



TEST REPORT

CEPRI-EETC08-2022-0022 (E)

Client: ANHUI CHARDON ELECTRIC LTD.

Object: 8.7/15(17.5)kV cold shrinkable straight joint

Type: 17-CSCJ 1×185

Test Category: Type Tests



POWER INDUSTRY QUALITY INSPECTION AND TEST



Power Industry Quality Inspection and Test Center for Electric Equipment

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Catalogue

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| Test Report | Power Industry Quality Ins Center for Electric E | CEPRI-EETC08-2022-0022(E Total 16 Page 2 | |
|--------------------|---|---|---|
| Client | ANHUI CHARDON ELECTRIC | Manufacturer | ANHUI CHARDON ELECTRIC LTD. |
| Object | 8//vs/(19/5)kV end hrhukable straight join | Туре | 17-CSCJ 1×185 |
| Sampling procedure | 检测the Client 表用音 | Serial No. | EETC08-22/01/03-006 |
| Test Category | Type Tests | Date | 2022.01.18~2022.05.10 |
| Requirements | 1. GB/T 12706.4—2020 Power cal rated voltages from 1 kV (U_m =1.2 requirements on accessories for cab 35 kV (U_m =40.5 kV) 2. IEC 60502-4:2010 Power cable rated voltages from 1 kV(U_m =1.2 kV on accessories for cables with 30 kV (U_m =36 kV) | (2 kV) up to 35 kV ($(4 kV)$) up to 35 kV ($(4 kV)$) up to 30 kV ($(4 kV)$) up to 3 | $U_{\rm m}$ =40.5 kV) — Part 4: Test from 6 kV ($U_{\rm m}$ =7.2 kV)up to ation and their accessories fokV) - Part 4: Test requirement |
| Conclusion | According to GB/T 12706.4 — 2020 8.7/15(17.5)kV cold shrinkable s CHARDON ELECTRIC LTD All t | traight joint which | were provided by ANHU |
| Note | In the event of any difference in mea English version. | nings, the Chinese repo | ort shall take priority over the |
| Tested by : 邓凯 | 25 EN | 赫留洋 精 | . 審译 |
| Checked by: 张 | ^伟 张伟 Veri | ified by: 苗付贵 . | 树霞 |
| Approved by: 阎 | Bar 阅查说 Date | of issue: 2022-05-3 | 0 |

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Test Results

| No. | Item | Requirements | | Resu | lts | | | Evaluation | |
|-----|--|--|--|--|----------|--------|------------|------------|--------|
| 1 | Sequence 2.1 | 1 | | 1 | | | | 1 | |
| 1.1 | AC voltage test | No breakdown shall occur at 39 kV for 5 min | No breakdown occurred on the combination samples at 39 kV for 5 min | | | passed | | | |
| 1.2 | DC voltage test | No breakdown shall occur at 35 kV for 15 min | No breakdown occurred on the combination samples at 35 kV for 15 min | | | | passed | | |
| | | | Phase | 1 | 2 | 3 | 4 | | |
| | Partial discharge | The magnitude of the discharge | Voltage (kV) | 15 | 15 | 15 | 15 | | |
| 1.3 | test at ambient | test at ambient at 15 kV shall | at 15 kV shall not exceed 10 pC | Sensitivity (pC) | 2.8 | 2.8 | 2.8 | 2.8 | passed |
| | | | Discharge (pC) | No det | | | | | |
| 1.4 | Impulse voltage test at 95 °C~100 °C | No breakdown shall occur at 10 positive and 10 negative impulses of 95 kV | No breakdown occurred on the combination samples at 10 positive and 10 negative impulses of 95 kV (See Appendix C.1) | | | |) | passed | |
| 1.5 | Heating cycle voltage test | No breakdown shall occur during 30 cycles in air and 30 cycles under water at the conductor temperature of 95℃ to 100℃ and 22 kV | No breakdown occurred on the combination samples during 30 cycles in air and 30 cycles under water at the conductor temperature of 95°C to 100°C and 22 kV | | | | 30 nder | passed | |
| | | | Phase | 1 | 2 | 3 | 4 | | |
| | toot at | The magnitude of the discharge | Voltage (kV) | 15 | 15 | 15 | 15 | | |
| 1.6 | | at 15 kV shall not exceed 10 pC | Sensitivity (pC) | 2.2 | 2.2 | 2.8 | 2.8 | passed | |
| | | | | Discharge No detectable discharge (pC) exceeding the sensitivity | | | | | |
| 0 | | | Phase | 1 | 2 | 3 | 4 | | |
| | Partial discharge | The magnitude of the discharge | Voltage (kV) | 15 | 15 | 15 | 15 | | |
| 1.7 | test at ambient temperature | at 15 kV shall not exceed 10 pC | Sensitivity (pC) | 3.2 | 3.2 | 3.0 | 3.0 | passed | |
| | | | Discharge (pC) | No de | tectable | | | | |



