

Title (en)

Assembling process for phase/neutral conductor circuit breakers and circuit breaker of that kind.

Title (de)

Montageverfahren für Phasen-Neutralleiter-Schutzschalter und Schutzschalter dieser Bauart.

Title (fr)

Procédé d'assemblage de disjoncteurs de phase et de neutre et disjoncteur de ce type.

Publication

EP 0569651 A1 19931118 (FR)

Application

EP 92440057 A 19920513

Priority

EP 92440057 A 19920513

Abstract (en)

Process for assembling a phase/neutral conductor circuit breaker comprising, in a box, which is preferably modular and intended to be fixed to a support rail, and including two half-shells (10, 11) and a dividing partition or spacer (12), connection terminals, pairs of fixed contacts (20, 35) and moving contacts (17, 29), arc cutoff chambers (24, 38), a control mechanism with lock (40) for manually operating the moving phase/neutral contacts between a closed position bearing on the fixed contacts and an open position separated from them, this lock mechanism comprising a moving-contact holder (41) and disconnection means, particularly thermal (27) and/or magnetic (33). The phase circuit is split into two parts, on the one hand a moving-contact sub-assembly and on the other hand a magnetic sub-assembly (31) including the fixed phase contact (35), whilst the moving (17) and fixed (20) neutral contacts form part of moving- (13) and fixed- (18) contact sub-assemblies respectively, these phase/neutral sub-assemblies incorporating their links to the corresponding terminal and to an arc guidance piece, as well as their respective connection terminals. The circuit breaker is assembled along a single mounting axis starting from one of the two half-shells which then forms a mounting platform. All the internal components of the circuit breaker are installed with the same orientation parallel to a vertical plane perpendicular to the box. <IMAGE>

IPC 1-7

H01H 69/00; **H01H 71/02**

IPC 8 full level

H01H 71/00 (2006.01); **H01H 71/02** (2006.01); **H01H 69/00** (2006.01)

CPC (source: EP)

H01H 71/002 (2013.01); **H01H 71/0207** (2013.01); **H01H 69/00** (2013.01)

Citation (search report)

[A] EP 0403358 A1 19901219 - HAGER ELECTRO [FR]

Cited by

EP1146534A1; CN114367779A; CN108198718A; CN108288568A; US8067374B2; US6310886B1; WO2022135039A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 0569651 A1 19931118; **EP 0569651 B1 19950412**; AT E121216 T1 19950415; DE 69202052 D1 19950518; ES 2072124 T3 19950701

DOCDB simple family (application)

EP 92440057 A 19920513; AT 92440057 T 19920513; DE 69202052 T 19920513; ES 92440057 T 19920513