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NATIONAL STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

GB/T 18216.9-2015

Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. --Equipment for testing, measuring or monitoring of protective measures -- Part 9: Equipment for insulation fault location in IT systems

交流1000V和直流1500V以下低压配电系统电气安全 防护措施的试验、测量或监控设备 第9部分：IT系统中的绝缘故障定位设备

(English Translation)

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References

Foreword

GB/T 18216 "AC 1000V and 1500V DC low voltage distribution systems for electrical safety protection measures for testing, measuring or Monitoring equipment "is divided into 13 parts.

--- Part 1. General requirements;

--- Part 2. Insulation resistance;

--- Part 3. Loop impedance;

--- Part 4. equipotential grounding resistance and grounding resistance;

--- Part 5. Resistance to ground;

--- Part 6. TT and TN systems a residual current protective device (RCD);

--- Part 7. Phase sequence;

Part --- Article 8. IT system insulation monitoring device;

--- Part 9. IT system insulation fault location equipment;

--- Part 10. Integrated device detecting or monitoring protective measures;

--- Part 11. Effectiveness Class A and Class B residual current monitoring in TT, TN, IT system;

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--- Part 12. Performance measuring and monitoring devices (PMD);

--- Part 13. power distribution system for leakage current measurement handheld current clamps and sensors.

This section GB/T Part of 918,216.

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

This section uses the translation method is equivalent to using IEC 61557-9:2009 "AC 1000V and 1500V DC low voltage distribution systems Electrical security measures for testing, measuring or monitoring equipment - Part 9. IT system insulation fault location device "(in English).

Consistency correspondence between this part of international documents and normative references of our files are as follows.

--- GB 4793.1-2007 measurement, control and laboratory safety requirements for electrical equipment - Part 1. General requirements (IEC 61010-1:2001, IDT)

--- GB/T 4798.1-2005 application of electric and electronic products environmental conditions of the first portion of the reservoir (IEC 60721-3-1:1997, MOD)

--- GB/T 4798.2-2008 application of electric and electronic products environmental conditions - Part 2. Transport (IEC 60721-3-2:1997, MOD)

--- GB/T 4798.3-2007 application of electric and electronic products environmental conditions - Part 3. Stationary use at weather protected locations (IEC 60721-3-3:2002, MOD)

--- GB 16895.21-2011 low-voltage electrical installations - Part 4-41. Protection for safety Protection against electric shock (IEC 60364-4-41.

2005, IDT)

--- Insulation coordination GB/T 16935.1-2008 within the low-pressure system equipment - Part 1. Principles, requirements and tests (IEC 60664-1:2007, IDT)

--- GB/T 16935.3-2005 within low-voltage systems Insulation coordination for equipment - Part 3. Using the coating, potting or molding for Protection against pollution (IEC 60664-3:2003, IDT)

--- GB/T 18216.1-2012 AC 1000V and 1500V DC low voltage distribution systems electrical safety precautions Testing, measuring or monitoring equipment - Part 1. General requirements (IEC 61557-1:2007, IDT)

--- GB/T 18216.8-2015 AC 1000V and 1500V DC low voltage distribution systems electrical safety precautions Testing, measuring or monitoring equipment - Part 8. IT system insulation monitoring devices (IEC 61557-8:2007, IDT)

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--- GB/T 18268.24-2010 measurement, control and laboratory use EMC requirements for electrical equipment Part 24. Special Specific requirements in line with the insulation monitoring device and comply with the IEC 61557-8 test IEC 61557-9 Insulation fault location devices of Configuration, operating conditions and performance criteria (IEC 61326-2-4:2006, IDT).

This part made the following editorial changes.

--- With GB/T 18216 in this section instead of IEC 61557-9:2009;

--- Decimal symbol with "." Instead of "." 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 China Machinery Industry Federation.

This part of the National Electrical Instrument Standardization Technical Committee (SAC/TC104) centralized.

This section is drafted. Shanghai Instrument Research Institute, Dongtou sea-Electric Co., Ltd., Shanghai Industrial Technology Research Institute, Shanghai Grand Science, Hangzhou BH Electric Co., Ltd., Suzhou Electronic Instrument Co., Ltd. Ming Wei.

1 Scope

GB/T 18216 in this section specifies the requirements for insulation fault location system, insulation fault location system for ungrounded AC IT system EC, there is electrically connected to the DC circuit and a nominal voltage not exceeding 1000V AC ungrounded AC IT systems, as well as the DC voltage is less than 1500V insulation fault ungrounded DC IT systems to locate any part, regardless of the measurement principle.

Note 1: IT systems to elaborate IEC 60364-4-41 (including other documents) in. Additional information for selecting the monitoring device should be in other standards Noted.

Note 2: You can find more information on insulation fault location in the following standards. IEC 60364-4-41:2005 of 411.6, and the IEC 60364-5-53.

2001 531.3.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

IEC 60364-4-41:2005 low-voltage electrical installations Part 4-41. Protection for safety Protection against electric shock (Low-voltageelectrical instalations-Part 4-41.

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Protectionforsafety-Protectionagainstelectricshock) IEC 60664-1 within low-voltage systems with insulated equipment - Part 1. Principles, requirements and tests (Insulationcoordination forequipmentwithinlow-voltagesystems-Part 1. Principles, requirementsandtests) A low pressure system in the IEC 60664-3 Insulation coordination for equipment - Part 3. antipollution with potting or die coating use (Insulationcoordinationforequipmentwithinlow-voltagesystems-Part 3. Useofcoating, potting ormouldingforprotectionagainstpolution) IEC 60721-3-1 Classification of environmental conditions - Part 3. Environmental parameters and their severities grouping Section 1. Storage (Clas-sificationofenvironmentalconditions-Part 3. Classificationofgroupsofenvironmentalparameters andtheirseverities-Section1. Storage) IEC 60721-3-2 Classification of environmental conditions - Part 3. Environmental parameters and their severities Section 2 groups. Transport (Clas-sificationofenvironmentalconditions-Part 3. Classificationofgroupsofenvironmentalparameters andtheirseverities-Section2. Transportation) IEC 60721-3-3 Classification of environmental conditions - Part 3. Environmental parameters and their severities packet of the first three. in weatherproof Influence fixed place of use (Classificationofenvironmentalconditions-Part 3. Classificationofgroupsof environmentalparametersandtheirseverities-Section3. Stationaryuseatweatherprotectedloca-tions) IEC 61010-1:2001 measurement, control and laboratory use Part 1 Safety requirements for electrical equipment. General requirements (Safetyre-quirementsforelectricalequipmentformeasurement, control, andlaboratoryuse-Part 1. General requirements) EMC IEC 61326-2-4 Electrical equipment for measurement, control and laboratory use requirements Part 2-4. Particular requirements apply by

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