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| No. | Item | Requirements | Results | Evaluation |
|---|--|--|--|------------|
| 1.8 | Impulse voltage test | No breakdown shall occur at 10 positive and 10 negative impulses of 95 kV | No breakdown occurred on the combination samples at 10 positive and 10 negative impulses of 95 kV (See Appendix C.2) | passed |
| 1.9 | AC voltage test | No breakdown shall occur at 22 kV for 15 min | No breakdown occurred on the combination samples at 22 kV for 15 min | passed |
| It is advised that the accessory is examined for signs of any of the following: (i) cracking in the filling media and/or tape or tube components; (ii) a moisture path across a primary seal; (iii) corrosion and/or tracking and/or erosion; (iv) leakage of an insulating material. | | (i) No cracking in the filling media and tape or tube components; (ii) No moisture path across a primary seal; (iii) No evident corrosion, tracking and erosion; (iv) No leakage of an insulating material. | passed | |
| 2 | Sequence 2.2 and 2.3 | | 1 | / / / |
| 2.1 | AC voltage test | No breakdown shall occur at 39 kV for 5 min | No breakdown occurred on the combination samples at 39 kV for 5 min | passed |
| 2.2 | DC voltage test No breakdown shall ocated at 35 kV for 15 minus | | No breakdown occurred on the combination samples at 35 kV for 15 min | passed |
| 2.3 | Thermal short-circuit test (screen) | No visible deterioration at 3.0 kA, 1 s, twice | No visible deterioration at 3.010 kA, 1.04 s and 3.022kA, 1.04 s (See Appendix C.4) | passed |
| 2.4 | Thermal short-circuit test (conductor) | No visible deterioration at 23.7kA, 2 s, twice | No visible deterioration at 24.16 kA, 2.04s and 24.25 kA, 2.04s (See Appendix C.5) | passed |
| 2.5 | Dynamic short-circuit test | No visible deterioration at 83.9 kA, not less than 10 ms | No visible deterioration at 84.95 kA, 87 ms (See Appendix C.6) | passed |



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| No. | Item Requirements | | Results | Evaluation |
|-----|-------------------------|---|---|------------|
| 2.6 | Impulse voltage test | No breakdown shall occur at 10 positive and 10 negative impulses of 95 kV | No breakdown occurred on the combination samples at 10 positive and 10 negative impulses of 95 kV (See Appendix C.3) | passed |
| 2.7 | AC voltage test | No breakdown shall occur at 22 kV for 15 min | No breakdown occurred on the combination samples at 22 kV for 15 min | passed |
| 2.8 | Examination | It is advised that the accessory is examined for signs of any of the following: (i) cracking in the filling media and/or tape or tube components; (ii) a moisture path across a primary seal; (iii) corrosion and/or tracking and/or erosion; (iv) leakage of an insulating material. | (i) No cracking in the filling media and tape or tube components; (ii) No moisture path across a primary seal; (iii) No evident corrosion, tracking and erosion; (iv) No leakage of an insulating material. | passed |

Content

1. Sequence 2.1 in Table 2 of GB/T 12706.4-2020

1.1 AC voltage test

No breakdown occurred at 39 kV for 5 min.

Result: Passed.

1.2 DC voltage test

No breakdown occurred at 35 kV for 15 min.

Result: Passed.

