```
Δi:= K·12-11 ·100 = 300 · 4,75-300 = -5% => klasa točnosti 5
 2) We = 5.300 + (15-5).800 + (24-15).200 = 11300 kWh
      WJ=5.200+(15-5).800+(24-15).200=10800 KVArh
      WJ,002V = WR. +g(arccas (0,95)) & 11300.0,33 = 3729 LVArh
      WJ.KON = WJ - WJ.002V = 10800 - 3729 = 7071 KVArh
      QJIKON = WJIKON = 1071 = 294.625 KVAr > Qmin (200)
   - razdvojamo kompenzaciju na određene vremenske interrale
       1) 0-5h & 15-24h
          WR = 5.300 + (24-15).200 = 3300 kWh
          Wj = 5.200 + (24-15): 200 = 2800 KVArh
          WJ,00ZV = 3300.0,33 = 1089 KWh
          WILLOW = RESON - COS 9 = N711 KVArh
          Q], KON = (5-0)+(24-15) = 1711 = 122.21 KVAr < Qmin (200)
       11.) 5-15 h
          We = (15-5). 800 = 8000 kWh
           Wj = (15-5) . 800 = 8000 KVArh
           W3,002v = 8000.0,33 = 2640 LVArh
                                                                minimolni u
           WJ, WND = 8000 - 2640 = 5360 KVArh
           QJ,KONO = 5360 = 5360 = 536 KVAr < Qmin (800) W
3) GOORDSTEND = UKINMIN . E. SNi Sukinmin . Si = Sni . Sukinmin . Si = Sni . Sooristeno . Ukini
   Sour. = 6. (30 + 50 + 40) = 106.786 MVA
   S_{1} = 30 \cdot \frac{120.6}{5000 \cdot 8} = 25.28 \text{ MVA} = 0.84 \text{ Sng} /
   S_2 = 50 \cdot \frac{120.6}{\text{Spec G}} = 56.19 \text{ MVA} = 1.12 \text{ Sp.} \times - \text{preopterećen}
   S3 = 40. 120.6 = 38.53 MVA = 0.96 Sn3 V
```

 $\Omega_{x} = n \cdot \frac{2n}{2x} = 15 \cdot \frac{2}{5} = 6 < 5 \Rightarrow ne$ odgovara

-uzimamo $n_{x} = 5$ $Z_{x} = \frac{n}{n_{x}} \cdot Z_{n} = \frac{15}{5} \cdot 2 = 6 \Omega$ $Z_{x} = \frac{n}{n_{x}} \cdot Z_{n} = \frac{15}{5} \cdot 2 = 6 \Omega$ => to mora biti nasa nova impedomiya; 2 mazi trebomo doduh još otpor od 1 \(\Omega \) na počet mih.

5 \(\Omega \)

od praksi ne bih smjeli spojiti primoir na napon viši od nojnižeg napona primoira među tronsformatorima oli se tolerira tih 5% jer su tronsformatori tako oprađeni da mogu podnjeti više nopone do $v_{x} = 0$ 000 nozivnog.

