

Title (en)

Modular current limiting means.

Title (de)

Modulstrombegrenzungsvorrichtungen.

Title (fr)

Dispositifs modulaires de limitation de courant.

Publication

EP 0102867 A1 19840314 (FR)

Application

EP 83401525 A 19830725

Priority

FR 8213749 A 19820806

Abstract (en)

1. A circuit breaker device comprising at least one polar unit mounted in a open case (8) comprising a connection direction (82) defined by a first (6) and a second (3) connection means, an arc extinguishing structure (11) made from a multiplicity of parallel plates spaced apart from each other and located on the extension of a mobile contact lever (2) pivotably mounted in the case and electrically connected by a conducting means to the first connecting means (6), this mobile contact with a first portion (31) of the second connecting means, this first portion (31) extending in a direction substantially perpendicular to the direction of connection between the extinguishing structure (11) and the pivoting point (5) of the contact lever (2) and forming with the said lever a current loop and a magnetic structure (10) partly surrounding said current loop according to an axis parallel to said perpendicular direction, characterized in that the plates (110) of the extinguishing structure (11) form a first angle (beta) with respect to said orthogonal direction, that the said first portion (31) is extended by a second portion (32) forming the same angle (beta) with said first portion (31), so as to be parallel to the plates (110) of the extinguishing structure (11), and that the mobile contact lever (2) forms a second predetermined angle (gamma) with respect to the first portion (31), when the device is in the "contact closed" position.

Abstract (fr)

Dispositif interrupteur de circuit ayant au moins une unité polaire montée dans un boîtier ouvert (8), comprenant une direction de connexion (82) définie par un premier (6) et deuxième (3) moyens de connexion, une structure d'extinction d'arc (11) disposée dans le prolongement d'un bras de contact mobile (2) monté à pivotement, relié électriquement par un moyen au premier moyen de connexion (6), et maintenu en contact avec le deuxième moyen de connexion (3) par un ressort (4) et une structure magnétique (10), caractérisé en ce que le bras de contact mobile (2) et la première portion (31) du deuxième moyen de connexion (3) venant en contact avec le bras (2) sont disposés suivant une direction essentiellement perpendiculaire à la direction de connexion, et forment une boucle de courant; cette première portion s'étendant entre la structure d'extinction (11) et le point de pivotement du bras de contact (2), dont une deuxième portion (32) s'étend parallèlement au plan des plaques (110) de la structure d'extinction (11).

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IPC 8 full level

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CPC (source: EP)

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