

Title (en)
Electromagnetic relay.

Title (de)
Elektromagnetisches Relais.

Title (fr)
Relais électromagnétique.

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Application
EP 82110952 A 19821126

Priority
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Abstract (en)
1. An electro-magnetic relay with a coil (1) whose axis extends parallel to the base plate of the relay and has a core which at one end forms a pole face for an armature (6) mounted on a yoke edge (5), with an insulating carrier (7) connected to the coil body and having in the region of the coil flange (3) which faces towards the armature (6) two counter-contact elements (9, 10; 9, 13; 9, 18; 22, 26) which extend at right angles to the base plane and are provided with connecting elements (9a, 10a), of which the first counter-contact element (9; 22) comprises a first contact section (9b; 24) and the second countercontact element (10; 13; 18; 26) comprises two sections (10, 12; 13, 15; 18, 20; 26, 28) arranged in parallel planes and offset relative to one another in that they are multiply bent at right angles, where that section which forms the free end of this second countercontact element is arranged in alignment with the first contact section (9b; 24) as a second contact section (12; 15; 20; 28), in a common plane, and a bridge contact spring (7; 17) attached to the armature (6) which, in its first switching position, bridges the first and second contact sections, characterized in that in a section (10; 13; 18; 26) directed towards the connecting element (10a), the second counter-contact element (10; 13; 18; 26) is arranged opposite the first contact section (9b; 24) such that, together with the latter, it encloses the bridge contact spring (7; 17), and in its second switching position the bridge contact spring contacts this section (10; 13; 18; 26), and that with its angled zone (10b; 14; 19; 27) the second counter-contact element (10; 13; 18; 26) intersects the plane of the bridge contact spring (7; 17).

Abstract (de)
Das Relais besitzt einen einfachen Aufbau mit einem Klappanker (6) der unmittelbar eine Kontaktfeder (7) trägt. Die Kontaktfeder ist mit ihrem freien Ende zwischen zwei Gegenkontaktelementen (9, 10) bewegbar. Das eine dieser Gegenkontaktelemente (10) besitzt einen Fortsatz (10b), der die Kontaktfeder umgreift und mit einem angeformten Kontaktlappen (12) mit dem ersten Gegenkontaktelement (9) fluchtet. Dadurch wird ein Brückenkontakt gebildet, bei dem die Kontaktfeder selbst keinen Stromanschluß benötigt. Diese Anordnung ergibt auf einfache Weise eine doppelte Stromunterbrechung, wodurch beim Schalten hoher induktiver Lasten Lichtbögen vermieden werden.

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H01H 50/54; H01H 50/60

IPC 8 full level
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