

Relay protection device signal icons



Article Overview

Relay protection devices use standardized signal icons and symbols to represent their functions, types, and operational states in electrical schematics.

Overview of Relay Symbols

Relay protection devices are represented in schematics using graphical symbols (IEC 60617) or device numbers (ANSI/IEEE C37.2). These symbols indicate the type of relay, its function, and operational characteristics, allowing engineers to quickly interpret protection schemes .

- IEC Symbols (IEC 60617): Use standardized graphical icons to represent relays, coils, contacts, and auxiliary devices. Symbols are designed for clarity and international recognition, showing whether a relay is electromechanical, static, or has special features like LED indicators .
- ANSI/IEEE Device Numbers: Assign numbers to relay functions (e.g., 50 for instantaneous overcurrent, 51 for time-overcurrent). Letters may be added to indicate specific characteristics or auxiliary functions .

Common Relay Signal Icons

- Relay Coil: Represented as a rectangle or oval with terminals; may include polarity dots for polarized relays or multiple windings for complex devices .
- Contacts:
 - Make Contact (Normally Open): Shown as two lines that close when the relay is energized.
 - Break Contact (Normally Closed): Shown as two lines that open when the relay is...

Article Content

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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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Relay Symbol Guide: Diagram, Types, and PCB Design Explained

Missing the flyback diode: Forgetting to add protection, resulting in destroyed driver transistors. Wrong footprint selection: Designing

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Relay Icons & Symbols

Download over 382 icons of relay in SVG, PSD, PNG, EPS format or as webfonts. Flaticon, the largest database of free icons.

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Relay Symbol Types, Functions, and Meanings

However, relay symbols vary depending on function, contact arrangement, operating principle, and industry standards.

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Appendix 2 ANSI/IEC Relay Symbols

Appendix 2 ANSI/IEC Relay Symbols There are two methods for indicating protection relay functions in common use.

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Relay Electrical Schematic Symbols Chart

The Relay Electrical Schematic Symbols Chart is also a useful tool for testing and troubleshooting electrical circuitry.

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IEC 60617 Electrical Symbols Reference

A comprehensive reference sheet of IEC 60617 electrical symbols, including connections, conductors, and protective devices.

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Relays Symbols. Coil, Solenoid, Electromagnet & Contacts Symbols

It is a protection relay used for 3 phase load such as motor or other equipment to prevent it from starting because of damage or

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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

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Relay Symbol Guide: Diagram, Types, and PCB Design Explained

Learn how to read relay schematic symbols. Discover SPDT, SPST, and solid-state types, NO/NC states, and how to map symbols

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Electrical Relay Diagram and PID Symbols

Electrical Relay Diagram and PID Symbols Last updated on May 30th, 2012 Translate (Premium) Home / Download

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Industrial Relay Symbol Explanation

Industrial relay are indispensable components in automation control systems, and understanding Industrial Relay

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Electric Relay Symbols – Asutpp

In this article you will find the actual symbols for the different types of relays – all-or-nothing, measuring, static, polarized and non

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IEC Relay Symbols and Functions Guide | PDF | Relay | Switch

This document provides symbols and designations for relay protection devices based on IEC 617 standards. It includes: 1) Block

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Relay Symbols & Device Numbers: IEC & IEEE Standards

Technical document detailing relay symbols, device numbers, and functions based on IEC 617 and IEEE C37.2 standards for

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Electromechanical Relay

Electromechanical relay is a reliable, robust and universal switching device for electrically isolating control signals from

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Electric Relay Symbols - Asutpp

Electric relay is a device designed to produce sudden predetermined changes in one or more electric output circuits, when certain

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All Types of Relay Symbol and Diagram

But when a control signal is applied to the coil of the relay, its closed contact becomes open, and open contacts

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Switches and Relays Symbols

Switches and Relays Symbols The picture below is switches and relays symbols including switch 1P, isolator 1P, circuit breaker 1P,

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Relay Icon and Symbol Collection for Clear Visuals

Reliable Relay Icon and Symbol Collection Explore our extensive collection of relay icons and relay symbols designed to improve

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Terms of use

Safety Relays Reed Relays High Frequency (RF) Relays Contactors (Solid State)
Contactors (Electromechanical) Automotive Relays

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Relay Symbols: Complete List - Asutpp

After a detailed analysis of the existing normative documentation (IEC and IEEE / ANSI), I have compiled a complete list of currently

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Relay Symbols and Electromagnets

Relay Symbols and Electromagnets The relay are switching electrical devices activated by signals. Most of the time, a small voltage

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IEC Relay Symbols and Functions Guide | PDF | Relay | Switch

Relay Symbol - Free download as PDF File (.pdf), Text File (.txt) or read online for free. This document provides symbols and

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Electrical Symbols — Switches and Relays

Example 4. Electrical Symbols — Switches and Relays Most of the electrical symbols can be changed in their appearance, styles,

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Electronic relay Icons & Symbols

Download over 60 icons of electronic relay in SVG, PSD, PNG, EPS format or as webfonts. Flaticon, the largest database of free icons.

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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

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relay symbols and device numbers ieec37

2. time-delay starting or closing relay is a device that functions to give a desired amount - of time delay before or after any point of

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