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**NB**

**ENERGY INDUSTRY STANDARD OF THE  
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**General technical requirements of active voltage sag curing  
device up to 10 kV  
(English Translation)**

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## Reference

## Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1: Structure and Drafting Rules for Standardization Documents" drafting.

Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents.

## 1 Scope

This document specifies the general requirements, technical requirements, test requirements, Labeling, packaging, transportation and storage.

This document is applicable to AC equipment with a voltage level of 10kV and below, based on power electronic conversion technology to achieve voltage sag control.

## 2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text. Among them, dated references for documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to this document.

GB/T 311.1 Insulation coordination - Part 1: Definitions, principles and rules GB/T 2424.25-2000 Environmental testing for electrical and electronic products - Part 3: Test guidelines - Earthquake test methods GB/T 4025 Basic and safety rules for human-machine interface signs and markings Code rules for indicators and operating devices GB/T 4026 Basic and safety rules for the identification of human-machine interface signs and identification of equipment terminals, conductor terminals and conductors GB/T 4208-2017 Enclosure protection level (IP code) GB 4824-2019 Limits and measurement methods of radio frequency disturbance characteristics of industrial, scientific and medical equipment GB/T 7251.1-2013 Low-voltage switchgear and controlgear assemblies - Part 1: General GB/T 11287-2000 Electrical relays Part 21: Measuring vibrations, shocks, bumps and earthquakes of relays and protective equipment Test part 1.Vibration test (sinusoidal) GB/T 13306 Signage GB/T 13384 General Technical Specifications for Packaging of Mechanical and Electrical Products GB/T 14537-1993 Measuring relays and protective devices shock and bump test GB/T 16927.1 High Voltage Test Techniques Part 1: General Definitions and Test Requirements GB/T 16935.1 Insulation coordination of equipment in low-voltage systems - Part 1: Principles, requirements and tests GB 17625.1

Electromagnetic Compatibility Limits Harmonic Current Emission Limits (Equipment Each Phase Input Current  $\leq 16A$ ) GB/Z 17625.4 EMC Limits Evaluation of Distortion Load Emission Limits in Medium and High Voltage Power Systems GB/Z 17625.6  
Electromagnetic Compatibility Limits For harmonic current generated by equipment with rated current greater than 16A in low-voltage power supply system flow limit GB/T 17626.2-2018 Electromagnetic Compatibility Test and Measurement Technology  
Electrostatic Discharge Immunity Test GB/T 17626.3-2016 Electromagnetic Compatibility Test and Measurement Technology Radio Frequency Electromagnetic Field Radiation Immunity Test GB/T 17626.4-2018 Electromagnetic Compatibility Test and Measurement Technology Electrical Fast Transient Burst Immunity Test GB/T 17626.5-2019  
Electromagnetic Compatibility Test and Measurement Technology Surge (Shock) Immunity Test GB/T 17626.6-2017 Electromagnetic compatibility test and measurement technology Conducted disturbance immunity induced by radio frequency field GB/T 17626.11-2008  
Electromagnetic Compatibility Test and Measurement Techniques Voltage Dips, Short Interruptions and Voltage Change Immunity test GB/T 17626.12-2013 Electromagnetic Compatibility Test and Measurement Technology Ringing Wave Immunity Test