

Title (en)

Reversing spring contact switching mechanism and thermal overload relay

Title (de)

Schaltmechanismus mit reversierendem Federspannungskontakt und thermisches Überlastrelais

Title (fr)

Mécanisme commutateur à contact de ressort réversible et relais thermique de surcharge

Publication

EP 0809270 A2 19971126 (EN)

Application

EP 97108306 A 19970522

Priority

- JP 12617196 A 19960522
- JP 26820896 A 19961009

Abstract (en)

A reversing spring contact switching mechanism (6) comprises: a single member reversing plate spring (7) in which a lateral pair of outer leg pieces (7a) and a central leg piece (7b) are formed, the central leg piece having a bent spring section (7c) therein; a supporting arm (8) for rollably supporting the tip edges of the outer leg pieces; a supporting arm 9 for applying tensile force to the spring section of the central leg piece while engaging and fixing the tip edge of the central leg piece; a normally closed contact (4a, 11); and a normally open contact (4b, 12). In a thermal overload relay combining this reversing spring contact switching mechanism (6) with a bimetal heat element 2 that responds to an overload current through a main circuit the displacement of a bimetal (2a) of the heat element (2) caused by an overload current is transmitted to the plate spring (7) via a shifter (2c) and a releasing lever (5) to cause the spring to be reversed in order to switch the contacts. <IMAGE>

IPC 1-7

H01H 71/16

IPC 8 full level

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CPC (source: EP)

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Cited by

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