# How to count the number of relay protection units

## Overview

The ANSI/IEEE device numbering system provides a standardized language for identifying protective relays, controls, and other devices across the industry. Letters are sometimes added to specify the application (IEEE Standard C37. ANSI IEEE Standard Device Numbers are below: (the more commonly used ones are in bold) 86T is a Lockout Relay for a. 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. 2 Standard for Electrical Power System Device Function. The widely used United Sates standard ANSI/IEEE C37. These numbers are based on a system that is adopted by a standard for automatic switchgear by Institute of Electrical. In the design of electrical power systems, the ANSI Standard Device Numbers denote what features a protective device supports (such as a relay or circuit breaker). Why use numbers instead of words?

Efficiency.

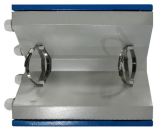
## How to count the number of relay protection units

Protective relays are designed by using standard device numbers to describe its functionality. Instead of verbal descriptions, we use numbers to describe the functions of a relay.

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. The device numbers are enumerated in ANSI/IEEE Standard C37.2 Standard for Electrical Power System Device Function Numbers, Acronyms, and Contact Designations. Many of these devices protect electrical systems and individual system components from damage whe...

For protection engineers, a thorough understanding of this numbering system is essential for effective communication, proper relay configuration, and coordinated protection design.

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.



ANSI Standard Device Numbers & Common Acronyms ANSI Standard Device Numbers & Common Acronyms

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.

Most commonly used Device Numbers, Suffixes, & Acronyms in Advanced Power Technologies (APT) Power Distribution Protection Engineering & Switchgear/Switchboard relaying applications are in bold.

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

Relaying and protection is critical in modern power systems. Learn the fundamentals and common schemes used to keep your system safe.

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.

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

## Contact Us

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