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

**GB/T 17215.323-2022**

Replacing GB/T 17215.323-2008

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**Electricity metering equipment (AC) - Particular requirements -  
Part 23: Static meters for reactive energy(classes 2 and 3)**

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## Table of Contents

|                                                                |   |
|----------------------------------------------------------------|---|
| Preface                                                        |   |
| Introduction                                                   |   |
| 1 Scope                                                        | 1 |
| 2 Normative references                                         | 2 |
| 3 Terms and Definitions                                        | 2 |
| 4 Standard power value                                         | 3 |
| 4.1 Voltage                                                    | 3 |
| 4.2 Current                                                    | 3 |
| 4.3 Frequency                                                  | 3 |
| 4.4 Power consumption                                          | 4 |
| 5 Structural Requirements                                      | 4 |
| 5.1 General requirements                                       | 4 |
| 5.2 Mechanical test                                            | 4 |
| 5.3 Window                                                     | 4 |
| 5.4 Terminals, terminal blocks, protective conductor terminals | 4 |
| 5.5 Seal Regulations                                           | 4 |
| 5.6 Measured value display                                     | 4 |
| 5.7 Storage of measured values                                 | 5 |
| 5.8 Pulse output                                               | 5 |
| 5.9 Electric pulse input                                       | 5 |
| 5.10 Auxiliary power supply                                    | 5 |
| 5.11 Protection against mechanical hazards                     | 5 |
| 5.12 Resistance to flame spread                                | 5 |
| 5.13 Meter Temperature Limits                                  | 5 |
| 6 Identification and documentation of instruments              | 5 |
| 7 Accuracy requirements                                        | 5 |
| 7.1 General test conditions                                    | 5 |
| 7.2 Methods for accuracy verification                          | 6 |

## 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 23 of GB/T 17215.3 "Special Requirements for Electrical Measuring Equipment (AC)". GB/T 17215.3 has been published 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 Electric measuring equipment (AC) Part 23. Static reactive energy meters (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 17215.323-2008 "Special Requirements for Alternating Current Measuring Equipment Part 23. Static Reactive Energy Meters

(Levels 2 and 3)". Compared with GB/T 17215.323-2008, except for structural adjustments and editorial changes, the main technical changes can be found in

Appendix A.

This document is modified to adopt IEC 62053-23.2020 "Special Requirements for Electrical Measuring Equipment Part 23.Static Reactive Energy Meter (Levels 2 and 3)".

Compared with IEC 62053-23.2020, this document has more structural adjustments. For a list of structure number comparisons between the two files, see Appendix B.

Compared with IEC 62053-23.2020, 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 was changed from "Special Requirements for Electrical Measuring Equipment Part 23.Static Reactive Energy Meters (Class 2 and Class 3)" to "Electrical Measuring Equipment (AC) Part 23.Static Reactive Energy Meters (Class 2 and Class 3)";
- Deleted column item 2 and column item 3 in Note 11 of Chapter 1 of IEC 62053-23.2020;
- 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 together with IEC 62052-11.2020 constitutes the type test requirements for static reactive energy meters (Class 2 and Class 3). this document

Used in conjunction with IEC 62052-11:2020 and GB/T 17215.231-2021, when any requirements of this document relate to IEC 62052-11.

2020 or the existing clauses in GB/T 17215.231-2021, the requirements of this document take precedence over IEC 62052-11:2020 or

GB/T 17215.231-2021 requirements.

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