



161100110161



CNAS

TESTING CNAS L0116

## China Compulsory Certification Report

☐ New application    ☒ Alteration    ☐ Supervision    ☐ Recheck    ☐ Others:

Application No.: A2019CCC0308-3336085

Product Name: Low-voltage fuse (blade-type contact fuse)

Model: RT20-000

Testing institution: Zhejiang Fangyuan Test Group Co., Ltd.

(Zhejiang Fangyuan Electrical Equipment Testing Co., Ltd. )

Special Seal for Inspection and Testing of Zhejiang Fangyuan Test Group Co., Ltd. (Seal)



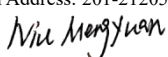
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CATTI Certificate No.: 20201100937000000097    Organization: E-TRANSTAR (Beijing) Information Technology Co., Ltd.  
Tel: 010-60537024    Email: zhuliye@57trans.com  
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Signature: *Niu Mengyuan*    Date of Translation: October 27, 2025



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application No.: A2019CCC0308-3336085<br>Sample Name: Low-voltage fuse (blade-type contact fuse)<br><br>Product Name: RT20-000<br>Trademark: <br>Sample Quantity: 102 sets of fuse-element<br><br>Sample Source: Sent by Manufacturer:<br>Sample Receipt Date: 2019-11-13<br>Completion Date: 2019-11-22                                                                                                                          | Principal: Ningbo Switchgear Manufacturing Co., Ltd.<br>Address of the Principal: Changfeng Industrial Development Zone,<br>Zhonggongmiao Street, Yinzhou District, Ningbo City,<br>Zhejiang Province<br><br>Manufacturer: Ningbo Switchgear Manufacturing Co., Ltd.<br>Manufacturer Address: Changfeng Industrial Development Zone,<br>Zhonggongmiao Street, Yinzhou District, Ningbo City,<br>Zhejiang Province<br><br>Manufacturing Enterprise: Ningbo Switchgear Manufacturing Co., Ltd.<br>Address of the Manufacturing Enterprise: No. 76, Lane 238, Beihai Road,<br>Jiangbei District, Ningbo City, Zhejiang Province |
| Test Conclusion: Qualified according to GB/T 13539.2-2015                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Descriptions of product models & specifications covered by this application unit and relevant information:<br>RT20-000;<br>Fuse-element:<br>Rated voltage Un: AC500V, AC690V;<br>Rated current In: 2A, 4A, 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A, 80A, 100A;<br>Rated breaking capacity: 120kA (500V), 50kA (690V);<br>Rated voltage Un: DC250V;<br>Rated current In: 4A, 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A, 80A, 100A;<br>Rated breaking capacity: 100kA;<br>Breaking range and usage category: gG; |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Tested by: Shen Tao      Signature: Shen Tao      Date: 2019-11-23<br>Reviewed by: Lu Linlin      Signature: Lu Linlin      Date: 2019-11-23<br>Issued by: Wang Guozhong      Signature: Wang Guozhong      Date: 2019-11-23                                                                                                                                                                                                                                                                                       | (Name and seal of testing organization)<br>Special Seal for Inspection and Testing of<br>Zhejiang Fangyuan Test Group Co., Ltd. (Seal)<br>November 23, 2019                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Notes: This application is a change application. Please see the attached page for details of the change and the original 3C certification:                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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Attached page

| S/N | Item                              | Before change                                                         | After change                                                                                                                                                   |
|-----|-----------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Product parameters<br>increase Un | Un: AC500V, AC690V                                                    | Un: AC500V, AC690V, DC250V                                                                                                                                     |
| 2   | Product parameters<br>increase In | In: 2A, 4A, 6A, 10A, 16A, 20A, 25A, 32A, 40A,<br>50A, 63A, 80A, 100A; | In: 2A, 4A, 6A, 10A, 16A, 20A, 25A, 32A, 40A,<br>50A, 63A, 80A, 100A (AC) ;<br><b>In: 4A, 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A,<br/>63A, 80A, 100A (DC) ;</b> |

Original 3C certification status:

|                                                  |                                                                                                                                   |                |                          |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------|
| Original 3C No.                                  | 2003010308029508                                                                                                                  |                |                          |
| Prototype testing and inspection<br>organization | Shanghai Testing & Inspection Institute for<br>Electrical Equipment Co., Ltd. Low Voltage<br>Electrical Equipment Testing Station | Report<br>No.: | A2005CCC0308-251860      |
|                                                  | Shanghai Testing & Inspection Institute for<br>Electrical Equipment Co., Ltd.                                                     |                | C009-A2010CCC0308-920914 |
|                                                  | Zhejiang Fangyuan Test Group Co., Ltd.                                                                                            |                | 02401-1711902521-S       |
|                                                  | (Zhejiang Fangyuan Electrical Equipment Testing<br>Co., Ltd. )                                                                    |                | 02401-1911901208-S       |

Notes: This modified test report is valid only when used in conjunction with the original test report.

