

Title (en)

TWO-PHASE DIFFERENTIAL CIRCUIT BREAKER

Publication

**EP 0099786 B1 19860319 (FR)**

Application

**EP 83401327 A 19830628**

Priority

FR 8212328 A 19820712

Abstract (en)

[origin: EP0099786A1] 1. Two-phase differential circuit breaker for a low-voltage alternating current network with a moulded insulating housing (12) comprising : - a differential transformer (82) with a ring core comprising primary windings constituted by phase and neutral conductors of the network, and a secondary winding generating a trip signal when an earth fault appears, - a contact system (86) to interrupt the phase and neutral circuit in the open position of the contacts, - an actuating mechanism (42) of the contacts, comprising a lever (40) for manual operation and an automatic trip device when a fault occurs, - a control relay (72) of the trip device actuated by the trip signal of the secondary winding of the differential transformer and associated to the lock (78) of the mechanism (42), - and a pair of connection terminals (22, 24) per pole, characterized by the fact that the actuating mechanism (42) is arranged between a first and a second stationary plate (56, 58) extending in the same time parallelly to the lengthwise aligned direction of the terminals (22, 24) of each pole and perpendicularly to the front side of the housing (12), the first plate (56) constituting the main support of the self-bearing structure of the electromechanic assembly (20), and that the contact system (86) and the differential transformer (82) are arranged on the same side of said first plate (56), and on different levels according to the direction perpendicular to the front side, the actuating mechanism (42) and the trip relay (72) being respectively crosswise juxtaposed with the contact system (86) of the upper lever, and with the differential transformer (82) of the lower level.

IPC 1-7

**H01H 83/04**; **H01H 71/02**

IPC 8 full level

**H01H 71/02** (2006.01); **H01H 83/04** (2006.01)

CPC (source: EP)

**H01H 71/0207** (2013.01); **H01H 83/04** (2013.01)

Cited by

EP0259272A3; EP0176402A1; FR2569901A1; EP0579568A1; FR2693833A1; EP0275750A1; FR2609209A1

Designated contracting state (EPC)

BE CH DE GB IT LI NL SE

DOCDB simple family (publication)

**EP 0099786 A1 19840201**; **EP 0099786 B1 19860319**; DE 3362597 D1 19860424; ES 523954 A0 19840416; ES 8404106 A1 19840416; FR 2530073 A1 19840113; FR 2530073 B1 19850111; PT 77002 A 19830801; PT 77002 B 19860128

DOCDB simple family (application)

**EP 83401327 A 19830628**; DE 3362597 T 19830628; ES 523954 A 19830707; FR 8212328 A 19820712; PT 7700283 A 19830708