

Title (en)

METHOD FOR OPERATING AN ELECTRIC MACHINE

Title (de)

VERFAHREN ZUM BETREIBEN EINER ELEKTRISCHEN MASCHINE

Title (fr)

PROCÉDÉ POUR FAIRE FONCTIONNER UNE MACHINE ÉLECTRIQUE

Publication

EP 3231080 A1 20171018 (DE)

Application

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Abstract (en)

[origin: WO2016092000A1] Method for operating an electric machine. The invention relates to a method for controlling operation of an electric machine (49) which has three phases, wherein pulse width modulation is carried out for pulses of a first electrical variable of the three phases, wherein the first electrical variable has a pulse with the longest pulse width for a first of the three phases, has a pulse with a medium pulse width for a second of the three phases and has a pulse with the shortest pulse width for a third of the three phases in each case on the basis of a position of electromechanical components (50) of the electrical machine (49) with respect to one another, wherein a cycle of the pulse width modulation is limited by two times (25, 27), specifically a time (25) at the start of the cycle and a time (27) at the end of the cycle, wherein a first pulse of the three phases is shifted at a first of the two times (25, 27) which limit the cycle, and a second pulse of the three phases is shifted at a second of the two times (25, 27) which limit the cycle, wherein at least one value of a second electrical variable is measured within at least one measuring window (32, 40, 44) during the cycle.

IPC 8 full level

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CPC (source: CN EP US)

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