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Composition of report

| Report content                                 | Yes/No | Page | No.                |
|------------------------------------------------|--------|------|--------------------|
| Cover                                          | √      | 1    | 02401-1911901260   |
| Homepage                                       | √      | 1    | 02401-1911901260   |
| Attached page                                  | √      | 1    | 02401-1911901260   |
| Composition of report                          | √      | 1    | 02401-1911901260   |
| Safe Type Test Report                          | √      | 72   | 02401-1911901260-S |
| Electromagnetic compatibility type test report | /      | /    | /                  |
| Back Cover                                     | √      | 1    | 02401-1911901260   |

The report consists of all contents with √ in the table.

- Determination:
- P Test results meet the requirements;
  - F Test results does not meet the requirements;
  - N The requirement does not apply to the product, or not to proceed with the trial

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## Sample description and explanation

### 1. Description of product composition and structural features (structural summary):

The RT20-000 fuse consists of a fuse element and a fuse base (fuse holder). The fuse base is borrowed from the RT20-00 model.

The fuse element is composed of blade-type contacts, a cover plate, a copper fuse wire, a porcelain tube, a fuse indicator, and arc-extinguishing filler.

#### 1) Product specifications and features

|                         |                                                     |
|-------------------------|-----------------------------------------------------|
| Product model and name: | RT20-000 Low-Voltage Fuse (Blade-Contact Type Fuse) |
| Breaking range:         | g                                                   |
| Usage category:         | G                                                   |

#### 2). Provide drawings and corresponding identification numbers:

|                                            |                                                                            |
|--------------------------------------------|----------------------------------------------------------------------------|
| General assembly drawing:                  | 3NK2.225.423.1~12; 3NK2.225.425.1~12; 3NK2.225.427.1~12; 3NK2.225.433.1~12 |
| Support component assembly drawing:        | /                                                                          |
| Support component outline drawing:         | /                                                                          |
| Fuse-element component assembly drawing:   | 3NK5.594.663; 3NK5.594.664.1~11                                            |
| Outline dimension drawing of fuse-element: | 3NK5.594.672.1~12                                                          |

#### 3) Main structural data:

|                                                                                                 |                                                                      |
|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| Fuse-element                                                                                    |                                                                      |
| Contact materials and coating materials                                                         | Type 6x15 material H68; 60CuSn6                                      |
| Name and PTI of plastic parts:                                                                  | /                                                                    |
| Whether it has an insulated metal buckle:                                                       | <input type="checkbox"/> Yes, <input checked="" type="checkbox"/> No |
| Whether it has a striker:                                                                       | <input type="checkbox"/> Yes, <input checked="" type="checkbox"/> No |
| Fuse holder                                                                                     |                                                                      |
| Wiring terminal material and plating                                                            | /                                                                    |
| material:                                                                                       |                                                                      |
| Name and PTI of plastic parts:                                                                  | /                                                                    |
| Whether the fuse base has a threadless type terminal for connecting external copper conductors: | <input type="checkbox"/> Yes, <input checked="" type="checkbox"/> No |

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| Sample description and explanation                                      |                                                                                                                                                       |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2. Main technical parameters: (Inapplicable items are indicated by "/") |                                                                                                                                                       |
| Classification:                                                         |                                                                                                                                                       |
| 1) Fuse holder:                                                         |                                                                                                                                                       |
| Rated voltage:                                                          | /                                                                                                                                                     |
| Rated current:                                                          | /                                                                                                                                                     |
| Rated receiving power dissipation:                                      | /                                                                                                                                                     |
| Rated impulse withstand voltage:                                        | /                                                                                                                                                     |
| Number of poles (if more than one):                                     | /                                                                                                                                                     |
| Protection grade:                                                       | /                                                                                                                                                     |
| 2) Fuse-element:                                                        |                                                                                                                                                       |
| Rated voltage:                                                          | AC500V, AC690V, DC250V                                                                                                                                |
| Rated current:                                                          | 2A, 4A, 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A, 80A, 100A (AC500V, AC690V) ; 4A, 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A, 80A, 100A (DC250V) ; |
| Rated power dissipation:                                                | ≤7.5W                                                                                                                                                 |
| Rated breaking capacity:                                                | 120kA (AC500V), 50kA (AC690V), 100kA (DC250V)                                                                                                         |
| Overload current:                                                       | 6.48A (2A) 252A (100A)                                                                                                                                |
| Operating time of the overload test:                                    | >300s (2A) 20~360s (100A)                                                                                                                             |

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Sample description and explanation

3. Description of series and explanation of model:

3.1. Products in this application unit:

1) For fuse elements with different rated currents, only the contacts of the fuse elements differ; the shape and structure of the casing are completely the same, and the dimensions of the casing are also completely identical (excluding the fuse element): ☒Yes ☐No

2). Fuse elements with different rated currents have the same arc-extinguishing medium and the same degree of filling: ☒Yes ☐No

3)For fuse elements with different rated currents, the fuse material is completely identical, and the length and shape of the fuse are also the same: ☒Yes ☐No

4) The cross-sectional area of the fuse element (which may vary along its length) and the number of fuse elements shall not exceed those of the fuse element with the maximum rated current.

Cross-sectional area and number of fuse elements: ☒Yes ☐No

5) The minimum distance between adjacent fuse elements and between a fuse element and the inner surface of the fuse tube shall not be less than the corresponding distance in the fuse with the maximum rated current: ☒Yes ☐No

3.2. Description of the series (differences and similarities between different models and current levels of this application unit):

The only difference between fuses of different rated currents is the cross-sectional area of the fuse element, while the length remains the same.