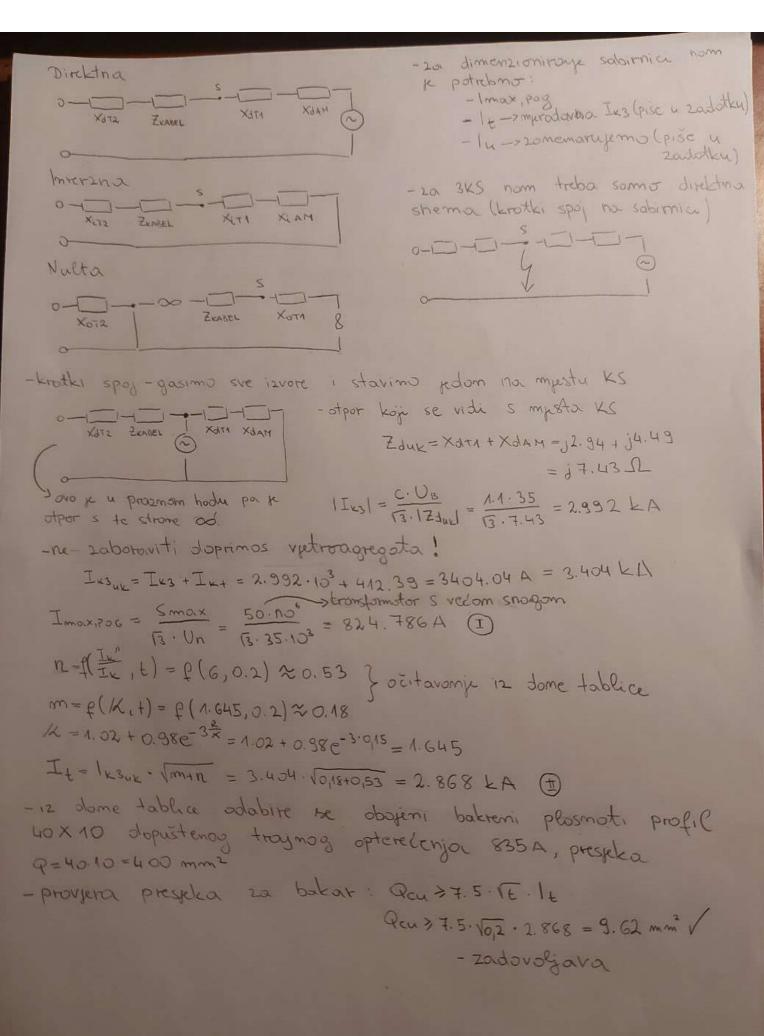
 $\frac{30kV}{\sqrt{12}} \Delta V = \frac{U_1}{\sqrt{13}} \left(\frac{U_{572}}{U_{P72}} - \frac{U_{S71}}{U_{P71}} \right) = \frac{30}{\sqrt{3}} \left(\frac{10}{2815} - \frac{10}{30} \right) = 0.304 \, \text{kV}$ $\times 1 \left[\frac{1}{\sqrt{2}} \right] \times 2 \times 1 = \frac{100}{\sqrt{2}} \cdot \frac{100}{\sqrt{2}} = \frac{8}{\sqrt{2}} \cdot \frac{100}{\sqrt{2}} = 0.2 \, \text{L}$

