

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

**EP 15808380 A 20151210**

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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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