

# Calculation of setting values for three-stage relay protection

The reach of the current-graded protection in relation to the total length or impedance of the protected feeder depends on both the SIR-value and the ICS -setting of the current-graded stage.

There are several approaches for making relay setting calculations. One approach is to calculate a setting and then do a number of checks to verify that the calculated setting is acceptable.

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The settings of the instantaneous elements, and the TAP and DIAL settings of the relays to guarantee a coordinated protection arrangement, allowing a discrimination margin of 0.4 seconds

The proposal itself and define the different protection zones should be based on impedance lines to be determined by the calculation referred to in the previous section of this article.

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).

Threestage overcurrent protection (I, II, III) ensures selective, fast, and reliable fault clearance in power systems. This guide explains its necessity, coordination logic, and stepbystep ...

This sequel to the original "Beyond the Cookbook" paper continues to discuss the challenges encountered when creating line relay setting calculations and how to apply practical solutions outside ...

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Plug Setting Multiplier (PSM): The ratio of the fault current to the relay's pickup current, critical for relay operation. Time Setting Multiplier (TSM): Adjusts the relay's operating time by setting ...

The document outlines the steps for performing setting calculations, including determining required technical data, protection schemes, relay functions, and submitting calculations for approval.

Follow the steps to input numbers and symbols and perform calculations with operator buttons. Examples show you how to do simple math as well as how to do percentages on a ...

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