

Title (en)

ENCAPSULATED SECONDARY-CURRENT-LIMITING VOLTAGE SURGE DIVERTER BASED ON A SPARK GAP

Title (de)

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Title (fr)

DECHARGEUR ENCAPSULE LIMITANT LE COURANT DE SUITE DE SECTEUR CON U SOUS FORME D'ECLATEUR A ETINCELLE

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Application

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Abstract (en)

[origin: WO03019744A1] The invention relates to an encapsulated secondary-current-limiting voltage surge diverter based on a spark gap, for low-voltage applications, comprising two main electrodes and with insulating pieces which release gas on temperature loading, whereby one of the main electrodes is at least part of the capsule and/or the spark gap housing. According to the invention, the capsule or the spark gap housing has an essentially elongated parallelepiped form, with an arc chamber and at least two separate expansion chambers embodied in the parallelepiped, such as to extend over the total height of the parallelepiped. The expansion chambers are connected to the arc chamber by means of channels and the arc chamber and the expansion chambers run essentially parallel to each other. The arc chamber is defined in the head region by one of the main electrodes and an insulating piece and, in the opposing base region, is formed by an arc extending piece, electrically connected to the other main electrode. The channels run laterally from the arc extending piece to the expansion chambers. In at least one channel and/or one expansion chamber, further insulating pieces or insulating sections may be provided, which on arcing and temperature rise give off gas to produce a back pressure.

IPC 8 full level

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