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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 19212.13-2019

Replacing GB/T 19212.13-2005

Safety of transformers, reactors, power supply units and combination thereof -- Part 13: Particular requirements and tests for constant voltage transformers and power supply units for constant voltage

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Foreword

GB/T 19212 "Safety of transformers, reactors, power supply units and their combinations" 1) consists of the following parts.

1) In GB/T 19212, some parts are under the heading "Safety of Power Transformers, Power Sources, Reactors and Similar Products", and some parts are in "Power Supply Voltage".

Under the heading "Safety of transformers, reactors, power supply units and similar products of 1100V and below", some parts are in "Transformers, Reactors, Electricity".

Under the heading "Safety of Source Devices and Their Combinations", the title of the future GB/T 19212 may be revised.

--- Part 1. General requirements and tests;

--- Part 2. Particular requirements and tests for power supply for general purpose separation transformers and built-in separation transformers;

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

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

--- Part 5. Particular requirements and tests for power supply units for isolating transformers and built-in isolating transformers;

--- Part 6. Special requirements and tests for razor transformers, power supply units for razors and razor supply units;

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

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

--- Part 9. Special requirements and tests for electric bell and electric clock transformers and power supply units;

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

--- Part 13. Particular requirements and tests for constant voltage transformers and power supply units;

--- Part 14. Particular requirements and tests for autotransformers and power supply units with built-in autotransformers;

--- Part 15. Particular requirements and tests for power supply units for voltage regulators and built-in regulators;

--- Part 16. Special requirements and tests for isolation transformers for power supply in medical facilities;

--- Part 17. Particular requirements and tests for transformers for switch-type power supply units and switch-type power supply units;

--- Part 20. Particular requirements for interference attenuation transformers;

--- Part 21. Special requirements and tests for small reactors;

--- Part 24. Particular requirements for transformers for construction sites;

--- Part 27. Particular requirements and tests for transformers and power supply units for energy and other purposes.

This part is the 13th part of GB/T 19212. This part is based on GB/T 19212.1-2016, this part

It must be used in conjunction with GB/T 19212.1-2016. This section supplements and repairs the corresponding chapters and articles of GB/T 19212.1-2016.

Change to convert the contents of GB/T 19212.1-2016 into the content of this section. This section is for GB/T 19212.1-2016

The added content is numbered starting from 101.

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

This part replaces GB/T 19212.13-2005 "Safety of power transformers, power supply units and similar products - Part 13. Constant pressure change

The special requirements of the press, compared with GB/T 19212.13-2005, the main changes are as follows.

--- The standard name is changed to "Safety of transformers, reactors, power supply units and their combinations - Part 13. Constant voltage transformers and power supply

Special requirements and tests";

--- Revised the scope of the provisions (see Chapter 1, Chapter 1 of the.2005 edition);

--- Revised the normative reference document (see Chapter 2, Chapter 2 of the.2005

edition);

--- Revised terms and definitions (see Chapter 3, Chapter 3 of the.2005 edition);

--- Increased rating requirements (see Chapter 6);

---Modified the no-load output voltage regulations (see Chapter 12, Chapter 12 of the.2005 edition);

---Modified the insulation resistance and dielectric strength (see Chapter 18, Chapter 18 of the.2005 edition);

--- Increased structural provisions (see Chapter 19);

--- Revised Appendix C, Appendix D and Appendix L (see Appendix C, Appendix D and Appendix L, Appendix C, Appendix D and Appendix.2005

Record L).

This section uses the redrafting method to modify the use of IEC 61558-2-12.2011 "transformers, reactors, power supply units and their combinations

All Part 2-12. Special Requirements and Tests for Constant Voltage Transformers and Power Supply Units.

The technical differences between this part and IEC 61558-2-12.2011 and their reasons are as follows.

---About the normative reference documents, this part has made technical adjustments to adapt to China's technical conditions, adjustments

The situation is reflected in Chapter 2, "Regulatory Citations", and the specific adjustments are as follows.

* Retained the technical differences between GB/T 19212.1-2016 and IEC 61558-1.2009 in Chapter 2, in order to

GB/T 19212.1-2016 is used together;

* Added references to GB/T 19212.1-2016 (see 19.1 and 19.3) and IEC 60417-DB (see 8.11) to facilitate

use.

--- Change the two voltage multiples of 1.06 in the original 19.1.1 to 1.1, in order to comply with the actual situation in China.

--- Removed the Appendix R from the original text, as it is useless for this part.

This section also made the following editorial changes.

--- In order to meet the unified numbering of GB/T 19212 series standard, change the

standard name to "transformer, reactor, power supply unit and its group"

Safety of safety - Part 13. Particular requirements and tests for constant voltage transformers and power supply units.

--- Deleted the first sentence and the second sentence in the original 18.3, because it is repeated with the statement in Chapter 18.

--- Deleted the first sentence in the original 18.4 (due to the repetition of the statement in Chapter 18) and the article number "18.101".

This part was proposed by China Electrical Equipment Industry Association.

This part is composed of the National Standardization Technical Committee for Small Power Transformers, Reactors, Power Supply Units and Similar Products (SAC/TC418).

Return to the mouth.

This section drafted by. Shenyang Transformer Research Institute Co., Ltd., Beijing Tairuite Testing Technology Service Co., Ltd., Shanghai

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1 Scope

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

This part of GB/T 19212 specifies the safety of general purpose constant voltage transformers and general purpose constant voltage power supply units. With electronic electricity

The road's constant voltage transformer is also included in this section.

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

Unless otherwise specified, the following "transformers" include general purpose constant voltage transformers and general purpose constant voltage power supply units.

This section applies to standing or mobile, single-phase or multi-phase, air-cooled (self-cooling or air-cooled), independent or supporting dry change

Pressure device.

---Constant voltage autotransformer;

---Constant pressure separation transformer;