Introduction to instrument-transformers

Newnes - Current Transformers Types, Characteristics, Standards and Compliance



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Applications of a Current Transformer The two main application areas of Current Transformers are current measurement and protection.

MI

Whenever an Alternating Current flows through the primary winding, alternating magnetic flux is produced, which then induces a proportional Alternating Current in the secondary winding. The most common usage of instrument transformers is to operate instruments or metering from high voltage or high current circuits, safely isolating secondary control circuity from the high voltages or currents. Protection ITs require linearity as a wide range of voltages and currents.

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MI

The primary current is controlled by an independent external load and the secondary current has ratings of 1A or 5A which are conducive to measuring instruments. The corresponding current primary ratings vary from 10A to 3000A or more.

An introduction to transformers

All current transformers used in electrical circuits are basically similar in principle in that they all consist of magnetically coupled primary and secondary windings, wound on a common iron core. Measurement of energy is the main requirement from the commercial point of sale and purchase of electrical energy between the producer and the consumer of electricity.

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