Relay protection DSP

This paper presents a relay protection device, which is based on the DSP technique. Because of high-speed and high performance of the DSP processor, the complicated filter and analysis algorithm can ...

Thus, various protective devices are used to protect the power system, of which digital signal processor (DSP) numerical relays are capable of significantly improve protection operations.

Advancements in digital technology have allowed relay manufacturers to include more and more relay functions within a single hardware platform. This paper presents digital power system protection ...

In this paper, a microcomputer protection device based on the TMS320F28335 chip is developed. Considering the anti-interference of field use, detailed hardware and software design is ...

In this paper, an overcurrent relay is built and investigated using DSP, TMS320F2812. The overcurrent protection is chosen since it is used as a major protection in the distribution ...

This miniature high power relay has a minimum creepage and clearance distance of 3.5mm, and is available with various different contact arrangements. DSP series devices are 8A power relays that ...

In this paper, a microcomputer protection device based on the TMS320F28335 chip is developed. Considering the anti-interference of field use, ...

It is aimed to protect a motor against a trouble which is happened from over/under load ,locked rotor, stall , voltage (power type)/current unbalance, phase loss, reverse phase, short circuit, ...

In this paper, three phase transmission power system with three different protective schemes such as over current relay, over and under voltage relay and over and under frequency relay is developed ...

In this paper, an overcurrent relay is built and investigated using DSP, TMS320F2812. The overcurrent protection is chosen since it is used as a major ...

These relays are capable of performing complex processing faster and with higher accuracy as DSP is optimized for real-time signal processing.

A signal acquisition device for relay protection tester based on DSP technology is developed to verify whether the performance indicators of the relay protection tester meet the design requirements.

This paper is aimed at proposing a multifunction numerical relay (MNR) for protection against over-current,

over- and under-voltage and over- and under-frequency.

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