

Manufacturing Standards for Relay Protection Devices

Overview

IEC 60255-1:2022 specifies common rules and requirements applicable to measuring relays and protection equipment, including any combination of equipment to form a distributed protection scheme for power system protection such as control, monitoring and process interface equipment . IEC 60255-1:2022 specifies common rules and requirements applicable to measuring relays and protection equipment, including any combination of equipment to form a distributed protection scheme for power system protection such as control, monitoring and process interface equipment . Relay systems protect high-voltage equipment and transmission lines to ensure safe, stable systems. Although failure of a protective relay system may have severe local or regional impacts, most protective relay systems are not required to operate to prove they are in working order. Ensuring that. Many important issues, such as coordination of settings, operating times, characteristics of relays, mutual coupling of lines, automatic reclosing, and use of communication channels, are examined. Special protection systems, protection of multi-terminal lines, and single-phase tripping and. 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).



Article Content

Jul 26, 2025

IEEE PSRCC and IEC Standards for Protective Relays

Write IEEE standards for protective relays (& control systems). "Standards" includes standards, trial-use standards, recommended practices, & application guides.

Jan 24, 2026

ANSI Standards for Protection Relays

The document discusses ANSI standards for protective relay devices used in electrical power systems. It provides an overview of ANSI numbering conventions and how they identify the ...

Apr 08, 2026

IEC 60255-1:2022

This document covers the main technologies in use today; other emerging technologies present specific EMC and safety issues but the philosophy in this document will be applied. This second edition ...

Feb 01, 2026

IEC 60255 1xx: Protection relay functional standards for all

To meet this need, the IEC is currently working on the IEC 60255-1xx series of functional standards dedicated to protection relays and protection functions. Before looking at the benefits these ...

Dec 20, 2025

Standards for Line Protection | Delgado Relay Protection Reference

In the context of line protection, standards provide guidelines and requirements for the design, installation, testing, and maintenance of protective relays and associated equipment used to ...

Jun 09, 2026

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 ...

Jan 13, 2026

PRC-005-6

To address directives from FERC Order No. 803 addressing Automatic Reclosing, the definition for Automatic Reclosing was revised to add supervisory relays, the associated voltage sensing devices, ...

Aug 14, 2025

PC37.90/D1, Sept 2024

Abstract: Service conditions, electrical ratings, thermal ratings, and testing requirements are defined for relays and relay systems used to protect and control power apparatus. This standard establishes a ...

Feb 25, 2026

Installing and Maintaining Protective Relay Systems

NERC has developed Standard PRC-005, to ensure that all transmission and generation protection systems affecting the reliability of the BES are maintained and tested.

Mar 14, 2026

IEEE Guide for Protective Relay Applications to Transmission Lines

The purpose of this guide is to provide protection engineers with information that helps them to properly apply relays and other devices to protect three-phase high-voltage transmission lines.

Contact Us

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