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

GB/T 17215.324-2022

Replacing GB/T 17215.324-2017

**Electricity metering equipment(AC) - Particular requirements -
Part 24: Static meters for fundamental component reactive
energy(classes 0, 5S, 1S, 1, 2 and 3)**

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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 24 of GB/T 17215.3 "Special Requirements for Electrical Measuring Equipment (AC)". GB/T 17215.3 has been released the following sections.

---GB/T 17215.301 Special requirements for multi-function electric energy meters;

---GB/T 17215.302 Special requirements for alternating current measuring equipment Part 2. Static harmonic active energy meter;

---GB/T 17215.303 Special requirements for alternating current measuring equipment Part 3. Digital energy meters;

---GB/T 17215.304 Special requirements for alternating current measuring equipment Part 4. Static electric current connected through electronic transformer can table;

---GB/T 17215.311 Special requirements for alternating current measuring equipment Part 11. Electromechanical active energy meters (0.5, 1 and level 2);

---GB/T 17215.321 Electrical Measuring Equipment (AC) Particular Requirements Part 21. Static Active Energy Meters (Class A, B, C, D and E);

---GB/T 17215.323 Electrical Measuring Equipment (AC) Special Requirements Part 23. Static Reactive Energy Meter (Class 2 and level 3);

---GB/T 17215.324 Electrical Measuring Equipment (AC) Special Requirements Part 24. Static Fundamental Component Reactive Energy Meter (Class 0.5S, Class 1S, Class 1, Class 2 and Class 3);

--- GB/T 17215.352 Part 52 of the special requirements for alternating current measuring equipment. symbols.

This document replaces GB/T 17215.324-2017 "Special Requirements for Alternating Current Measuring Equipment Part 24. Static Fundamental Frequency No

Functional energy meter (0.5S level, 1S level and 1 level)". Compared with GB/T 17215.324-2017, except for structural adjustment and editorial changes, the main

See Appendix A for technical changes.

This document is modified to adopt IEC 62053-24.2020 "Special Requirements for Electrical Measuring Equipment Part 24.Static Fundamental Component Reactive Power Energy table (level 0.5S, level 1S, level 1, level 2 and level 3)".

Compared with IEC 62053-24.2020, this document has more structural adjustments. For a list of structure number comparisons between the two files, see

Appendix B.

Compared with IEC 62053-24.2020, this document has more technical differences, and vertical

A single line (|) is used for marking. A list of these technical differences and their causes is provided in Appendix C.

The following editorial changes have been made to this document.

---The name of the standard is from "Special Requirements for Electrical Measuring Equipment Part 24.Static Fundamental Component Reactive Energy Meter (Class 0.5S, 1S Level, Level 1, Level 2 and Level 3)" was revised as "Special Requirements for Electrical Measuring Equipment (AC) Part 24.Static Fundamental Wave Components None Power meter (0.5S, 1S, 1, 2 and 3)";

--- Replaced IEC 62059 with informative references to GB/T 17215.9 (all parts);

--- Replaced IEC 61557-12 with the informative referenced GB/T 18216.12;

--- Replaced IEC 61869-2 with the informative referenced GB/T 20840.2;

--- Replaced IEC 62586-1 with the informative referenced GB/T 39853.1;

--- Replaced IEC 62586-2 with the informative referenced GB/T 39853.2.

Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents.

Introduction

This document is the standard for type testing of electric energy meters. It covers special requirements for indoor and outdoor energy measuring equipment, but does not include special

functional unit or component.

This document and IEC 62052-11.2020 together constitute a reference to static fundamental component reactive energy meters (0.5S, 1S, 1, 2 and

Level 3) type test requirements. This document is used in conjunction with IEC

62052-11.2020 and GB/T 17215.231-2021. When this document

When any requirements of IEC 62052-11.2020 or GB/T 17215.231-2021 are related to the existing clauses, the requirements of this document take precedence

According to the requirements of IEC 62052-11.2020 or IEC 62052-31.2015.

This document gives the minimum test level to ensure the normal function of the instrument under normal working conditions; for special applications, other tests, etc.

A level may be necessary, to be agreed between the user and the manufacturer.

GB/T 17215.3 "Special Requirements for Electric Measuring Equipment (AC)" provides standardization for the special requirements of various AC measuring equipment.

Consists of nine parts.

---GB/T 17215.301 Special requirements for multi-function electric energy meters. The purpose is to standardize the technology and test of the multi-function electric energy meter, to ensure

Relevant rules that need to be followed when setting up a multi-function electric energy meter.

---GB/T 17215.302 Special requirements for alternating current measuring equipment Part 2. Static harmonic active energy meters. The purpose is

In order to standardize the technology, accuracy and test of static harmonic active energy meters, establish the phases that static harmonic active energy meters need to follow related rules.

---GB/T 17215.303 Special requirements for alternating current measuring equipment Part 3. Digital energy meters. The purpose is to standardize the number

Digital electric energy meter technology, accuracy and test, and establish the relevant rules to be followed by digital electric energy meter.

---GB/T 17215.304 Special requirements for alternating current measuring equipment Part 4. Static electric energy connected through electronic transformers

surface. The purpose is to standardize the technology, accuracy and test of static electric energy meters connected through electronic transformers, and to establish

Relevant rules to be followed for connected static energy meters.

--- GB/T 17215.311 Special requirements for alternating current measuring equipment Part 11. Electromechanical active energy meters (0.5, 1 and

level 2). The purpose is to standardize the technology and test of electromechanical active energy meters with accuracy levels of 0.5, 1 and 2, and establish