

Title (en)

METHOD AND APPARATUS FOR CURRENT MEASUREMENT IN AN IN PARTICULAR POLYPHASE ELECTRICAL SYSTEM

Title (de)

VERFAHREN UND VORRICHTUNG ZUR STROMMESSUNG IN EINEM INSBESONDERE MEHRPHASIGEN STROMNETZ

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR LA MESURE DU COURANT DANS UN RÉSEAU EN PARTICULIER POLYPHASÉ

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Application

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Abstract (en)

[origin: WO2008055741A1] The invention relates to a method for current measurement in an in particular polyphase electrical system, in which an electrical load (5) is energized as desired by at least one controllable switching element and a control unit produces drive signals which act on the at least one controllable switching element (4) in order to achieve the desired energization of the load (5), wherein clock patterns of the drive signals are associated with measurement windows for current measurement, in particular for measuring phase currents, and clock patterns are temporally offset in order to obtain measurement windows with a sufficient temporal length, wherein a minimum temporal shift comprises the sum of a minimum dead time of the switching element (4), a minimum settling time of the measuring amplifier circuit (12) and a minimum sampling time of the analogue-to-digital converter (11). The invention furthermore provides that the clock patterns are selected taking into consideration a phase selection for the current measurement. Provision may be made for the clock patterns to be selected taking into consideration the instantaneous rotary angle position of the phase vector. In addition, a corresponding apparatus is specified.

IPC 8 full level

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