Title (en)

PROTECTIVE CIRCUIT BREAKER

Publication

EP 0147629 B1 19870304 (DE)

Application

EP 84114175 A 19841123

Priority

- DE 3345699 A 19831217
- DE 3347097 A 19831227

Abstract (en)

[origin: EP0147629A1] 1. Manually operable protective switch having the following features : the protective switch (1) has a magnetic and/or bimetallic release device (7, 8) acting on a latch (6) which can be locked and unlocked with a handle (4), the latch (6) essentially consists of a pivot lever (17) rotatably mounted in a switch housing (2) and an unlatching lever (18) interacting with this pivot lever (17), the pivot lever (17) transmits the pivoting movement of the handle (4) to a contact arm (13) which is elastically coupled to the pivot lever (17), is pivotable in the switch housing (2) and interacts with a fixed contact (14), the unlatching lever (18) is acted upon by the magnetic and/or bimetallic release device (7, 8) and is provided with a latching point for a transmission stirrup (26) acting in the manner of a toggle joint between the handle (4) and the latch (6), characterized by the following features : the unlatching lever (18) is made as a lever lying parallel next to the pivot lever (17), is mounted on a separate rotary axis (19) arranged on the pivot lever (17) at a distance from its axis (16) and forms, together with the pivot lever (17), a doublelink chain, the unlatching lever (18), in its centre area (web 21), is supported on an abutment projection (22) which is fixed to the housing and is arranged at a distance from the axis (16) of the pivot lever (17), the transmission stirrup (26), with its end (25) on the latch side, is guided in restrained manner in the direction of action in a longitudinal slot (29) of the pivot lever (17) and at the same time acts directly on the latching point made as an upwardly protruding detent (24) of the unlatching lever (18), the detent (24), during the switch-on pivoting movement of the pivot lever (17), projects with decreasing degree of overlap into the path of motion of the transmission stirrup (26), which path of motion is determined by the longitudinal slot (29), and releases this transmission stirrup (26) during the pivoting release movement of the unlatching lever (18).

IPC 1-7

H01H 71/52

IPC 8 full level

H01H 71/52 (2006.01)

CPC (source: EP)

H01H 71/526 (2013.01)

Cited by

DE10037924B4; EP0255483A3; EP0708461A1; EP0224396A1; FR2589627A1; US4740770A; CN109509689A

Designated contracting state (EPC)

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