

Title (en)

METHOD AND DEVICE FOR OPERATING A CIRCUIT BREAKER

Title (de)

VERFAHREN UND VORRICHTUNG ZUM BETRIEB EINES LEISTUNGSSCHALTERS

Title (fr)

PROCEDE ET DISPOSITIF POUR FAIRE FONCTIONNER UN DISJONCTEUR

Publication

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Application

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Abstract (en)

[origin: DE19806345A1] The invention relates to a method and a device for operating a circuit breaker (1) with instantaneous release during short circuit and which can be used in the protection of electrical installations. The basic principle of the invention is that the induced current caused by mechanical vibrations in the coil by the electromagnets (6, 14, 20) available in the circuit breaker (1) during closing of the circuit breaker contacts (17,18) is detected and evaluated. The detected decaying pulse-shaped alternating current is transformed into decaying direct current by an integrator circuit and evaluated by a microcontroller in an analog/digital converter channel. When the trigger is activated by the power flow injected into the circuit breaker (1) and immediately after a short-circuit current is detected, the trigger can be immediately reactivated in the presence of an induced current or a direct current signal derived from said current or can bring about a new triggering at a given delay without the existence of induced current or direct current signals.

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