

Title (en)  
AC contactor.

Title (de)  
Wechselstromschütz.

Title (fr)  
Contacteur pour courant alternatif.

Publication  
**EP 0432299 B1 19940803 (DE)**

Application  
**EP 89123031 A 19891213**

Priority  
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Abstract (en)  
[origin: EP0432299A1] The invention relates to an AC contactor having an armature, which can be operated by a magnet system and is operatively connected to a contact support, which holds a moving contact part of the contact system and is loaded by the force of a return spring. The contact support is in this case provided with an additional mass and is operatively connected to the armature via a coupling spring, the additional mass being movable with respect to the contact support and an additionally provided intermediate part, to which the armature is coupled. The coupling spring, which on the one hand is supported on the contact support, can, on the other hand, rest against an angled end of the intermediate part which is pressed against the additional mass, the additional mass resting against a stop on the contact support or being spring loaded against the movement direction of the contact support, via a separate additional spring, against a stop on the contact support. Friction means, which influence free movement, engage on the additional mass such that a deceleration of the additional mass can be achieved in accordance with the friction characteristic. In consequence, the general sensitivity of a magnet system with uneven pole surfaces is considerably reduced with respect to the closing behaviour. This is particularly advantageous if a contactor can be used optimally at 50 and 60 Hz mains frequency. <IMAGE>

IPC 1-7  
**H01H 50/30**

IPC 8 full level  
**H01H 50/30** (2006.01); **H01H 51/06** (2006.01)

CPC (source: EP US)  
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Cited by  
CN102054632A; DE4325324C1; CN102931032A; WO9504365A1

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