

Title (en)

Branch circuit breaker with an electronic trip device and remotely controlled calibration.

Title (de)

Abzwegschalter mit einem elektronischen Auslöser und einer ferngesteuerten Einstellung.

Title (fr)

Disjoncteur de branchement à déclencheur électronique et à télécalibrage.

Publication

EP 0105786 A1 19840418 (FR)

Application

EP 83401856 A 19830923

Priority

FR 8216712 A 19820930

Abstract (en)

1. Multi-size branch circuit breaker, inserted downstreams of an energy counter (11) in an alternating distribution network for the supply of an electrical low-voltage installation of a consumer, the size changing of the circuit breaker being remotely controlled by the technical agent by means of a remote control circuit (34) arranged in the housing of the counter, said circuit breaker comprising : a mechanism for manual operating (18, 20) and for automatic tripping when a fault occurs, controlled by a trip relay (22), an intensity sensor (28) to detect the current flowing in each phase conductor (R, S, T) of the network, an electronic assembly for processing the signal emitted by the sensor (28) in order to deliver a tripping order to the relay (22) when said current exceeds a predetermined function, and adjusting means of said signal, comprising a voltage divider resistive bridge (32) arranged between the sensor (28) and the electronic assembly ; the resistive bridge (32) of the circuit breaker being constituted by a series resistance (R9) and a shunt resistance, and the remote control circuit (34) comprising a size switch (CM1) connected electrically with the resistive bridge (32) by a link circuit (40, 42) able to generate the variation of the shunt resistance by operating the size switch (CM1).

Abstract (fr)

L'invention concerne un disjoncteur de branchement à déclencheur électronique dont le changement de calibre est piloté depuis le coffret du compteur (11) par un circuit de télécommande (34). Le pont résistif (32) du disjoncteur est formé par une résistance série (R9) et une résistance shunt variable selon la position d'un commutateur de calibre logé dans le circuit de télécommande (34) et relié au disjoncteur par un circuit de liaison à deux conducteurs (40, 42). Application: Télécalibrage d'un disjoncteur de branchement.

IPC 1-7

H01H 71/74

IPC 8 full level

H01H 71/74 (2006.01)

CPC (source: EP)

H01H 71/74 (2013.01)

Citation (search report)

- US 3538391 A 19701103 - BENSLEY JOHN T, et al
- CH 393497 A 19650615 - SIEMENS AG [DE]
- EP 0079270 A1 19830518 - MERLIN GERIN [FR]
- EP 0079271 A1 19830518 - MERLIN GERIN [FR]

Cited by

US7129688B2; WO03056350A1

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EP 0105786 A1 19840418; EP 0105786 B1 19860416; DE 3363082 D1 19860522; ES 526035 A0 19840616; ES 8405193 A1 19840616; FR 2534063 A1 19840406; FR 2534063 B1 19841123; PT 77372 A 19831001; PT 77372 B 19870109

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EP 83401856 A 19830923; DE 3363082 T 19830923; ES 526035 A 19830928; FR 8216712 A 19820930; PT 7737283 A 19830922