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### **Current Transformer Concepts Sel Home**

Current Transformer Concepts S. E. Zocholl Schweitzer  
Engineering Laboratories, Inc. D. W. Smaha Southern Company  
Services, Inc. Presented at the Electric Council of New England  
Protective Relaying Committee Meeting No. 60 Rutland, Vermont  
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In an ideal transformer (ignoring any losses), the power available in the secondary winding will be the same as the power in the primary winding, they are constant wattage devices and do not change the power only the voltage to current ratio. Thus, in an ideal transformer the Power Ratio is equal to one (unity) as the voltage, V multiplied by ...

## **Transformer Basics and Transformer Principles**

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Figure 5 - Parallel incoming transformer feeders with bus tie protection scheme. Go back to contents ↑ 6. Three-winding transformer. The zero-sequence current must be blocked before entering the differential relay with a delta winding in the CT connection on the transformer side with earthed star-point.

### **8 typical transformer protection schemes with correctly**

...

Current transformers (CTs) are used throughout the world as current transducers for protective relays in industrial, commercial, and utility applications. Standard ratings and

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application guides deal with the steady-state sine wave behavior of current transformers.

## **Analyzing and Applying Current Transformers: Stanley E**

...

Transformer Differential Protection Scheme works by using two separate quantities calculated from the primary current ( $I_{W1C}$ ) and secondary current ( $I_{W2C}$ ). SEL787 and SEL 387/587 Transformer differential relay is used for this discussion. Other similar relays use similar concepts through the actual terminology could be different.

## **Transformer Differential Protection - Voltage Disturbance**

25/33MVA 69/23kV Delta-Wye Transformer on SEL-387A Relay  
Figure 1. Transformer Vector Group and CT to Relay Connection.  
We will start the transformer differential protection calculation with the identification of the transformer vector group. For this

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example, we have a 25/33MVA 69/23kV Delta-Wye Transformer with vector group, Dyn1.

## **Basic Transformer Differential Protection Calculation ...**

As dry transformer is a static device with no moving parts, it has a trouble free life under normal operating conditions. There are multiple insulation classes such as Class A (105°C), Class B (130°C), Class F (155°C), Class H (180°C ) and Class R (220°C) and the proper one should be selected according to the needs and design for reliable transformer operation and life.

## **What is the Average Life Expectancy of a Transformer**

Figure 1 shows a simple differential protection scheme, also known as a Merz-Price scheme.. In this simple scheme, we can assume that under normal operating conditions, the current entering into the piece of equipment under protection is equal (or in the case of a transformer, proportional) to its exiting



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current. In this example we will assume that the entry and exit currents are equal.

### **The principles of differential protection you MUST ...**

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CT or current transformer burden: CT burden is an impedance of secondary circuit expressed in ohms and power factor. This power factor is not the power factor of secondary load. CT Burden can be expressed in two terms- as example. 5 ohm impedance; 10 VA at 5A. (British method)- here 5A is rated secondary current and 2V across secondary. Knee ...

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### **CT burden, Knee point voltage, core saturation- Details of**

...

CR Magnetics supplies an extensive line of toroid current transformers for any need. Our offerings include measuring from 10,000 amps to a few milliamps. This includes ANSI, Commercial, Ground Fault, High Frequency, Wound Primary, DC Immune and Nano Alloy current transformers.

### **AC Current Transformers - CR Magnetics**

As discussed in the post "Transformer Differential Protection", differential protection is supposed to operate for the internal faults or for the zone of protection it is intended for. Differential protection is not supposed to operate for a through fault. Through fault means a fault outside the zone of protection. Thus as discussed in earlier post, ... Read more Percentage Differential ...

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## **Percentage Differential Protection - Slope in Differential**

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