

Title (en)

OVERVOLTAGE PROTECTION DEVICE WITH A MECHANICAL DISCONNECTOR THAT IS ACTIVATED IN THE CASE OF A THERMAL OVERLOAD

Title (de)

ÜBERSpannungsschutzgerät mit im thermischen Überlastfall aktivierter mechanischer Abtrennvorrichtung

Title (fr)

Appareil de protection contre les surtensions comprenant un séparateur mécanique activé en cas de surcharge thermique

Publication

EP 3243209 B1 20200708 (DE)

Application

EP 15801148 A 20151125

Priority

- DE 102015000329 A 20150109
- EP 2015077614 W 20151125

Abstract (en)

[origin: WO2016110359A1] The invention relates to an overvoltage protection device with a mechanical disconnecter that is activated in the case of a thermal overload, the disconnecter comprising connection elements which can be moved by means of a spring-loaded slider from a closed position into a current-interrupting position, wherein the closed position of the connection elements is maintained by a solder material. The connection elements consist of a pair of shaped metal pieces, wherein the slider is fitted along with a pretensioning spring in the clear space between the shaped pieces. According to the invention, a supporting body is provided, on the bottom side of which apertures for external connection parts are formed, wherein the supporting body has opposite from the bottom side an opening for introducing the overvoltage protection unit. Furthermore, above the bottom side there is a chamber, which receives the shaped metal pieces, the slider and the pretensioning spring, wherein the respective contact lug of the overvoltage protection unit protrudes into the chamber. The slider has a first arm, directed towards the bottom side, and a second arm, directed towards the opening side, wherein the second arm goes over into a portion for optical signalling and the first arm goes over into a portion for triggering a fault indicating device.

IPC 8 full level

H01H 37/76 (2006.01); **H01C 7/12** (2006.01); **H01T 1/12** (2006.01)

CPC (source: CN EP)

H01C 7/126 (2013.01 - CN EP); **H01H 37/76** (2013.01 - CN EP); **H01T 1/12** (2013.01 - CN EP)

Cited by

EP3243242B1

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

DOCDB simple family (publication)

DE 102015000329 B3 20160519; CN 107112101 A 20170829; CN 107112101 B 20190219; EP 3243209 A1 20171115; EP 3243209 B1 20200708; ES 2821248 T3 20210423; PL 3243209 T3 20201214; SI 3243209 T1 20200831; WO 2016110359 A1 20160714

DOCDB simple family (application)

DE 102015000329 A 20150109; CN 201580072698 A 20151125; EP 15801148 A 20151125; EP 2015077614 W 20151125; ES 15801148 T 20151125; PL 15801148 T 20151125; SI 201531282 T 20151125