

Title (en)  
ELECTRICAL CONTACTOR-CIRCUIT BREAKER

Title (de)  
ELEKTRISCHES SCHALTSCHÜTZ

Title (fr)  
DISJONCTEUR CONTACTEUR ÉLECTRIQUE

Publication  
**EP 2599099 A1 20130605 (DE)**

Application  
**EP 11716385 A 20110428**

Priority  
• DE 102010032456 A 20100728  
• EP 2011002146 W 20110428

Abstract (en)  
[origin: WO2012013252A1] The invention relates to an electrical contactor, comprising main contacts and secondary contacts, an armature provided for actuating the main contact bridges and secondary contact bridges, and means for restoring the armature from an intermediate position or end position to an initial position, wherein a precharging coil and a pick-up coil to which current can be provided in addition to or independently of the precharging coil are provided in order to electromagnetically drive the armature. A coil yoke is arranged in such a way that the magnetic force acting on the armature due to the magnetic field produced by the precharging coil is greater in the end position of the armature than in the intermediate position when equal current is provided to the precharging coil, wherein said magnetic force corresponds to the restoring force of the means for restoring the armature to the initial position in the intermediate position of the armature and is greater than the restoring force in the end position of the armature, and wherein the precharging coil is provided in order to move the armature from the initial position to the intermediate position and to retain the armature in the end position, and furthermore the pick-up coil is provided in order to move the armature from the intermediate position to the end position.

IPC 8 full level  
**H01H 50/54** (2006.01)

CPC (source: EP US)  
**H01H 50/541** (2013.01 - EP US); **H01H 50/546** (2013.01 - EP US); **H01H 50/62** (2013.01 - US)

Citation (search report)  
See references of WO 2012013252A1

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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