



Relay Setting Calculation

Relay Setting Details:

I> 0.85x In, NI, TMS-0.3
I>> 3x In, 0.2 Sec
U> 120%, 2 Sec
U< 85%, 3 Sec
CTR=800/1A, PTR= 11kV/110 V.

I>
Pick up Current= $0.85 \times 1 = 0.85A$
2X Time Current= 1.7 A, 3.009 Sec
5X Time Current= 4.25A, 1.284 Sec
I>>
Pick up Current= $3 \times 1 = 3A$, 0.21 Sec
U>
 $120\% = 110 \times 120\% = \frac{110 \times 120}{100} = 132 V$
U<
 $85\% = 110 \times 85\% = \frac{110 \times 85}{100} = 93.5 V$



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