

A REVIEW STUDY ON TRADITIONAL AND ADVANCED PROTECTION SCHEMES OF POWER TRANSFORMER

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DOI: 10.5958/2249-7137.2021.02555.6

ABSTRACT

Power transformers play a critical function in providing a stable power supply to energy users in a power system network. This article provides the idea of many kinds of transformer protection, which will be more useful in analyzing the transformer's protective system. The goal of this paper is to bring together recent advances in transformer protection. To that aim, efforts have been made to cover all of the methods and ideas utilized. The article discusses both the most current and classic transformer methods. Many essential components are placed in the transformer, and they are extremely expensive, therefore they must be safe in an abnormal state. Transformers play a vital role in the power system, changing voltage and current levels, thus adequate transformer protection is critical for system dependability. In most cases, a well-designed transformer protection system will last a long time even if the power supply is stopped. Reduces stress on the transformer is the only way to improve life, efficiency, and overall performance, therefore this protective system helps in correctly observing those things.

KEYWORDS: *Fault statistics, Fuzzy, Over current protection, Power Transformer, Relay.*

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