

Title (en)

Contact system for a current limiting circuit breaker.

Title (de)

Kontaktsystem für strombegrenzende Leistungsschalter.

Title (fr)

Système de contact pour un disjoncteur limitant le courant.

Publication

EP 0380012 B1 19940518 (DE)

Application

EP 90101176 A 19900122

Priority

DE 3901852 A 19890123

Abstract (en)

[origin: EP0380012A1] In known contact systems for current-limiting circuit breakers, with two moving switching arms in each case per phase, the lower switching arm is connected to the current path by means of a braided cable and, in the event of a short-circuit, pivots against the movement direction of the upper switching arm, which is coupled to the latching mechanism. As a result of the dynamic deflection of the two switching arms in the event of a short-circuit, the arc between the contact pieces is admittedly additionally extended and extinguished more quickly, but the braided cable for the current supply just forms a weak point on the lower switching arm to the extent that the welded attachment of the braided cable to the switching arm is mechanically very highly loaded by the impact-like deflection in the event of a short-circuit. The braided cable can be dispensed with in that the second moving switching arm (3) is held by means of journals (8), directed coaxially to the side, in open, approximately half-cylindrical bearing recesses (9) in pivotably sprung contact on the underside (10) of the current path (6). The moving switching arm (3) additionally has stop tabs (20), which are offset in a parallel manner with respect to the free end of the current path (6), opposite the journals (8), which stop tabs (20) rest on the upper side of the current path (6) when the switching arm (3) is in the switched-on position and secure the spring-loaded switching arm (3) together with the journals (8) on the current path (6) in its switched-on position. <IMAGE>

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