

Title (en)
SINGLE-STAGE CIRCUIT BREAKER

Title (de)
EINSTUFIGER SCHUTZSCHALTER

Title (fr)
DISJONCTEUR MONO-ÉTAGE

Publication
EP 3577675 A1 20191211 (EN)

Application
EP 18702694 A 20180201

Priority
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Abstract (en)
[origin: WO2018141866A1] The present invention provides a single-stage circuit breaker. The single-stage circuit breaker comprises a shell; a first contact assembly and a first execution assembly used for cooperating with an electromagnetic trip device; an arc extinguishing device accommodated between an electromagnetic protection device and the first contact assembly; a thermal protection and arc fault detection device located near the arc extinguishing device and in a first accommodation chamber; an arc fault and leakage trip device arranged in a second accommodation chamber; a second contact assembly and a second execution assembly used for cooperating with the arc fault and leakage trip device and located at one side of the second accommodation chamber; and a circuit board assembly for arc fault handling and leakage protection. The single-stage circuit breaker of the present invention can not only meet the requirements for arc fault detection, leakage protection and overload over-current protection at the same time, but also can ensure the compactness of the internal structural layout of the circuit breaker.

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Citation (search report)
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