1.3 Partial discharge test at ambient temperature

The test voltage was raised gradually to and held at 18 kV for 10 s and then slowly reduced to 15 kV.

| Requirements | Result | | | | |
|----------------------------|--------|------------------|----------------|--|--|
| | Phase | Sensitivity (pC) | Discharge (pC) | | |
| 15kV, the magnitude of the | 1 | 2.8 | 1.4 | | |
| discharge shall not exceed | 2 | 2.8 | 1.4 | | |
| 10 pC | 3 | 2.8 | 1.4 | | |
| | 4 | 2.8 | 1.4 | | |

Result: Passed.



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1.4 Impulse voltage test at 95 °C~100 °C

The conductor of the cable was heated and stabilized for at least 2 h at a temperature of 95 $^{\circ}$ C \sim 100 $^{\circ}$ C. No breakdown occurred at 10 positive and 10 negative impulses of 95 kV.

Result: Passed.

1.5 Heating cycle voltage test

Each heating cycle in air was at least 8 h duration with at least 2 h at a steady temperature of 5 $^{\circ}$ C to 10 $^{\circ}$ C above the maximum cable conductor temperature in normal operation, followed by at least 3 h of natural cooling to within 10 $^{\circ}$ C of ambient temperature. No breakdown occurred during 30 cycles in air and 30 cycles under water at the conductor temperature of 95 $^{\circ}$ C to 100 $^{\circ}$ C and 22 kV.

Result: Passed.

1.6 Partial discharge test at 95 °C~100 °C

The test voltage was raised gradually to and held at 18 kV for 10 s and then slowly reduced to 15 kV. The conductor temperature was 95°C to 100°C during the test.

| Requirements | Result | | | | |
|----------------------------|--------|------------------|----------------|--|--|
| | Phase | Sensitivity (pC) | Discharge (pC) | | |
| 15kV, the magnitude of the | 1 | 2.2 | 1.1 | | |
| discharge shall not exceed | 2 | 2.2 | 1.1 | | |
| 10 pC | 3 | 2.8 | 1.4 | | |
| | 4 | 2.8 | 1.4 | | |

Result: Passed.

1.7 Partial discharge test at ambient temperature

The test voltage was raised gradually to and held at 18 kV for 10 s and then slowly reduced to 15 kV.

| Requirements | Result | | | | |
|----------------------------|--------|------------------|----------------|--|--|
| | Phase | Sensitivity (pC) | Discharge (pC) | | |
| 15kV, the magnitude of the | 1 | 3.2 | 1.6 | | |
| discharge shall not exceed | 2 | 3.2 | 1.6 | | |
| 10 pC | 3 | 3.0 | 1.5 | | |
| | 4 | 3.0 | 1.5 | | |

Result: Passed.

1.8 Impulse voltage test

No breakdown occurred at 10 positive and 10 negative impulses of 95 kV.

Result: Passed.

1.9 AC voltage test

No breakdown occurred at 22 kV for 15 min.

Result: Passed.

1.10 Examination

It is advised that the accessory is examined for signs of any of the following: (i) cracking in the filling media and/or tape or tube components; (ii) a moisture path across a primary seal; (iii) corrosion and/or tracking and/or erosion; (iv) leakage of an insulating material.

Result: Passed.



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2. Sequence 2.2 and 2.3 in Table 2 of GB/T 12706.4-2020

2.1 AC voltage test

No breakdown occurred at 39 kV for 5 min.

Result: Passed.

2.2 DC voltage test

No breakdown occurred at 35 kV for 15 min.

Result: Passed.

2.3 Thermal short-circuit test (screen)

At the beginning of the test, the cable conductor was heated to reach a steady temperature of 5 $^{\circ}$ C to 10 $^{\circ}$ C above the maximum cable conductor temperature in normal operation and shall last for at least 2 h. Then two short-circuits were applied to the screen. The short-circuit current and duration time was specified as the agreement between manufacturer and user according to the actual short-circuit condition of the power grid. Between the two short-circuits, the test loop was allowed to cool to a temperature less than 10 $^{\circ}$ C above its temperature prior to the first short-circuit. There was no visible deterioration on the samples.

Ambient temperature: 15.0℃

| Requirements | Result |
|-----------------------------|--|
| No visible deterioration at | No visible deterioration at 3.010 kA, 1.04 s and |
| 3.0 kA, 1 s, twice | 3.022kA, 1.04 s (See Appendix C.4) |

Result: Passed.

