

Title (en)

Automatic switch with actuating electromagnet for short circuits

Title (de)

Selbstschalter mit elektromagnetischer Betätigung bei Kurzschluss

Title (fr)

Disjoncteur automatique avec actionnement electromagnétique pour court-circuit

Publication

EP 1130613 A1 20010905 (EN)

Application

EP 00830096 A 20000211

Priority

EP 00830096 A 20000211

Abstract (en)

A modular automatic switch in which the electromagnet (11) providing protection against short circuits and which is of the movable core type, consists of a core (25, 26) with a rectangular cross-section around which a coil (35) formed with rectangular turns of wire is wound, a rectangular yoke (31) ensuring closure of the magnetic circuit, and in which the movable part (26) of the core is "polarized" into a rest position, defined by an abutment (45) formed in the switch shell (1), by a spring (41) outside the yoke so as to optimize the working section for the magnetic flux in the core and the section of the copper, resulting in a reduction in the losses in the iron and in the copper and a flatter design of the electromagnetic structure. <IMAGE>

IPC 1-7

H01H 71/24

IPC 8 full level

H01H 71/24 (2006.01)

CPC (source: EP)

H01H 71/2454 (2013.01); **H01H 71/2463** (2013.01)

Citation (search report)

- [A] EP 0621618 A2 19941026 - ABB PATENT GMBH [DE]
- [A] DE 4445419 A1 19960627 - ABB PATENT GMBH [DE]
- [A] EP 0827162 A1 19980304 - SCHNEIDER ELECTRIC SA [FR]
- [A] EP 0333650 A1 19890920 - MAIER & CIE C [CH]
- [AD] WO 9612292 A1 19960425 - BTICINO SPA [IT], et al

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