

Title (en)

METHOD FOR ENERGY DEMAND DETERMINATION AND METHOD FOR COMPONENT SELECTION AS WELL AS A DATA STORAGE MEDIUM

Title (de)

VERFAHREN ZUR ENERGIEBEDARFSBESTIMMUNG, UND VERFAHREN ZUR KOMPONENTENAUSWAHL SOWIE DATENTRÄGER

Title (fr)

PROCÉDÉ DE DÉTERMINATION DES BESOINS EN ÉNERGIE, PROCÉDÉ DE SÉLECTION DE COMPOSANTS AINSI QUE SUPPORT DE DONNÉES

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2010103016A1] In the case of a method for automated determination of the electrical energy demand of a drive system, the drive system comprises an electric motor (20), a converter (10) for operating the electric motor (20), a component (40) to be driven and a transmission (30), which is connected between the electric motor (20) and the component (40) to be driven, wherein the component (40) to be driven carries out a predetermined kinematic profile. A loss model (20a) is determined for the electric motor (20), a loss model (10a) is determined for the converter (10) and a loss model (30a) is determined for the transmission (30), with the respective loss models (10a, 20a, 30a) taking account of various operating states which occur as a result of the predetermined kinematic profile, and the electrical energy demand of the drive system is determined during a predetermined time period using the loss models (10a, 20a, 30a) and the predetermined kinematic profile.

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