

# What are the setting values for relay protection



Network Cabinet & Rack

## Overview

Understanding each setting facilitates proper relay coordination. PSM – Plug Setting Multiplier (Current Setting Multiplier) What is PSM?

2). EL – Earth Leakage Setting / Earth Fault. Protection relays employ a wide range of configurable parameters to identify defects & trip the breaker in a controlled & selected manner. TSM – Time. Use this Protection Relay Setting Calculator to calculate pickup current, time multiplier settings (TMS), operating time, coordination time interval (CTI), and plug setting multiplier (PSM) using fault current, CT ratio, and IEC 60255 curve parameters. The power system consists of generators, transformers, transmission lines, and other equipment whose costs is in millions of dollars. All calculations are based on the available documentation/ information. They should not be installed purely as a means of protecting systems against overloads.

## Article Content

### Relay Coordination Study: Selectivity Calculations | EEP

The relay setting table includes the specifications of the relays (manufacturer, type, setting range), the ratios of measurement transformers (current or voltage), and the setting values for ...

### Relay Settings Calculations - Electrical Engineering

This technical report refers to the electrical protection of all 132kV switchgear. These settings may be re-evaluated during the commissioning, according to actual and ...

### Relay Protection Settings (PSM, TSM, EL, OL, MF)

Protection relays employ a wide range of configurable parameters to identify defects & trip the breaker in a controlled & selected manner. Understanding each setting facilitates proper relay ...

### Zone Protection setting of Transmission Line

Generally zones Z1, Z2, Z3 are taken as forward direction and Z4 is taken as reverse direction with time settings as T1, T2, T3 and T4 respectively.

### FEEDER PROTECTION CALCULATIONS & SETTINGS

Relay coordination is the process of selecting settings that will assure that the relays will operate in a reliable and selective way. In OC relays the coordination is based on the relay time-current ...

### Distribution Automation Handbook

When the protection is implemented using a current relay, the current value at which the relay should operate must be determined first. By means of the stabilizing voltage and the current setting, the ...

### Protection Relay Setting Interactive Calculator | FIRGELLI

Use this Protection Relay Setting Calculator to calculate pickup current, time multiplier settings (TMS), operating time, coordination time interval (CTI), and plug setting multiplier (PSM) ...

### Relay Protection in HV/MV Substations: Calculations, Settings ...

Relay protection calculations determine the threshold values and parameters for the protective relays based on the substation's operational and design requirements.

### Keep on Running—Select Motor Relay Settings to Balance ...

In this paper, we discuss the need to maximize motor usage and illustrate steps needed to set the trip and reset settings for motor thermal protection. The time to reset after a normal stop, overload, or trip ...

## Relay Settings Calculations

To avoid relay mal-operation, set Slope 2 as high as possible. Normally, a high Slope 2 setting causes slow tripping for evolving faults (external-to-internal faults).

## Relay Setting in Real Power System

To configure protective devices such as making a relay setting, having all the consideration of the fault severity and decision-making time, it is important to know parameters, ...

## Relay Setting Calculation Overview | PDF | Volt | Relay

The calculations are performed to determine appropriate relay settings that ensure protection and coordination within the power system network.

## Contact Us

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