

Title (en)

Switch assembly for a medium or high voltage switchgear, comprising a three-position switch

Title (de)

Schaltungsanordnung für eine Mittelspannungs- oder Hochspannungs-Schaltanlage mit einem Dreistellungsschalter

Title (fr)

Ensemble de commutateur pour installation de commutation moyenne ou haute tension, comprenant un interrupteur à trois positions

Publication

EP 2728600 B1 20180221 (EN)

Application

EP 12007455 A 20121031

Priority

EP 12007455 A 20121031

Abstract (en)

[origin: EP2728600A1] The invention relates to a switch assembly (1) for a medium or high voltage switchgear, comprising a three-position switch (2) with a movable contact piece (3) which can be brought by an electrical motor (4) into three different positions, namely: - a switched-on position (5), which connects the movable contact piece (3) to an isolator contact (6), - an earthing position (7), which connects the movable contact piece (3) to an earth contact (8), and - a disconnected position (9), which is arranged between switched-on position (5) and the earthing position (7), wherein two types of means for generating electrical signals for position indication are arranged at the three-position switch (2), whereof one type is a precise linear operating micro switch (10) generating a discontinuous electrical signal and the other type is a less precise auxiliary switch (11) generating a continuous electrical signal, wherein the electrical signals are transmitted to a control unit (12) for controlling the electrical motor (4), comprising an electrical indication unit (13) for indicating the actual position of the movable contact piece (3), wherein a first micro switch (10a) is coupled to the moving drive of the movable contact piece for detecting the switched-on position (5) and a second micro switch (10b) is coupled to the moving drive of the movable contact piece for detecting the earthing position (7), and two pairs of micro switches (10c, 10d) and auxiliary switches (11a, 11b) are coupled to the moving drive of the movable contact piece for detecting the disconnected position (9), wherein each auxiliary switch (11a, 11b) is both in parallel and/or in series connected to each micro switch (10c, 10d).

IPC 8 full level

H01H 3/30 (2006.01); **H01H 9/16** (2006.01)

CPC (source: CN EP)

H01H 3/3047 (2013.01 - CN EP); **H01H 9/16** (2013.01 - CN EP)

Cited by

CN113675030A; CN109148176A; US11776775B2; WO2020019335A1

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

DOCDB simple family (publication)

EP 2728600 A1 20140507; **EP 2728600 B1 20180221**; CN 104823256 A 20150805; CN 104823256 B 20170811; WO 2014067643 A1 20140508

DOCDB simple family (application)

EP 12007455 A 20121031; CN 201380057507 A 20131028; EP 2013003236 W 20131028