

Title (en)

PROTECTION DEVICE FOR PROTECTING AN ELECTRICAL LOAD

Title (de)

SCHUTZVORRICHTUNG ZUM SCHUTZ EINES ELEKTRISCHEN VERBRAUCHERS

Title (fr)

DISPOSITIF DE PROTECTION DESTINÉ À LA PROTECTION D'UN CONSOMMATEUR ÉLECTRIQUE

Publication

**EP 3655984 A1 20200527 (DE)**

Application

**EP 18736890 A 20180703**

Priority

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- EP 2018067887 W 20180703

Abstract (en)

[origin: WO2019015948A1] The invention relates to a protection device (100) for protecting an electrical load, which is connected electrically downstream of the protection device (100), from a short-circuit current, comprising a line arrangement (101) having a first electrical line (103) and a second electrical line (105) for supplying the electrical load with electrical energy, the first electrical line (103) having a first line constriction (107) having a reduced line cross-section and the second electrical line (105) having a second line constriction (109) having a reduced line cross-section, the first line constriction (107) and the second line constriction (109) being arranged adjacent to each other, and comprising at least one insulation layer (111), which electrically insulates the first line constriction (107) from the second constriction (109), the at least one insulation layer (111) being thermally destructible in dependence on temperature, the first line constriction (107) and/or the second line constriction (109) being electrically heatable by means of a current flow and the at least one insulation layer (111) being thermally loadable in order to thermally destroy the at least one insulation layer (111) when a predefined current intensity of the current through the line arrangement (101) is reached and to thereby electrically conductively connect the first electrical line (103) to the second electrical line (105).

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2019015948A1

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