Capacitor current detection

Over the past several years, electromagnetic transients programme simulations have been typically presented in several papers with respect to the capacitor switching ...

The HCIS shown in Figure 1 is composed of the reference signal generator, harmonic detection module and current controller, transformer, tested capacitor, and switch ...

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An accurate inrush current detection method should have the following features: (i) correct detection despite CT saturation, (ii) distinguish between internal fault and inrush ...

The experiment setup used to verify the proposed techniques can be detected and classified the transient inrush current from normal capacitor rated current. The discrete wavelet transforms are ...

The HCIS shown in Figure 1 is composed of the reference signal generator, harmonic detection module and current controller, transformer, tested capacitor, and switch mode power amplifier. The fundamental and ...

This article proposes a new grid impedance detection method incorporating the complex coefficient filter (CCF) with full-order capacitor current observer for a T-type three-level grid-connected inverter controlled by the inverter output current feedback. Compared with conventional CCF impedance detection algorithms, the proposed method reduces the number of current ...

Fig. 2. The diode current corresponds to the discharging current of the inductor. This paper focuses on the zero-current detector with fast transient mechanism when the output current suddenly changes from heavy to light loads. The proposed fast transient zero current detector technique and circuit implementation are described in Section II.

detection using a dynamic reference model ISSN 1751-8822 Received on 9th December 2019 Revised 21st May 2020 Accepted on 8th July 2020 ... of the DC-link capacitor voltage and capacitor current. An online technique for calculation of ESR and capacitance of the capacitor in the buck converters has been presented in [19]. The calculation

In this paper, we propose a weak current detection circuit with a low drop regulator (LDO) for electrochemical sensors. Conventional TIA has a high input bias current, which is a negative factor affecting detection accuracy in low speed applications [21, 22].We utilized an input bias current elimination technique to reduce

input bias current to fA level.

To enhance reliability in power systems, the development of detection and localization methods for power switching device failures has received significant attention. These methods can be divided into two main categories: the measured electrical value-based approach and the model-based approach. ... The capacitor current of HB 1 and HB 2 ...

This paper proposes a novel dc series arc fault detection and localization method in PV systems using parallel capacitors, which can detect the variation of the current with high sensitivity as only the high frequency components of the arc current can pass through the capacitors. The amplitude and the spectrum of capacitor currents for dc ...

The FB (feedback signal input) pin monitors the secondary-side output voltage, via a photocoupler, to enable regulation control. The ZT (zero current detection) pin detects, from the VCC windings, the fact that the ...

The proposed method considers an average of the capacitor current as a detection parameter. An iteration-based isolation configuration is also suggested for a zonal type of distributed network ...

The derivative of the capacitor current is captured by the PCBRC. The captured signal contains suitable signatures for detection of switch open-circuit and short-circuit faults. In addition to switch fault detection, lifetime of the converter capacitor is also monitored by the PCBRC via calculation of the capacitor equivalent series resistance ...

In addition, Patcharoen and Ngaopitakkul [24] implemented DWT for detection and discrimination of capacitor switching and inrush current under various conditions. Furthermore, the authors in ref ...

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