

Title (en)

AUTOMATIC SWITCH WITH ACTUATING ELECTROMAGNET FOR SHORT CIRCUITS

Title (de)

AUTOMATISCHER SCHALTER MIT BETÄTIGBAREM ELEKTROMAGNET UND KURZSCHLUSS-SCHALTER

Title (fr)

COMMUTATEUR AUTOMATIQUE POURVU D'UN ELECTRO-AIMANT DE MANOEUVRE POUR COURTS-CIRCUITS

Publication

EP 1254475 A1 20021106 (EN)

Application

EP 01903707 A 20010207

Priority

- EP 01903707 A 20010207
- EP 0101288 W 20010207
- EP 00830096 A 20000211

Abstract (en)

[origin: EP1130613A1] 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)

Cited by

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WO 0159798 A1 20010816; AT E251796 T1 20031015; AU 3170401 A 20010820; BR 0108189 A 20030225; DE 60005785 D1 20031113; DE 60005785 T2 20040429; DE 60131520 D1 20080103; DK 1130613 T3 20040119; EP 1130613 A1 20010905; EP 1130613 B1 20031008; EP 1254475 A1 20021106; EP 1254475 B1 20071121; ES 2208252 T3 20040616; MX PA02007679 A 20040226; PL 198004 B1 20080530; PL 357265 A1 20040726; PT 1130613 E 20031231

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