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Program of Pattern Evaluation of Instrument Transformers--Part 5: Capacitor Voltage Transformers

测量用互感器型式评价大纲 第5部分：电容式电压互感器

(English Translation)

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Introduction

This outline is based on JJF 1016-2014 "Guidelines for the Compilation of Outlines for Evaluation of Measuring Instruments" Compiled with "General Specification for Type Evaluation of Measuring Instruments".

This outline is published for the first time.

Outline of type evaluation for measuring transformer Part 5: Capacitive voltage transformer

1 Scope

This outline is applicable to the type evaluation of measuring voltage transformers with classification code 15281000 for measuring instruments.

This outline is applicable to capacitors used for power supply gas measurement, with a frequency of 50 Hz and a rated secondary voltage of 100/3V Type voltage transformer.

2 Reference documents the outline cited the following documents.

JJG314 measuring voltage transformer GB/T 156 standard voltage GB/T 311.1 Insulation coordination Part 1: Definitions, principles and rules GB/T 4208 enclosure protection level (IP code) GB/T 5585.1 Copper, aluminum and its alloy busbars for electrical purposes Part 1: Copper and copper alloy busbars GB/T 11604 High-voltage electrical equipment radio interference test method GB/T 16927.1 High voltage test technology Part 1: General definition and test requirements GB/T 16927.2 High voltage test technology Part 2: Measurement system GB/T.20138 Protection level of electrical equipment shell against external mechanical collision (IK code) GB/T 20840.1-2010 Transformers Part 1: General

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technical requirements GB/T 20840.5-2013 Transformers Part 5: Supplementary requirements for capacitive voltage transformers GB/Z 24841-2018 Technical Specification for Capacitive Voltage Transformer for 1000kV AC System for dated reference documents, only the dated version applies to this specification; for those without date references the latest version (including all amendments) is applicable to this specification.

3 Terminology

The terms used in the documents cited in this outline and the following terms apply to this outline.

3.1 routine test in order to reflect the manufacturing defects, each equipment is subjected to tests that do not damage the product's characteristics and reliability.

Rely on sex.

4 Overview

Capacitive voltage transformer is a special voltage transformer based on capacitive voltage divider, using capacitive voltage divider the high voltage is reduced to an intermediate voltage, and then the electromagnetic unit is converted into a low voltage according to the proportional requirements, which is used for voltage monitoring and electrical can be measured.

The capacitive voltage transformer is mainly composed of a capacitive voltage divider and an electromagnetic unit. The electromagnetic unit consists of an intermediate voltage

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