

Title (en)

SYSTEM FOR DESIGNING A LOW-VOLTAGE DISTRIBUTION NETWORK AT A SECONDARY UNIT SUBSTATION

Title (de)

SYSTEM ZUR AUSLEGUNG EINES NIEDERSpannungs-VERTEILNETZES AN EINER ORTSNETZSTATION

Title (fr)

SYSTÈME DE DIMENSIONNEMENT D'UN RÉSEAU DE DISTRIBUTION BASSE TENSION SUR UNE STATION RÉSEAU LOCAL

Publication

**EP 3959795 A1 20220302 (DE)**

Application

**EP 20719615 A 20200416**

Priority

- DE 202019102368 U 20190426
- EP 2020060665 W 20200416

Abstract (en)

[origin: WO2020216667A1] The invention relates to a system, comprising a controller (100), comprising a 3-phase measurement sensor (201, 202, 203, 204), the 3-phase measurement sensor (201, 202, 203, 204) being connected to a low-voltage feeder (11, 12, 13, 14) of a secondary unit substation, at least for current measurement, and a distribution network (20) with generators (E1) and/or consumers (V1, V2) being connected to the low-voltage feeder (11, 12, 13, 14). The controller (100) and the 3-phase measurement sensor (201, 202, 203, 204) are arranged in the secondary unit substation (10). The controller (100) has a data interface (120) for detecting electrical measurement values (M) of the connected 3-phase measurement sensor (201, 202, 203, 204) with associated timestamp (ts). The controller (100) has a communications interface (110) for connection to a higher-level unit (910, 920, 930) outside the secondary unit substation (10). The controller (100) has, in a local memory (130), a first memory area (131) for storing the measurement values (M) with associated timestamp (ts).

IPC 8 full level

**H02J 13/00** (2006.01); **H02J 3/00** (2006.01)

CPC (source: EP US)

**G05B 17/02** (2013.01 - US); **H02J 13/00001** (2020.01 - EP); **H02J 13/00002** (2020.01 - EP US); **H02J 13/00016** (2020.01 - EP); **H02J 13/00028** (2020.01 - EP); **H02J 13/00034** (2020.01 - US); **H04L 41/12** (2013.01 - EP US); **G06F 3/04815** (2013.01 - US); **G06F 3/04842** (2013.01 - US); **Y02B 90/20** (2013.01 - EP); **Y02E 60/00** (2013.01 - EP); **Y04S 10/16** (2013.01 - EP); **Y04S 10/30** (2013.01 - EP); **Y04S 10/40** (2013.01 - EP); **Y04S 40/124** (2013.01 - EP)

Citation (search report)

See references of WO 2020216667A1

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)

**DE 202019102368 U1 20200728**; CN 113767547 A 20211207; EP 3959795 A1 20220302; US 2022052552 A1 20220217; WO 2020216667 A1 20201029

DOCDB simple family (application)

**DE 202019102368 U 20190426**; CN 202080031351 A 20200416; EP 2020060665 W 20200416; EP 20719615 A 20200416; US 202117511212 A 20211026