(1.7) cargo: 15 KVA, FP: 0.5 atrassolo.

|Sal = ? % = ? 53=?

Carga.

51= 15K VA

P, = 15K x 0.5 = 7,5 KW

Q=15Kx 1 = 12.99KVAL

d=+60° -00.5 atrosado

8 = -30° -00,866 odiontado

 $\begin{bmatrix}
Q_1' \\
Q_2'
\end{bmatrix}
Q_1 & Q_1' = P_1 \left[ t_{gd} - t_{gg} \right]$   $Q_1' = 8666 \text{ and } t_{gg}$ 01 = 8660,25 VAr

 $t_{3} = \frac{Q_{1}}{Q_{2}}$   $t_{3} = \frac{Q_{2}}{Q_{2}} + \frac{Q_{2}}{Q_{2}} = 7500 \times t_{3} = 30$  $5_3 = \frac{Q_2}{5 \text{ in}(-50)} = \frac{4330.13}{-12} = 8.66 \text{ KVA}$ 

A rubução máximo ocarrara em um sistemo puramente residiros, lago 53 = 7.5 = 0.5 de I1

(18) IL=?, P=?, Diagrama [V\_, VF, IAE] V= 220

În= În - Îca

A4Y

5pc = 11 2

2 CA = 11 2

Equivalence (11)

ZCA = 11 // j3//-j2 = 4,05 (42,51° D) TCA = 220/120° = 54.36/162,510 A IC= 105.38/-2.75° A

Zab = 2x3 + 2x1+3x1 = 11 2 Zab = 12//11//-31 = 1.968/-77.7° 2 IAA = 200/0' = 111.8/73.7° AD IA = 118/52.550 A

S=VI

5, VI

Iz= 57.73% なよ,

Redugin 42.3 %

Zbc = 11/1/-13=1.39/67.75° 2 | Îgc = 220/432° = 158.46/17225° A | Îg = 197.96/-153.4° A

SE SE KEER LESSAS & SUSSESSION DIGITALES SASKS SO

5 = In'B' . ZAB + IB'C' . ZBC + I'A' ZCA = 26408. 19/0.04° = 26.4/0° [KVA]

logo, 5= P = 26.4 [KW]

Cargo 1

Un = 127 /00 V

Ye= 1, Y8= 1, Y4= 1, Ya=0

Vmg = - Yavay + Yavan + Yorkin YA + YA + YC+ YA

NBN = 137 7-1200 N VCN = 127/1200 V

= 41.63 [-46.10°[V]

In = Van+ Van1 = 52,91/=10,89° A

VA8 = 200/300 V

I3 = 70,10/-103,90 A 1, = 87, 17 /113.410 A

VBC = 2201-90° V

VEA= 220/1500 V

