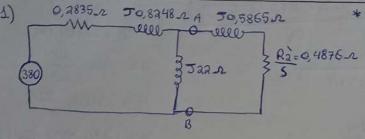
Mome: Pedno hucas Monais Anadjo
Preletnotécnica
máquinas Assincanas hista 4 - Questão Única
O1) 0,28352 To.82482A To.58652 \*\*\*

Data: 29/04/2021

\*mit higado em delta



a) 2TH = (RS + JxA)/I Jxm 2TH = (0,2835 + J0,8348) /I Ja2  $2TH = 0,8722 L74,0341^{9} /I 22 L90^{9}$   $2TH = 0,8722 L74,0341^{9} x 22 L90^{9}$  $0,8722 L74,0341^{9} + 22 L90^{9}$ 

ZTH = 19,1884 L161,0311° 22,8266 L89,2884°

 $VTh = \frac{VF. Jxm}{Ri + (Jxi + Jxm)}$ 

 $NTH = \frac{380.22190^{\circ}}{0,2835 + J22,8248}$ 

 $VTH = \frac{8360 L 90^{\circ}}{22,8266 L 89,2834^{\circ}}$ 

VTH = 366,2394 10,71169 V

2TH = 0,8406 171,7421 = 0,2634 + J0,7983 -2

RTH = 0,2634 XTH = J0,7983 A

6) + momento da Pantida
0, 26342 J0,79832 A J0,5865
WHILL DILLET

5\_Pantida= $\frac{3600-0}{3600}=1,0000$ 

ZTotal =  $(RTH + 5xTH) + (\frac{R^2}{5}) + 5x^2$ 

0,4876 5 270tal = (0,2634+70,7983) + 0,4876+ 50,5865

2 total = 0,7310 + 1,38487

2 total = 1,5753 (61,5283° -2

12 total 1 = 1,5753 1

$$T_{2}-Pantida = \frac{|VTH|}{|2total|} = \frac{366, 2394}{1,5753} = 232, 4887 A \qquad N_{5} = \frac{420 F}{P}$$

$$Eonjugado\_Pantida = \frac{3.1 T_{2}-Pantida|^{2}. \left(\frac{Ra'}{5-Pantida}\right)}{Wh} \qquad N_{5} = \frac{120.60}{2}$$

$$N_{5} = \frac{$$

(a) Pana o momento em Vogio
$$5_{vagio} = \frac{Ns - NR}{Ns} = \frac{3600 - 3594,60}{3600} = 0,0015$$

$$I_{a-vagio} = \frac{100 \text{ NTHI}}{12 \text{ Total I}}$$

$$I_{a-vagio} = \frac{366, 2394}{325, 3330}$$

$$I_{a-vagio} = 1, 1257 \text{ A}$$

$$2 \text{ Total} = |RTH + JxTH| + \left(\frac{Ra^2}{5 - \text{vogie}}\right) + Jx^2$$

$$2 \text{ total} = (0,2634 + J0,7983) + \left(\frac{0.4876}{0,0015}\right) + 0,5865 J$$

$$2 \text{ Total} = 325,3301 + 1,3848J$$

$$2 \text{ total} = 325,3330 \perp 0,2439^{\circ} - 2$$

$$12 \text{ total} = 325,3330 - 2$$

$$2 \text{ total} = (0,2634 + 70,7983) + (0,0015) + 0,58850$$

$$2 \text{ total} = 325,3301 + 1,38487$$

$$2 \text{ total} = 325,3330 + 1,38487$$

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d) DADOS: 2TH = 0,8406 L71,7421

RTH = 0, 2634\_2 XTH = 0,7983 2

XTH = 0,7485 JL

WS = 376, 9911 nad/5

\* Pana o momento de velocidade nominal

 $S_{\text{nominal}} = \frac{n_b - n_R}{n_b} = \frac{3600 - 3456}{3600} = 0,0400$ 

Ztotal = (RTH + JxTH) + (Ra' S\_mominal) + Jxa'

Ztotal = (0, 2634 +JO, 7983) + (0,4876) +JO, 5869

2 total = 12, 4534 + J1,3848

2 total = 12,5302 (6,3451 2

12 total = 12,5302 -2

Iz-nominal = 18th = 366, 2394 = 29, 2285 A

T\_nominal = 3. |Ta\_nominal|2 (R2) 5\_nominal)

T-nominal = 3. 854, 3073. 12, 1900

T\_nominal = 82,8720 Nm

1,5.1366,

T\_max = (1) . { RTH . VATH + (XTH + X2)

$$T_{\text{máx}} = \left(\frac{1}{w_{\text{N}}}\right) \cdot \left\{\begin{array}{c} 1, 5. \left(\text{NTH}^{2}\right) \\ \text{RTH} + \sqrt{\text{RTH}^{2}} + \left(\text{XTH} + \text{X2}^{2}\right)^{2} \end{array}\right\}$$

$$T_{\text{máx}} = \left(\frac{1}{376,9911}\right) \cdot \left\{\begin{array}{c} 1, 5. \left(366, 2394\right)^{2} \\ 0, 2634 + \sqrt{0, 2634^{2}} + \left(0,7983 + 0,5865\right)^{2} \end{array}\right\}$$

$$T_{\text{máx}} = 0,0027 \cdot \left\{\begin{array}{c} 201196,9472 \\ 0,2634 + \sqrt{0,2634} + \sqrt{0,4096} \end{array}\right\}$$

$$T_{\text{máx}} = 0,0027 \cdot \left(\begin{array}{c} 201196,9472 \\ 0,2634 + \sqrt{0,4096} \end{array}\right)$$

$$T_{\text{máx}} = 0,0027 \cdot \left(\begin{array}{c} 201196,9472 \\ 0,2634 + \sqrt{0,4096} \end{array}\right)$$

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$$T_{\text{máx}} = 0,0027 \cdot \left(\begin{array}{c} 201196,9472 \\ 0,2634 + \sqrt{0,4096} \end{array}\right)$$

$$T_{\text{máx}} = 0,0027 \cdot \left(\begin{array}{c} 201196,9472 \\ 0,2634 + \sqrt{0,4096} \end{array}\right)$$

$$Z = T_{\text{max}} = \left(RTH + \frac{R\dot{a}}{S_{\text{Tmax}}}\right) + \left(J_{XTH} + J_{x\dot{a}}\right)$$

h) 
$$\frac{\text{Ip}}{\text{In}} = \frac{232,4887}{29,2285} = 7,9542$$