Title (en)

SURGE PROTECTION DEVICE AND THERMAL TRIPPING MECHANISM THEREOF

Title (de)

ÜBERSPANNUNGSSCHUTZVORRICHTUNG UND THERMISCHER AUSLÖSUNGSMECHANISMUS DAFÜR

Title (fr)

DISPOSITIF DE PROTECTION CONTRE LES SURTENSIONS ET SON MÉCANISME DE DÉCLENCHEMENT THERMIQUE

Publication

EP 3232460 B1 20191002 (EN)

Application

EP 15867324 A 20151202

Priority

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Abstract (en)

[origin: EP3232460A1] A thermal tripping mechanism of a surge protection device comprises an elastic mechanism. Two first protection components (103) and one second protection component (108) form a Y-shaped layout and the two first protection components (103) are directly or indirectly connected to the second protection component (108) by using a thermal fusing material. The elastic mechanism comprises an elastic part (105) and a slide part (106). The elastic part (105) drives the slide part (106) to move by an elastic force. When the two first protection components (103) are both in a normal working state, the thermal fusing material does not reach a fusing temperature, the two first protection components (103) and the second protection component (108) form a conductive path, and the elastic part (105) is in an energy storage state. When at least one of the first protection components (103) is in an abnormal working state, the thermal fusing material reaches the fusing temperature and is fused, the elastic part (105) releases energy for driving the slide part (106) to move, and the slide part (106) moves to cut off the conductive path.

IPC 8 full level

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CPC (source: CN EP)

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