1) H zaen na Europodotenens zum muzonnich ern EMasa Edvar 230V (fièropo Europodo zufuls) um exprotupas 50 Hz.

H powring Esteman xaturalis release Educe V(t) = 325 sin (2n. 50.t) = 325 sin (100nt)

16×04 da 230= 325 (encepos april)

To nepropagathero Sianicha

Vyms = 230 L0° V

- 2) « Μια Α΄ εγματάσωση, ηχ. σε μία κατοινία, παρέχει η η εκτροδόσιση σε πολλές ηλεκτρικές συσωνές διαφορετικής ισμόσς που είναι συνδεδεμένες παράλληλα στη μονοφασική τάση τροφοδοσίας
 - · Oles or 6064ERES 6008EOVER 62 neijes zdens 230V. To fetge van y

 gden Sen engegjoran and alla gopta Gueneum zus ormas. Hetalalleran

 filmo y évracy zou perfeatus se udde 60611EUM nou zpogosoccetan
 - " H ntercepted 16x05 ELGERYERA and TON yterreported ribana. Otes of notifes Govodora napolityta new Strow 230V GZa 50 Hz GORNIGHTAS.

3)		Edfboda	Movasa Merenous	Nagasarpara Tipas
	Every Taley	Ven	Volt	Vo=2 -> Vev= Vo = 2 VZ
				Vo= 10 -> Vo = 10 Vo= 1100
	Eusopo Pruha	GV	Ampare	10=2A -> w= 2 b=2mA 10=300A-> w= 300 w= 2 mA
	Europy logs	P	Woth	P= 10W, P=300W, P= 2MW
	Nearhousin Ariserson	R	Ohm	R= 100 R= 240 R= 0,10

4)	'Accon lexus	O eshpeya	hovasa herprens	1500 , -51000, 51050€
	'Asegon Antown	XL y Xc	Ohm	5XL=50, 5Xc=31000,

- 5) 1) H Eusepera frerenières 62 Joule (1)
 - 2) H Wendering Engloser perfector GE Mypparties KMH
 - 3) To égo Sovators unaharterou 62 Joule (1)
 - 4) H ENCEDY 16x0s unabolition 60 with (W)
 - 5) H Mekzenty zday perenézan 62 Volt (V)
 - 6) H nicoy 62 N. m2= Paxal, Atm (=101300 Pascal), PS; (=6895 Pascal) ...
 - 7) H Swafer unadoptera 62 Newton (N)
- 6) 1) To Meureins 400290 presenter 62 Coulomb (C)
 - 2) To nheurques profes unodorifera 62 Ampère (A)
 - 3) H poù Meurena poprda unodoxyfera 62 10.m².

To perfor Edvar fila hopefi pois nAcuaremod reoperou neu soms quetreras 600 (2) naproprinces and Ampere

- 7) 1) To mysto outbodifferen fre L
 - 2) To muso neocologytera and row Surreleas Agaytetyras row nou perpetra 62 Henry CH)
 - 3) H Enopolini avalormen an mulou expladiform for XI her perpotent 62 Ohm (2)
 - 4) O nonverys ouposition fre =
 - Apoestopyery and my Jupyrukowa nonvocin now frespitan be forad
 - H Awpyrith andbornen zon swenning bufbertferen for Xc non freseption 62 Ohm (2)
- 8) L = 1mH = 103 H
 - (1) Y=230V, 8=50 Hz, AC

XL= 2ng. L= 2n. 50. 10-3 = 0,3140

1Sants navlo dea 2 = 0,314 690°

1= V = 230 L0° = 732,5 L-90° A

(4=900

Q= V. 1. Sin 4 = 230. 732,5 = 168,475 KVAr

\$= P+3Q = 3168.475 2900 VA (Malapa enaguerius)

PF= Cosq= 0 n= Pour = 0

$$\hat{1} = \frac{\hat{V}}{2} = \frac{230 \, \angle 9^{\circ}}{20,377 \, \angle 90^{\circ}} = 610 \, \angle -90^{\circ} \, A$$
 [$(4 = 90^{\circ})$]

$$Pf = cos \varphi = 0$$
, $N = \frac{Pouz}{Pin} = 0$

Maderial while the text and voto-con ohm
$$1 = \frac{V}{12} = \frac{230}{100} = 23A$$
 $1 = 2.3 A$

11,12) a)2=3+510 121= \[P2+Q2=10,44 \impres \frac{11}{12}\] tang= Q = 10 = 4=73,3 (Pa65pas -> 10,44 Z73,3° 60rc. 16/2005 > BF = cos 73,3 = 0,28 Estayuiginds B) 2=3-310 121= JP2+02=10,44 -> hères tang = Q = -19 = 4=-73,3 (quedpos) -> 10,44 2-73,3° 647 16x205 -> PF= COS (=73,3) = 0,28 XWPYTURES 8) 2=3 /2/=3 -> protego tame= = 0 -> 4=0° Yacopas 320° Eurz 16×105 PF= 1 Madapa 8) 310 |SI= 10 -> Franco tame = 0 = 00 = 4= 900

Gardens 10 (30° Encressos PF=0 rengador suchquistis

- 13) a) $22-60^{\circ}$ A \rightarrow Encographed

 6) 2-51 A \rightarrow Encographed

 8) 2160° A \rightarrow Xweyrund

 8) 2+51 A \rightarrow Xweyrund

 6) 2+51 A \rightarrow Xweyrund

 6) 2+51 A \rightarrow Xweyrund
- 14) a) 100VA, PF=0,6 Enoguelius
 - 1) (054=0,6 => 4=53,13 121=100 dea yabopas -> 100 < 53,13°
 - a= sme 121= 80 <u>naprédiani</u> => 60+580
 - 3) Unoped va anodynesses ou nyvia 80 Var
 - 4) QoLD = 80 PF= 0,9 => 4= 25,86° POLD = 60 Quew = tang. POLD = 0,48.60 = 28,8

Qc 80-28,8= 51,2 VAR

- 8) 100 VA , PF = 0,8 Kweyruns
 - 1) (014=98 -> 4=-36,87 (apmans Sion knownance)

(eachers -> 100 (-36,87°

2) P= Cosq. 121=80 Q= surp. 121=-60 hapteboard -> 80-360

16)
$$3 + 510 = \frac{\text{Suelyn.}}{\text{Resp.}} + \tan \varphi_1 = \tan \varphi_2$$

1,5 + 55 = $\frac{Q_1}{P_1} = \frac{Q_2}{P_2}$
 $Q_2 = \frac{3.5}{10} = 1.5$

7) 2,5 hw

230V

50 130 feles -0 60 wees 600 Acred

960

1 hwh -> 0,08 €

.. Cost= 2,5.60.0,08=30€