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

GB/T 14598.13-2008

Replacing GB/T 14598.13-1998

**Electrical relays -- Part 22-1: Electrical disturbance tests for
measuring relays and protection equipment. 1 MHz burst
immunity tests**

(English Translation)

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Table of Contents

Foreword
1 Scope
2 Normative references
3 Terms and Definitions

Foreword

The partial modification of international standard IEC 60255-22-1:2007 "Electrical relays - Part 22-1. Measuring relays and protection devices Set Electrical disturbance tests --- 1MHz burst immunity test "(in English).

According to the actual situation of the power system, this part uses IEC 60255-22-1:2007 when the development of national standards, to retain the Content 100kHz burst test GB/T 14598.13-1998, and adopted the IEC 61000-4-18:2006 in 100kHz pulse Chong group specified tests.

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

- a) 'this International Standard' to replace the word 'this section';
- b) with a decimal point '. 'Instead of as a decimal point,' ';
- c) Remove the preface to international standards.

This Part replaces GB/T 14598.13-1998 "Measuring Electrical disturbance tests for measuring relays and protection equipment - Part 1. 1MHz Burst disturbance test. " this portion of the GB/T 14598.13-1998 main changes are as follows.

- In this part of IEC 61000-4-18 is based;
- Grounded at one end only when shielded communication line test, increasing the coupling capacitance;
- Clear test program communication port;
- Test length of communication cable is fixed to 10m;
- Removed ground Fig. 4 test generator terminals;
- The concept of "port", the severity and the test voltage according to the different ports specified tests;
- Detailed description of the test configuration;

- Test severities for the fixed level (equivalent to the original standard grade 3);
- According to different functions of the device specified acceptance criteria;
- Removed Appendix A.

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

The measure in part by the National Standardization Technical Committee centralized relays and protection equipment.

This part mainly drafted by. National relay protection and automation equipment for Quality Supervision and Inspection Center, Nanjing NARI-RELAYS Electric Co.

Division, Beijing Sifang Automation Co., Ltd., Guodian Nanjing Automation Co., Ltd., Beijing Purple Control Co., Ltd., Hebei Power company, Zhuhai Wanlida Electric Co., Ltd., Yantai Dongfang Electronics Information Industry Co., XJ Electric Company Limited Division of Xuchang Relay Research Institute.

1 Scope

GB/T 14598 in this section to IEC 61000-4-18, based on reference to the applicable sections of this publication, provides for 1MHz General requirements and 100kHz burst immunity test, these tests are suitable for power system protection used for measuring relays and protection Protection devices. Including the control, monitoring and process interface equipment used in conjunction with these devices.

Trial is to verify the device under test is energized, and by the circuit breaker, such as occurred in the high-voltage substation or power plant or isolation Repetitive damped oscillatory knife open or closed caused by harassment can work correctly.

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

The purpose of this section is to provide.

- The definitions of terms used;
- Test severity;
- Test equipment;
- Test configuration;
- Test procedures;
- Acceptance criteria;
- experiment report.

2 Normative references

The following documents contain provisions which, through reference GB/T 14598 in this section constitute provisions of this section. For dated references, all subsequent amendments (excluding corrections) or revisions do not apply to this section, however, encourage an agreement under this section Parties to study the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 14047-1993 measuring relays and protection equipment (idt IEC 60255-6. 1988) IEC 61000-4-18:2006 Electromagnetic compatibility - Part 4-18. Testing and measurement techniques --- damped oscillation immunity test

3 Terms and Definitions

The following terms and definitions apply to this section.

And provides a signal to be used to verify the performance of the pilot plant is a pilot plant for the equipment required for normal operation.

It is ac or dc auxiliary energizing quantity of the pilot plant input interface.

And a limited number of clearly discernible pulse or series of limited duration oscillation.