

Title (en)

Arrangement, substation, operating method and use of a grounding switch for protecting an electrical circuit against short-line faults

Title (de)

Anordnung, Unterstation, Betriebsverfahren und Verwendung von einem Erdungsschalter zum Schutz einer elektrischen Schaltung gegen Kurzleitungsfehler

Title (fr)

Agencement, sous-station, procédé de fonctionnement et utilisation d'un commutateur de mise à la terre pour la protection d'un circuit électrique contre des défauts de court-circuit en ligne

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Application

EP 09159681 A 20090507

Priority

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Abstract (en)

The invention relates to an arrangement (1) for protecting an electrical circuit from damage caused by a short-line fault, comprising a circuit breaker (2) that connects a generator or busbar (4) with a line (5), wherein a grounding switch (3) is provided that connects the line (5) to ground. The invention further relates to a method for operating such an arrangement that comprises the steps of initially setting the circuit breaker (2) into a closed state and the grounding switch (3) into an open state, and upon detection of a short-line fault opening of the circuit breaker (2) and closing of the grounding switch (3). The invention still further relates to the use of a grounding switch (3) together with a circuit breaker (2) to protect an electrical circuit from damage caused by a short-line fault by suppressing transient recovery voltages.

IPC 8 full level

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