3.3. Explanation of the model:

RT

20 -

000

Fuse-element size

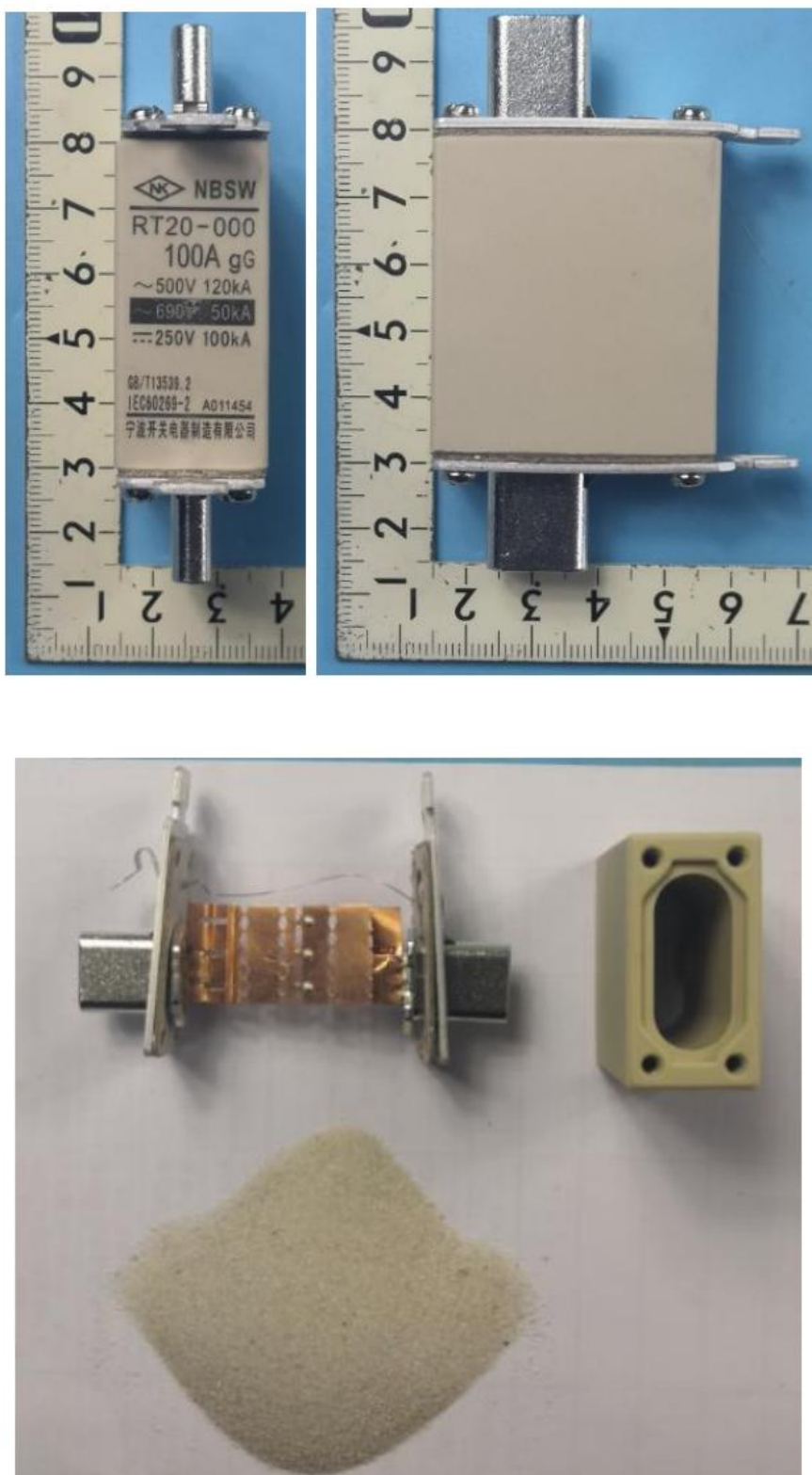
Design S/N

Filled enclosed tube fuse

| Sample description and explanation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                |                              |                                               |                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------|
| 4. Special structure description (if necessary):<br>None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                |                              |                                               |                                                                                       |
| 5. Product certification:<br>On January 22, 2003, it obtained the CCC certificate for the first time, with the certificate number 2003010308029508                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                |                              |                                               |                                                                                       |
| 6. Safety-critical components list:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |                              |                                               |                                                                                       |
| S/N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Component/part name            | Component/material name      | Model specification/brand                     | Manufacturer (manufacturing plant)                                                    |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Insulating base of the support | /                            | /                                             | /                                                                                     |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Fuse tube                      | Grade A electrical porcelain | NK0.587.507                                   | Handan Rongqiang Industrial Ceramics Co., Ltd.<br>Xinxing Electric Ceramics Co., Ltd. |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Fuse- element                  | Oxygen-free copper strip     | Oxygen-free copper strip<br>TU2Y2 NK0.501.505 | Shanghai Husheng Precision Alloy Co., Ltd.                                            |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Filler                         | Quartz sand                  | Quartz sand NK0.503.404                       | Jingheng Silica Sand Co., Ltd.                                                        |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Filler curing agent            | /                            | /                                             | /                                                                                     |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Spring                         | /                            | /                                             | /                                                                                     |
| <p>Note 1: If the safety components involve more than one manufacturer (manufacturing plant), the manufacturer (manufacturing plant) listed first shall be the one that provides the safety components for the type test samples.</p> <p>Note 2: This company declares: If the safety components involve more than one manufacturer (manufacturing plant), the safety components provided by the manufacturer (manufacturing plant) used for the type test samples shall have no performance differences from those provided by other manufacturers (manufacturing plants) listed by the enterprise.</p> |                                |                              |                                               |                                                                                       |

