

Title (en)
DEVICE FOR CURRENT LIMITING AND CIRCUIT BREAKING

Publication
EP 0003447 B1 19820526 (FR)

Application
EP 79400014 A 19790108

Priority
FR 7802844 A 19780131

Abstract (en)
[origin: EP0003447A1] 1. Device for current limiting and current breaking comprising : - a current limiting block (16) having fast opening contacts (48, 50 ; 62, 26) by electrodynamic effect, - a protective circuit breaker block (10) with a molded case having contacts (24, 26) and an automatic contact (24, 26) opening mechanism by an overload and/or short circuit, said blocks (10, 16) being electrically connected for a series connection of said fast opening contacts (48, 50 ; 62, 26) and said circuit breaker contacts (24, 26), and being mechanically joined so that a wall (14) of the molded case separates the latter from the limiting block, - a first movable conductor (52), the word movable being understood with respect to stationary elements, said first movable conductor (52) carrying a movable contact (50, 62) of said fast opening contacts (48, 50 ; 62, 26) and extending insides said limiting block (16) parallel to said wall (14) in closed position of said fast opening contacts (48, 50 ; 62, 26), - a second stationary conductor (44) extending insides said limiting block (16) parallel to said first conductor (52) in closed position said first (52) and second (44) conductors being electrically series connected for flowing of currents therethrough which create an electrodynamic force moving said first movable conductor (52) in the open position of said fast opening contacts (48, 50 ; 62, 26), - a third conductor (28) extending insides said circuit breaker block (10) and being electrically connected in series with said first (52) and second (44) conductors, characterized in that said third conductor (28) extends in closed position of said circuit breaker (10) contacts (24, 26 ; 62, 26) near said wall (14), parallel to said first (52) and second (44) conductors of the limiting block (16) and in that said first (51) and third (28) conductors are electrically connected in series for flowing of currents therethrough creating an additional electrodynamic force moving said first movable contact (52) into the open position of said fast opening contacts (48, 50 ; 62, 26).

IPC 1-7
H01H 77/10

IPC 8 full level
H01H 71/24 (2006.01); **H01H 77/10** (2006.01)

CPC (source: EP)
H01H 71/2418 (2013.01); **H01H 77/107** (2013.01)

Cited by
CN106807843A; EP0490332A3; CN102360975A; EP0482197A4; EP0087642A1; FR2514194A1; EP0698899A1; US5583328A; US5596184A; EP0095038A3; US4507527A; US8159319B2; WO2008090398A1; EP0576992B1

Designated contracting state (EPC)
BE CH DE GB IT NL SE

DOCDB simple family (publication)
EP 0003447 A1 19790808; EP 0003447 B1 19820526; DE 2962934 D1 19820715; FR 2416541 A1 19790831; FR 2416541 B1 19800822

DOCDB simple family (application)
EP 79400014 A 19790108; DE 2962934 T 19790108; FR 7802844 A 19780131