2.4 Thermal short-circuit test (conductor)

Two short-circuits were applied using AC to raise the conductor temperature to the maximum permissible short-circuit temperature (250 $^{\circ}$ C) of the cable within 5 s. Between the two short-circuits, the test loop was allowed to cool to a temperature less than 10 $^{\circ}$ C above its temperature prior to the first short-circuit. There was no visible deterioration on the samples.

Ambient temperature: 20.0℃

| Requirements | Result |
|--|--|
| No visible deterioration at 23.7kA, 2 s, twice | No visible deterioration at 24.16 kA, 2.04s and 24.25 kA, 2.04s (See Appendix C.5) |

Result: Passed.

2.5 Dynamic short-circuit test (conductor)

The dynamic short-circuit current value was 2.5 times of the thermal short-circuit value when the thermal short-circuit time equals 1s. There was no visible deterioration on the samples after the short-circuit lasts for at least 10ms.

| Requirements | Result |
|---|--|
| No visible deterioration at 3.9 kA, not less than 10 ms | No visible deterioration at 84.95 kA, 87 ms (See Appendix C.6) |

Result: Passed.

2.6 Impulse voltage test

No breakdown occurred at 10 positive and 10 negative impulses of 95 kV.

Result: Passed.



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2.7 AC voltage test

No breakdown occurred at 22 kV for 15 min.

Result: Passed.

2.8 Examination

It is advised that the accessory is examined for signs of any of the following: (i) cracking in the filling media and/or tape or tube components; (ii) a moisture path across a primary seal; (iii) corrosion and/or tracking and/or erosion; (iv) leakage of an insulating material.

Result: Passed.

Appendix A Object Parameters

A.1 Sample state

The sample was received by Power Cable Station on 03/01/2022. The sample was in good condition.

A.2 Sample

The sample is designed with stress cone structure and the raw liquid material is liquid silicone rubber. The material of connector is T2 copper. The cable conductor is compacted with the connector by confining pressure.

A.3 The number and installation of samples

According to GB/T 12706.4 - 2020, it was required that four sets of straight joints to be tested were installed by the manufacturer on four length of cables forming No.1, NO.2, NO.3 and No.4 combination samples on which the type tests sequence 2.1, 2.2 and 2.3 were carried out. Four sets of indoor terminations and four sets of outdoor joints were also installed by the manufacturer on the combination samples. The cable used in the combination samples was a XLPE insulated single-core cable for rated voltage $8.7/15 \, \text{kV}$, a cross-section of $185 \, \text{sq.mm}$.

A.4 Photograph of samples





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A.5 Photograph of dissected samples



Appendix B The Main Test Devices

| No. | Name/ Type/ Specification | Serial No. | Measurement Range | Uncertainty / Accuracy class / Maximum Permissible Error | Calibration Institute | Valid Date |
|-----|---|-----------------|----------------------|--|--|------------|
| 1 | 150kV test system | EETC08-0 267 | (0∼150)kV | Grade 3 | National high voltage measurement station | 2022.11.23 |
| 2 | JFD-2H PD measurement system | EETC08-0 013 | (0.5~1000) pC | Class 10 | National high voltage measurement station | 2022.05.19 |
| 3 | FY I 900/600 Weakly damped capacitive voltage divider | EETC08-0 019 | (0~900) kV | Class 3 | National high voltage measurement station | 2022.06.29 |
| 4 | CY2009 Data collected system | EETC05-2 056 | 20A~300 kA | Class 1 | The 29th Metrology and Testing Center of the Ministry of Machinery Industry (Tianshui) | 2022.08.27 |
| 5 | LCC-V Heating cycle monitoring system | EETC08-0 042 | (0~3000) A | Class 3 | National high voltage measurement station | 2023.03.30 |
| 6 | 287C Digital voltage meter | EETC08-0 148 | (0~700) V | Class 1 | Vkan Certification & Testing Co., Ltd. Measuring Center | 2022.05.20 |



