Title (en)

METHOD AND DEVICE FOR DYNAMIC POWER REGULATION OF A DRIVEN POLYPHASE SYNCHRONOUS MACHINE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR DYNAMISCHEN LEISTUNGSREGELUNG EINER ANGETRIEBENEN MEHRPHASIGEN SYNCHRONMASCHINE

Title (fr)

PROCEDE ET DISPOSITIF POUR LA REGULATION DE PUISSANCE DYNAMIQUE D'UNE MACHINE SYNCHRONE POLYPHASEE MENEE

Publication

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Application

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Abstract (en)

[origin: DE19752940A1] The invention relates to a method and a device for dynamic power regulation of a driven synchronous machine. According to the invention, actual load angle values (delta) are determined on the basis of the actual position (L1, Ls) of the synchronous machine (2) and the detected supply voltage space vector (<u>u</u>N). Regulation occurs by rotating the stator (14) of the driven synchronous machine (2) to an actual load angle value (delta *) that is determined by power regulation. This enables full regulation of the effective power huntings of a driven regulated synchronous machine (2).

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