

Title (en)

DRIVE CONTROL FOR AN ELECTRIC DRIVE WITH A SECURE ELECTRICAL SEPARATION OF POWER ELEMENT AND CONTROL ELEMENT

Title (de)

ANTRIEBSSTEUERUNG FÜR EINEN ELEKTRISCHEN ANTRIEB MIT SICHERER ELEKTRISCHER TRENNUNG VON LEISTUNGSTEIL UND REGELUNGSEINHEIT

Title (fr)

COMMANDE D'ENTRAÎNEMENT POUR UN ENTRAÎNEMENT ÉLECTRIQUE PRÉSENTANT UNE ISOLATION ÉLECTRIQUE FIABLE ENTRE UNE PARTIE DE PUISSANCE ET UNE UNITÉ DE RÉGULATION

Publication

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Application

**EP 01982120 A 20010917**

Priority

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Abstract (en)

[origin: WO0227913A1] The invention relates to a drive control for an electric drive with a secure electrical separation of power element and control element. The aim of the invention is to reduce the number of components such as optic couplers and buffer amplifiers between the power element and a control electronics. To this end, a suitable electrical transformer (U) is inserted in a digital communication interface (K) between the control unit (R) and the control electronics (A) for the purpose of providing a secure electrical separation. To make use of a transformer (U) possible, a non-zero frequency encoding, for example a Manchester encoding, is carried out. Alternatively, an Ethernet physics can be used to provide a suitable communication interface. The transformer electrically insulates the two communication paths from each other that are provided in an Ethernet physics and preferably has little coupling capacity and a low attenuation factor.

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**H02P 7/63**

IPC 8 full level

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CPC (source: EP US)

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