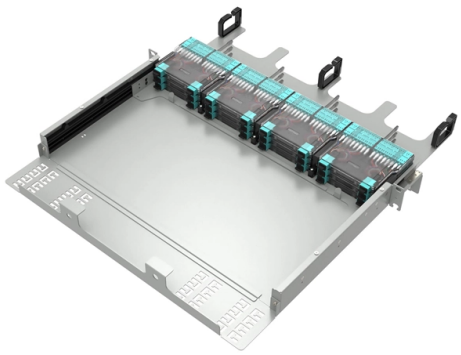
ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Detection of 10kV busbar grounding



Overview

The invention discloses a 10kV bus short circuit grounding fault detection method, medium and system, the bus is used for power utilization of a direct current converter station, the detection method comprises the following steps: obtaining the minimum value of the. The invention discloses a 10kV bus short circuit grounding fault detection method, medium and system, the bus is used for power utilization of a direct current converter station, the detection method comprises the following steps: obtaining the minimum value of the. of the currents and voltages and the negative-sequence current component. The proposed scheme successfully detects single-phase-to-ground busbar faults by using the standard settings of the wide y available overcurrent IEDs, and an IEC 61850 communication between them. Firstly, the detection of. The traditional 10 kV distribution network grounding system has some disadvantages, such as small grounding current and poor arc extinguishing effect, thus, hindering the detection of high-resistance grounding fault. Prolonged operation can damage the VT. Additionally, ferroresonant overvoltages (several times normal voltage) may occur, breaking down insulation and causing major. The induced voltage of the 500 kV busbar of Shibei Station was simulated by ATP-EMTP software, and compared with the measured value to verify that the model is suitable for actual engineering.



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Article Content

Fault diagnosis of grounding system of high voltage cable circuits ...

Existing fault diagnosis methods for the grounding system heavily rely on theoretical models and neglect the shared grounding points of multiple cable circuits, resulting in unsatisfactory

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