Title (en)

ELECTRIC MACHINE

Title (de)

ELEKTRISCHE MASCHINE

Title (fr)

MACHINE ÉLECTRIQUE

Publication

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Application

EP 10732994 A 20100716

Priority

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Abstract (en)

[origin: WO2011020665A2] The invention relates to an electric machine (10), particularly a generator or a starter generator for a motor vehicle, comprising a converter (64) which is arranged on a cooling element (53) and composed of semiconductor switching elements (58, 59) actuated synchronously with the phase frequency for rectifying a generator alternating voltage or supplying a motor from a DC voltage source (61). According to the invention, the cooling element (53) has a base plate (55) and cooling fins (54), wherein the ratio of the surface wetted by coolant to the volume of the cooling element (53) ranges from 0.5 to 1.5 [l/mm], preferably from 0.8 to 1.0 [1/mm].

IPC 8 full level

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