

Title (en)

METHOD FOR DETERMINING THE ROTATIONAL ANGULAR POSITION OF THE ROTOR OF A MULTIPHASE ELECTRIC MACHINE

Title (de)

VERFAHREN ZUR BESTIMMUNG DER DREHWINKELPOSITION DES ROTORS EINER MEHRPHASIGEN ELEKTRISCHEN MASCHINE

Title (fr)

PROCÉDÉ DE DÉTERMINATION DE LA POSITION ANGULAIRE DE ROTATION DE ROTOR D'UNE MACHINE ÉLECTRIQUE POLYPHASÉE

Publication

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Application

EP 18705311 A 20180109

Priority

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Abstract (en)

[origin: WO2018130244A1] The invention relates to a method for determining the position of the rotor of a multiphase electric machine with pole windings (4), the inductances of which are uniquely connected to the rotational angular position of the rotor (2) in the currentless state at least within rotational angular periods. At at least one measurement point (7, 8) between pole windings (4), a measurement signal ((a1,as) which depends on the current inductances of the pole windings (4) and which is generated by voltage jumps (ΔU_B) at a phase conductor input (R, S, T) is tapped. According to the invention, multiple measurement points (7, 8) are provided for tapping a signal, said measurement points being arranged collectively at one and the same phase conductor (4). For each measurement point, the respective phase conductor (R, S, T) with the lowest current operating current is selected.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2018130244A1

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