

Relay protection overcurrent direction element



Overview

As normal overcurrent relays cannot provide this function, a directional unit is added to activate the relay when the fault current flow is in a predetermined direction. Directional protection enables better discrimination of the faulty part of the network than with overcurrent. Abstract: Directional overcurrent protection IEEE device (67) refers to protection functions that utilize some angular relationship component of current or current and voltage to determine relay directionality. Although directional relays have been applied successfully for many years, several new and unique applications and why directional element designs have progressed. The paper also describes how directional element, and form quadrilateral distance. While 50 and 51 (instantaneous and time overcurrent) relay functions monitor line current magnitude and guard against excesses, there are applications where the direction of line current is just as relevant as the magnitude. There are a variety of concepts by which this task is done.



Article Content

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Such relays are called as directional overcurrent relays. They are used in distribution system or subtransmission system where "ring main" configuration is used to provide more reliability of service.

Module 5 : Directional Overcurrent Protection

Relays with this principle are called directional relays. For example, overcurrent relays can be made directional by adding above discrimination logic to well known overcurrent logic. Such relays are

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