### Sample Photo

7. Product appearance photos (including appearance, internal structure and nameplate photos):



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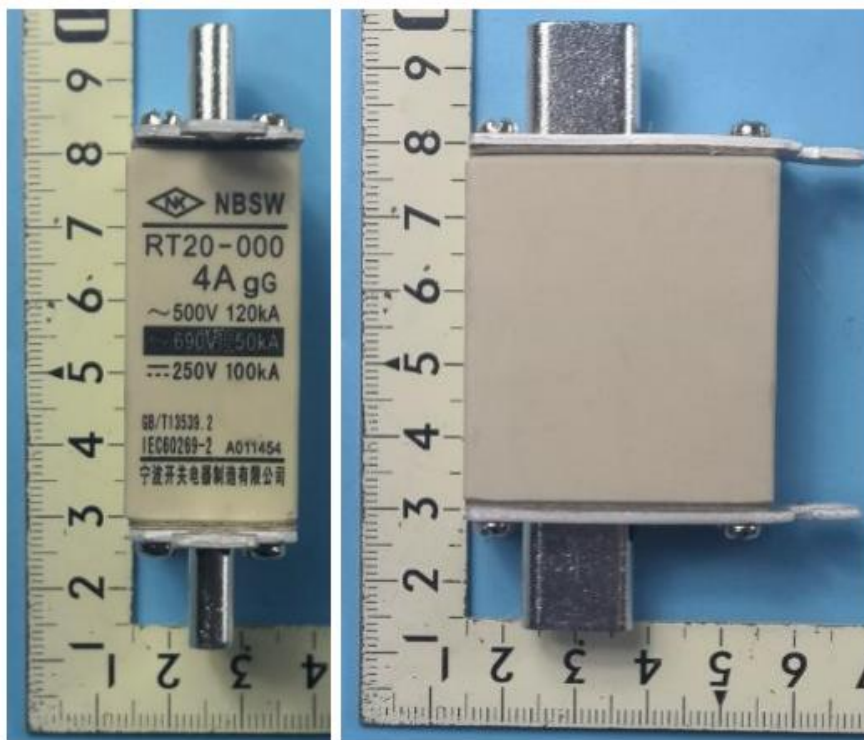
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Sample Photo

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Sample Photo

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## Summary Table of Inspection Items

| S/N                                                                         | Test Item                                                           | According to standard terms | Sample No.      | Test Result                                    |
|-----------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------|-----------------|------------------------------------------------|
| Fuse-element Model/Specifications: RT20-000 /In: 100A Numbering example: 1# |                                                                     |                             |                 |                                                |
| 1                                                                           | Dimensions                                                          | 8.1.4                       | /               | See the report<br>C009-A2010CCC0308<br>-920914 |
| 2                                                                           | Resistance                                                          | 8.1.5.1                     | /               |                                                |
| 3                                                                           | Insulation performance and isolation suitability                    | 8.2                         | /               |                                                |
| 4                                                                           | Tracking resistance                                                 | 8.2.5                       | /               |                                                |
| 5                                                                           | Temperature rise, power dissipation                                 | 8.3                         | /               |                                                |
| 6                                                                           | Conventional non-fusing current                                     | 8.4.3.1a)                   | 1#(DC)          | P                                              |
| 7                                                                           | Conventional fusing current                                         | 8.4.3.1b)                   |                 | P                                              |
| 8                                                                           | Rated current                                                       | 8.4.3.2                     | 2#(DC)          | P                                              |
| 9                                                                           | Threshold                                                           | 8.4.3.3.2                   | 3#~6#(DC)       | P                                              |
| 10                                                                          | Overload                                                            | 8.4.3.4                     | 7#~9#(DC)       | P                                              |
| 11                                                                          | Actuation of the striker                                            | 8.4.3.6                     | /               | See the report<br>C009-A2010CCC0308<br>-920914 |
| 12                                                                          | No.5 Breaking capacity (I5)(AC)                                     | 8.5                         | /               | See the report<br>02401-1711902521-S           |
| 13                                                                          | No.4 Breaking capacity (I4)(AC)                                     | 8.5                         | /               |                                                |
| 14                                                                          | No.3 Breaking capacity (I3)(AC)                                     | 8.5                         | /               |                                                |
| 15                                                                          | No.2 Breaking capacity (I2)(AC)                                     | 8.5                         | /               |                                                |
| 16                                                                          | No.1 Breaking capacity (I1)(AC)                                     | 8.5                         | /               |                                                |
| 17                                                                          | No.5 Breaking capacity (I5)(AC)                                     | 8.5                         | 10#(DC250V)     | P                                              |
| 18                                                                          | No.4 Breaking capacity (I4)(AC)                                     | 8.5                         | 11#(DC250V)     | P                                              |
| 19                                                                          | No.3 Breaking capacity (I3)(AC)                                     | 8.5                         | 12#(DC250V)     | P                                              |
| 20                                                                          | No.2 Breaking capacity (I2)(AC)                                     | 8.5                         | 13#~15#(DC250V) | P                                              |
| 21                                                                          | No.1 Breaking capacity (I1)(AC)                                     | 8.5                         | 16#~18#(DC250V) | P                                              |
| 22                                                                          | Overcurrent selectivity                                             | 8.7.4                       | /               | See the report<br>02401-1711902521-S           |
| 23                                                                          | Protection grade:                                                   | 8.8                         | /               | See the report<br>C009-A2010CCC0308<br>-920914 |
| 24                                                                          | Heat resistance                                                     | 8.9                         | /               |                                                |
| 25                                                                          | Contacts do not deteriorate                                         | 8.10                        | /               |                                                |
| 26                                                                          | Mechanical strength of fuse holder                                  | 8.11.1.1                    | /               |                                                |
| 27                                                                          | Mechanical strength of fuse base                                    | 8.11.1.2                    | /               |                                                |
| 28                                                                          | Resistance to stress corrosion cracking                             | 8.11.2.1                    | /               |                                                |
| 29                                                                          | Resistant to abnormal heat and fire                                 | 8.11.2.2                    | /               |                                                |
| 30                                                                          | Rust resistance                                                     | 8.11.2.3                    | /               |                                                |
| 31                                                                          | The insulation of the fuse element and fuse base do not deteriorate | 8.11.2.4                    | /               |                                                |

