

Title (en)

METHOD FOR DETERMINING AN EARTH-FAULTED BRANCH

Title (de)

VERFAHREN ZUR BESTIMMUNG DES ERDSCHLUSSBEHAFTETEN ABZWEIGES

Title (fr)

PROCEDE DE DETERMINATION D'UN BRANCHEMENT PRESENTANT UNE PERTE A LA TERRE

Publication

**EP 1131642 A1 20010912 (DE)**

Application

**EP 99963307 A 19991117**

Priority

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Abstract (en)

[origin: WO0031554A1] The invention relates to a method and a device for determining an earth-faulted branch in an extinguished power supply network. Said method consists of the following steps: a) selection of physical measuring quantities and measurement of said quantities; b) determination, for each branch, of a degree of agreement corresponding to the presence of an earth fault from selected measured quantities and a conduction model, using a first evaluation method; c) determination, for each branch, of a degree of agreement corresponding to the presence of an earth fault from selected measured quantities and a conduction model, using at least one second evaluation method which differs from the first method at least as regards the measured quantities evaluated and/or the conduction model and/or evaluation; d) linkage by a logic operation of the degrees of agreement determined by the first and second method so that a overall degree of agreement is obtained for each branch; e) indication of an earth fault for a branch if the overall degree of agreement for this branch exceeds a defined value. The method and device provided for in the invention permit the highly reliable detection and indication of especially short as well as particularly high-ohmic earth faults.

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