

Title (en)
Electric Switching Device

Title (de)
Elektrische Schaltvorrichtung

Title (fr)
Dispositif de commutation électrique

Publication
EP 2410554 A1 20120125 (EN)

Application
EP 10170526 A 20100722

Priority
EP 10170526 A 20100722

Abstract (en)
The invention relates to a electric switching device with a bi-metal tripping device and a latching mechanism with a releasing jack system to be triggered by the tripping device via a tripping bridge, in particular a motor protection switch or a circuit breaker. The invention also relates to a method for compensation of different bending distances of at least two bi-metal tripping devices of in parallel operated conductor rails. The objective of the invention is to provide an electric switching device with at least two conductor rails, which are operated in parallel, a bi-metal tripping device for each conductor rail and a release jack system to be triggered by the tripping device which does not trip under normal operating states, i.e. which does not trip too early. The invention discloses an electric switching device with at least two conductor rails, which are operated in parallel, a bi-metal tripping device for each conductor rail, a first tripping bridge with jogs for the bi-metals and a releasing jack system to be triggered by the tripping device via the first tripping bridge having a second tripping bridge and a tripping lever, which is able to detect different bending distances of the at least two bi-metal tripping devices of the parallel operated conductor rails and to control the releasing jack system via the tripping lever in such a way, that the forward motion of the more bended bi-metal tripping device will be compensated. The invention also discloses a method for compensating different bending distances of such electric switching device.

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CPC (source: EP)
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Citation (applicant)
US 6466115 B1 20021015 - BAUJAN GUNTER [DE], et al

Citation (search report)
• [X] DE 1197169 B 19650722 - SELCO ELETTRIC COSTRUZIONI S P
• [A] AT 317343 B 19740826 - ELEKTROWERKSTAETTEN BENEDIKT &
• [A] GB 1243151 A 19710818 - CIE ELECTROMECHANIQUE [FR]

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