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**Summary Table of Inspection Items (Continued)**

| S/N                                                                         | Test Item                       | According to standard terms | Sample No.  | Test Result                                    |
|-----------------------------------------------------------------------------|---------------------------------|-----------------------------|-------------|------------------------------------------------|
| Fuse-element Model/Specifications: RT20-000 /In: 80A Numbering example: 19# |                                 |                             |             |                                                |
| 32                                                                          | Dimensions                      | 8.1.4                       | /           | See the report<br>C009-A2010CCC0308-92<br>0914 |
| 33                                                                          | Resistance                      | 8.1.5.1                     | /           |                                                |
| 34                                                                          | Conventional non-fusing current | 8.4.3.1a)                   | 19#(DC)     | P                                              |
| 35                                                                          | Conventional fusing current     | 8.4.3.1b)                   |             | P                                              |
| 36                                                                          | Rated current                   | 8.4.3.2                     | 20#(DC)     | P                                              |
| 37                                                                          | Threshold                       | 8.4.3.3.2                   | 21#~24#(DC) | P                                              |
| Fuse-element Model/Specifications: RT20-000 /In: 63A Numbering example: 25# |                                 |                             |             |                                                |
| 38                                                                          | Dimensions                      | 8.1.4                       | /           | See the report<br>C009-A2010CCC0308-92<br>0914 |
| 39                                                                          | Resistance                      | 8.1.5.1                     | /           |                                                |
| 40                                                                          | Conventional non-fusing current | 8.4.3.1a)                   | 25#(DC)     | P                                              |
| 41                                                                          | Conventional non-fusing current | 8.4.3.1a)                   |             | P                                              |
| 42                                                                          | Rated current                   | 8.4.3.2                     | 26#(DC)     | P                                              |
| 43                                                                          | Threshold                       | 8.4.3.3.2                   | 27#~30#(DC) | P                                              |
| Fuse-element Model/Specifications: RT20-000 /In: 50A Numbering example: 31# |                                 |                             |             |                                                |
| 44                                                                          | Dimensions                      | 8.1.4                       | /           | See the report<br>C009-A2010CCC0308-92<br>0914 |
| 45                                                                          | Resistance                      | 8.1.5.1                     | /           |                                                |
| 46                                                                          | Conventional non-fusing current | 8.4.3.1a)                   | 31#(DC)     | P                                              |
| 47                                                                          | Conventional fusing current     | 8.4.3.1b)                   |             | P                                              |
| 48                                                                          | Rated current                   | 8.4.3.2                     | 32#(DC)     | P                                              |
| 49                                                                          | Threshold                       | 8.4.3.3.2                   | 33#~36#(DC) | P                                              |
| Fuse-element Model/Specifications: RT20-000 /In: 40A Numbering example: 37# |                                 |                             |             |                                                |
| 50                                                                          | Dimensions                      | 8.1.4                       | /           | See the report<br>C009-A2010CCC0308-92<br>0914 |
| 51                                                                          | Resistance                      | 8.1.5.1                     | /           |                                                |
| 52                                                                          | Conventional non-fusing current | 8.4.3.1a)                   | 37#(DC)     | P                                              |
| 53                                                                          | Conventional fusing current     | 8.4.3.1b)                   |             | P                                              |
| 54                                                                          | Rated current                   | 8.4.3.2                     | 38#(DC)     | P                                              |
| 55                                                                          | Threshold                       | 8.4.3.3.2                   | 39#~42#(DC) | P                                              |
| Fuse-element Model/Specifications: RT20-000 /In: 32A Numbering example: 43# |                                 |                             |             |                                                |
| 56                                                                          | Dimensions                      | 8.1.4                       | /           | See the report<br>C009-A2010CCC0308-92<br>0914 |
| 57                                                                          | Resistance                      | 8.1.5.1                     | /           |                                                |
| 58                                                                          | Conventional non-fusing current | 8.4.3.1a)                   | 43#(DC)     | P                                              |
| 59                                                                          | Conventional fusing current     | 8.4.3.1b)                   |             | P                                              |
| 60                                                                          | Rated current                   | 8.4.3.2                     | 44#(DC)     | P                                              |
| 61                                                                          | Threshold                       | 8.4.3.3.2                   | 45#~48#(DC) | P                                              |

