

Title (en)

CONTROL DEVICE FOR AN INVERTER, INVERTER FOR A VEHICLE, VEHICLE, AND METHOD FOR OPERATING AN INVERTER

Title (de)

STEUERUNGSEINRICHTUNG FÜR EINEN WECHSELRICHTER, WECHSELRICHTER FÜR EIN FAHRZEUG, FAHRZEUG UND VERFAHREN ZUM BETREIBEN EINES WECHSELRICHTERS

Title (fr)

DISPOSITIF DE COMMANDE CONÇU POUR UN ONDULEUR, ONDULEUR CONÇU POUR UN VÉHICULE, VÉHICULE ET PROCÉDÉ POUR FAIRE FONCTIONNER UN ONDULEUR

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Application

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Abstract (en)

[origin: WO2020058445A1] The invention relates to a control device (2) for an inverter (1) which comprises three half-bridges (9u, 9v, 9w) each having a first power switching element (11u, 11v, 11w) connected to a first DC voltage potential (10) and having a second power switching element (13u, 13v, 13w) connected to a second DC voltage potential (12), wherein the control device (2) is designed to control the power switching elements (11u, 11v, 11w, 13u, 13v, 13w) for converting a DC voltage between the DC voltage potentials (10, 11v, 11w, 13u, 13v, 13w) into a multiphase alternating current in a normal operating mode and for converting the inverter (1) from the normal operating mode into a safe operating mode, wherein the control device (2) is also designed to control the power switching elements (11u, 11v, 11w, 13u, 13v, 13w) alternately for switching single-phase active short circuits and for switching two-phase active short circuits in the safe operating mode.

IPC 8 full level

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