

Title (en)
SHORT CIRCUIT DETECTION IN PARALLELED HALF-BRIDGE MODULES

Title (de)
KURZSCHLUSSDETEKTION IN PARALLEL GESCHALTETEN HALBBRÜCKENMODULEN

Title (fr)
DéTECTION DE COURT-CIRCUIT DANS DES MODULES DEMI-PONT PARALLÈLES

Publication
EP 3610565 A1 20200219 (EN)

Application
EP 18717384 A 20180418

Priority
• EP 17167293 A 20170420
• EP 2018059963 W 20180418

Abstract (en)
[origin: WO2018193003A1] A converter device (26) comprises at least two half-bridge modules (10), each half-bridge module (10) comprising two semiconductor switches (12, 14) connected in series between a DC+ output (16) and a DC- output (18) and providing an AC output (20) between them; wherein the half-bridge modules (10) are connected in parallel with each other, such that the DC+ outputs (16) are connected with each other, the DC- outputs (18) are connected with each other and the AC outputs (20) are connected with each other; and wherein at least one of the half-bridge modules (10) comprises a current sensor (30) adapted for detecting a differential current signal (32) of a differential current between the DC + output (16) and the DC- output (18), the differential current being a difference between a current into the DC+ output (16) and a current out of the DC- output (18).

IPC 8 full level
H02M 1/38 (2007.01); **H02M 1/32** (2007.01)

CPC (source: EP)
H02M 1/32 (2013.01); **H02M 1/38** (2013.01); **H02M 1/0009** (2021.05)

Citation (search report)
See references of WO 2018193003A1

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 2018193003 A1 20181025; EP 3610565 A1 20200219

DOCDB simple family (application)
EP 2018059963 W 20180418; EP 18717384 A 20180418