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**Summary Table of Inspection Items (Continued)**

| S/N                                                                         | Test Item                       | According to standard terms | Sample No.  | Test Result                                    |
|-----------------------------------------------------------------------------|---------------------------------|-----------------------------|-------------|------------------------------------------------|
| Fuse-element Model/Specifications: RT20-000 /In: 25A Numbering example: 49# |                                 |                             |             |                                                |
| 62                                                                          | Dimensions                      | 8.1.4                       | /           | See the report<br>C009-A2010CCC0308-92<br>0914 |
| 63                                                                          | Resistance                      | 8.1.5.1                     | /           |                                                |
| 64                                                                          | Conventional non-fusing current | 8.4.3.1a)                   | 49#(DC)     | P                                              |
| 65                                                                          | Conventional fusing current     | 8.4.3.1b)                   |             | P                                              |
| 66                                                                          | Rated current                   | 8.4.3.2                     | 50#(DC)     | P                                              |
| 67                                                                          | Threshold                       | 8.4.3.3.2                   | 51#~54#(DC) | P                                              |
| Fuse-element Model/Specifications: RT20-000 /In: 20A Numbering example: 55# |                                 |                             |             |                                                |
| 68                                                                          | Dimensions                      | 8.1.4                       | /           | See the report<br>C009-A2010CCC0308-92<br>0914 |
| 69                                                                          | Resistance                      | 8.1.5.1                     | /           |                                                |
| 70                                                                          | Conventional non-fusing current | 8.4.3.1a)                   | 55#(DC)     | P                                              |
| 71                                                                          | Conventional fusing current     | 8.4.3.1b)                   |             | P                                              |
| 72                                                                          | Rated current                   | 8.4.3.2                     | 56#(DC)     | P                                              |
| 73                                                                          | Threshold                       | 8.4.3.3.2                   | 57#~60#(DC) | P                                              |
| Fuse-element Model/Specifications: RT20-000 /In: 16A Numbering example: 61# |                                 |                             |             |                                                |
| 74                                                                          | Dimensions                      | 8.1.4                       | /           | See the report<br>C009-A2010CCC0308-92<br>0914 |
| 75                                                                          | Resistance                      | 8.1.5.1                     | /           |                                                |
| 76                                                                          | Conventional non-fusing current | 8.4.3.1a)                   | 61#(DC)     | P                                              |
| 77                                                                          | Conventional fusing current     | 8.4.3.1b)                   |             | P                                              |
| 78                                                                          | Rated current                   | 8.4.3.2                     | 62#(DC)     | P                                              |
| 79                                                                          | Threshold                       | 8.4.3.3.2                   | 63#~66#(DC) | P                                              |
| Fuse-element Model/Specifications: RT20-000 /In: 10A Numbering example: 67# |                                 |                             |             |                                                |
| 80                                                                          | Dimensions                      | 8.1.4                       | /           | See the report<br>C009-A2010CCC0308-92<br>0914 |
| 81                                                                          | Resistance                      | 8.1.5.1                     | /           |                                                |
| 82                                                                          | Conventional non-fusing current | 8.4.3.1a)                   | 67#(DC)     | P                                              |
| 83                                                                          | Conventional fusing current     | 8.4.3.1b)                   |             | P                                              |
| 84                                                                          | Rated current                   | 8.4.3.2                     | 68#(DC)     | P                                              |
| 85                                                                          | Threshold                       | 8.4.3.3.2                   | 69#~72#(DC) | P                                              |
| Fuse-element Model/Specifications: RT20-000 /In: 6A Numbering example: 79#  |                                 |                             |             |                                                |
| 86                                                                          | Dimensions                      | 8.1.4                       | /           | See the report<br>C009-A2010CCC0308-92<br>0914 |
| 87                                                                          | Resistance                      | 8.1.5.1                     | /           |                                                |
| 88                                                                          | Conventional non-fusing current | 8.4.3.1a)                   | 79#(DC)     | P                                              |
| 89                                                                          | Conventional fusing current     | 8.4.3.1b)                   |             | P                                              |
| 90                                                                          | Rated current                   | 8.4.3.2                     | 80#(DC)     | P                                              |
| 91                                                                          | Threshold                       | 8.4.3.3.2                   | 81#~84#(DC) | P                                              |

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### Summary Table of Inspection Items (Continued)

