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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 19212.11-2020

Safety of transformers, reactors, power supply units and combinations thereof - Part 11: Particular requirements and tests for separating transformers with high insulation level and separating transformers with output voltages exceeding 1 000 V

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Foreword

GB/T 19212 "Safety of Transformers, Reactors, Power Supply Devices and Their Combinations" 1) consists of the following parts:

1) In this series of standards, some parts are under the heading "Safety of power transformers, power supplies, reactors and similar products", and some parts are

Under the heading of 1100V and below the safety of transformers, reactors, power supply units and similar products, some parts are

Under the heading of "Safety of Source Device and Its Combination", the title of this series of standards may be revised in the future:

---Part 1: General requirements and tests;

---Part 2: Special requirements and tests for general purpose separating transformers and power supplies with built-in separating transformers;

---Part 3: Special requirements and tests for control transformers and power supplies with built-in control transformers;

---Part 4: Special requirements and tests for ignition transformers for gas and oil burners;

---Part 5: Special requirements and tests for isolation transformers and power supply devices with built-in isolation transformers;

---Part 6: Special requirements and tests for transformers for shavers, power supply devices for shavers, and power supply devices for shavers;

---Part 7: Special requirements and tests for safety isolating transformers and power supply devices 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 transformers and power supply devices for electric bells and electric clocks;

---Part 10: Special requirements and tests for transformers and power supply devices for class III portable tungsten filament lamps;

---Part 11: Special requirements and tests for separating transformers with high insulation level and separating transformers with an output voltage exceeding 1000V;

---Part 13: Special requirements and tests for constant voltage transformers and power supply devices;

---Part 14: Special requirements and tests for autotransformers and power supply devices with built-in autotransformers;

--- Part 15: Special requirements and tests for voltage regulators and power supply devices with built-in voltage regulators;

---Part 16: Special requirements and tests for isolation transformers for power supply in medical places;

---Part 17: Special requirements and tests for switching power supply devices and transformers for switching power supply devices;

---Part 20: Special requirements for interference attenuation transformers;

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

---Part 24: Special requirements for transformers used on construction sites;

--- Part 27: Special requirements and tests for transformers and power supply devices for energy saving and other purposes:

This part is Part 11 of GB/T 19212:

This section was drafted in accordance with the rules given in GB/T 1:1-2009:

This part uses the redrafting law to amend and adopt IEC 61558-2-10:2014 "Safety of Transformers, Reactors, Power Supply Units and Their Combinations"

Full Part 2-10: Special requirements and tests for separating transformers with high insulation levels and separating transformers with output voltages exceeding 1000V:

The technical differences between this part and IEC 61558-2-10:2014 and the reasons are as follows:

---Regarding normative reference documents, this section has made adjustments with technical differences to adapt to my country's technical conditions or facilitate the use of

The conditions of application and adjustment are collectively reflected in Chapter 2 "Normative Reference Documents": The specific adjustments are as follows:

* The technical differences between GB/T 19212:1-2016 and IEC 61558-1:2009 in Chapter 2 are retained to facilitate the

GB/T 19212:1-2016 supporting use;

* Replace IEC 61558- with GB/T 19212:1-2016 and GB/T 19212:17 which are modified and adopted international standards:

1:2005 (including its No: 1 amendment) and IEC 61558-2-16;

* Added reference to IEC 60417-DB (see Chapter 8):

--- Amend "creepage distance, electrical clearance and penetration distance" in the original text 26:1 to "electrical clearance"; change the original text 26:1:101

The "creepage distance, electrical clearance and penetration distance" in "Creepage distance" is modified to "creepage distance" to meet the actual situation in my country:

This section also made the following editorial changes:

---In order to meet the uniform numbering of the GB/T 19212 series of standards, the standard name is changed to "transformers, reactors, power supply devices and their

Combined safety Part 11: Characteristics of high-insulation level separation transformers and separation transformers with an output voltage exceeding 1000V

Special requirements and tests";

---Introduction is added in Chapter 2 and Chapter 3;

--- Amend Table 102 in Note 2 of 26:1 to Table 103;

--- Delete the sentence below Note 2 and Note 7 in the original text 26:1, because it is consistent with the content in GB/T 19212:1-2016

repeat;

---Adjust the original table 103 to 26:1;

---Move the "altitude not exceeding:2000m" in Note 3 of the original table 104 to the header, and delete the contents of Note 3 and Note 2;

---Change the IEC 60076-11 and IEC 61050 in the references to the corresponding national standards:

This part was proposed by China Electrical Equipment Industry Association:

This part is organized by the National Standardization Technical Committee (SAC/TC418) for small power transformers, reactors, power supply devices and similar products

Focus:

Drafting organizations of this section: Shenyang Transformer Research Institute Co:, Ltd:, Beijing Tairuite Testing Technology Service Co:, Ltd:, Tongling

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