

Title (en)

2P2 ANALOG-TO-DIGITAL ELECTROMAGNETIC LEAKAGE PROTECTION CIRCUIT BREAKER

Title (de)

2P2-ANALOG-DIGITAL-SCHUTZSCHALTER GEGEN ELEKTROMAGNETISCHE LECKAGE

Title (fr)

DISJONCTEUR DE PROTECTION CONTRE LES FUITES ÉLECTROMAGNÉTIQUES ANALOGIQUE-NUMÉRIQUE 2P2

Publication

**EP 4089707 A4 20221116 (EN)**

Application

**EP 21844626 A 20210827**

Priority

- CN 202110348189 A 20210331
- CN 2021114976 W 20210827

Abstract (en)

[origin: EP4089707A1] The present invention relates to a 2P2M electromagnetic residual current circuit breaker with overcurrent protection (RCBO), including a housing. A circuit breaker module, a current leakage protection module linked to the circuit breaker module, and a handle linkage mechanism configured to control the circuit breaker module and the current leakage protection module are disposed in the housing. The circuit breaker module includes a first pole circuit breaker protection apparatus disposed on one side of the housing. The current leakage protection module includes a current leakage protection apparatus disposed on the other side of the housing. The circuit breaker module further includes a second pole circuit breaker protection apparatus disposed in the housing and between the first pole circuit breaker protection apparatus and the current leakage protection apparatus. An inner structure of the first pole circuit breaker protection apparatus is identical to an inner structure of the second pole circuit breaker protection apparatus. The present invention has the following advantages. The 2P2M electromagnetic RCBO adopts a standard modularized layout design and has a small quantity of components, and is thus simple in manufacturing, easy to maintain and repair, and costs less.

IPC 8 full level

**H01H 71/00** (2006.01); **H01H 71/10** (2006.01); **H01H 83/04** (2006.01); **H01H 83/22** (2006.01); **H01H 71/52** (2006.01)

CPC (source: CN EP)

**H01H 9/26** (2013.01 - CN); **H01H 9/54** (2013.01 - CN); **H01H 71/00** (2013.01 - CN); **H01H 71/10** (2013.01 - CN); **H01H 83/04** (2013.01 - EP); **H01H 83/226** (2013.01 - EP); **H01H 71/526** (2013.01 - EP)

Citation (search report)

- [XAI] EP 2889893 A1 20150701 - LEGRAND FRANCE [FR], et al
- [A] WO 2014167603 A1 20141016 - PANASONIC CORP [JP]
- [A] EP 0231732 A2 19870812 - FELTEN & GUILLEAUME AG OESTER [AT]
- See references of WO 202205756A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**EP 4089707 A1 20221116**; **EP 4089707 A4 20221116**; **EP 4089707 B1 20231018**; **EP 4089707 C0 20231018**; CN 112951665 A 20210611; WO 202205756 A1 20221006

DOCDB simple family (application)

**EP 21844626 A 20210827**; CN 202110348189 A 20210331; CN 2021114976 W 20210827