

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 B1 20071121 (EN)

Application

EP 01903707 A 20010207

Priority

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

Abstract (en)

[origin: WO0159798A1] 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.

IPC 8 full level

H01H 71/24 (2006.01)

CPC (source: EP)

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

Cited by

EP2889893A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

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

DOCDB simple family (application)

EP 0101288 W 20010207; AT 00830096 T 20000211; AU 3170401 A 20010207; BR 0108189 A 20010207; DE 60005785 T 20000211; DE 60131520 T 20010207; DK 00830096 T 20000211; EP 00830096 A 20000211; EP 01903707 A 20010207; ES 00830096 T 20000211; MX PA02007679 A 20010207; PL 35726501 A 20010207; PT 00830096 T 20000211