

Title (en)

Circuit breaker with a movable latching element urged by elastic return means.

Title (de)

Selbstschalter mit einem, elastischen Rückstellmitteln unterworfenen beweglichen Verriegelungsteil.

Title (fr)

Disjoncteur ayant un organe d'accrochage mobile soumis à des moyens élastiques de rappel.

Publication

EP 0004508 A2 19791003 (FR)

Application

EP 79400179 A 19790319

Priority

FR 7808263 A 19780322

Abstract (en)

1. A circuit-breaker comprising, in a casing, a first fixed contact (27A), a second contact (28) which is movable between an engaged position and a triggered position and which is urged towards its triggered position by resilient opening means, a triggering member (54, 59) for causing liberation (or opening) of said movable contact (28) and therefore movement thereof from its engaged position to its triggered position, an engagement and triggering lever member (33) mounted movably between an engagement position and a triggering position, and a latching mechanism (35) which is disposed between the triggering member (54, 59) and the engagement and triggering lever member (33), said mechanism (35) comprising a movable latching member (36) subjected on the one hand to the triggering member and on the other hand to resilient return means which urge it towards a re-arming position, and the same spring forming resilient return means for a member of the latching mechanism and said resilient means for opening the movable contact (28), characterised in that the resilient means for return movement of the latching member (36) and the resilient means for opening the movable contact (28) are formed by the same spring (66) which comprises on the one hand a body (67) formed by a helical spring, which is coupled at one of its ends to a fixed point (68) of the casing and which is coupled at the other of its ends to the movable contact (28) and, on the other hand, integral with said body (67), at said other end thereof, a resilient limb (65) forming a bending spring which bears against the latching member (36) in such a way that, besides the functions of opening the movable contact (28) and returning the latching member (36) said spring (66) is also capable of performing the function of closing said movable contact (28).

Abstract (fr)

Il s'agit d'un disjoncteur dans lequel l'organe d'accrochage 36 est soumis à des moyens élastiques de rappel propres à le solliciter en direction d'une position de réarmement. Suivant l'invention, ces moyens élastiques de rappel appartiennent aux moyens élastiques d'ouverture usuellement associés au contact mobile 28, lesdits moyens élastiques étant conjointement constitués par une même branche élastique 65 formant ressort de flexion. Application aux disjoncteurs.

IPC 1-7

H01H 71/50; **H01H 71/24**

IPC 8 full level

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CPC (source: EP)

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