

Title (en)

METHOD AND DEVICE FOR OPERATING AN INDUCTION MOTOR WITH INCREASED EFFICIENCY

Title (de)

VERFAHREN UND VORRICHTUNG ZUM BETREIBEN EINES ASYNCHRONMOTORS MIT GESTEIGERTER EFFIZIENZ

Title (fr)

PROCEDE ET DISPOSITIF POUR FAIRE FONCTIONNER UN MOTEUR À INDUCTION AVEC UNE EFFICACITÉ ACCRUE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2011085805A1] The invention relates to a method and device for operating an asynchronous motor having increased efficiency. According to the invention, ranges for a motor size of the asynchronous motor are specified. In addition, a value of the motor size is calculated depending on at least one measurement value of a measurement parameter during the operation of the asynchronous motor, wherein the respective calculated value of the motor size is allocated to one of the ranges. Furthermore, a control parameter is changed depending on the range to which the calculated motor parameter is allocated to provide an optimized control parameter such that the control parameter is changed beginning from a starting value specified for the respective range of the motor size until a predetermined criterion for a specific motor size is reached. Furthermore, the optimized control parameter is stored as a support point of a continuous optimal characteristic curve for the control parameter depending on the range to which the calculated motor size is allocated. The asynchronous motor can thus be more effectively operated by actuation by means of the provided continuous optimal characteristic curve. The invention also relates to a block wiring diagram for a corresponding device, to process diagrams for corresponding methods and to a computer program product for carrying out said method.

IPC 8 full level

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CPC (source: EP KR US)

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