

Title (en)

THERMAL TRIP DEVICE FOR A LOW-VOLTAGE CIRCUIT BREAKER AND CIRCUIT BREAKER COMPRISING SUCH A DEVICE

Title (de)

THERMISCHE AUSLÖSUNGSVORRICHTUNG FÜR EINEN NIEDERSpannungSSCHUTZSCHALTER, UND EINE SOLCHE VORRICHTUNG UMFASSENDEN SCHUTZSCHALTER

Title (fr)

DISPOSITIF DE DÉCLENCHEMENT THERMIQUE POUR UN DISJONCTEUR BASSE TENSION ET DISJONCTEUR COMPORTANT UN TEL DISPOSITIF

Publication

EP 3035361 B1 20190515 (FR)

Application

EP 15194891 A 20151117

Priority

FR 1462567 A 20141217

Abstract (en)

[origin: CN105719921A] The invention relates to thermal trip device for a low-voltage electrical circuit breaker. The circuit breaker comprises a fixed contact and a contact movable between a closed position of the two contacts and a open position of the two contacts. The movable contact can be driven by means of a slide member to the second position. The trip device comprises bimetallic strip deformable when an overload fault occurs in a circuit to be protected. The bimetallic strip cooperates with the slide member so that when the current overload fault occurs, the deformation of the bimetallic strip results in offset of the slide member to shift the movable contact to the open position. The circuit breaker is characterized in that the bimetallic strip (6) comprises a semi-spherical contact forming portion (11), which can cooperate with a flattened portion disposed on the slide member (7) to ensure the polarization of the slide member (7), so that a lever arm corresponding to the polarization is and independent of the deformation of the bimetallic strip (6).

IPC 8 full level

H01H 71/16 (2006.01); **H01H 71/74** (2006.01)

CPC (source: CN EP)

H01H 71/16 (2013.01 - CN EP); **H01H 71/7436** (2013.01 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3035361 A1 20160622; **EP 3035361 B1 20190515**; CN 105719921 A 20160629; CN 105719921 B 20200117; ES 2738374 T3 20200122; FR 3030871 A1 20160624; FR 3030871 B1 20190510

DOCDB simple family (application)

EP 15194891 A 20151117; CN 201510937786 A 20151215; ES 15194891 T 20151117; FR 1462567 A 20141217