

Title (en)

Push button operated overload circuit breaker.

Title (de)

Druckknopfbetätigter Ueberstromschutzschalter.

Title (fr)

Dispositif de protection à courant excessif commandé par un bouton-poussoir.

Publication

**EP 0391086 B1 19951018 (DE)**

Application

**EP 90104430 A 19900308**

Priority

DE 8904063 U 19890403

Abstract (en)

[origin: EP0391086A1] The invention relates to a push-button operated overload circuit breaker, especially an on-board network circuit breaker with a manual trip mechanism and a bimetallically controlled free-trip mechanism with a breaker mechanism (7), which can be operated by the push-button (41), and a bimetallic trip mechanism device, for releasing the breaker mechanism (7), which has a bimetallic strip (101) which is self-heated, is designed as an approximately U-shaped stamped part and is connected, via the circuit breaker, electrically in series in the current path. One free limb end (102) of the said bimetallic strip (101) is mounted on the inner end with respect to the housing of the one connecting tab (5), fixed in the housing, of the circuit breaker. The second free limb end (104) of the said bimetallic strip (101) is mounted on a connecting piece (106, 106') to an opposing contact (9'), fixed to the housing. The base (114) forms the deflection end of the bimetallic strip which is kinematically connected to the breaker mechanism. <??>Between the connecting lugs (105) of the connecting piece (106, 106') for the second limb end (104) of the bimetallic strip (101) and the region of the connecting piece (106, 106') adjacent to the opposing contact which is fixed to the housing, said connecting piece has a constriction (111) which is formed by a slot passing through the plate-shaped central section of the connecting piece (106, 106') at right angles to the plane of the plate. The connecting lug (105) can be rotated about the constriction from the base side of the circuit breaker housing, by means of an adjusting screw (110) acting on the central section, in order to adjust the response threshold of the bimetallic strip (101). <IMAGE>

IPC 1-7

**H01H 71/16**

IPC 8 full level

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CPC (source: EP US)

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Cited by

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Designated contracting state (EPC)

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DOCDB simple family (publication)

**DE 8904063 U1 19890622**; DE 59009777 D1 19951123; EP 0391086 A1 19901010; EP 0391086 B1 19951018; JP H02288039 A 19901128; JP H0834083 B2 19960329; US 4990882 A 19910205

DOCDB simple family (application)

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