

Title (en)

VOLTAGE LIMITER WITH A SHORT-CIRCUITING DEVICE

Title (de)

SPANNUNGSBEGRENZER MIT KURZSCHLUSSVORRICHTUNG

Title (fr)

LIMITEUR DE TENSION AVEC DISPOSITIF DE COURT-CIRCUITAGE

Publication

**EP 3782245 A1 20210224 (EN)**

Application

**EP 18732880 A 20180514**

Priority

IB 2018053354 W 20180514

Abstract (en)

[origin: WO2019220171A1] The limiter comprises a cylinder-shaped housing (1) with an inner cavity, provided with terminals (2) on the opposing sides leading out of the housing (1) and electrically connected to the protection element (3). The short-circuiting device consists of fixed and movable parts. The fixed part of the short-circuiting device features a cylinder-shaped electrically-conductive contact (4), situated in the cavity of the housing (1). One surface of the contact (4) adjoins one terminal (2) and its second surface leans against one surface of the protection element (3). The second surface of the protection element (3) contacts the second terminal (2). A moving part is slipped over the contact (4) with the moving part consisting of an electrically-conductive short-circuiting element (5), which is connected on the contact surface (9) via a fusible element (7) to the contact (4). The short-circuiting element (5) is provided with a stopper (5A) at its upper end, against which a pre-stressed spring (6) slipped over the short-circuiting element (5) leans with its upper end. The spring (6) loads the terminal (2) with its bottom end. The short-circuiting element (5) is geometrically adjusted to bridge the distance between the short-circuiting element (5) and the terminal (2) in case of thermal or surge current overload.

IPC 8 full level

**H01T 1/14** (2006.01); **H01C 7/12** (2006.01); **H01H 37/76** (2006.01); **H01T 4/10** (2006.01)

CPC (source: EP)

**H01C 7/126** (2013.01); **H01T 1/14** (2013.01); **H01T 4/10** (2013.01); **H01H 37/767** (2013.01)

Citation (search report)

See references of WO 2019220171A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2019220171 A1 20191121**; EP 3782245 A1 20210224; ZA 202006537 B 20220928

DOCDB simple family (application)

**IB 2018053354 W 20180514**; EP 18732880 A 20180514; ZA 202006537 A 20201021