

S1-12 “Study of Detection Method for Instantaneous Voltage Drop”

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Abstract

This presentation deals with a new detection method based on three-phase vector operation for instantaneous voltage drop. The detection method is applicable to the protection systems using a high speed circuit breaker which protect distributed resources and critical loads in customer's facilities. First the algorithm and merits of this method are explained. Secondary the detection characteristics, which are analyzed using ATP and are confirmed using a real time digital simulator, show that the method is useful.