

Title (en)
METHOD AND DEVICE FOR PERMANENT CURRENT MEASUREMENT IN THE CABLE DISTRIBUTION CABINETS OF THE 230V/400V NETWORK LEVEL

Title (de)
VERFAHREN UND VORRICHTUNG FÜR DIE PERMANENTE STROMMESSUNG IN DEN KABEL-VERTEILKABINEN DER 230V/400V NETZEBENE

Title (fr)
PROCÉDÉ ET DISPOSITIF DE MESURE PERMANENTE D'INTENSITÉ DANS LES POSTES DE DISTRIBUTION DU RÉSEAU 230/400 V

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Application
EP 15724179 A 20150319

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• EP 2015055739 W 20150319

Abstract (en)
[origin: WO2015144541A2] The invention relates to a method for permanent, contactless measuring of current strengths on a single conductor or multi-conductor sheathing (6), wherein a) a collar is created around the sheathing (6) such that the collar encloses the sheathing (6) together with the interior conductors (7) thereof, and a plurality of magnetic field sensors (8) are arranged and aligned in said collar, distributed around the circumference thereof, b) the magnetic fields generated due to the current flowing in the enclosed, insulated conductors (7) are measured by the magnetic field sensors (8) and detected as electronic data, c) the effective flowing current strengths in the individual, sheathed conductors are calculated by means of previously, empirically determined algorithms for mathematical description of the relation between current strengths in individual conductors of a conductor bundle and the magnetic fields generated thereby, d) the determined current strengths are forwarded to a server as a data basis for the management of current distribution networks. The device for carrying out the method includes a fastenable collar in which a plurality of magnetic field sensors (8) is arranged over the circumference thereof.

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