

Title (en)
ELECTRIC AUTOMATIC SWITCH

Title (de)
ELEKTRISCHE AUTOMATISCHE SCHALTER

Title (fr)
COMMUTATEUR AUTOMATIQUE ÉLECTRIQUE

Publication
EP 2223321 B1 20150701 (EN)

Application
EP 08863905 A 20081217

Priority
• SI 2008000067 W 20081217
• SI 200700340 A 20071224
• SI 200800246 A 20081021

Abstract (en)
[origin: WO2009082358A1] An electric automatic switch consists of a housing (1), wherein at one end of the housing (1) there is a connection terminal (2) for a supply connection of the protected circuit and at the opposite end there is a connection terminal (3) intended for discharge connection of the protected circuit, wherein a first switch (4) is intended within the housing (1) that is electrically connected with a coil (17) and a terminal (3), and a second switch (5), wherein a movable contact (6) is common for both said switches (4) and (5) and a contact (10) on the switch-off side of the switch (5) is connected in series to a resistance (12) and further to a means (13), preferably a bimetal, wherein the means (13) is connected to the first terminal of the coil (17) comprising a striker pin (18) that opens the switch (4) upon the appearance of over-current within the coil (17). In the area of the switches (4) and (5) there is a support (7) of the contact bridge (6), wherein said support (7) is rotatably pivoted within a bearing (20) and simultaneously opened towards a spring (21) pushing the support (7) towards the switch (5) and on the support (7) there is a holder (22) of the movable contact bridge (6), further in its vicinity a support (25), onto which the upper extremity (26) of the bridge (6) leans with a force exerted by a spring (23), bearing (27) for the deflecting part of the means (13) and grip (28) of the knob (29) for manual switching on/off of the switch, in that the movable contact bridge (6) is formed in the shape of a cross, the upper member (30) of which is intended to properly position the bridge (6) in each operation mode of the switch and its cross members (30) are intended as complementary contacts to fixed contact elements (9) and (10) and the switch (5) and the lower longest member (15) of the movable contact element (6) is intended as a complementary contact to the fixed contact (16) of the switch (4).

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CPC (source: EP)
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Cited by
FR3049760A1; CN109074995A; WO2017174901A1

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