

Title (en)
LOAD-BREAK SWITCH WITHOUT SF6 GAS HAVING A VACUUM CIRCUIT INTERRUPTER FOR MEDIUM-VOLTAGE SWITCHING SYSTEMS

Title (de)
LASTTRENNSCHALTER OHNE SF6-GAS MIT EINEM VAKUUMLEISTUNGSSCHALTER FÜR MITTELSPANNUNGSSCHALTANLAGEN

Title (fr)
INTERRUPTEUR COUPE-CHARGE SANS GAZ SF6 DOTÉ D'UN INTERRUPTEUR DE CIRCUIT À VIDE POUR SYSTÈMES DE COMMUTATION MOYENNE TENSION

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Abstract (en)
The present invention relates to a load-break switch (1) having a vacuum circuit interrupter (4) for medium-voltage switching systems. The load-break switch (1) comprises an inner elongated insulating housing (9) enclosing a vacuum interrupter (4) comprising a vacuum chamber (13) containing a fixed contact (20) electrically interconnected with a second conductive bar (16) and a movable contact (21) electrically connected to a flexible conductor (14) and a first switch contact (17), a second switch contact (18) electrically connected with a first conductive bar (15), a pair of parallelly arranged rotatable blades (26), wherein the pair of rotatable blades (26) is movable by a drive shaft (27) between a main current path in electrical communication with the fixed contact (20) and an isolation path when the movable contact (21) is spaced apart from the fixed contact (20), said pair of rotatable blades (26) being connected to a pair of parallelly arranged cam plates (25) enabling formation of the isolation path in the event of an extinguished arc or the main current path, said drive shaft (27) in combination with said cam plates (25) on one side, causes said pair of rotatable blades (26) to acquire said main current path and, on another side, to acquire the isolation path. One end of each of the rotatable blades (26) is in electrical contact with the first switch contact (17) and an opposite end of each rotatable blades (26) is in electrical contact with the second switch contact (18), wherein the main current path is formed in a first position of the pair of rotatable blades (26) and an isolation path is formed in a second position of the pair of rotatable blades (26), the pair of rotatable blades (26) is embodied as rotatable by 90° around the drive shaft (27).

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Citation (applicant)
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