

Title (en)

CIRCUIT ARRANGEMENTS FOR DISCHARGING CAPACITORS BY MEANS OF A RELAY

Publication

EP 0090336 B1 19890125 (DE)

Application

EP 83102853 A 19830322

Priority

DE 3211549 A 19820329

Abstract (en)

[origin: EP0090336A2] 1. Circuit arrangement for discharging capacitances by means of a relay, a reactor (33) and a resistor (11) being arranged in series with a contact (a) of the relay (A) and an RC series circuit (15, 23) being provided in parallel with the contact (a), in particular for the automatic closing of an interrupted power feeding loop before the point of interruption in the operationally provided power feeding loop of a power feeding facility, in which arrangement the reactor (33) exhibits a core of saturable magnetic material, characterized in that the inductance of the unsaturated reactor (33) is of such a magnitude and the RC series circuit (15, 23) is dimensioned in such a manner that an arc produced at the contact (a) when the contact (a) closes is extinguished after the winding capacitance of the reactor (33) has been charged and the capacitor (23) of the RC series circuit (15, 23) has been discharged, and that the capacitor (23) is dimensioned of sufficient size for the voltage produced across the RC series circuit (15, 23) after the extinction of the arc to remain below the minimum value of the flashover voltage of the contact (a) during the closing process of the contact (a), in which arrangement the voltage/time area produced up to the saturation of the reactor (33) is of such a size that the saturation occurs only after the closing of the contact (a).

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IPC 8 full level

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CPC (source: EP)

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Citation (examination)

SIEMENS ZEITSCHRIFT 48 (1974), Beiheft "Nachrichten-Übertragungstechnik", p. 111

Cited by

US5541317A; CN103326905A

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