

Title (en)

ELECTRICAL CONTACTOR WITH FLYWHEEL DRIVE AND METHOD FOR SWITCHING AN ELECTRICAL CONTACTOR ON AND OFF

Title (de)

ELEKTRISCHES SCHALTSCHÜTZ MIT SCHWUNGANTRIEB SOWIE VERFAHREN ZUM EIN- UND/ODER AUSSCHALTEN EINES ELEKTRISCHEN SCHALTSCHÜTZES

Title (fr)

CONTACTEUR ÉLECTRIQUE À ENTRAÎNEMENT ROTATIF AINSI QUE PROCÉDÉ D'ENCLenchement ET/OU DÉCLenchement D'UN CONTACTEUR ÉLECTRIQUE

Publication

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Application

EP 12745632 A 20120802

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Abstract (en)

[origin: WO2014005611A1] The invention relates to an electrical contactor 1, particularly for use in railways, having a stator 2 and an armature 3, said armature 3 being connected to a contact region 4a, 4b and being movable from a first to a second position during a switch-on and/or a switch-off process of the contactor, wherein the contact region 4a, 4b is connected in at least one of said positions to a counter-contact region 5a, 5b for closing an electrical circuit, wherein a pushing device 6 is connected to the armature, which pushing device can be rotated relative to the armature 3, wherein the pushing device 6 pushes the armature 3, during the movement from the first to the second position of the switch-on and/or switch-off process at least at times in a supporting manner. The invention also relates to a method for switching on and/or off an electrical contactor 1, comprising the following steps: moving an armature 3 by activating and/or deactivating a stator; accelerating a rotation of a pushing device 6, said pushing device 6 being connected to the armature 3; and transferring at least a portion of the kinetic movement energy of the pushing device 3 to the armature 3, in a phase of the switch-on and/or switch-off process, in which a contact region 4a, 4b connected to the armature 3 comes into contact with and out of contact with a counter contact region 5a, 5b to support the armature movement.

IPC 8 full level

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Citation (search report)

See references of WO 2014005611A1

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DOCDB simple family (publication)

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