

Title (en)

Miniature electric circuit breaker in moulded case.

Title (de)

Elektrischer Miniatorschutzschalter mit gegossenem Gehäuse.

Title (fr)

Disjoncteur électrique miniature à boîtier moulé.

Publication

EP 0027404 A1 19810422 (FR)

Application

EP 80401404 A 19801003

Priority

FR 7925859 A 19791016

Abstract (en)

1. Miniature electric circuit breaker with moulded casing comprising : - a cut off chamber (30) enclosed by two electrodes (38, 40) to guide the arc, disposed to pick up an arc drawn between contacts (20, 22) when they get separated, - an electromagnetic trip device (28) having a coil (68) and a plunger (74) controlling a release latch (58) when a fault occurs to induce the automatic opening of said contacts (20, 22), - an actuation rod (80) coupled to the plunger (74) and acting on a rotating moving contact (20) to accelerate the shift of the moving contact (20) toward the opening position when the coil (68) of said trip device (28) is excited, - and a sleeve (70) to guide in translation the plunger (74), characterized in that said plunger (74) presents a general form of a barrel or a rib accommodating gaps for the compressed air passage by the piston effect generated when the plunger (74) moves quickly inside the sleeve (70) and allowing a limited motion of the plunger rotation inside the sleeve (70) during the opening travel of the rotating moving contact (20).

Abstract (fr)

L'invention est relative à un disjoncteur basse tension. Le noyau plongeur du déclencheur magnétique (28) est en forme de tonneau de section médiane carrée se déplaçant à l'intérieur d'un fourreau de maintien facilitant le montage. La section carrée empêche tout effet de piston susceptible de freiner le déplacement du noyau plongeur. La borne de connexion (16) disposée du côté du contact fixe (22) du disjoncteur, est agencée en forme de boucle (24) pour exercer un soufflage de l'arc en direction de la chambre de coupure (30). Le disjoncteur électrique peut être utilisé dans les circuits de protection basse tension.

IPC 1-7

H01H 71/24; H01F 7/16; H01H 71/08

IPC 8 full level

H01F 7/16 (2006.01); **H01H 71/08** (2006.01); **H01H 71/24** (2006.01)

CPC (source: EP)

H01F 7/1607 (2013.01); **H01H 71/08** (2013.01); **H01H 71/2463** (2013.01); H01F 2007/083 (2013.01); **H01H 71/2454** (2013.01); **H01H 2001/5861** (2013.01)

Citation (search report)

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Designated contracting state (EPC)

BE CH DE GB IT NL SE

DOCDB simple family (publication)

EP 0027404 A1 19810422; **EP 0027404 B1 19840718**; DE 3068610 D1 19840823; ES 495920 A0 19810616; ES 8105890 A1 19810616; FR 2468202 A1 19810430; FR 2468202 B1 19860307

DOCDB simple family (application)

EP 80401404 A 19801003; DE 3068610 T 19801003; ES 495920 A 19801014; FR 7925859 A 19791016