Everyt

Meter Reading



(14

Egv. Ck+ Parameter Calculation

$$R_0 = \frac{V_0}{I_W} \left[V_0 = I_W \cdot R_0 \right]$$

$$X_0 = \frac{V_0}{I_M} \left[V_0 = I_M X_0 \right]$$

When Xo and Ro are know OCT Eg. Chis

15

SCT-Eq. Ckt

Vse 7 Wse = IseRse

Ise Total impedance

 V_2

Zsc = Pertj Xsc Zsc = Pert Xsc

Xsc = JZsc-Pse

Reg and XC, WT

Per and X se are Obtained SCIEC. Is know.