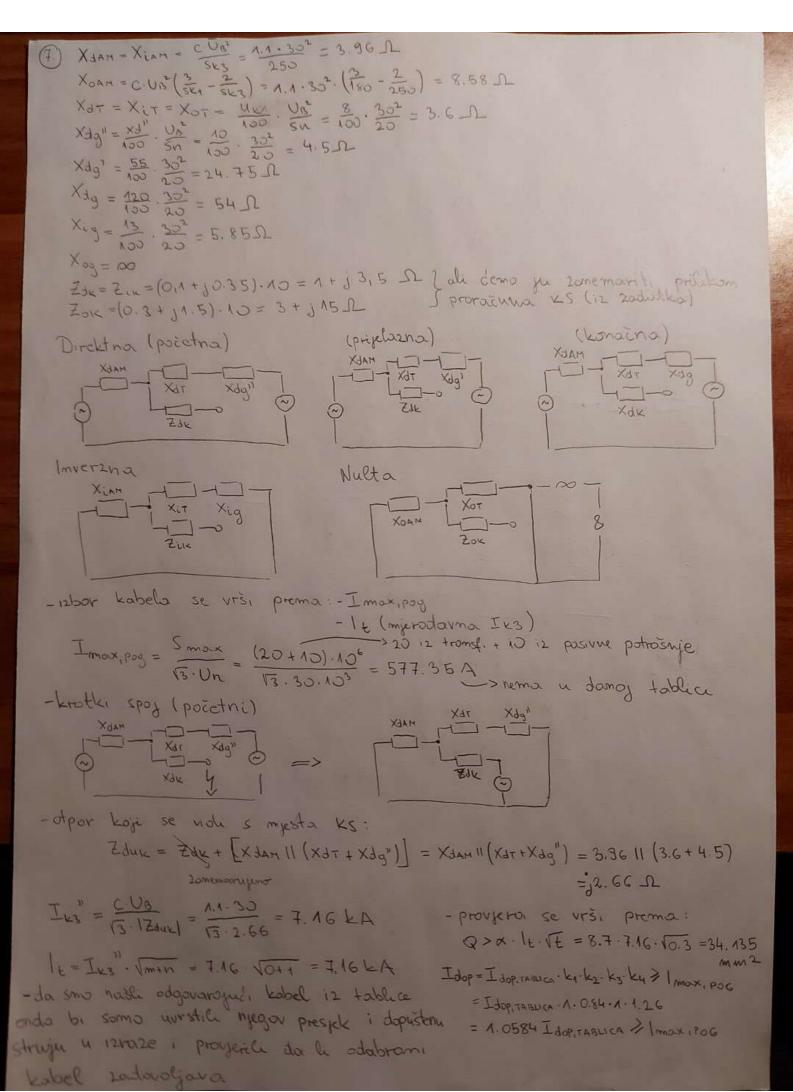
$$\begin{split} & I_{1m} = I_{2m} = \frac{\Delta V}{2 \times X} = \frac{0.304}{2 \cdot j_{0}/2} = -j_{0.76} \text{ kA} \\ & I_{1n} = I_{2n} = \frac{Sn}{13 \cdot V_{n2}} = \frac{40}{13 \cdot 10} = 2.3 \wedge \text{ kA} \\ & I_{1j} = I_{2j} = \sqrt{I_{1m}^2 - I_{Am}^2} = \sqrt{231^2 - 0.76^2} = 2. \wedge 8 \text{ kA} \\ & P_{1} = P_{2} = \sqrt{3} \cdot V_{n2} \cdot I_{1j} = \sqrt{3} \cdot 10 \cdot 10^3 \cdot 2.18 \cdot 10^3 = 37.77 \text{ MW} \\ & P_{uk} = P_{1} + P_{2} = 2P_{1} = 2 \cdot 37.77 = 75.54 \text{ MW} \end{split}$$