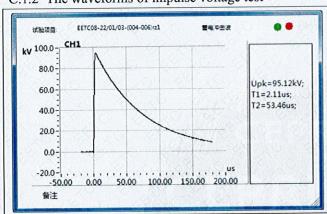
Appendix C Waveforms

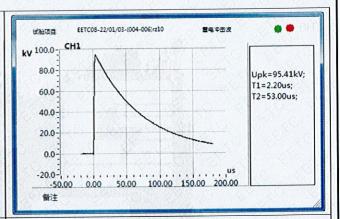
C.1 The values and waveforms of impulse voltage on the combination samples before heating cycles voltage test

C.1.1 The values of impulse voltage test

Atmosphere: 0.1012MPa Relative humidity: 55% Ambient temperature: 10.5℃ Positive polarity 95.7 95.4 95.1 93.8 95.8 94.8 95.2 94.7 95.1 94.7 (kV) Negative polarity 95.1 94.6 95.0 94.8 95.4 95.2 95.3 95.0 93.9 95.2 (kV)

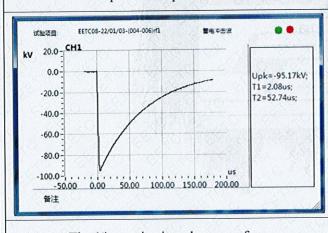
C.1.2 The waveforms of impulse voltage test

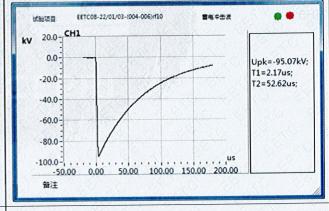




The 1st positive impulses waveform

The 10th positive impulses waveform





The 1st negative impulses waveform

The 10th negative impulses waveform

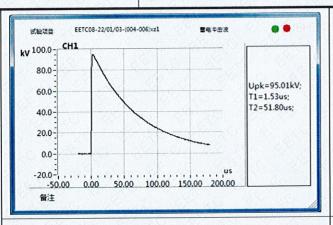
C.2 The values and waveforms of impulse voltage on the combination samples after heating cycles voltage test

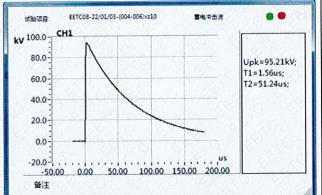
C.2.1 The values of impulse voltage test

| Ambient temper | rature:22. | 5°C | Relativ | e humidi | ty:58% | Atmo | osphere: 0 | .1020MPa | a | |
|------------------------|------------|------|---------|----------|--------|------|------------|----------|------|------|
| Positive polarity (kV) | 95.0 | 95.6 | 95.2 | 96.3 | 95.2 | 95.7 | 94.5 | 95.2 | 94.1 | 95.2 |
| Negative polarity (kV) | 95.8 | 95.8 | 95.1 | 95.6 | 96.1 | 95.1 | 95.0 | 94.5 | 95.1 | 94.7 |

C.2.2 The waveforms of impulse voltage test

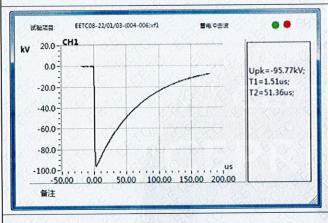


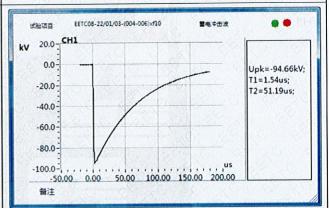




The 1st positive impulses waveform

The 10th positive impulses waveform





The 1st negative impulses waveform

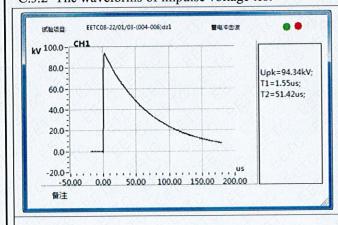
The 10th negative impulses waveform

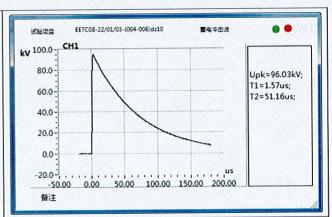
C.3 The values and waveforms of impulse voltage on the combination samples after thermal and dynamic short-circuit tests

