

Title (en)
SHORT-CIRCUITING DEVICE FOR USE IN LOW-VOLTAGE AND MEDIUM-VOLTAGE SYSTEMS FOR THE PROTECTION OF PARTS AND PERSONNEL

Title (de)
KURZSCHLIEßEINRICHTUNG FÜR DEN EINSATZ IN NIEDER- UND MITTELSPANNUNGSANLAGEN ZUM SACH- UND PERSONENSCHUTZ

Title (fr)
DISPOSITIF DE MISE EN COURT-CIRCUIT DESTINE A ETRE UTILISE DANS DES INSTALLATIONS BASSE ET MOYENNE TENSION POUR LA PROTECTION DES BIENS ET DES PERSONNES

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Application
EP 06777558 A 20060704

Priority

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Abstract (en)
[origin: EP2051275A1] Device has a switching element (9) actuated by the tripping signal of a fault detection device, two mutually opposite contact electrodes (2,6), and a sacrificial element (5) acting as spacer between contact electrodes. Electrical connection is provided between sacrificial element and switching element and between the sacrificial element and one contact electrode to bring about thermal destruction of the sacrificial element in a targeted manner owing to current flow. The sacrificial element may be provided in the form of a thin-walled hollow cylinder made of high-melting metallic material. The sacrificial element may also be provided in the form of a wire or rod made of conductive material having low melting integral. The sacrificial element in wire or rod form is under mechanical prestress under tension in contrast to the sacrificial element in hollow cylinder form. Contact can be made with the contact electrodes at a circuit having connections of different potentials. The contact electrodes, under mechanical prestress, perform relative movement in relation to one another in the event of a short-circuit assisted by spring force. A further part is provided to move with respect to the contact electrodes for short-circuiting the contact electrodes. An independent claim is included for the short-circuiting method using the short-circuiting device.

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