

Title (en)

MAGNETIC TRIGGER FOR FAULT CURRENT PROTECTION SWITCH

Title (de)

MAGNETAUSLÖSER FÜR FEHLERSTROMSCHUTZSCHALTER

Title (fr)

RELAIS DECLENCHEUR MAGNETIQUE POUR DISJONCTEUR DE PROTECTION A COURANT DE DEFAUT

Publication

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Application

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Abstract (en)

[origin: WO9413003A1] The invention relates to a magnetic trigger for a fault current protection switch with a spring-loaded cut-out blade, a permanent magnet, a triggering coil, a magnet yoke with a core for the triggering coil, a bearing and pole faces for the cut-out blade and a push-rod actuatable thereby. It solves the problem of designing such a magnetic trigger in such a way that it is simple to construct, compact and where the available magnetic energy is most effectively used. According to the invention, the magnet yoke (1) is, in projection, a hooked component which virtually completely surrounds both poles of the permanent magnet (6) at one end and at the other is shaped into a leg (2) leading away from the permanent magnet (6), the core (3) for the triggering coil (4) is arranged on the side of this leg (2) away from the projection plane and that one pole face (8) is formed on the core (3) and the other (9) between the core (3) and the permanent magnet (6) at the end of the region (5) of the magnet yoke (1) surrounding it and the bearing (12) on the side of the permanent magnet (6) away from the pole faces (8, 9) are formed on the surrounding region (5) of the magnet yoke (1).

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