

Abstract

Switchgear unit for switching high DC voltages

The invention relates to a switchgear unit (1) for switching high DC voltages, particularly for interrupting of direct current between a direct current source (2) and an electrical device (3). The switchgear unit (1) comprises two connections (11, 12) which project from a housing (10) and which are electrically conductively coupled by means of a conductor path (22), a contact system (7) which is arranged between the first and second connections (11, 12) and also an isolating apparatus (27, 27') which can be tripped by means of a thermal fuse (8). The thermal fuse (8) comprises a melting location (19) which is arranged in the conductor path (22) and which is connected firstly to the contact system (7) and secondly via a moving conductor section (20) to the first connection (12). The isolating apparatus (27, 27') is tripped and the connection between the conductor section (20) and the contact system (7) is broken at the melting location (19) when an arc (26) produced when the contact system (7) is opened has caused the melting temperature of the melting location (19) to be reached or exceeded.

Fig. 2