

Title (en)
SYSTEM AND METHOD FOR CONTROLLING AN ELECTRICAL ASYNCHRONOUS MACHINE

Title (de)
SYSTEM UND VERFAHREN ZUR STEUERUNG EINER ELEKTRISCHEN ASYNCHRONMASCHINE

Title (fr)
SYSTÈME ET PROCÉDÉ DE COMMANDE D'UNE MACHINE ÉLECTRIQUE ASYNCHRONE

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Abstract (en)
[origin: WO2016038296A1] The invention relates to a system for controlling an electrical asynchronous machine for an electric or hybrid motor vehicle including: a means for determining (4) a driver torque request; a means for determining (5) an operating point including a rotor pulsation request and a rotor flux request based on the driver torque request; a calculation means (7) capable of determining the mechanical rotation speed, and the stator currents in the three-phase reference frame; a means for calculating (10) the Park transformation, the rotor flux and the stator pulsation; a means for calculating (11) the stator voltages in the Park reference frame on the basis of the calculated values of the rotor flux and the stator pulsation, the stator currents in the Park reference frame, the rotor pulsation request and the rotor flux request.

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