

$$P(kW) = S(kVA) \times \cos\phi$$

$$1280(kW) = 1600(kVA) \times 0,8$$

| | Polarité: Triphasé Puissance: 1000 kW | Régime du neutre: ITSN Tension: 400 V | Delta U max: 8 % Th: 15 % < TH < 33 % Ib: 1804,22 A | Correct Cos: 0.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|----------------------------|----|---------|---------------------------|--|--------------------------|----------|--------------|--|-------------|--------|--------------|--|------------|----|---------|--|---------|-----|---------|--|---------|------|----|--|----|--|-------|--|---------|--|--|--|--|
| | TR1 | Correct | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Fréquence: 50 Hz Puissance: 1600 kVA Courant d'emploi: 2309 A Tension: 400 V Ucc: 6.00 % | PCA: 250 MVA | Ik3 max: 34.73 kA Ik2 max: 30.08 kA Ik1 max: 35.86 kA If: 32.44 kA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | C1 | Correct | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Type: Monoconducteurs jointifs Longueur: 7 m Mode de pose: 13 Pose symétrique: Oui Groupement: Nbr cable/couche : 4 Nbr couche : 1 | Température: 25 °C Tolérance: 0 % Présence LES/LEL: Non | Tension sécurité: 50 V Coeff client: 1.00 Risque BE3: Non Risque BE2: Non Coeff déclass: 0.80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Section</th> <th>Phase</th> <th>Neutre</th> <th>Pe</th> </tr> </thead> <tbody> <tr> <td>Smin Cu</td> <td>4*300 mm2 Cuivre PRC 90°C</td> <td></td> <td>1*95 mm2 Cuivre PRC 90°C</td> </tr> <tr> <td>Smin Alu</td> <td>4*240.11 mm2</td> <td></td> <td>1*82.44 mm2</td> </tr> <tr> <td>C. th.</td> <td>4*387.70 mm2</td> <td></td> <td>125.08 mm2</td> </tr> <tr> <td>Tf</td> <td>1.526 s</td> <td></td> <td>0.522 s</td> </tr> <tr> <td>I2t</td> <td>0.080 s</td> <td></td> <td>0.080 s</td> </tr> <tr> <td>K2S2</td> <td>97</td> <td></td> <td>43</td> </tr> <tr> <td></td> <td>29447</td> <td></td> <td>279.558</td> </tr> </tbody> </table> | Section | Phase | Neutre | Pe | Smin Cu | 4*300 mm2 Cuivre PRC 90°C | | 1*95 mm2 Cuivre PRC 90°C | Smin Alu | 4*240.11 mm2 | | 1*82.44 mm2 | C. th. | 4*387.70 mm2 | | 125.08 mm2 | Tf | 1.526 s | | 0.522 s | I2t | 0.080 s | | 0.080 s | K2S2 | 97 | | 43 | | 29447 | | 279.558 | | | | |
| | Section | Phase | Neutre | Pe | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Smin Cu | 4*300 mm2 Cuivre PRC 90°C | | 1*95 mm2 Cuivre PRC 90°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Smin Alu | 4*240.11 mm2 | | 1*82.44 mm2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Tf | 1.526 s | | 0.522 s | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Ik3 max: 33.89 kA Ik2 max: 29.35 kA Ik1 max: If: 23.13 kA | Imag Ph/Ph: 22101 A Imag Ph/N: Imag Ph/Pe: 22418 A Critère: Surcharge | Delta U: 0.16 % Delta U totale: 0.16 % Zpe: 1.86 mOhms | TL: 5.00 s Uc: 42.94 V Iz: 2219.02 A L max: 67 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q01 | Correct | Masterpact NW40 H1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dispositif: D.I.G. Charge du neutre: 0.0 Calibre: DDR: Non Type: Seuil: Temps de fonctionnement: | I thermique: 1920 A I magnétique: 7680 A Temps de fonctionnement: 0.08 s I instantané: Off Temps de l'instantané: 0.05 s Pouvoir de coupure: 65 kA En filiation avec: PdC IT: 65 kA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TGBT | Correct | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ik3 max: 33.89 kA Ik2 max: 29.35 kA Ik1 max: If: 23.13 kA | | Delta U totale: 0.16 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Sous dimensionné par rapport au In du transformateur

Je ne comprends pas pourquoi installer un transformateur de 1600kVA et ne l'utiliser qu'à 80% et surtout ne pas dimensionner la canalisation principale pour 100% ! Ceci vous pénalise pour les extensions futures.

Bien sur ce n'est pas interdit mais à mon avis anti économique. Les conséquences peuvent être lourdes !