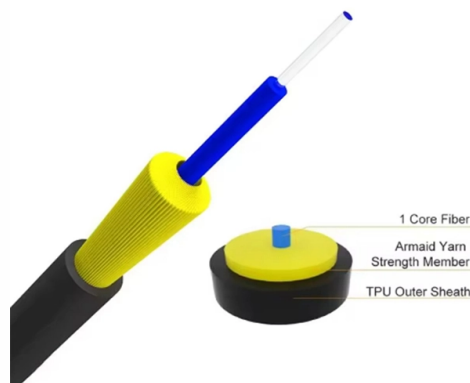


Numerical codes for relay protection types



Overview

A suffix letter or number may be used with the device number; for example, suffix N is used if the device is connected to a Neutral wire (example: 59N in a relay is used for protection against Neutral Displacement); and suffixes X, Y, Z are used for auxiliary devices. Similarly, the "G" suffix can denote a "ground", hence a "51G" is a time overcurrent ground relay. The "G" suffix can also mean "generator", hence an "87G" is a Generator Differential Protective Relay while an "87T" is a Transformer Differential.

AI Overview

Numerical relay protection codes, specifically ANSI device numbers, are standardized codes used to identify the functions of protective relays in electrical systems. Overview of ANSI Device Numbers ANSI device numbers are part of the ANSI/IEEE Standard C37.2, which categorizes various protective functions performed by relays and other devices in electrical power systems. These codes help in identifying the specific protective functions that a relay can perform, ensuring clarity and consistency in documentation and communication among engineers and technicians. Common ANSI Device Numbers and Their Functions Here are some commonly used ANSI device numbers along with their functions: 51: Overcurrent Relay - Protects against excessive current flow. 50: Instantaneous Overcurrent Relay - Triggers immediately upon detecting overcurrent. 59: Overvoltage Relay - Protects against excessive voltage levels. 87: Differential Relay - Used for transformer and generator protection by comparing input and output currents. 86: Lockout Relay - Prevents operation of equipment under fault conditions. 27: Undervoltage Relay - Pr...

Article Content

[ANSI Relay Protection Codes Overview | PDF | Relay | Switch](#)

This document lists 99 protective device numbers (ANSI codes) along with their corresponding device names. The codes are used to identify different types of protective relays and devices used in power

[ANSI \(IEEE\) Protective Device Numbering](#)

The widely used United States standard ANSI/IEEE C37.2 "Electrical Power System Device Function Numbers, Acronyms, and Contact Designations" deals with protective device

[ANSI device numbers](#)

A suffix letter or number may be used with the device number; for example, suffix N is used if the device is connected to a Neutral wire (example: 59N in a relay is used for protection against Neutral Displacement); and suffixes X, Y, Z are used for auxiliary devices. Similarly, the "G" suffix can denote a "ground", hence a "51G" is a time overcurrent ground relay. The "G" suffix can also mean "generator", hence an "87G" is a Generator Differential Protective Relay while an "87T" is a Transformer Differential

[ANSI Relay Codes and Protection Types | PDF](#)

This document lists various types of relay codes used for protection and control in electrical systems. Some of the relay codes listed include 27 for undervoltage protection, 50 for instantaneous

[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 equipment. There are over 100 codes listed ranging from 1 to 99 for

[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 when necessary, according to the functions they perform.

[Protection Relay](#)

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

[Intro to Relays #2](#)

Intro to Relays #1 – What are Relays, CTs, & PTs? Intro to Relays #2 – ANSI/IEEE Relay Device Numbers (below on this page) Intro to Relays #3 – What does SEL stand for? Relay

[ANSI Device Codes and Functions | PDF | Relay | Alternating Current](#)

This document contains a list of 96 numerical codes and their corresponding relay or protective device types. The codes range from 1 to 95 and include categories like master controllers, speed and

[ANSI Device Numbers for Relays | PDF | Relay | Switch](#)

Ansi Code for Protective Relay - Free download as PDF File (.pdf), Text File (.txt) or read online for free. ANSI device numbers denote the functions of protective devices like relays and circuit breakers.

[Relaying Schemes and ANSI Device Numbers](#)

Relaying and protection can be confusing-REALLY CONFUSING. Elaborate new ways to protect power systems are being invented every day. And, don't get me wrong, that's a good thing!

[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 equivalents are given in the following figure.

[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 in the IEEE C37.2 standard, offer a standardized way to identify the

[Protection Relays Numbering \(ANSI\) | PDF](#)

This document lists standard electrical power system device function numbers from ANSI C37.2. It includes 99 device functions numbered 1 through 99 with descriptions such as master element, time

[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 numbering system for various functions. The functions are supplemented by

[Protection Relays Numbering \(ANSI\) | PDF](#)

It includes 99 device functions numbered 1 through 99 with descriptions such as master element, time-delay starting or closing relay, AC time overcurrent relay, AC circuit breaker, exciter or DC generator

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ANSI Standard Device Numbers & Common Acronyms

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

A Guide to ANSI/IEEE Function Numbers

According to the ANSI/IEEE standards, device function numbers are crucial identifiers in power system protection and control engineering. These standardized numerical codes, ranging from

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 1 to 95 and include categories like master controllers, speed and

Relay Protection Device Codes List

Protective Relay Code Numbers - Free download as Word Doc (.doc / .docx), PDF File (.pdf), Text File (.txt) or read online for free. The document outlines standard device numbers for protective relays,

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 also suggested.

Protection Relay Code Overview | PDF | Relay | Transformer

This document discusses numerical codes and symbols used to define protection relays according to IEEE and IEC standards. It provides examples of common numerical codes like 21 for distance relay

Protection relay selection table

Protection relay selection table Please note before using selection table! number = Number of stages, shots, X = Function supported inputs or outputs O = Function available as option

ANSI/IEEE Relay Protection Codes Guide

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 the

To: [Customer Name]

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).

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