C.3.1 The values of impulse voltage test

| Ambient temper | rature:23. | 4°C | Relativ | e humidi | ty: 46% | Atm | osphere: (| 0.1004MP | a | J. Maria Kah |
|------------------------|------------|------|---------|----------|---------|------|------------|----------|------|--------------|
| Positive polarity (kV) | 94.3 | 94.3 | 94.4 | 94.0 | 95.9 | 95.0 | 95.6 | 95.4 | 96.3 | 96.0 |
| Negative polarity (kV) | 95.0 | 96.4 | 93.9 | 93.8 | 96.3 | 93.9 | 94.1 | 95.7 | 93.9 | 96.4 |

C.3.2 The waveforms of impulse voltage test





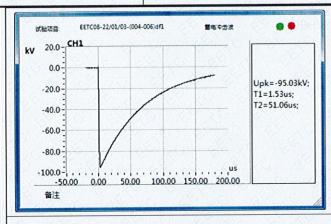
The 1st positive impulses waveform

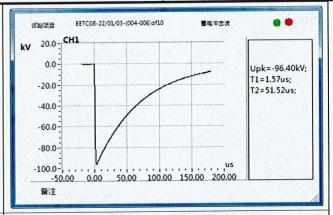
The 10th positive impulses waveform



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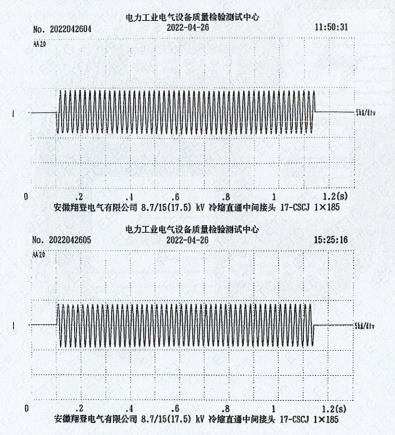




The 1st negative impulses waveform

The 10th negative impulses waveform

C.4 The waveform of thermal short-circuit tests of the combination samples (screen)



动、热 稳 定 试 验

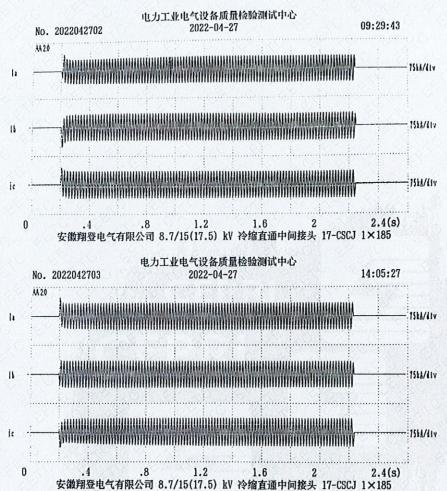
| 示波图编号 | 试验电流 峰值(kA) | | | 动稳定 通电时 | 试验电流周期分量 有效值(kA) | | | 热稳定 通电时 | 热稳定值 (AAs) 10E6 | | |
|------------|----------------|---|---|------------|---------------------|---|---|------------|--------------------|---------|---|
| | Α | В | C | 间(s) | Α | В | C | 间(s) | A | В | C |
| 2022042604 | | | | | 3.010 | | | 1.04 | 9.423 | Karley. | |

动、热稳定试验

| 示波图编号 | 试验电流 峰值(kA) | | | 动稳定 通电时 | 试验电流周期分量 有效值(kA) | | | 热稳定 通电时 | 热稳定值 (AAs) 10E6 | | |
|------------|----------------|---|---|------------|---------------------|-----|---|------------|--------------------|---|---|
| | A | В | C | 间(s) | A | В | С | 间(s) | A | В | C |
| 2022042605 | | | | | 3.022 | 106 | | 1.04 | 9.503 | | |



C.5 The waveform of thermal short-circuit tests of the combination samples (conductor)



动、热稳定试验

| 示波图编号 | 试验电流 峰值(kA) | | | 动稳定 通电时 | 试验电流周期分量 有效值(kA) | | | 热稳定 通电时 | 热稳定值 (AAs) 10E6 | | |
|------------|----------------|---|---|------------|---------------------|-------|-------|------------|--------------------|------|------|
| | Α | В | C | 间(s) | Α | В | С | 间(s) | Α | В | С |
| 2022042702 | | | | | 23.82 | 24.10 | 24.16 | 2.04 | 1159 | 1186 | 1192 |

