



Fig. B118: Selectivitatea între fuzibile de MT și declanșarea întreruptorului JT, pentru protecția transformatorului.



Fig. B119: Configurație cu fuzibil pe MT și întreruptor automat pe JT.

Aceste curbe tipice sunt arătate în **Figura B118**.

■ Pentru a obține selectivitatea:  
Curba siguranței fuzibile de MT trebuie să fie deasupra și în dreapta curbei întreruptorului JT.

■ Pentru a nu fi afectate siguranțele fuzibile (adică nedeteriorate):  
Toate părțile curbei de pre-arc a siguranței fuzibile trebuie să fie situate în dreapta curbei întreruptorului printr-un factor de 1,35 sau mai mult (de exemplu în cazul în care, la momentul T, curba întreruptorului trece printr-un punct corespunzător valorii de 100 A, curba fuzibilului la același moment de timp T trebuie să treacă printr-un punct corespunzând la 135 A sau mai mult) și toate segmentele curbei siguranței fuzibile trebuie să fie deasupra curbei întreruptorului printr-un factor de 2 sau mai mult (de exemplu unde la o valoare a curentului I curba întreruptorului trece printr-un punct corespunzând la 1,5 sec., curba fuzibilului, la aceeași valoare a curentului I trebuie să treacă printr-un punct corespunzând la 3 sec. sau mai mult etc.). Factorii 1,35 și 2 sunt bazați pe toleranțe maxime standard de fabricație pentru siguranțele fuzibile MT și întreruptoare de joasă tensiune.  
Pentru a putea compara cele două curbe, curenții de MT trebuie să fie raportați în curenți de JT echivalenți, sau invers.

Când pe JT se utilizează combinația separator de sarcină cu fuzibile, trebuie respectate condiții similare de separare între caracteristicile de MT și JT ale fuzibilelor.

■ Pentru a nu declanșa întreruptorul MT:

Toate părțile curbei de pre-arc a siguranței fuzibile trebuie să fie situate în dreapta curbei întreruptorului printr-un factor de 1,35 sau mai mult (de exemplu în cazul în care, la momentul T, curba întreruptorului JT trece printr-un punct corespunzător valorii de 100 A, curba întreruptorului MT la același moment de timp T trebuie să treacă printr-un punct corespunzând la 135 A sau mai mult) și toate segmentele întreruptorului MT trebuie să fie deasupra curbei întreruptorului JT (timpul întreruptorului JT trebuie să fie sub timpul întreruptorului MT cu 0,3 sec.). Factorii 1,35 și 0,3 sunt bazați pe toleranțe maxime standard de fabricație pentru transformatoarele de curent, relele de protecție și întreruptoarele de JT.  
Pentru a putea compara cele două curbe, curenții de MT trebuie să fie raportați în curenți de JT echivalenți, sau invers.

Unde este utilizat un întreruptor cu siguranțe fuzibile de JT, o separare similară a curbelor caracteristice ale siguranțelor de MT și JT trebuie să fie respectată.

## Alegerea dispozitivelor de protecție pe partea primară a transformatorului

Așa cum s-a explicat mai sus, pentru un curent de referință mic protecția poate fi realizată cu fuzibili sau cu întreruptor. Atunci când curentul de referință este mare atunci protecția va fi realizată cu întreruptor automat. Protecția prin întreruptor automat pentru transformator este mai sensibilă în comparație cu fuzibilele. Implementarea ulterioară a unor protecții adiționale (punere la pământ, suprasarcină termică, etc.) este mai ușoară cu întreruptor automat.

## 3.3 Interblocaje și operații condiționate

Aparatele de comutație instalate în posturi de transformare sunt prevăzute cu interblocaje mecanice și electrice care sunt incluse în structura mecanismului și a circuitelor de comandă. Acestea constituie o măsură de protecție împotriva unor secvențe de manevră incorecte, executate de personalul de exploatare. Protecția mecanică între funcții localizate pe echipamente diferite (exemplu celula și transformator) este furnizată de un interblocaj prin cheie. O schemă de interblocaj este creată pentru a preveni orice manevră incorectă. Manevra incorectă poate expune personalul de exploatare unor pericole sau pot provoca incidente electrice.

### Interblocaje de bază

Funcțiile de interblocaj esențiale pot fi introduse într-o unitate funcțională dată; o parte din aceste funcții sunt obligatorii conform CEE 62271-200, iar altele sunt opționale pentru utilizator.

De exemplu, accesul într-un tablou de MT implică un anumit număr de operații care trebuie efectuate într-o ordine predeterminată. Pentru a readuce sistemul la situația inițială trebuie efectuat același număr de operații, în sens invers. Fie procedura adecvată, fie interblocajele dedicate pot asigura desfășurarea operațiilor în secvența corectă. Apoi acest tablou va fi clasificat "accesibil prin interblocaje" sau "accesibil prin procedură". Chiar și pentru utilizatori cu pregătire corectă și riguroasă, utilizarea interblocajelor poate furniza un ajutor pentru siguranța operatorilor.

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