

Title (en)

ELECTRONIC SWITCH MAGNET CONTROL SYSTEM FOR SWITCHING ON AND HOLDING A CONTACTOR

Title (de)

ELEKTRONISCHE SCHALTMAGNETANSTEUERUNG ZUM EINSCHALTEN UND HALTEN EINES SCHÜTZES

Title (fr)

SYSTEME DE COMMANDE ELECTRONIQUE A AIMANT DE COMMUTATION POUR LA MISE EN CIRCUIT ET LE MAINTIEN D'UN CONTACTEUR

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Application

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Abstract (en)

[origin: WO9729501A1] The invention relates to an electronic switch magnet control system for contactors, the contactor (2) having a travel sensor (3) used to determine the position of the armature (4). A measuring transducer (6) determines the actual current in the armature coil (7). A current-theoretical-value transmitter presets a theoretical current in relation to the armature position. A voltage regulator presets the coil voltage (Ucoil) applied to the armature coil (7) in relation to the current deviation between the actual current and the theoretical current. The travel sensor (3) has a number of n sensors, in particular mechanical switches, light barriers, Hall-effect detectors or induction switches which are all arranged along the distance (H) covered by the armature (4), thereby determining the armature position discretely, a theoretical-current value being allocated to each sensor of the travel sensor (3).

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