

Relay protection ANSI code

Article Overview

ANSI codes are standardized designations used to identify the functions of protective relays in electrical systems, facilitating the design and implementation of protection schemes.

Overview of ANSI Codes

ANSI (American National Standards Institute) device numbers are used to specify the functions of protective devices such as relays and circuit breakers. These codes help engineers and technicians understand the capabilities and functions of various protective devices in electrical systems. The ANSI/IEEE C37.2 standard outlines these device numbers and their meanings.

Common ANSI Device Codes

Here are some widely used ANSI codes related to relay protection:

- Overcurrent Protection:
 - 50: Instantaneous Overcurrent Relay
 - 51: Time Overcurrent Relay
- Earth Fault Protection:
 - 50N/51N: Earth Fault Relay
 - 50G/51G: Ground Fault Relay
- Voltage Protection:
 - 27: Undervoltage Relay...

Article Content

Feb 11, 2026

ANSI (IEEE) Protective Device Numbering

The widely used United States standard ANSI/IEEE C37.2 "Electrical Power System Device Function Numbers,

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ANSI Device Numbers List | Electrical Engineering

Comprehensive list of ANSI device numbers used in electrical protection systems. Learn about relay and circuit

Mar 01, 2026

Protection and Control Device Numbers and Functions

Description The protection and control devices in electrical equipment can be referred to by numbers, with appropriate suffix letters

Aug 19, 2025

ANSI/IEEE Relay Protection Codes

This document lists ANSI/IEEE protection codes that are used to identify different types of protective relay devices and monitoring

Jul 12, 2026

ANSI Relay Protection Codes Overview

The document lists codes and acronyms used for electrical relay protection devices. Codes 1-99 are assigned to various relay

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A Guide to ANSI/IEEE Function Numbers

According to the ANSI/IEEE standards, device function numbers are crucial identifiers in power system protection and

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ANSI Codes for Relay Protection

The document lists various ANSI codes for relay protection devices including: time delay relays, distance protection, check

Oct 05, 2025

ANSI codes and IEC Relay Symbols – Electrical Engineering

To assist the Protection Engineer in converting from one system to the other, a select list of ANSI device numbers and their IEC

Apr 25, 2026

What Are ANSI Relay Numbers? The Complete C37.2 Code List

Understanding power system protection requires familiarity with ANSI standard relay numbers. These codes, detailed

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ANSI Device Codes and Functions | PDF | Relay

This document contains a list of 96 numerical codes and their corresponding relay or protective device types. The codes range from

Nov 13, 2025

Decoding ANSI Codes for Protection Relays

ANSI Codes specify the functions and features of protection relays and allow engineers and technicians to design

Nov 05, 2025

Table of ANSI IEEE Standard Device Numbers

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

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ANSI Codes for Relay Protection

701-RELAY-ANSI-CODE - Free download as Word Doc (.doc / .docx), PDF File (.pdf), Text File (.txt) or read online for free. The

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ANSI Relay Codes and Protection Types

This document lists various types of relay codes used for protection and control in electrical systems. Some of the relay codes listed

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Relaying Schemes and ANSI Device Numbers

Instantaneous Overcurrent (ANSI Number 50): Instantaneous overcurrent is the simplest of protection schemes. When

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ANSI Codes for Protection Devices | PDF | Relay | Switch

This document lists ANSI device numbers and acronyms for protection devices used in power systems. It provides a table with two

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University of Idaho

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

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ANSI codes and IEC Relay Symbols - Electrical Engineering

There are two methods for indicating protection relay functions in common use. One is given in ANSI Standard and uses a

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ANSI CODES FOR PROTECTION FUNCTIONS

The ANSI(American National Standards Institute) has standardized the codes to be used for protection relays. Each protective

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ANSI Relay Protection Code List | PDF | Relay | Detector (Radio)

This document lists 57 ANSI codes and their corresponding descriptions of protection devices and functions.

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ANSI device numbers

In electric power systems and industrial automation, ANSI Device Numbers can be used to identify equipment and devices in a

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ANSI/IEEE Schutzcodes (Relay Codes)

Übersicht der ANSI/IEEE-Gerätefunktionsnummern für Schutzrelais und Steuergeräte.

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ANSI Codes for Protective Relays | PDF | Relay | Switch

1. Protective relays are commonly referred to by standard device numbers, such as a 51 for a time overcurrent relay or a 50 for an

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Protection Relay : Circuit, Working, Types, Codes & Its Uses

The protection relay ANSI codes within the design of the power system indicate what features a protecting device

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ANSI Protection Relay Codes List

ANSI Codes for Protection Functions - Free download as PDF File (.pdf), Text File (.txt) or read online for free. This document lists

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Protection Relays Numbering (ANSI) | PDF

This document lists standard electrical power system device function numbers from ANSI C37.2. It includes 99 device functions

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ANSI Standard Device Numbers & Common Acronyms

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

Jan 02, 2026

A quick guide for ANSI relay protection codes

Sometimes you can name them all in a heartbeat. Sometimes, you scratch your head to remember what is what. In this

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Protection Relay - ANSI Standards

ANSI device numbers In the design of electrical power systems, the ANSI Standard Device Numbers denote what

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ANSI Codes for Protection Relays | PDF | Relay | Switch

The ANSI has standardized codes for protective relay functions, with each function assigned a specific number. Some common

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Protection Relay

In the design of electrical power systems, the ANSI Standard Device Numbers denote what features a protective

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List of Codeslist of ANSI codes - Free download as PDF File (.pdf), Text File (.txt) or read online for free. The document lists 99

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ANSI Device Numbers and Acronyms

The ANSI standard device numbers (As per ANSI/IEEE standard C37.2) are used in the design of an electrical power

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Protective relays

Protective relays A special type of relay is one which monitors the current, voltage, frequency, or any other type of electric power

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://iiss.co.za>

Email: sales@iiss.co.za

Phone: +27 63 174 2895

Address: Unit 8, Innovation Park, 15 Rivonia Road, Sandton, Johannesburg,
2196, South Africa

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