

Title (en)

Automatic cutout with an electromagnetic trip.

Title (de)

Leitungsschutzschalter mit einem elektromagnetischen Auslöseorgan.

Title (fr)

Disjoncteur de protection de canalisation avec un appareil déclencheur.

Publication

EP 0444283 B1 19941026 (DE)

Application

EP 90124549 A 19901218

Priority

DE 9002197 U 19900224

Abstract (en)

[origin: EP0444283A1] In the automatic cutout having an electromagnetic trip (3) designed as an impact armature system, an energising winding (3a) is surrounded by a frame-shaped magnet yoke (5) formed by a ferromagnetic sheet-metal strip. Said yoke has an integrally arranged, horn-shaped fixed contact point (5d), which merges into an arc guide rail (5f) and interacts with a moving contact lever (8), which is arranged on the side of the trip (3) and in front of the end of an arc splitter stack (4a). In order structurally to simplify the magnet yoke (5), and to construct it in a material-saving manner, it is folded from one piece to form a frame-shaped closed iron return path surrounding the energising winding (3a). To this end, the magnet yoke (5) has a U-limbed region (5a, 5b, 5c), which is located above and on both end surfaces of the energising winding (3a) and is constructed at one limb end, together with the contact horn (5e), with a fixed contact point (5d), which is arranged without a transition and projects in the form of an ear. Connected thereto is a bent-back arc guide rail (5f) which, with the end of the free limb (5a), forms a rectangular frame corner without mutual contact, so that the shape of the magnet yoke (5), which is folded in one piece is completed. <IMAGE>

IPC 1-7

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IPC 8 full level

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CPC (source: EP)

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Cited by

CZ301277B6; DE10126854A1; CN102113079A; CN106024541A; EP1134767A1; FR2806522A1; GB2286486A; GB2286486B; EP0616350A1; CN104241055A; CN105513860A; WO02075764A1; WO2007087761A1; WO02099829A1; EP1388154B1

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