

Article Overview

Relay protection code 4769 is not a standard ANSI/IEEE device number, but it may represent a custom or manufacturer-specific relay function.

Understanding ANSI/IEEE Device Numbers

ANSI/IEEE device numbers are used to identify the function of protective relays and other electrical devices in power systems. Each number corresponds to a specific protection function, such as overcurrent, differential, or voltage protection. For example:

- o 50: Instantaneous overcurrent relay
 - o 51: Time overcurrent relay
 - o 87: Differential protection (transformer or generator)
 - o 59: Overvoltage relay
 - o 86: Lockout relay
- Suffix letters can modify the function, such as G for ground, N for neutral, or T for transformer-specific applications .

Why 4769 May Not Be Standard

Standard ANSI/IEEE device numbers are generally two- or three-digit numbers, sometimes with a single-letter suffix. A four-digit number like 4769 does not appear in the standard lists . Possible explanations include:

- o Manufacturer-specific coding: Some relay manufacturers assign internal codes to multifunction relays or microprocessor-based devices that combine multiple ANSI functions.
- o Custom protection schemes: Utilities or industrial facilities may create internal numbering systems for documentation, combining multiple functions or settings into a single code.
- o Documentation or software reference: The number could refer to a relay model, firmware version, or a specific configuration in a SCADA or relay management system.

How to Identify the Function

To determine the exact function of code 4769:

- o Check the relay manual or datasheet: Manufacturer documentation often maps internal codes to ANSI functions.
- o Review single-line diagrams: The code may be referenced in system schematics with associated ANSI numbers.
- o Consult protection engineers: Facility-specific coding schemes are usually documented internally.

Relay protection code 4769

Key Takeaways

- o ANSI/IEEE device numbers standardize relay functions, but 4769 is not a standard number.
- o It likely represents a custom or manufacturer-specific function.
- o Verification requires manufacturer documentation or internal system references. Understanding the standard ANSI numbers and suffixes can help interpret or map non-standard codes like 4769 to their actual protective functions in a power system .

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Protection function used for fast disconnection of a generator or load shedding control. Based on the calculation of the

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

This document discusses numerical codes and symbols used to define protection relays according to IEEE and IEC standards. It

These numbers are based on a system that is adopted by a standard for automatic switchgear by Institute of Electrical and

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

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

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

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

Following is the list of the functions. The codes are sometimes followed by an alphabet which gives some additional information for

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

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

The "G" suffix can also mean "generator", hence an "87G" is a Generator Differential Protective Relay while an "87T" is a

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

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

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