

Relay protection model suffix



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. 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. 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. These numbers are based on a system that is adopted by a standard for automatic switchgear by Institute of Electrical. In North America protective relays are generally referred to by standard device numbers. 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. The widely used United States standard ANSI/IEEE C37. 2 'Electrical Power System Device Function Numbers, Acronyms, and Contact Designations' deals with protective device function numbering and acronyms. Three fundamental components required for each circuit breaker. One is given in ANSI Standard and uses a numbering system for various functions.



Article Content

Hot

ANSI/IEEE Standard Device Numbers for Power

Reference list of ANSI/IEEE standard device numbers used in power systems protection and relaying. Includes suffixes for zone protection.

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Intro to Relays #2

Protective Relays are an advanced area of electrical engineering and contracting that can be intimidating, but they don't have to be! This series of 3 articles will introduce basic relaying to the

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Transformer Protection Application Guide

Transformer Protection Application Guide This guide focuses primarily on application of protective relays for the protection of power transformers, with an emphasis on the most prevalent protection schemes

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ANSI codes and IEC Relay Symbols - Electrical

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

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DISTRIBUTION SOLUTIONS Recommended offering for medium

ABB's power protection philosophy ABB has delivered protection relays and solutions to more than 100 countries and fully understands the need for diverse protection philosophies that meet local

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ANSI Device Numbers Overview | PDF | Relay | Switch

The ANSI standard device numbers identify the functions of protective devices like relays and circuit breakers used in electrical power systems. Device numbers are

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Protective Relay Basics

Virtually any manufacturer / model relay can be used with any manufacturer / model circuit breaker. It is the responsibility of the application engineer to ensure that the relay and circuit breaker correctly

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ANSI (IEEE) Protective Device Numbering

Letters and numbers may be used as prefixes or suffixes to device function numbers to provide a more specific definition of the function. Prefixes and suffixes should, however, be used only

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Auxiliary and Lockout (86) Relays

An important type of “accessory” relay, especially for legacy electromechanical protective relays, is the so-called auxiliary or lockout relay, designated by the

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ANSI Device Numbers & Acronyms Reference Guide

Quick reference for ANSI standard device numbers, common acronyms, and suffixes used in electrical protection and control systems. Ideal for engineers.

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Comparison of Protection Relay Types

This comparison summarize characteristics of all protection relay types described in previously published technical articles:

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Jargon Busters: Understanding ANSI Device Numbers,

There's a whole cast of characters represented by these numbers, from relays and switches to protective devices and motor starters. Suffixes:

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ANSI device numbers explained

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

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ANSI Relay Device Numbers Explained | PDF | Relay

This document lists various relay symbols used in ANSI standards to identify different types of relays and devices in electrical systems. It includes common relays like

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ANSI Device Numbers List | Electrical Engineering

ANSI DEVICE NUMBERS In the design of electrical power systems, the ANSI standard device numbers identify features of a protective device such as relay or

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A quick guide for ANSI relay protection codes

In this article, I combined all the main IEEE/ANSI definitions for protection elements, possible extensions, and meanings behind them. Feel free to share and spread the knowledge.

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Basic Electrical Engineering: ANSI Device Numbers

TCM – Trip Circuit Monitor SOTF – Switch On To Fault 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

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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.

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Protection Relay – ANSI Standards

ANSI 49RMS – Thermal overload Protection against thermal damage caused by overloads on machines (transformers, motors or generators). The

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Power System Protective Relays: Principles & Practices

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

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ANSI Protective Device Numbering Guide | PDF | Relay

It provides a comprehensive list of the standard device numbers (such as 51 for time overcurrent relay and 50 for instantaneous overcurrent) and explains how

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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

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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 function of

Aug 09, 2025

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