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| Clause    | Test Items and Test Requirements                                                                                                                                                         | Measurement or Observation Result                | Determination |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|---------------|
|           |                                                                                                                                                                                          | 1#                                               |               |
| 8.4.3.1a) | RT20-000 100A<br>Conventional non-fusing current<br>Ambient air temperature: +20±5°C<br>Test current: 1.25x100A(DC)<br>Connecting wires: 35x1 mm²xm<br>Conventional non-fusing time: ≥2h | 20.4<br>125<br>35x1<br>Non-fusing within 2 hours | P             |
| 8.4.3.1b) | Conventional fusing current<br>Ambient air temperature: +20±5°C<br>Test current: 1.6x100A(DC)<br>Connecting wires: 35x1 mm²xm<br>Conventional fusing time: <2h                           | 20.4<br>160<br>35x1<br>22min17s                  | P             |

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| Clause  | Test Items and Test Requirements                   | Measurement or Observation Result | Determination             |
|---------|----------------------------------------------------|-----------------------------------|---------------------------|
|         |                                                    | 2#                                |                           |
| 8.4.3.2 | Rated current                                      |                                   | P                         |
|         | Ambient air temperature: +20±5°C                   | 20.4                              |                           |
|         | Connecting wires: 35x1 mm²xm                       | 35x1                              |                           |
|         | Test current: 1.05x100A(DC)                        | 105                               |                           |
|         | Experiment time: 100h                              | 100                               |                           |
|         | Each cycle includes:                               |                                   |                           |
|         | Powering-on for 2 hours                            | 120min                            |                           |
|         | Powering-off for 0.1x2h=12min                      | 12min                             |                           |
|         | Verify the non-fuse characteristics after testing: |                                   |                           |
|         | Ambient air temperature: +20±5°C                   | 20.4                              |                           |
|         | Test current: 1.25x100A(DC)                        | 125                               | Non-fusing within 2 hours |
|         | Conventional non-fusing time: ≥2h                  |                                   |                           |
|         |                                                    |                                   |                           |
|         |                                                    |                                   |                           |

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| Clause    | Test Items and Test Requirements                                                                                                                                                                                  | Measurement or Observation Result                                                                                                                     |    |    |    | Determination |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|---------------|
|           |                                                                                                                                                                                                                   | 3#                                                                                                                                                    | 4# | 5# | 6# |               |
| 8.4.3.3.2 | Threshold<br>Ambient air temperature: +20±5°C<br>Connecting wires: 35x1 mm²xm<br>Test current (A)(DC)Specified time (s)<br><br>Imin: 290 ≥10<br><br>Imax: 580 <5<br><br>Imin: 820 ≥0.1<br><br>Imax: 1.45x10³ <0.1 | 20.4<br>35x1<br><br>290A<br>10s<br>Non-fusing<br><br>580A<br>2.89s<br>Fusing<br><br>820A<br>0.1s<br>non-fusing<br><br>1.45x10³<br>A<br>48ms<br>Fusing |    |    |    | P             |

| Clause  | Test Items and Test Requirements                     | Measurement or Observation Result |         |         | Determination |
|---------|------------------------------------------------------|-----------------------------------|---------|---------|---------------|
|         |                                                      | 7#                                | 8#      | 9#      |               |
| 8.4.3.4 | Overload                                             |                                   |         |         | P             |
|         | Ambient air temperature: +20±5°C                     |                                   | 21.3    |         |               |
|         | Overload current: 252A (DC) (manufacturer specified) |                                   | 252     |         |               |
|         | Number of tests Pulse 50 times                       |                                   | 50      |         |               |
|         | Pulse duration: 5s                                   |                                   | 5       |         |               |
|         | Pulse interval time: 0.2x2h=24min                    |                                   | 24min   |         |               |
|         | Verify characteristics after testing:                |                                   |         |         |               |
|         | Ambient air temperature: +20±5°C                     |                                   | 20.4    |         |               |
|         | Test current: 252A (DC)                              |                                   | 252     |         |               |
|         | Operating time: Manufacturer regulation              | 3min47s                           | 4min26s | 3min19s |               |

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| Clause | Test Items and Test Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Measurement or Observation Result                                                                                                                                          | Determination |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 10#                                                                                                                                                                        |               |
| 8.5    | <p>No.5 Breaking capacity (<math>I_s</math>) (DC)</p> <p>Test voltage: 1.15xDC250 <math>\begin{matrix} +5 \\ -9 \end{matrix}</math> % V</p> <p>Test current: 1.25x1.6x100=200<sup>+20%</sup>A</p> <p>Time constant: 15~20ms (<math>I&gt;20kA</math>)<br/>0.5 (<math>I</math>)<sup>0.3</sup>ms<sup>+20%</sup> (<math>I\leq 20kA</math>)</p> <p>Prospective current oscillogram No.</p> <p>Oscillogram No.:</p> <p>Result determination:</p> <p>1. When the fuse-element blows, the arc voltage is <math>\leq 2500V</math> (peak value);</p> <p>2. Insulation resistance <math>\geq 0.1M\Omega</math>;</p> <p>3. The indicator should operate;</p> <p>4. There should be no continuous arcing, flashover, or any flame emission that could endanger the surrounding area;</p> <p>5. After fusing, the components of the fuse (excluding the fuse element) should not sustain any damage that would prevent their continued use;</p> <p>6. The fuse element shall not be damaged to an extent that makes replacement difficult or endangers the operator. The fuse element and its parts may show discoloration or cracking, but they shall remain as an integral whole until removed from the support or test fixture.</p> | <p>296</p> <p>210</p> <p>/</p> <p>2.55</p> <p>Y191260005</p> <p>S191260012</p> <p>314V</p> <p>93.4M<math>\Omega</math></p> <p>Pass</p> <p>Pass</p> <p>Pass</p> <p>Pass</p> | P             |

