

Title (en)

CURRENT LIMITING CIRCUIT BREAKER WITH CURRENT COMMUTATION

Title (de)

STROMBEGRENZENDER LEISTUNGSSCHALTER MIT STROMUMSCHALTUNG

Title (fr)

DISJONCTEUR LIMITEUR DE COURANT COMPRENANT UN COMMUTATEUR DE COURANT

Publication

EP 0938736 B1 20041215 (EN)

Application

EP 98947183 A 19980917

Priority

- US 9819705 W 19980917
- US 93248697 A 19970918
- US 12365298 A 19980728

Abstract (en)

[origin: WO9914776A1] A compact current limiting circuit breaker utilizing two pairs of series connected contacts is equipped with a current limiter arranged in parallel with the second pair of contacts for improved overcurrent protection. Upon the occurrence of contact separation an arc is drawn at the first pair of contacts, but not the second. The presence of the polymer current limiter in parallel with the second pair of contacts causes the overcurrent to commute into the polymer current limiter immediately upon separation of the second contacts. A means for enhancing the dielectric strength across the second pair of open contacts prevents an arc strike from shunting out the polymer current limiter during a high available short circuit.

IPC 1-7

H01H 9/42

IPC 8 full level

H01H 9/42 (2006.01)

CPC (source: EP)

H01H 1/2058 (2013.01); **H01H 9/42** (2013.01); **H01H 2033/163** (2013.01)

Cited by

DE102010019432A1

Designated contracting state (EPC)

DE ES FR IT

DOCDB simple family (publication)

WO 9914776 A1 19990325; DE 69828147 D1 20050120; DE 69828147 T2 20051215; EP 0938736 A1 19990901; EP 0938736 B1 20041215; ES 2234156 T3 20050616

DOCDB simple family (application)

US 9819705 W 19980917; DE 69828147 T 19980917; EP 98947183 A 19980917; ES 98947183 T 19980917