

Title (en)

DEVICE AND METHOD FOR MEASURING THE OFFSET ANGLE OF A RESOLVER IN A SYNCHRONOUS ELECTRIC MACHINE

Title (de)

VORRICHTUNG UND VERFAHREN ZUM MESSEN DES OFFSETWINKELS EINES RESOLVERS BEI EINER EKEKRTISCHEN SYNCHRONMASCHINE

Title (fr)

INSTALLATION ET PROCÉDÉ DE MESURE DE DÉCALAGE DE L'ANGLE D'UN RÉOLVEUR DANS UNE MACHINE ÉLECTRIQUE SYNCHRONE

Publication

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Application

EP 11718088 A 20110505

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Abstract (en)

[origin: WO2011144457A1] The invention relates to equipment comprising a first calculation unit (53) for carrying out a inverse Park transform on the basis of the voltages (Uq and Ud) at the output of the PI current controllers (52), outputting electric-voltage set-point signals (PWMA, PWMB et PWMC) into a power stage (54) powered by a line on which a DC voltage (Ubus-dc) is available. The power stage (54) generates a three-phase voltage system (UA, UB and UC) for powering the electric machine (10). The equipment comprises a signal-processing unit (56) that provides an angle measurement (am). A second calculation unit (58) uses the phase currents (Mes IA, Mes IB and Mes IC) and the rotor angle (ar) to output values (MesId and MesIq) used by the first calculation unit (53). A PI voltage controller (60) outputs an angle (ac) for adjusting the setting error by adjusting a set value for the voltage (Ud).

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2011144457A1

Citation (examination)

US 2006012328 A1 20060119 - YASUKAWA KOUICHI [JP], et al

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