

Title (en)

METHOD FOR DETERMINING A STATOR CURRENT VECTOR FOR STARTING A SYNCHRONOUS MACHINE OF A DRIVE OF A PASSENGER TRANSPORTATION APPARATUS

Title (de)

VERFAHREN ZUM BESTIMMEN EINES STATORSTROMVEKTORS ZUM STARTEN EINER SYNCHRONMASCHINE EINES ANTRIEBS EINER PERSONENBEFÖRDERUNGSVORRICHTUNG

Title (fr)

PROCÉDÉ DE DÉTERMINATION D'UN VECTEUR DE COURANT STATORIQUE POUR DÉMARRER UNE MACHINE SYNCHRONE D'UN ENTRAÎNEMENT D'UN DISPOSITIF DE TRANSPORT DE PERSONNES

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Application

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Abstract (en)

[origin: WO2016102385A1] The present invention relates to a method for determining a stator current vector (U_{max}) for starting a synchronous machine (111) of a drive (110) of a passenger transportation apparatus (100) having a rotor (122) and having a stator (121) with a stator winding, wherein different stator current vectors (U_1 , U_2 , U_3 , U_4 , U_5 , U_6) with different stator current vector directions are impressed on the stator winding over the course of a plurality of current application operations, wherein a minimum stator current vector (U_6) with a minimum stator current vector direction is determined from the different stator current vectors (U_1 , U_2 , U_3 , U_4 , U_5 , U_6), a minimum drive torque which acts on the rotor being generated in the synchronous machine (111) at said minimum stator current vector, wherein a starting stator current vector (U_{max}) with a starting stator current vector direction is determined from the minimum stator current vector (U_6), and wherein the starting stator current vector (U_{max}) is impressed on the stator winding for starting the synchronous machine (111).

IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

See references of WO 2016102385A1

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