

Title (en)

METHOD AND CIRCUIT FOR AMPLIFYING THE INPUT SIGNALS OF AN ELECTRONIC OVERCURRENT RELEASE OF LOW-VOLTAGE CIRCUIT BREAKERS WITH A SELECTABLE AMPLIFICATION FACTOR

Title (de)

VERFAHREN UND SCHALTUNGSANORDNUNG ZUR VERSTÄRKUNG DER EINGANGSSIGNALE EINES ELEKTRONISCHEN ÜBERSTROMAUSLÖSERS VON NIEDERSpannungs-LEISTUNGSSCHALTERN MIT WÄHLBAREM VERSTÄRKUNGSGRAD

Title (fr)

PROCEDE ET CIRCUIT POUR AMPLIFIER LES SIGNAUX D'ENTREE D'UN DISCONTACTEUR ELECTRONIQUE DE DISJONCTEURS BASSE TENSION A DEGRE D'AMPLIFICATION SELECTIONNABLE

Publication

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Application

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Priority

- EP 2005055880 W 20051110
- DE 102004058763 A 20041130

Abstract (en)

[origin: WO2006058823A1] The invention relates to a method and a circuit for amplifying the input signals of an electronic overcurrent release of low-voltage circuit breakers with a selectable amplification factor, said electronic overcurrent release comprising at least one integrating condenser on the input side, and at least one pre-amplifier and a microprocessor. According to the invention, a resistance is coupled to a switch in series, parallel to an integrating condenser, and the switch is switched by means of the microprocessor in a pulsewidth-modulated manner. In this way, the effectively active resistance value of the inserted resistances is inversely increased proportionally to the pulsewidth repetition rate, thus obtaining an extremely wide regulating range.

IPC 8 full level

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