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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 2900.17-2024

Replacing GB/T 2900.17-2009

**Electrotechnical terminology - Measuring relays and protection
equipment**
(English Translation)

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting:

This document is Part 17 of GB/T 2900 "Electrical Vocabulary": GB/T 2900 has published more than 100 parts:

This document replaces GB/T 2900.17-2009 "Electrical terminology measuring relay": Compared with GB/T 2900.17-2009, in addition to structural adjustments and editorial changes, the main technical changes are as follows:

- a) The digital relay, digital operation relay, excitation, input circuit rated power, influence quantity specified range, agreed relative Error, calibration error terms and definitions (see 447-01-10, 447-01-11, 447-03-06, 447-03-17, 447-06-04, 447-08-02, 447-08-13,;2009 edition of 447-01-10, 447-01-11, 447-03-06, 447-03-17, 447-06-04, 447-08-02, 447-08-13);
- b) Added protection equipment, arc protection device, start status, return status, non-start value, non-return value, analog input signal, open Off input signal, digital input signal, communication input signal, start signal, action signal, start time, overshoot time, reset time

difference, return difference, dynamic performance, transient response, inherent error, setting error, accuracy, action accuracy, inherent accuracy Terms and definitions (see 447-01-49, 447-01-50, 447-02-19, 447-02-20, 447-02-21, 447-02-22, 447-03-19, 447-03-20, 447-03-21, 447-03-22, 447-04-13, 447-04-14, 447-05-11, 447-05-12, 447-07-13, 447-07-14, 447-07-15, 447-07-16, 447-08-14, 447-08-15, 447-08-16, 447-08-17, 447-08-18);

c) The terms and definitions of characteristic stimulus quantities have been deleted (see 447-03-03 of the:2009 edition):

This document is equivalent to IEC 60050-447:2020 "International Electrotechnical Vocabulary Part 447: Measuring relays and protection devices":

The following minimal editorial changes were made to this document:

--- For ease of use, the standard name is changed to "Electrical Terminology Measuring Relays and Protection Equipment";

---To keep the document concise, Figures 1 to 4 appear only when they are cited for the first time and do not appear repeatedly:

Introduction

The standards of this committee are divided into 9 categories: (1) basic concepts, (2) electrical materials, (3) instruments and meters, (4) electrical equipment, and (5) electronic equipment:

equipment, (6) power generation, transmission and distribution, (7) telecommunication technology, (8) special applications, (9) standardization:

This document belongs to Part 4 Electrical Equipment and is a general and basic terminology for equipment used in explosive atmospheres: It can be used as a basis for the formulation of technical standards in this field:

Provide assistance in revision and technical exchanges:

GB/T 2900 Electrical Terminology Series National Standard Part 4 "Electrical Equipment" has published 17 standards, as shown below:

---GB/T 2900.7-1996 Electrical terminology for electric carbon: The purpose is to support the preparation of technical standards and other documents in the field of electric carbon:

Teaching and technical exchange:

---GB/T 2900.8-2009 Electrical terminology insulators: The purpose is to support the compilation of technical standards and other documents in the field of insulators:

system, teaching and technical exchange:

---GB/T 2900.16-1996 Electrical terminology Power capacitors: The purpose is to support technical standards in the field of power capacitors Preparation of documents, teaching and technical exchanges:

Preparation of technical standards and other documents, teaching and technical exchanges:

---GB/T 2900.18-2008 Electrical terminology, low voltage electrical appliances: The purpose is to support technical standards and other documents in the field of low voltage electrical appliances:

Documentation, teaching and technical exchanges:

---GB/T 2900.20-2016 Electrical terminology High-voltage switchgear and control equipment: The purpose is to support high-voltage switchgear Preparation, teaching and technical exchanges of documents such as technical standards in the field of control equipment:

---GB/T 2900.25-2008 Electrical terminology for rotating electrical machines: The purpose is to support technical standards and other documents in the field of rotating electrical machines:

Documentation, teaching and technical exchanges:

---GB/T 2900.27-2008 Electrical terminology: small power motors: The purpose is to support the technology in the field of small power motors Preparation of standards and other documents, teaching and technical exchanges:

---GB/T 2900.35-2023 Electrical terminology explosive atmospheres: The purpose is to support technical standards in the field of explosive atmospheres Preparation of documents, teaching and technical exchanges:

---GB/T 2900.40-1985 Electrical terminology - Special equipment for wires and cables: The purpose is to support the special equipment for wires and cables:

Preparation of technical standards and other documents in the equipment field, teaching and technical exchanges:

---GB/T 2900.41-2008 Electrical terminology primary cells and secondary batteries: The purpose is to support the primary cell and secondary battery field Preparation of technical standards and other documents, teaching and technical exchanges:

---GB/T 2900.49-2004 Electrical terminology Power system protection: The purpose is to support the technology in the field of power system protection Preparation of standards and other documents, teaching and technical exchanges:

---GB/T 2900.51-1998 Electrical terminology overhead lines: The purpose is to support technical standards and other documents in the field of overhead lines:

Documentation, teaching and technical exchanges:

---GB/T 2900.63-2003 Electrical terminology basic relay: The purpose is to support the technical standards in the field of basic relays Preparation of documents, teaching and technical exchanges:

---GB/T 2900.64-2013 Electrical terminology time relay: The purpose is to support technical standards in the field of time relays Preparation of documents, teaching and technical exchanges:

---GB/T 2900.70-2008 Electrical terminology Electrical accessories: The purpose is to support technical standards and other documents in the field of electrical accessories:

Documentation, teaching and technical exchanges:

Electrical terminology - Measuring relays and protective equipment

1 Scope

This document defines common terminology concerning the use of measuring relays and protection equipment, specific applications and related technologies:

This document applies to technical fields related to measuring relays and protection equipment:

2 Normative references

This document has no normative references:

3 Terms and definitions

3.1

Type-related terminology 447-01-01 Electrical relay A device that produces a predetermined transition in one or more of its output circuits when the input circuit controlling the device meets certain conditions:

[Source: GB/T 2900.83-2008, 151-13-31, modified] 447-01-02 Measuring relay an electrical relay that operates when its characteristic quantity reaches its operating value with a specified accuracy:

447-01-03

specified-time measuring relay A measuring relay having one or more time limits whose time characteristics meet the relevant accuracy requirements:

447-01-04

He dependent-time measuring relay A time-limited relay whose operating time depends in a