

Title (en)

METHOD AND CURRENT MEASURING DEVICE FOR DETECTING CURRENT WITHDRAWALS OR CURRENT FEEDS IN A LOW-VOLTAGE ELECTRICAL DISTRIBUTION SYSTEM

Title (de)

VERFAHREN UND STROMMESSEINRICHTUNG ZUR ERKENNUNG VON STROMENTNAHMEN ODER STROMEINSPEISUNGEN IN EINEM ELEKTRISCHEN NIEDERSpannungsVERTEILNETZ

Title (fr)

PROCÉDÉ ET DISPOSITIF DE MESURE DE COURANT POUR IDENTIFIER DES PRÉLÈVEMENTS DE COURANT OU DES ARRIVÉES DE COURANT DANS UN RÉSEAU DE DISTRIBUTION BASSE TENSION ÉLECTRIQUE

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Application

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Priority

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Abstract (en)

[origin: WO2012139655A2] In order to specify a method for detecting current withdrawals from or current feeds to a part (10, 20) of a low-voltage electrical distribution system which enables the user of an electrical energy distribution system to detect and localize comparatively accurately previously unknown current withdrawals or feeds, a method is proposed in which a first and at least one further active current value, which specify the active current flowing in each case at a measurement point (12a, 12b, 12c) of the low-voltage distribution system, are recorded by means of an associated current measuring device (11a, 11b, 11c), wherein a part (10, 20), which is assumed to be load-free and source-free, of the low-voltage distribution system is isolated by the current measuring devices (11a, 11b, 11c). The active current values are transmitted to a central device (15), which forms an active current sum, taking into consideration the associated current flow direction, and forms a withdrawal information item, which specifies a current withdrawal from the part (10, 20) of the low-voltage distribution system, or a feed information item, which specifies a current feed to the part (10, 20) of the low-voltage distribution system, when the discrepancy between the active current sum and the value zero exceeds a predetermined active current threshold value. The invention also relates to a corresponding current measuring device.

IPC 8 full level

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