

ICS 29.180
CCS K 41



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

GB/T 19212.9-2016

Replacing GB 19212.9-2007

Safety of transformers, reactors, power supply units and combinations thereof -- Part 9: Particular requirements and tests for transformers and power supply units for bells and chimes

变压器、电抗器、电源装置及其组合的安全 第9部分：电铃和电钟用变压器及电源装置的特殊要求和试验

(English Translation)

Issued on: August 29, 2016

Implemented on: March 1, 2017

Issued by: General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China

Table of Contents

Preface
1 Scope
2 Normative reference document
3 Terms and definitions
4 General requirements
5 General description of the test
6 Rated
Category
8 Signs and other information
9 Electric shock protection
10 Change of input voltage setting value
11 Load output voltage and output current
12 No-load output voltage
13 Short circuit voltage
14 Fever
15 Short circuit and overload protection
16 Mechanical strength
17 Protection against dust, solid foreign matter and moisture harmful access
18 Insulation resistance, dielectric strength and leakage current
19 Structure
20 Components
21 Internal wiring
22 Power connection and other external flexible cable or cord
23 External conductor terminal
24 Protective earthing device
25 Screws and connections
26 Creepage distance, electrical clearance and through insulation distance
27 Heat resistance, flame resistance and resistance to tracing
28 Rust
Appendix
Reference

Foreword

GB/T 19212 "Safety of transformers, reactors, power supply units and their combinations"

1) The following sections are included.

1) Some of the series of standards are under the heading "Safety of power transformers, power supplies, reactors and similar products", and some are in the "supply voltage for 1100V and below the safety of transformers, reactors, power supply units and similar products" under the heading, some of which are in the "Transformer, Reactor, Source device and its portfolio of products" under the heading, the future release of this series of standard titles may be modified.

- Part 1. General requirements and testing;

- Part 2. Particular requirements and tests for the general purpose separation transformer and the power supply for the separation transformer;

Part 3. special requirements and tests for controlling the power supply of transformers and built-in transformers;

- Part 4. Particular requirements and tests for gas and fuel burner ignition transformers;

- Part 5. Particular requirements and tests for power supply units for isolation transformers and internal isolation transformers;

- Part 6. Particular requirements and tests for power supply units for use in transformers and razors for razors;

- Part 7. Particular requirements and tests for safety isolating transformers and power supply units incorporating safety isolating transformers;

- Part 8. Particular requirements and tests for transformers and power supplies for toys;

- Part 9. Particular requirements and tests for bells and bells and transformers and power supply units;

Part 10. Particular requirements and tests for transformers and power supply units for Class III portable tungsten filament lamps;

- Part 13. Particular requirements for constant voltage transformers;

- Particular requirements and tests for power supply units for autotransformers and autotransformers - Part 14.

- Part 15. Particular requirements and tests for power supply units for regulators and internal regulators;

- Part 16. Particular requirements for isolating transformers for power supply in medical places;

- Part 17. Special tests and requirements for transformers for switchgear and switching power supply units;
- Part 20. Particular requirements and tests for interference attenuating transformers;
- Part 21. Particular requirements and tests for small reactors;
- Part 24. Particular requirements for transformers for construction sites.

This part is part 9 of GB/T 19212. This part is based on GB/T 19212.1-2016, which is required Used in conjunction with GB/T 19212.1-2016. This part is the GB/T 19212.1-2016 the corresponding chapter, the article to add and modify, in order to convert the contents of GB/T 19212.1-2016 into the contents of this section. This section adds new to GB/T 19212.1-2016 the contents are numbered starting from 101.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This section replaces GB 19212.9-2007 "Safety of power transformers, power supply units and similar products Part 9. Bells and clocks Transformer special requirements ". Compared with GB 19212.9-2007, the main technical changes are as follows.

- Standard name changed to "Safety of transformers, reactors, power supply units and their combinations Part 9. Bell and bell transformers and electrical Special requirements and tests for source devices ";
- Added the provisions of Chapter 1 (see Chapter 1);
- the definition of the term "bell and bell transformer" has been modified (see 3.1.101);
- the term "normal operation" and its definition are deleted (see 2007 edition 3.102);
- the provisions of the rated output voltage limit for independent transformers are added (see 6.101);
- amended by means of work (see 7.5);
- the provisions of the heat test method have been modified (see 14.1);
- modified the application of the supply voltage for the short circuit test (see 15.101);
- to modify and increase the structure of the provisions (see Chapter 19);
- Appendix C and Appendix D were deleted (see Appendix C and Appendix D for the 2007 edition);
- Added Appendix F (see Appendix F).

This part uses the re-drafting method to modify IEC 61558-2-8.:2010 "Transformers, reactors, power supply units and their combinations Part 2-8. Particular requirements and tests for bells and bells and transformers and power supply units ".

There are technical differences between this part and IEC 61558-2-8.:2010, all of which are due to the matching criteria in this section GB/T 19212.1-2016 and IEC 61558-1.:2009 in Chapter 2 of the technical differences arising there.

1 Scope

This clause of GB/T 19212.1-2016 is replaced by the following.

This part of GB/T 19212 specifies the safety of the bells and bells and the power supply of the bells and bells begging. Transformers with electronic circuits are also included in this section.

Note 1: Safety requirements include electrical, temperature and mechanical aspects.

Unless otherwise specified, the following "transformers" include bell and bell transformers and power supply devices with bells and bells.

This part applies to stand-alone, single-phase, air-cooled (self-cooling or air-cooled), independent or supporting dry-type transformers. The windings can be Encapsulated or non-encapsulated.

This standard applies to transformers and power supply units (linear).

This part is used in conjunction with GB 19212.17 switch type power supply unit. It is also suitable for power supply with internal operating frequency exceeding 500Hz.

Set. When the requirements of the two standards are inconsistent, the more stringent standards are preferred.

Rated power supply voltage does not exceed AC 250V, rated power frequency does not exceed 500Hz. This standard applies to the internal operating frequency is not super Over 500Hz transformer and linear power supply device.

Rated output should not exceed 100VA.

No-load output voltage does not exceed AC 33V or no ripple DC 46V, rated output voltage does not exceed AC 24V or no ripple DC 33V.

Bell and bell transformers are usually scheduled for power supply for short-term, heavy-duty household electroacoustic signal devices and other similar devices.

Note 2: Partial load can be used as illumination.

This standard does not apply to external circuits and components that are intended to be connected to the input and output terminals of the transformer.

When the installation procedure or the final product standard requirements between the circuit for the double insulation or reinforced insulation, you can use this part of the change Pressure device.