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2023-07-28

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few points on transformer design and review some nomenclature that will be used in the paper. Since this paper is aimed at describing transformers that use phase shifts and winding designs that are more commonly found outside the US market, the phase and bushing names of U, V, Three Phase Transformer Winding Configurations and ...3. Current transformer saturation. The effect of CT saturation on transformer differential protection is double-edged. Although, the percentage restraint reduce the effect of the unbalanced differential current, in the case of an external faults, the resulting differential current which may be of very high magnitude can lead to a relay male ...

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

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Current transformers (CTs) are used throughout the world as current transducers for protective relays in industrial, commercial, and utility applications. Standard ratings and application guides deal with the steady-state sine wave behavior of current transformers.

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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.

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