Moteur: 230/400V // P=4kW // cosPhi = 0.8 // rend = 0.9

$$N = \frac{C}{P_0}$$

$$P_{a} = \frac{P_{o}}{\eta}$$

$$UI \cos P \cdot V3 = \frac{P_{o}}{\eta}$$

$$I = \frac{P_{o}}{\eta \cdot V \cos P \cdot V}$$

$$= 8,02 \text{ A}$$

Fusible -> courbe aM -> D gG -> C aM : primaire transfo -> absorbe courant de départ dus au champ magnétique gG : secondaire transfo

Ici : il faudra un aM

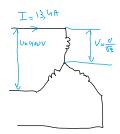
$$M = \frac{P_{v}}{P_{a}}$$

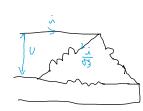
$$P_{a} = \frac{P_{v}}{\eta}$$

$$P_{a} = \sqrt{3} \text{ U I } \cos \theta$$

$$I = \frac{P_{v}}{\sqrt{3} \text{ U } \cos \theta}$$

$$= 13, 84$$





En Etoile, le courant nominal est égal au courant traversé par les enrouleurs En triangle, il y a un facteur 1/rac(3)

Transformateu

$$S = 2 \text{ kVA}$$

$$V_1 = 230V \qquad -5 \text{ } V_2 = 23V$$

$$N = 1/10$$

$$V_1 \cdot N = V_2$$

$$R_E = SOQ \longrightarrow I_1 = I_2 \cdot N = 0,046A$$

$$I_2 = \frac{V_2}{K} = 0,46A \text{ } J$$

$$U = RI$$

$$I_1 = I_2 \cdot N$$

Icmax = 86,9A

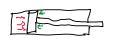
Pneumatique

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Vérin

$$\varphi_{\text{tige}} = 20 \,\text{mm}$$
 $S_{\text{P}} = 7.9^{2}$
 $S_{\text{C}} = 7.5^{2}$
 $S_{\text{C}} = 7.5$

Frentner = P.S = 08,9 daN



Hydraulique

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Vérin :

$$Q = 20 \cdot 1.00 \cdot 1.00$$

Mécanique

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C = 20 Nm $W = 100 \text{ m.m.s}^{-1} = 10,5 \text{ rad.s}^{-1}$ P = 210 M

1h= 2TT nad

P= /c. W

F = SOO N Q = 60 h / min $= 6,28 \text{ nad.s}^{-1}$ $C = \frac{9 \text{ nove}}{2} \cdot F$ = 200 N.m = 1256 h / min

 $C_{1} = 50 \text{ Nm}$ 2 noves dom'tess $L_{5} D_{1} = 0, \text{ em}$ $D_{2} = 0, \text{ Sm}$ = 125 Nm $C_{1} = 120 \text{ k. min}$ = 12, Sc nod. s $C_{1} \omega_{1} = C_{2} \omega_{2}$ $\omega_{2} = \frac{C_{1} \omega_{1}}{C_{2}}$ $\omega_{3} = \frac{C_{1} \omega_{2}}{C_{3}}$ $\omega_{4} = \frac{C_{1} \omega_{1}}{C_{2}}$ $\omega_{5} = \frac{C_{1} \omega_{1}}{C_{2}}$ $\omega_{6} = \frac{C_{1} \omega_{1}}{C_{2}}$ $\omega_{7} = 68.8 \text{ M}$