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

GB/T 14598.9-2010

Replacing GB/T 14598.9-2002

**Measuring relays and protection equipment -- Part 22-3:
Electrical disturbance tests -- Radiated electromagnetic field
immunity**

(English Translation)

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Foreword

GB/T 14598 "for measuring relays and protection equipment" for the multi-part series of standards, including the following sections.

--- GB/T 14598.1 Electrical relays - Part 23. Contact performance;

--- GB/T 14598.3 relays - Part 5. Measuring relays and protection equipment insulation coordination requirements and tests;

--- GB/T 14598.4 Electrical relays Part XIV. Endurance test for electrical relay contacts - contact loads excellent First value;

--- GB/T 14598.5 Electrical relays Part XV. characteristic electrical relay contacts life test test equipment specification;

--- GB/T 14598.6 Electrical relays - Part 18. There are no size or generic relay;

--- GB/T 14598.7 Electrical relays - Part 3. Single input dependent or independent time energizing quantity measuring relays;

--- GB/T 14598.8 Electrical relays - Part 20. Protection System;

--- GB/T 14598.9 measuring relays and protection equipment - Part 22-3. Electrical disturbance tests - Radiated electromagnetic field immunity;

--- GB/T 14598.10 Electrical relays - Part 22-4. Electrical disturbance tests for measuring relays and protection equipment --- electrical Fast transient/burst immunity test;

--- GB/T 14598.13 Electrical relays - Part 22-1. Electrical measuring relays and protection equipment disturbance tests ---1MHz burst immunity test;

--- GB/T 14598.14 measuring relays and protection equipment division 22-2. Electrical disturbance tests - Electrostatic discharge tests;

--- GB/T 14598.15 Electrical relays - Part 8. Thermal electrical relays;

--- GB/T 14598.16 Electrical relays - Part 25. Electromagnetic emission tests measure

relays and protection equipment;

--- GB/T 14598.17 Electrical relays - Part 22-6. Measuring relays and protection equipment
- Electrical disturbance tests --- radio Immunity to conducted disturbances induced frequency field;

--- GB/T 14598.18 Electrical relays - Part 22-5. Measuring relays and protection equipment
- Electrical disturbance tests --- Wave Surge immunity test;

--- GB/T 14598.19 Electrical relays - Part 22-7. Measuring relays and protection equipment
- Electrical disturbance tests --- Workers Frequency immunity tests;

--- Part 26 GB/T 14598.20 Electrical relays. measurement of electromagnetic relays and protection equipment compatibility requirements;

--- GB 14598.27 metric Part 27 relays and protection devices. product safety requirements;

--- GB/T 14598.300 microprocessor transformer protection equipment requirements;

--- GB/T 14598.301 microprocessor-based generator and transformer fault recorder technology requirements.

This section GB/T 14598.9 "metric Part 22-3 relays and protection equipment. Electrical disturbance tests anti-electromagnetic radiation Degree of disturbance. " this section Press GB/T 1.1-2009 given rule drafting.

This Part replaces GB/T 14598.9-2002 "Electrical relays - Part 22-3. Electrical disturbance Measuring relays and protection equipment Test radiation electromagnetic field disturbance tests. " this section compared with the GB/T 14598.9-2002 The main changes are as follows.

--- This part of the name changed to "measuring relays and protection equipment - Part 22-3. Electrical disturbance tests --- radiated electromagnetic field immunity degree";

--- Frequency range "80MHz ~ 1000MHz" to "80MHz ~ 2.7GHz".

--- Added "References." GB/T 14598 in this part of the translation method is equivalent to using the international standard IEC 60255-22-3:2007 "measuring relays and protection devices Part Set 22-3. Electrical disturbance tests --- radiated electromagnetic field immunity "(in English).

For ease of use, this section made the following editorial changes.

--- 'This International Standard' to replace the word 'this section';

" --- With a decimal point instead of a decimal point, ";

--- Delete international standards foreword.

This part is proposed by the China Electrical Equipment Industrial Association.

This part of the National measuring relays and protection equipment Standardization Technical Committee (SAC/TC154) centralized.

This part mainly drafted by. Nanjing NARI-RELAYS Electric Co., Guodian Nanjing Automation Co., Ltd., XJ Electric Co.

Co., Ltd., Beijing Sifang Automation Co., Ltd., the national relay protection and automation equipment for Quality Supervision and Inspection Center, Zhuhai Wan Lida Electric Co., Ltd., Beijing Purple Control Co., Ltd., Dongfang Electronics Co., Ltd., integrated into an electronic Co., Xuchang Relay Research Institute, Shanghai Relay Co., Ltd., Hebei North Heng Electric Co., Ltd., Shanghai Electric Power Automation Tianzheng tomorrow Limited, ABB (China) Co., Ltd., Schneider Electric (China) Investment Co., Ltd., Siemens Power Automation Ltd., Jiang Su Jinzhi technology stocks Limited copies.

1 Scope

GB/T 14598 in this section to GB/T 17626.3 basis, refer to the appropriate part of this publication, the provisions of the anti-electromagnetic radiation General requirements for the degree of disturbance. These measuring relays and protection equipment tests for electric power used by the system, including the use with these devices Control, monitoring and process interface equipment.

Purpose of the test is to verify that the device under test (EUT) is energized and is within the frequency range from 80MHz ~ 2.7GHz work Electromagnetic radiation emitted in the ability to work properly.

Note 1: Product standard GB/T 14598.17 (in GB/T 17626.6 basis) will be established for measuring relays and protection equipment for the frequency range of 0.15MHz ~ 80MHz immunity.

Note 2: The test method specified in this part is to establish adequate repeatability test results on different test equipment, in order to analyze the nature of the results. At this Lane does not consider using a portable transmitter 1) Test methods, because of the EMC Directive specifies sweep tests must use the standard field strength, the portable transmitter test is generally not reproducible.

Under the requirements of this section apply to the new measuring relays and protection equipment, all the tests only type testing.

1) Test method using a portable transmitter is defined in this part of the GB/T 14598.9-1995 first edition (IEC 60255-22-3. 1989) in.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 2900.17 Electrotechnical terminology measuring relays GB/T 2900.49
Electrotechnical terminology - Power System Protection (GB/T 2900.49-2004, IEC
60050-448:1995, IDT) GB/T 4365 Electrotechnical terminology Electromagnetic
compatibility (GB/T 4365-2003, IEC 60050 (161).1990, IDT) GB/T 14047 for measuring
relays and protection equipment (GB/T 14047-1993, idt IEC 60255-6. 1988) GB/T 17626.3
electromagnetic compatibility test and measurement technology RFEMS test (GB/T
17626.3-2006, IEC 61000-4-3:2002, IDT)

3 Terms and Definitions

GB/T 2900.17, GB/T 2900.49 and GB/T 4365 defined by the following terms and definitions
apply to this document.

Auxiliary equipment Provision of equipment for the desired signal is a pilot plant work, and
are used to verify the performance of the pilot plant equipment.

Subjects means equipment under test; EUT is means tested. It can be a measure of the
relay or a protection device.