

Title (en)
A pole connector for in-series circuit breakers

Title (de)
Polverbinder für Reihenschaltung

Title (fr)
Connecteur polaire pour disjoncteurs en série

Publication
EP 2645487 B1 20140924 (EN)

Application
EP 12460013 A 20120329

Priority
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Abstract (en)
[origin: EP2645487A1] The invention relates to a pole connector for in-series circuit breakers, and in particular miniature circuit breakers (MCB) installed alongside each other on a busbar. The connector is made in the form of an aluminum conducting element (1) comprising conducting terminals (3) and cooling ribs (4a) of a length of (Sa) located on the front of the connector. The connector according to the invention has additional cooling ribs (4b) of a length of (Sb) which make a fragment of the conducting element (1), which are located on the rear of the connector and which preferably are grouped in pairs between which a free space (6) is formed to let exhaust gases escape from individual circuit breakers, when the connectors have been mounted on the circuit breaker set. The external surface of the aluminum conducting element (1) with the ribs (4a) and (4b), with the exception of the conducting terminals (3), is covered with an electrically insulating coat (5) made of polyamide material of thermal conductivity exceeding 0.2 W/(m·K) and of dielectric strength of at least 15 kV/mm, or of polyurethane material of thermal conductivity exceeding 0.1 W/(m·K) and of dielectric strength of at least 10 kV/mm, which sticks tightly to the external surface of the conducting element (1).

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Cited by
CN106463293A; KR20190003249A; GB2587467A; GB2587467B; GB2545446A; GB2545446B; US9536680B2; US11302502B2; US10494119B2; WO2015195192A1

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