

IEC Relay Protection Code Table



Article Overview

IEC relay protection codes use standardized numbers and symbols to identify protective relay functions, often mapped to ANSI/IEEE device numbers for reference.

Overview of IEC Relay Codes

The International Electrotechnical Commission (IEC) defines relay functions using IEC 60617 graphical symbols and numeric codes. These codes identify the type of protection or control function a relay performs in a power system, such as overcurrent, undervoltage, or differential protection. Unlike ANSI device numbers, which are primarily numeric with optional suffix letters, IEC codes often combine numbers and symbols to represent the relay function clearly in diagrams and schematics.

Common IEC Relay Functions

Some of the widely used IEC relay protection codes include:

- 50 – Instantaneous overcurrent relay
- 51 – Time overcurrent relay
- 52 – AC circuit breaker
- 59 – Overvoltage relay
- 27 – Undervoltage relay
- 46 – Reverse phase or phase-balance current relay
- 87 – Differential protection relay

Article Content

Functions, codes and symbols

Functions included in the relays. All available functions are listed in the table. All of them may not be applicable to all products. Table 1.

Protection relay selection table

Protection relay selection table Please note before using selection table! number = Number of stages, shots, X =

ANSI (IEEE) Protective Device Numbering

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

Protection Basics

Protection System Elements Protective relays Circuit breakers CTs and VTs (instrument transformers) Communications channels

IEC 60255 Protection Relay Standards

This document provides specifications for various protection relays and their functions. It outlines the thermal ratings and operating

Relay Symbols and Device Numbers Guide

The document discusses various relay symbols and device numbers used in protective relaying based on IEC 617 and ANSI/IEEE

To: [Customer Name]

In North America protective relays are generally referred to by standard device numbers. Letters are sometimes added to specify the

ANSI/IEEE Function Number Codes

Protective relay functions are typically represented in single-line electrical diagrams as circles, with the ANSI/IEEE number code

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

Protection Relay Code / Short Name

Protection Function Code and Short Name IED = Intelligent Electronic Device DPM = Digital Power Meter DIM = Distributed I/O

ANSI Codes for Protective Relays | PDF | Relay | Switch

The document lists 99 international codes and their corresponding descriptions of protective devices used in drawings of circuits for

[ANSI/IEC Relay Symbols Comparison | PDF](#)

This document provides a comparison of relay protection function indicators using the ANSI and IEC standards. It lists various relay

Relay symbols and device numbers; selection from IEC 617-, IEEE

Differential protective relay is a protective relay that functions on a percentage, or phase angle, or other quantitative difference

[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

[Power System Protective Relays: Principles & Practices](#)

Abstract: Protective relays and devices have been developed over 100 years ago to provide “last line” of defense for the electrical

[IEC Protection Relay Codes PDF | PDF | Relay | Alternating Current](#)

IEC Protection relay Codes.pdf - Free download as PDF File (.pdf), Text File (.txt) or read online for free.

[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

Relay symbols and device numbers; selection from IEC 617-

62. time-delay stopping or opening relay is a time-delay relay that serves in conjunction with the device that initiates the shutdown,

[Protection and Control Device Numbers and Functions](#)

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

[IEC Standard For Protection Relays : Electrical](#)

The IEC standard for protection relays plays a vital role in modern electrical power systems.

[ANSI Relay Protection Code List](#)

This document lists 57 ANSI codes and their corresponding descriptions of protection devices and functions. The codes cover a wide

ANSI device numbers

Applied Protective Relaying 1979 by Westinghouse Electric Corporation, 2nd Printing, "Appendix II, Electrical Power System Device

Functions, codes and symbols

All available functions are listed in the table. All of them may not be applicable to all products. Table 1. Functions included in the

Practical handbook for relay protection engineers | EEP

Relay protection circuitry This handbook covers the code of practice in protection circuitry including standard lead and

ANSI Relay Code Reference Guide | PDF | Relay | Switch

This document contains an ANSI device reference table listing relay codes and their corresponding devices and descriptions. It

ANSI Electrical Protection Codes List

The document lists various protection functions used in power systems along with their ANSI device numbers and IEC element

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

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