

Title (en)

MULTI-PHASE ELECTRIC LOW-TENSION SWITCH WITH HIGH ELECTRODYNAMIC STRENGTH

Publication

EP 0100699 B1 19860402 (FR)

Application

EP 83401328 A 19830628

Priority

FR 8212530 A 19820713

Abstract (en)

[origin: EP0100699A1] 1. A multipolar low voltage electrical interrupter and having a high electrodynamic level, accommodated in a molded insulating housing, and comprising : - a switching slide (14) fitted up with a plurality of contact bridges (16), the number of which corresponding to the number of poles, each contact bridge (16) being perpendicular to the slide (14), - an operating mechanism (18) of the slide (14), drawn in alternate translation between the opening and closing positions, - a pair of stationary contacts (22, 24) by pole, provided at the internal extremes of two conducting blades (26, 28), symmetrical in respect to the moving axis of the slide (14) and being supported on two opposite faces of the housing (12), - each contact bridge (16) comprising two blades (34, 36) superposed and parallel, constituting a contact clamp, having self-compensated contacts capable of co-operating with the pair of stationary contacts (22, 24) to ensure, when the opening occurs, a double interruption of the current in the corresponding pole, characterized in that each of the two blades (34, 36) constituting the clamp has a divided structure with different contact points comprising a first contact finger (44) having to its opposite extremes two lateral projections (44A, 44B), which surround a second contact finger (46) juxtaposed to the first and that the two projections (44A, 44B) of the first finger (44) are each of them provided with a lug (48A, 48B) situated on a same horizontal level, near an other lug (50A, 50B) set at each extremity of the second finger (46) each blade (34, 36) being equipped thus with four contact points with the pair of stationary contacts (22, 24), these latest being arranged in order to provoke a previous separation with the corresponding lugs (50A, 50B) of the second finger (46) of each blade (34, 36), at the beginning of the opening of the interrupter, and the ultimate separation with the lugs (48A, 48B) of the first finger (44), when the slide (14) carries on running towards the opening position.

IPC 1-7

H01H 1/20; **H01H 9/38**; **H01H 1/54**

IPC 8 full level

H01H 1/36 (2006.01); **H01H 1/54** (2006.01); **H01H 9/38** (2006.01)

CPC (source: EP)

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Cited by

FR2638018A1; NL1015585C2; AU2001271128B2; FR2638017A1; EP2779190A1; FR3003392A1; EP3211648A1; US9218918B2; US6831239B2; EP1065684A1; FR2795858A1; EP0829890A1; FR2753563A1; US5886311A; CZ300188B6; WO0207174A1

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