

Title (en)

BYPASS CIRCUIT FOR THE OVERCURRENT TRIP OF A LOW-VOLTAGE POWER CIRCUIT BREAKER

Title (de)

UMGEHUNGSSCHALTUNG FÜR DEN ÜBERSTROMAUSLÖSER EINES NIEDERSpannungs-LEISTUNGSSCHALTERS

Title (fr)

CIRCUIT DE PONTAGE POUR LE DECLENCHEUR A SURINTENSITE D'UN DISJONCTEUR DE PUISSANCE A BASSE TENSION

Publication

EP 1388191 A1 20040211 (DE)

Application

EP 02726078 A 20020405

Priority

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- DE 10125051 A 20010514

Abstract (en)

[origin: WO02093709A1] According to the invention, a bypass circuit (4) trips a power circuit breaker, independently of an existing electronic overcurrent trip (2), as instantaneously as possible when a short-circuit occurs. To achieve this, the bypass circuit (4) is supplied by its own current sensor (3) that is configured as a current transformer in order to charge a capacitor (C), until a threshold value circuit (5) responds. The charge of the capacitor (C) is then fed to a separate tripping magnet (F2) or to a combined tripping magnet (F3) comprising separate coils for the two tripping paths.

IPC 1-7

H02H 3/05; **H02H 3/08**

IPC 8 full level

H02H 3/08 (2006.01); **H01H 83/02** (2006.01); **H02H 3/05** (2006.01)

CPC (source: EP US)

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