

Title (en)

ELECTROMAGNETIC ACTUATOR AND ELECTRICAL CONTACTOR COMPRISING SUCH AN ACTUATOR

Title (de)

ELEKTROMAGNETISCHER AKTUATOR UND ELEKTRISCHER KONTAKTOR MIT EINEM DERARTIGEN AKTUATOR

Title (fr)

ACTIONNEUR ÉLECTROMAGNÉTIQUE ET CONTACTEUR ÉLECTRIQUE COMPRENANT UN TEL ACTIONNEUR

Publication

EP 3198624 B1 20191030 (FR)

Application

EP 15766858 A 20150923

Priority

- FR 1459007 A 20140924
- EP 2015071821 W 20150923

Abstract (en)

[origin: WO2016046249A1] This electromagnetic actuator (2) for manoeuvring an electrical contactor comprises a fixed part (4) including at least one coil (44A, 44B) for generating a magnetic field centred on a longitudinal axis (X2), at least one core (46A, 46B) for concentrating the magnetic flux, this core being installed within the coil and provided with a fan-out plate (464) for the magnetic flux which defines an active surface (S464) perpendicular to the longitudinal axis as well as at least one magnetic flux return element (42). This actuator also comprises a reed (6) movable in translation along the longitudinal axis (X2) and with respect to the fixed part (4), between a first position remote from the active surface (S464) and a second position close to this surface, under the effect of a loading induced by the magnetic field, as well as at least one member (8A, 8B) for elastic return of the reed (6) to a predetermined position from among the first position and the second position. The fan-out plate (464) is provided with at least one rib (468) for closing the magnetic field lines between this fan-out plate and the reed (6), this rib protruding with respect to the active surface (S464) on the side of the reed and made at the level of an edge (466) of the fan-out plate.

IPC 8 full level

H01F 7/16 (2006.01); **H01H 1/20** (2006.01); **H01H 50/14** (2006.01); **H01H 50/16** (2006.01); **H01H 50/40** (2006.01); **H01H 51/06** (2006.01)

CPC (source: EP US)

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