Title (en)

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

Title (de)

ELEKTRONISCHE SCHALTMAGNETANSTEUERUNG ZUM EINSCHALTEN UND HALTEN EINES SCHUTZES

Title (fr)

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

Publication

EP 0879474 A1 19981125 (DE)

Application

EP 97900969 A 19970109

Priority

- DE 19605974 A 19960206
- EP 9700052 W 19970109

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).

IPC 1-7

H01H 47/00; H01H 9/16

IPC 8 full level

H01H 9/16 (2006.01); **H01H 47/00** (2006.01); H01H 50/08 (2006.01)

CPC (source: EP)

H01H 9/168 (2013.01); H01H 47/002 (2013.01); H01H 50/08 (2013.01)

Citation (search report)

See references of WO 9729501A1

Designated contracting state (EPC)

AT CH DE FR GB IT LI SE

DOCDB simple family (publication)

WO 9729501 A1 19970814; AT E191583 T1 20000415; DE 19605974 A1 19970807; DE 59701402 D1 20000511; EP 0879474 A1 19981125; EP 0879474 B1 20000405

DOCDB simple family (application)

EP 9700052 W 19970109; AT 97900969 T 19970109; DE 19605974 A 19960206; DE 59701402 T 19970109; EP 97900969 A 19970109