

Title (en)

ENCAPSULATED SPARK-GAP BASED SURGE VOLTAGE PROTECTOR

Title (de)

GEKAPSELTER ÜBERSpannungsABLEITER AUF FUNKENSTRECKENBASIS

Title (fr)

LIMITEUR DE SURTENSION SCELLE HERMETIQUEMENT UTILISANT DES ECLATEURS

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Application

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Abstract (en)

[origin: WO03012945A1] The invention relates to an encapsulated spark-gap based surge voltage protector comprising large-surface, opposite lying, disk-shaped electrodes in a rotationally symmetrical arrangement in addition to an arc discharge gap which is disposed between the electrodes and which is at least partially encompassed by an impact wall. According to the invention, a first impact wall is arranged in such a way that it is directed from one of the electrodes, protruding above the spark-gap, towards the opposite electrode. A second parallel impact wall is arranged in such a way that it is radially distanced in an outward direction from the first impact wall in relation to the rotationally symmetrical structure. The existing impact walls form a meander shape through which the arc discharge pressure wave passes. Insulation paths which are protected against deposits are disposed downstream from the direction of flow, whereby the desired long-term properties and required degree of reliability of the spark gap are achieved.

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