

Title (en)
THERMOMAGNETIC PROTECTION DEVICE, THERMAL PROTECTION COMPONENT AND MAGNETIC PROTECTION COMPONENT

Title (de)
THERMOMAGNETISCHE SCHUTZVORRICHTUNG, WÄRMESCHUTZKOMPONENTE UND MAGNETSCHUTZKOMPONENTE

Title (fr)
DISPOSITIF DE PROTECTION THERMOMAGNÉTIQUE, COMPOSANT DE PROTECTION THERMIQUE ET COMPOSANT DE PROTECTION MAGNÉTIQUE

Publication
EP 3291275 A1 20180307 (EN)

Application
EP 16785894 A 20160422

Priority

- CN 201510210613 A 20150428
- CN 201510209941 A 20150428
- CN 201510209923 A 20150428
- CN 2016079969 W 20160422

Abstract (en)
A thermomagnetic protection apparatus applicable to multi-pole circuit breaker. The thermomagnetic protection apparatus comprises: a housing, a multi-pole protection unit (105), an energy-storing component (106) and an adjustment component (107). The housing comprises an upper shell (101) and a base (112). The multi-pole protection unit is installed inside the housing, and comprises a plurality of thermomagnetic protection devices. Each thermomagnetic protection device corresponds to one pole of the multi-pole circuit breaker. Each thermomagnetic protection device comprises a thermal protection component (102) and a magnetic protection component (103). The multi-pole protection unit comprises a rod (501), and the rod adjusts an air gap of the magnetic protection component. The energy-storing component is installed inside the housing, and engages with the thermal protection component. When an overload current occurs, the energy-storing component is triggered by the thermal protection component and strikes an operation mechanism of the circuit breaker. The adjustment component is mounted on the housing, and engages with the rod and the energy-storing component. The adjustment component adjusts a rated overload current by means of adjusting the distance between the energy-storing component and the thermal protection component, and adjusts a rated transient current by means of adjusting the rod.

IPC 8 full level
H01H 71/10 (2006.01)

CPC (source: EP)
H01H 71/40 (2013.01); **H01H 71/7418** (2013.01); **H01H 71/7445** (2013.01); **H01H 71/7463** (2013.01); **H01H 2071/7481** (2013.01)

Cited by
JP2022014948A

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

DOCDB simple family (publication)
EP 3291275 A1 20180307; **EP 3291275 A4 20190227**; **EP 3291275 B1 20200212**; ES 2790873 T3 20201029; RU 2017140336 A 20190528; RU 2017140336 A3 20190528; RU 2696005 C2 20190730; WO 2016173463 A1 20161103

DOCDB simple family (application)
EP 16785894 A 20160422; CN 2016079969 W 20160422; ES 16785894 T 20160422; RU 2017140336 A 20160422