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Information specification for relay protection

继电保护信息规范

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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 is required.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

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Relay protection information specification

1 Scope

This document specifies the general requirements, classification and requirements, content, information model requirements, configuration file information, human-machine Interface and information retrieval content.

This document applies to relay protection devices (hereinafter referred to as "devices") for AC 110 kV (66 kV) and above substations.

It is an important basis for the design, manufacture, inspection and operation of related equipment. Other voltage levels of substations, converter stations, power plants, etc. implement.

Note. "Relay protection" in this document refers to relay protection related systems and equipment.

2 Normative references

GB/T 14285

GB/T 14598.24-2017

GB/T 21711.1

GB/T 32890

IEC 61850

GB/T 34122

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 relay protection information

A collection of information output by the device that can reflect the operating status of the power system, the working status of the secondary circuit and the working status of the device itself.

Note. Relay protection information includes action information, alarm information, etc.

3.2 intermediate node information

Protects information generated within the device after startup.

Note. The intermediate node information includes the key logic points of the protection function, state quantities, and calculated analog quantities of the protection elements.

3.3 Intelligent electronic device; IED

Any device consisting of one or more processors that has the capability to receive and transmit data from an external source or to control an external source, i.e., an electronic multifunction Instruments, microcomputer protection, controllers, which can perform one or more logical contact tasks within the scope of the interface under specific conditions. entity.

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