

Title (en)
PHASE CURRENT MEASUREMENT MODULE FOR AN ELECTRICAL COUNTER, PROVIDED WITH A CURRENT CUT-OFF FUNCTION

Title (de)
PHASENSTROMMESSMODUL FÜR EINEN STROMZÄHLER MIT EINER STROMABSCHALTFUNKTION

Title (fr)
MODULE DE MESURE DE COURANT DE PHASE POUR COMPTEUR ELECTRIQUE, DOTE D'UNE FONCTION DE COUPURE DE COURANT

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Application
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Abstract (en)
[origin: WO2011083223A1] The invention relates to a phase current measurement module for an electrical counter, comprising at least one current measurement sensor (Ci) comprising a conductor (1) designed to conduct the phase current to be measured between an input (E) and an output (S) of the counter, provided according to the invention with phase-current switching means (2-4) in series between the metal conductor (1) and the output (S), comprising a bistable electromechanical control member (2) with a coil (20), a stator (21, 22), a rotor (23) that can move about an axis, and an actuator (25) rotationally linked to the axis, the actuator (25) being able to move between two stable extreme angular positions corresponding respectively to an open position and a closed position of the switching means (2-4); and a set of two parallel resilient metal blades (3, 4) fixed symmetrically on either side of a first plane portion (10) electrically connected to the metal conductor (1), each free end of the two blades (3, 4) bearing a metal contact each intended, under the action of said control member (2) to rock between the open position and the closed position of the switching means so as to come simultaneously into contact with or to move simultaneously away from two contact pads placed symmetrically on either side of a second plane portion (5) electrically connected to the output (S) of the counter and lying in the same plane as the first plane portion (10). The axis of the rotor lies orthogonally to the two blades (3, 4) and the actuator (25) is placed between the two blades (3, 4) so as to cause, depending on the angular position occupied by the actuator (25), the free ends of the two blades (3, 4) to move further apart or closer together.

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