

Title (en)
ELECTRONICS UNIT FOR AN ELECTRICAL DEVICE

Title (de)
ELEKTRONIKEINHEIT FÜR EIN ELEKTROGERÄT

Title (fr)
UNITÉ ÉLECTRONIQUE POUR UN APPAREIL ÉLECTRIQUE

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EP 21847720 A 20211229

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Abstract (en)
[origin: WO2022161732A1] The invention relates to an electronics unit (10) for an electrical device, in particular for a motor-operated electrical device, comprising a printed circuit board (40), which is populated in particular on one side and comprises a plurality of power transistors (16) for actuating a multiphase load (12), in particular a multiphase electric motor (14), of the electrical device, wherein each phase (U, V, W) of the load (12) is assigned at least one power transistor (16). It is proposed that a first electrical damping element (30, 32) for damping transients caused by the switching processes of the power transistors (16) is connected in parallel with at least one of the power transistors (16) of a first phase (W) with the highest leakage inductance and that no electrical damping element (30, 32) acting in this manner is provided for at least one of the other phases (U, V), in particular for the phase (U) with the lowest leakage inductance. In addition, the invention relates to an electrical device, in particular a motor-operated electrical device, comprising an electronics unit (10) according to the invention for actuating a multiphase load (12), in particular a multiphase electric motor (14).

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