动、热稳定试验

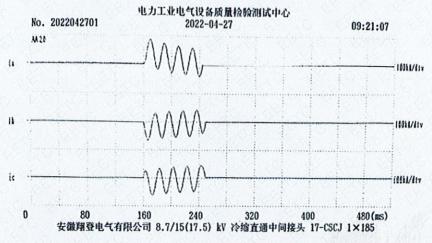
| 示波图编号 | 试验电流 峰值(kA) | | | 动稳定 通电时 | 试验电流周期分量 有效值(kA) | | | 热稳定 通电时 | 热稳定值 (AAs) 10E6 | | |
|------------|----------------|---|---|------------|---------------------|-------|-------|------------|--------------------|------|------|
| | Α | В | С | 间(s) | Α | В | С | 间(s) | A | В | C |
| 2022042703 | | | | | 24.25 | 23.91 | 24.10 | 2.04 | 1199 | 1165 | 1184 |



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C.6 The waveform of dynamic short-circuit tests of the combination samples



动、热 稳 定 试 验

| 示波图编号 | | 试验电流 峰值(kA) | | 动稳定 通电时 | 试验电流周期分量 有效值(kA) | | | 热稳定 通电时 | | 热稳定值 (AAs) 10E6 | |
|------------|-------|----------------|-------|------------|---------------------|---|-----------|------------|---|--------------------|---|
| <9 = 8 | A | В | С | 间(s) | Α | В | С | 间(s) | Α | В | C |
| 2022042701 | 84.95 | 64.67 | 63.31 | 0.087 | 1 | | like same | | | | |

Appendix D Other Information

D.1 Sample packing list

| CI | HARDEN 8 | .7/15 (| 17.5) k | vV Cold Shrink Cable Joint Packing List |
|-----|---------------------------|---------|----------|--|
| No. | Product Name | QTY | Unit | Remark |
| 1 | Cold shrink Joint | 1 | PC | |
| 2 | Sealing tape | 3 | PCS | |
| 3 | Silicone lubricant | 2 | PCS | |
| 4 | Paper towel | 6 | PCS | |
| 5 | PVC tape | 1 | PC | |
| 6 | Sandpaper belt | 2 | PCS | |
| 7 | Gloves | 1 | Pair | |
| 8 | Constant-force spring | 4 | PCS | |
| 9 | Armor tape | 2 | PCS | |
| 10 | Shield net | 1 | PC | |
| 11 | Semi-conductive tape | 1 | PC | |
| 12 | Certificate of conformity | 1 | PC | |
| 13 | Installation Instructions | 1 | PC | |
| 14 | copper braid | 2 | PCS | |
| 15 | Packing List | 1 | PC | |



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D.2 Identification of test cable (specified in GB/T 12706.2-2020)

| rated voltage U ₀ / | $U(U_{ m m})$ | 8.7/15(17.5)kV | | | | | |
|--------------------------------|------------------------------------|------------------------|--|--|--|--|--|
| construction | core | single-core | | | | | |
| construction | construction of screen | single-phase screen | | | | | |
| | material | copper | | | | | |
| conductor | type | round compact stranded | | | | | |
| | cross section | 185 mm ² | | | | | |
| | diameter | 16.1 mm | | | | | |
| | material | XLPE | | | | | |
| insulation | thickness | 4.5 mm | | | | | |
| | diameter | 26.9mm | | | | | |
| | thickness of conductor screen | 0.7 mm | | | | | |
| | thickness of insulation screen | 0.8 mm | | | | | |
| screen | strippability of insulation screen | strippable | | | | | |
| | diameter of insulation screen | 28.5mm | | | | | |
| | metallic screen | copper tape | | | | | |
| armour | | | | | | | |
| oversheath | material | PVC | | | | | |
| oversneam | diameter | 36.1mm | | | | | |
| mark of cable | | YJV-8.7/15 1×185 | | | | | |





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D.3 Main structure dimensions of the samples

