

Title (en)

LOW VOLTAGE CIRCUIT BREAKER WITH VOLTAGE TAP AND PCB CARD AND METHOD OF ASSEMBLY

Title (de)

NIEDERSpannungs-Schutzschaltgerät mit einer Leiterplatte und einem Spannungsabgriff und Montageverfahren

Title (fr)

DISJONCTEUR BASSE TENSION AVEC CIRCUIT IMPRIME ET PRISE DE TENSION ET PROCÉDÉ DE MONTAGE

Publication

**EP 4213175 B1 20240612 (DE)**

Application

**EP 22213486 A 20221214**

Priority

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Abstract (en)

[origin: CN116435149A] A low-voltage protection switchgear according to the invention has: an insulating material housing having a front side, a fastening side opposite the front side, and a narrow side and a wide side connecting the front side and the fastening side; the switch contact is provided with a fixed contact which is fixedly arranged in the insulating material shell and a movable contact which can move relative to the fixed contact. Furthermore, the low-voltage protection switching device has an arc extinguishing chamber and an arc guide rail, the first end of which is guided below the arc extinguishing chamber and the second end of which protrudes in the direction of the switching contact. The low-voltage protection switching device further comprises a printed circuit board which is arranged between the arc extinguishing chamber and the fastening side, the printed circuit board being electrically conductively connected to the arc guide rail via a voltage tap. By means of a printed circuit board arranged in the area of the fastening side in a space-saving manner, the low-voltage protection switching device can be equipped with an additional digital function. The voltage supply of the printed circuit board is carried out in a space-saving manner by means of the arc rails.

IPC 8 full level

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