

Title (en)

SHORT-CIRCUIT CURRENT LIMITER FOR A CONVERTER CIRCUIT WITH A CAPACITIVE ACCUMULATOR

Title (de)

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Title (fr)

LIMITEUR DE COURANT DE COURT-CIRCUIT POUR UN CIRCUIT CONVERTISSEUR COMPORTANT UN ACCUMULATEUR CAPACITIF

Publication

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Application

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Abstract (en)

[origin: DE19739551A1] The invention relates to a short-circuit current limiter, comprising at least one power semiconductor switch (T1, ..., T6) with a corresponding free-wheeling diode (D1, ..., D6) as well as at least one capacitive accumulator (C), which create a short-circuit mesh in the event of a short circuit. According to the invention at least one passive semiconductor current limiter (12) made of silicon carbide is arranged in said short-circuit mesh. In this way, in the event of a short circuit the short-circuit current is limited in a very short time to the limit current (I<sub>limit</sub>) of the passive semiconductor current limiter (12) while placing very little load on the power semiconductor switch (T1, ..., T6).

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IPC 8 full level

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