

Title (en)
MOLDED CASE CIRCUIT BREAKER

Title (de)
LEISTUNGSSCHALTER MIT GEGOSSENEM GEHÄUSE

Title (fr)
DISJONCTEUR À BOÎTIER MOULÉ

Publication
EP 2804196 A1 20141119 (EN)

Application
EP 12864991 A 20121221

Priority
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• KR 2012011260 W 20121221

Abstract (en)
A circuit breaker includes a plurality of fixable bars configured to form fixable contacts, a plurality of movable bars configured to be rotated through a switch to be connected to or disconnected with the plurality of the fixable bars and configured to form movable contacts opposing the fixable contacts, a plurality of arc chambers configured to cover contact parts of the plurality of the fixable bars and the plurality of the movable bars to remove an arc being generated on the contact parts, a bottom base configured to separately accommodate the plurality of the movable bars, the plurality of the fixable bars and the plurality of the arc chambers, each being in a rotation direction and configured to be integrally molded and a top base configured to form a pair with the bottom base to separately seal the plurality of the movable bars, the plurality of the fixable bars and the plurality of the arc chambers and to be integrally molded. The circuit breaker may prevent molten material inflow in a circuit breaker through a separate seal and insulation of components, each associated with a phase when a short circuit failure occurs, may prevent insulating performance decrease through the molten material inflow, may shorten an arc extinguishing time by an internal pressure increase through separately sealing components, each associated with a phase when a short circuit failure occurs thereby the circuit breaker may easily ensure short circuit performance, may implement a separate sealing structure of the components through a vertical integration of a bottom base and a top base, may have a simple structure and may increase assembly productivity.

IPC 8 full level
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