

Title (en)  
ELECTROMAGNETIC RELAY

Title (de)  
ELEKTROMAGNETISCHES RELAIS

Title (fr)  
RELAIS ELECTROMAGNETIQUE

Publication  
**EP 3516676 A1 20190731 (DE)**

Application  
**EP 17768417 A 20170911**

Priority  
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Abstract (en)  
[origin: WO2018054714A1] The invention relates to an electromagnetic relay (1), more particularly a safety relay (1). The relay (1) has a main part (10) and a coil system (20, 120) located thereon, the coil system (20, 120) having a coil (24, 124) and a yoke (25, 125) which extends through the coil (24, 124) along a winding axis (WA) of the coil (24, 124). An armature (30, 130) for the relay (1) is located next to the coil (24, 124) and mounted such that it can pivot about an armature bearing axis (AA, AA') and has pole shoes (33a, 33b, 33c, 33d, 133a, 133b) for magnetically coupling with the yoke (25, 125) of the coil system (20, 120). The relay (1) also comprises a contact system (50) having at least two contact springs (51, 53), wherein each spring movement plane (FB) of the contact springs (51, 53) extends across the winding axis (WA) of the coil (24, 124), preferably at a substantially right angle. At least two actuators (36, 37, 41, 42) are located on the armature (30, 130), which actuators (36, 37, 41, 42) are allocated to the contact springs (51, 53) in order to actuate same and which actuators (36, 37, 41, 42) extend radially outwards on the armature (30, 130) with respect to the armature bearing axis (AA, AA') in a longitudinal direction (AL) of the armature (30, 130), wherein the radially outermost ends of the two actuators (36, 37, 41, 42) are farther away from the armature bearing axis (AA, AA') than the pole shoes (33a, 33b, 33c, 33d, 133a, 133b) of the armature (30, 130).

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See references of WO 2018054714A1

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