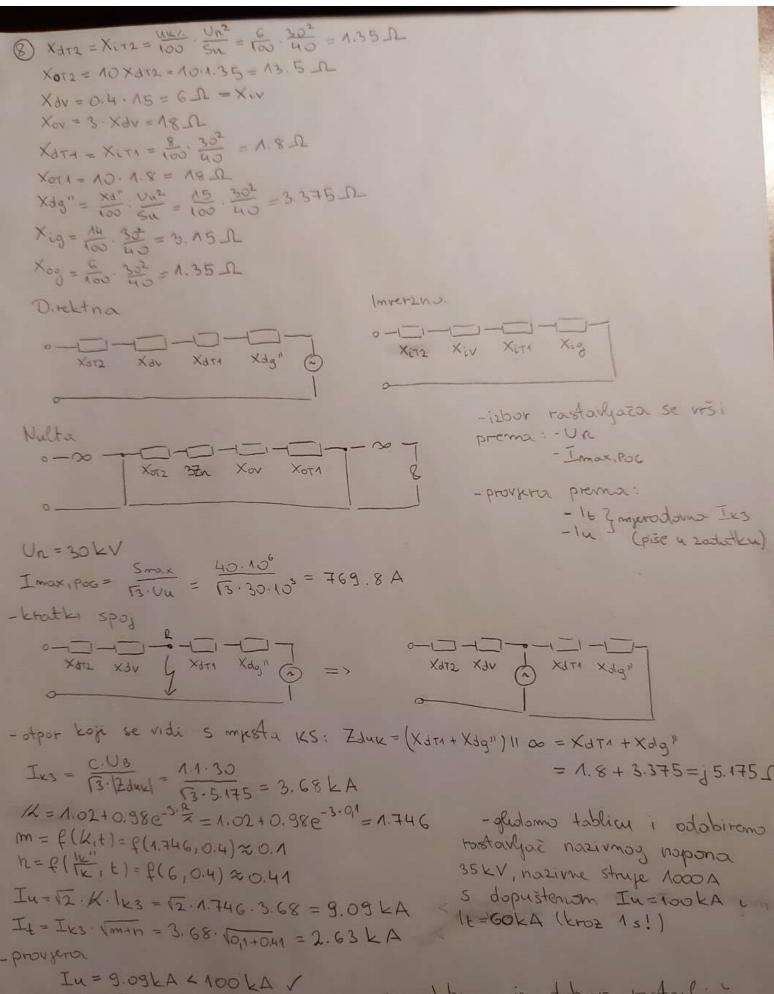
(a) $X_{dT2} = X_{LT2} = \frac{U_{KT2}X}{100} \cdot \frac{U_{D}^{2}}{5n} = \frac{8}{100} \cdot \frac{35^{2}}{30} = 3.267 \Omega$ $X_{dT1} = X_{LT1} = \frac{12}{100} \cdot \frac{35^{2}}{50} = 2.94 \Omega$ $X_{dAH} = X_{LAH} = \frac{C \cdot U_{D}^{2}}{5u_{3}} = \frac{1.1 \cdot 35^{2}}{300} = 4.49 \Omega$ $X_{DAH} = C \cdot U_{D}^{2} (\frac{3}{2}x_{1} - \frac{2}{5u_{3}}) = \infty$ -doprinos vietroagregota struji krotkog s

-doprinos vietroagregota struji krotkog spoja $I_{K_1} = \frac{N \cdot Sn}{13 \cdot U_{2n}} = \frac{50 \cdot 500 \cdot 10^3}{13 \cdot 35 \cdot 10^3} = 412.39 A$

- u nowlompesnim shemoma predstavlja prozni, hod ZKABEL = (RKI+ 8XKI). P = (196.103+ 1140.103). N = 0.136+ 10,1412







It. = 2.63. Fix = 4.16 kA < 60 kA / => odabron je doboir tastavljač

XdT2 = 100 . 40 = 1.35 1 = X; T2 prekidata se Vr3, Prema: = izbor -Un X012 = 10 135 = 13.5_1_ - Imax, Poc Xdv = 0.4.15 = 6.12 = XLV Xov = 3.6 = 18 12 1 XATA = 8 . 302 = 1.8 D = XITA 1281 = 8.1. C1 = 170X Xdg" = 15 . 302 = 3.375 D X19 - 100 302 - 3.15 1 X0g=6. 302 = 1.35.SL Inver2m2 Direktha Xitz Xiv Xita Xig Nulta XoT2 3Zu XoV XOT1 Imax, POG = 40.106 (3.30.103 = 769.8 A Sr=13. Un. 1,-> nojveća struja koju prekidač mona moć: prekimuti, posto mreza ima jedom odvod to će biti struja krotkog spopa na sabirnia A -motomo nadi nojnepovoljniji KS, dva su nazima: I) iznačunut sve pa vidit - koju je moj veći I) Edux = XdT1 + Xdg" = 1.8+3.375 = 5.175_1 I) Proko tablice x= ZdiB Zink = XiT1 + Xig = 1.8+3.15 = 4.95_2 204x = XoTA 11 (XOT2+32n+XoV)=1811 (13.5+3.10+18) x≈0.35 => 12 tablice nojnepovoljuji Ik3 Ik3 = C.UB = 1.1.30 = 3.68 kA = | + St= 13.30.103.3.68.103 = 191.3 MVA Odabine se prekida : Un = 30 kV Sn = 750MVA \$ 12 tablice

In=1250 A