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

GB/T 15576-2020

Replacing GB/T 15576-2008

Low-voltage reactive power compensation assemblies

低压成套无功功率补偿装置

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Table of Contents

1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Classification of devices	3
4.1 Use place	3
4.2 Installation position	3
4.3 Compensation phase number	3
4.4 Component type of switching capacitor	3
4.5 With or without harmonic suppression or filtering function	3
5 Information	4
5.1 Marking required by the device	4
5.2 File	4
5.3 Identification of devices and/or components	4
6 Conditions of use	5
6.1 Normal use conditions	5
6.2 Special conditions of use	5
6.3 Transportation and storage conditions	6
7 Structural requirements	6
7.1 Strength of materials and components	6
7.2 Degree of protection of the device enclosure	7
7.3 Clearance and creepage distance	7
7.4 Protection against electric shock	9
7.5 Combination of electrical components and accessories	10
7.6 Internal circuit and connection	10
7.7 External wire terminal	11
8 Performance requirements	12
8.1 Dielectric properties	12
8.2 Temperature rise limit	12
8.3 Short-circuit protection and short-circuit withstand strength	13
8.4 Electromagnetic compatibility (EMC)	13
8.5 Noise (applicable to devices with harmonic suppression and filtering functions)	14
8.6 Device control and protection	14

8.7 Discharge test	14
8.8 Dynamic response time of the device	14
8.9 Requirements for devices with suppressing harmonics or filtering functions	14
8.10 Integrated low-voltage reactive power compensation device	16
9 Design Verification	16
9.1 General	16
9.2 Strength of materials and components	17
9.3 Degree of protection of the device	17
9.4 Clearance and creepage distance	17
9.5 Protection against electric shock and protection of circuit integrity	17
9.6 Combination of electrical components and accessories	18
9.7 Internal circuit and connection	18
9.8 External wire terminal	18
9.9 Dielectric properties	18
9.10 Temperature rise verification	19
9.11 Short-circuit withstand strength	19
9.12 Electromagnetic compatibility (EMC)	19
9.13 Mechanical operation	19
9.14 Noise test	19
9.15 Control and protection of the device	20
9.16 Discharge test	20
9.17 Dynamic response time detection	20
9.18 Harmonic suppression or filtering function verification	20
9.19 Power-on operation test	20
9.20 Ambient temperature performance test (only applicable to outdoor devices)	21
9.21 Functional verification of integrated low-voltage reactive power compensation device	21
10 Routine Inspection	21
10.1 General Rules	21
10.2 Degree of protection of the enclosure	21
10.3 Clearance and creepage distance	21
10.4 Electric shock protection and protection of circuit integrity	21
10.5 Combination of built-in components	22
10.6 Internal circuits and connections	22
10.7 External wire terminal	22

10.8 Mechanical operation	22
10.9 Dielectric properties	22
10.10 Wiring, operation performance and function	22
10.11 Power frequency overvoltage protection test	22
10.12 Phase failure protection test	22
9 List of verification and inspection items	23

Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard replaces GB/T 15576-2008 "Low-Voltage Complete Reactive Power Compensation Device". Compared with GB/T 15576-2008, the main technical changes of this standard are as follows:

---Reorganized the overall structure;

---Modified the term "low-voltage complete reactive power compensation device", "centralized compensation device", "grouped compensation device", "terminal compensation device" Definitions of "inrush current" and "rated total capacity" (see 3.1, 3.3, 3.4, 3.5,

3.7 and 3.14, 3.1~3.5,

3.13 in the.2008 edition);

--- Added the term "integrated low-voltage reactive power compensation device" (see 3.2);

---Added the performance requirements and design verification of the integrated low-voltage reactive power compensation device (see

---Modified two classification methods according to the number of compensation phases and according to the type of switching capacitor components (see

4.3 and 4.4,.2008 edition

---Increased the requirements for the protection level of ultraviolet radiation, mechanical strength, lifting device, device shell, and external wire terminal Its verification method (see 7.1.4, 7.1.5, 7.1.6, 7.2, 7.7, 9.2.4, 9.2.5, 9.2.6,

---Modified the verification method and changed the type test to design verification (see Chapter 9, Chapter 6 of the.2008 edition);

---Modified the verification method, the factory test was changed to routine inspection (see Chapter 10, Chapter 7 of the.2008 edition);

---Modified the specified values of clearances and creepage distances and their verification

methods (see

7.1.4 of the 2008 edition);

1 Scope

GB/T 15576-2020 is the Chinese national standard on low-voltage reactive power compensation assemblies, in the field of electrical engineering. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 19 November 2020 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 June 2021. Classification: ICS 29.120.50, CCS K31. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the terms and definitions, classification, conditions of use, structure, and structure of low-voltage complete reactive power compensation devices (hereinafter referred to as devices). Performance requirements, design verification and routine inspections. This standard applies to low-voltage complete sets of reactive power with rated AC voltage not exceeding 1000V (or 1140V) and frequency not exceeding 1000Hz Rate compensation device.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this document. For undated references, the latest version (including all amendments) applies to this document.

GB/T 1094.6 Power Transformer Part

5 Test flame needle flame test method device, confirmation test method and guide

GB/T 7251.1-2013 Low-voltage switchgear and control equipment Part

6 Reactor

GB/T 3768 Acoustic sound pressure method is used to determine the sound power level and sound energy level of noise sources. A simple method using the envelope measurement surface above the reflecting surface

GB/T 4025 Basic and safety rules for human-machine interface signs and coding rules for