

Title (en)

METHOD FOR OPERATING AN ELECTRIC MACHINE

Title (de)

VERFAHREN ZUM BETREIBEN EINER ELEKTRISCHEN MASCHINE

Title (fr)

PROCÉDÉ DE FONCTIONNEMENT D'UNE MACHINE ÉLECTRIQUE

Publication

EP 4070447 A1 20221012 (DE)

Application

EP 20808344 A 20201117

Priority

- DE 102019219034 A 20191206
- EP 2020082333 W 20201117

Abstract (en)

[origin: WO2021110404A1] The invention relates to a method for operating an electric machine (100) having a stator having stator windings and a rotor, having a converter (110) and having a sensor (120) for detecting a measurement value, wherein the converter (110) has direct current connections, alternating current connections and semiconductor switches for connecting one of the direct current connections to one of the alternating current connections in each case, wherein the stator windings are connected to the alternating current connections, the semiconductor switches of the converter (110) being closed and opened at specific changeover times, a measurement being carried out by the sensor (120) at specific measurement times, the specific changeover times being adapted to the specific measurement times such that in a specific time interval about a specific measurement time the semiconductor switches are not closed and opened, and a control unit (150) and a computer program for carrying out said method.

IPC 8 full level

H02P 6/15 (2016.01)

CPC (source: EP US)

H02P 6/15 (2016.02 - EP); **H02P 23/14** (2013.01 - US); **H02P 27/08** (2013.01 - US); **Y02T 10/64** (2013.01 - EP)

Citation (search report)

See references of WO 2021110404A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

DE 102019219034 A1 20210610; CN 114788163 A 20220722; EP 4070447 A1 20221012; US 2023009497 A1 20230112; WO 2021110404 A1 20210610

DOCDB simple family (application)

DE 102019219034 A 20191206; CN 202080083703 A 20201117; EP 2020082333 W 20201117; EP 20808344 A 20201117; US 202017782690 A 20201117