

# Relay protection floating-point numbers

In North America protective relays are generally referred to by standard device numbers. Letters are sometimes added to specify the application (IEEE Standard C37.2-2008).

This document lists standard device numbers for protective relays used in North America according to ANSI/IEEE Standard C37.2-2008. The numbers are used to refer to different types of relays with ...

In the design of electrical power systems, the ANSI Standard Device Numbers (ANSI /IEEE Standard C37.2) denote what features a protective device supports (such as a relay or circuit breaker).

This article will explain the basics of the relay numbers used to design a relay's functionality.

To assist the Protection Engineer in converting from one system to the other, a select list of ANSI device numbers and their IEC equivalents are given in the following figure.

This table details ANSI IEEE Standard Device Numbers as used for protective relaying in North America. Suffixes for numbers are also suggested.

In electric power systems and industrial automation, ANSI Device Numbers can be used to identify equipment and devices in a system such as relays, circuit breakers, or instruments.

ANSI Standard Device Numbers & Common Acronyms

Protective relays are commonly referred to by standard device numbers. For example, a time overcurrent relay is designated a 51 device, while an instantaneous overcurrent is a 50 device.

Protective relays and devices have been developed over 100 years ago to provide "lastline" of defense for the electrical systems. They are intended to quickly identify a fault and isolate it so the balance of ...

The protection and control devices in electrical equipment can be referred to by numbers, with appropriate suffix letters when necessary, according to the functions they perform.

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