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

GB/T 19212.3-2012

Replacing GB 19212.3-2006

[GB/T 19212.3-2012] Safety of power transformers, power supplies, reactors and similar products -- Part 3: Particular requirements and tests for control transformers and power supplies incorporating control transformers

电力变压器、电源、电抗器和类似产品的安全 第3部分：控制变压器和内装控制变压器的电源的特殊要求和试验

(English Translation)

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Foreword

All technical content in this Part of GB 19212 is mandatory.

GB 19212 "of power transformers, power supplies, reactors and similar products -" 1) now includes the following sections.

1) This series of standards, some parts are under "power transformers, power supplies, reactors and similar products," the title, some parts in the "Supply Voltage

For the next 1100V and below transformers, reactors, power supply units and similar products, "the title, the title of this series of standards possible future release

It will be modified.

--- Part 1. General requirements and tests;

--- Part 2. Particular requirements and general purpose test transformer isolated and built separate transformer power supply;

--- Part 3. Specific requirements and test control and built-in control transformer transformer power supply;

--- Part 4. Gas and oil burner ignition transformers for special requirements;

--- Part 5. Particular requirements and tests and built-in isolation transformer isolation transformer power supply device;

--- Part 6. Particular requirements for shaver transformers and shaver supply units;

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

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

--- Part 9. Particular requirements for bell and bell transformers;

--- Part 10. Particular requirements for class III portable transformers for filament lamps;

--- Part 13. Particular requirements for constant voltage transformers;

- Part 14. Particular requirements for auto and test transformers and autotransformers built power supply device;
- Part 15. Particular requirements for the regulator;
- Part 16. supply of medical locations Particular requirements for isolating transformers;
- Part 17. switched-mode power supply units and switch-mode power supply unit with the special requirements for transformers and tests;
- Part 20. Particular requirements for interference attenuation transformers;
- Part 21. Small reactors Particular requirements;
- Part 24. Particular requirements for transformers for construction sites.

Other parts are under consideration.

This is Part 3 GB 19212's. This is part of the GB 19212.1-2008 developed on the basis of this part of the need and

GB 19212.1-2008 used in conjunction.

This part is the GB 19212.1-2008 corresponding chapter, article supplement and modified so GB of content 19212.1-2008

Conversion-oriented part of the contents. The newly added section for GB 19212.1-2008 Terms numbered starting from 101.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This Part replaces GB 19212.3-2006 "Safety - Part 3 power transformers, power supply units and similar products. control transformer

Special requirements ", compared with GB 19212.3-2006, the main technical changes are as follows.

a) the standard name to "Safety - Part 3 power transformers, power supplies, reactors and similar products. control transformer and built-in control

System power transformer Particular requirements and tests ";

b) Chapter 1 increase in the content related to the contents control transformer power aspect, and provides built-in control transformer and control transformer

The power supply of the rated thermal output;

c) Chapter 2 adds support for GB reference of 1094.11;

d) Chapter 3 Modify the term "transformer" scope; modify the nominal heat output and allow instantaneous output of terms and definitions; increase

Plus terms and definitions instantaneous rated output current;

e) Chapter 6 increased the requirements for the internal operating frequency;

f) modify the contents of 14.1;

g) Modify the contents of 19.1, complemented output circuits.

This section uses the translation method identical with IEC 61558-2-2:2007 "of power transformers, power supplies, reactors and similar products -

Part 2-2. Control transformer and built-in control transformer power of special requirements and tests "(in English).

Correspondence between the consistency of the standards of international documents and normative references of the following documents.

Part 11 GB 1094.11-2007 power transformers. dry-type transformers (IEC 60076-11:2004, MOD).

For ease of use, this part of the IEC 61558-2-2:2007 also made the following editorial changes.

a) "this International Standard" by "this section";

b) Remove IEC 61558-2-2:2007 Foreword.

Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents.

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

This part of the National Small power transformers, reactors, power supply units and similar products Standardization Technical Committee (SAC/TC418)

Centralized.

This section is drafted. Shenyang Transformer Research Institute, China Electronics Standardization Institute, National Radio and Television Product Quality Supervision and Inspection

Test center (Beijing Terrett detection technology services limited liability company), Ministry of Information Industry Institute of Electronics fifth quality inspection center, Shanghai Quality

Inspection and Technical Research amount of electrical and electronic household appliances, quality inspection.

1 Scope

GB 19212.1-2008 this chapter is replaced by the following.

This part of GB 19212 specifies the safety requirements and built-in control transformer control transformer power supply, for example with regard to electrical, temperature Mechanical and safety regulations.

This section applies to control transformer and built-in control electronics and power transformers. This part is not intended to be used with the transformer

And power input and output terminals or output receptacle connector and an external circuit components.

This section does not apply to a transformer included in IEC 60076-11.

This section applies to Stationary or mobile, single-phase or multi-phase, air-cooled (self-cooled or air-cooled), stand-alone or with matching transformers and control

Built-in power supply control transformer, the rated supply voltage not exceeding AC 1000V, rated supply frequency and internal operating frequency not exceeding 500Hz.

Nominal heat output does not exceed.

--- Single-phase control transformer and built-in control transformer single phase power for 25kVA;

--- Multi-phase control transformer control transformer and built a multi-phase power supply for the 40kVA.

If the purchaser and producing another time protocol, this section also applies to the rated output does not limit the control transformer and built-in control

Power transformer.

This section applies to dry-type transformers, the windings may be encapsulated or non-encapsulated type.

Load output voltage or the rated output voltage not exceeding 1000V AC or ripple-free DC 1415V.

Independent of the control transformer control transformer and built an independent power source, no-load output voltage and/or the rated output voltage is not less than

50V AC or ripple-free DC 120V.

This section includes a control transformer is used only for use between installation procedures or by the end product standard does not require double insulation or circuit plus