HIN 3

3-2 (a)

Regip =
$$R_p + \partial^2 R_S$$
 $+ \frac{3}{2} \frac{7}{2} \frac{1}{2} \frac$

load regulated

Scanned with CamScanner

al) What is M?

$$=\frac{(8290 \, \text{U})^2}{250 \, \text{LSL}}$$

$$=(2.5A)^2(73.851)$$

1-9 10 NVA, 480/120 V Xfor used as auto Xform tying 600-V dostr to 480 V load.

Tested as conventional XImm on primary side (4800)

(2) 75 WA 1-9 7.2 W-240V distrb. X Com

Find eq. det

= 10.4 A

Parallel Components

Series Components

equivolent cht: Prinary-side Confileur Vp ZRore Ejxn Js/2 aVs 1 a2 Zz Rore = 34.5 ksl Xm = JOHSZ Regp = 15 52 Xego = 28 52 FE Prob1 50 kW lord W/ PFZ 0.77 by And Qc -> PF'= 0.95 leg S, = 50 W = 65 LVA Q = Pten(cos'(PF)) = 41 kVAr Q = Ptan(LOS'(PF")) = 16 LUAr Qc = Q' - Q = -25 hUAr in parallel (D)