Title (en)

ELECTRONIC SWITCH MAGNET CONTROL SYSTEM FOR HOLDING A CONTACTOR

Title (de)

ELEKTRONISCHE SCHALTMAGNETANSTEUERUNG ZUM HALTEN EINES SCHÜTZES

Title (fr)

SYSTEME DE COMMANDE ELECTRONIQUE A AIMANT DE COMMUTATION POUR LE MAINTIEN D'UN CONTACTEUR

Publication

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Application

EP 97900577 A 19970109

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Abstract (en)

[origin: WO9729502A1] The invention relates to an electromagnetic switch magnet control system (1) for contactors (2). The contactor (2) has a coil (7) which drives switching contacts (5) via an armature (4) moving between an ON and OFF position. The switch magnet control system (1) also has a sensor (S, 3a) used to determine the position of the armature (4) driven by the coil (7). A mark (4a) joined to the armature (4) can be detected by the sensor (S, 3a). The sensor (S, 3a) is arranged with respect to the mark (4a) in such a manner that when the armature (4) deviates to a small extent from the ON position the sensor (S, 3a) detects the mark (4a) and sends an appropriate signal to the switch magnet control system (1). So, a maximum magnetic field is generated which drives the armature (4) towards the ON position as soon as the sensor (3; S, 3a) detects the mark (4a), the strength of said maximum magnetic field being set or adjusted for a predetermined maximum time (tmax) and cut off at the end of said maximum time (tmax).

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