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| Clause | Test Items and Test Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Measurement or Observation Result                                                                                                                                          | Determination |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 11#                                                                                                                                                                        |               |
| 8.5    | <p>No.4 Breaking capacity (<math>I_4</math>) (DC)</p> <p>Test voltage: 1.15xDC250 <math>\begin{matrix} +5 \\ -9 \end{matrix}</math> % V</p> <p>Test current: 2.0x1.6x100=320<math>^{+20\%}</math>A</p> <p>Time constant: 15~20ms (<math>I&gt;20kA</math>)<br/>0.5(<math>I</math>)<math>^{0.3}ms^{+20\%}</math> (<math>I\leq 20kA</math>)</p> <p>Prospective current oscillogram No.</p> <p>Oscillogram No.:</p> <p>Result determination:</p> <p>1. When the fuse-element blows, the arc voltage is <math>\leq 2500V</math> (peak value);</p> <p>2. Insulation resistance <math>\geq 0.1M\Omega</math>;</p> <p>3. The indicator should operate;</p> <p>4. There should be no continuous arcing, flashover, or any flame emission that could endanger the surrounding area;</p> <p>5. After fusing, the components of the fuse (excluding the fuse element) should not sustain any damage that would prevent their continued use;</p> <p>6. The fuse element shall not be damaged to an extent that makes replacement difficult or endangers the operator. The fuse element and its parts may show discoloration or cracking, but they shall remain as an integral whole until removed from the support or test fixture.</p>  | <p>296</p> <p>366</p> <p>/</p> <p>3.02</p> <p>Y191260004</p> <p>S191260011</p> <p>310V</p> <p>60.9M<math>\Omega</math></p> <p>Pass</p> <p>Pass</p> <p>Pass</p> <p>Pass</p> | P             |
| 8.5    | <p>No.3 Breaking capacity (<math>I_3</math>) (DC)</p> <p>Test voltage: 1.15xDC250 <math>\begin{matrix} +5 \\ -9 \end{matrix}</math> % V</p> <p>Test current: 3.2x1.6x100=512<math>^{+20\%}</math>A</p> <p>Time constant: 15~20ms (<math>I&gt;20kA</math>)<br/>0.5 (<math>I</math>)<math>^{0.3}ms^{+20\%}</math> (<math>I\leq 20kA</math>)</p> <p>Prospective current oscillogram No.</p> <p>Oscillogram No.:</p> <p>Result determination:</p> <p>1. When the fuse-element blows, the arc voltage is <math>\leq 2500V</math> (peak value);</p> <p>2. Insulation resistance <math>\geq 0.1M\Omega</math>;</p> <p>3. The indicator should operate;</p> <p>4. There should be no continuous arcing, flashover, or any flame emission that could endanger the surrounding area;</p> <p>5. After fusing, the components of the fuse (excluding the fuse element) should not sustain any damage that would prevent their continued use;</p> <p>6. The fuse element shall not be damaged to an extent that makes replacement difficult or endangers the operator. The fuse element and its parts may show discoloration or cracking, but they shall remain as an integral whole until removed from the support or test fixture.</p> | <p>296</p> <p>576</p> <p>/</p> <p>3.41</p> <p>Y191260003</p> <p>S191260010</p> <p>306V</p> <p>37.9M<math>\Omega</math></p> <p>Pass</p> <p>Pass</p> <p>Pass</p> <p>Pass</p> | P             |

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| Clause | Test Items and Test Requirements                                                                                                                                                                                                                                                | Measurement or Observation Result |            |        | Determination |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------|--------|---------------|
|        |                                                                                                                                                                                                                                                                                 | 13#                               | 14#        | 15#    |               |
| 8.5    | No.2 Breaking capacity (I2)                                                                                                                                                                                                                                                     |                                   |            |        | P             |
|        | Test voltage: 1.15xDC250V $\begin{matrix} +5 \\ -9 \end{matrix}$ % V                                                                                                                                                                                                            |                                   | 296        |        |               |
|        | Test current: The arc energy is approximately equal to the maximum current value                                                                                                                                                                                                |                                   | 2.55kA     |        |               |
|        | Time constant: 15~20ms (I>20kA)                                                                                                                                                                                                                                                 |                                   | /          |        |               |
|        | 0.5 (I) <sup>0.3</sup> ms+20% (I≤20kA)                                                                                                                                                                                                                                          |                                   | 5.31       |        |               |
|        | Prospective current oscillogram No.                                                                                                                                                                                                                                             |                                   | Y191260002 |        |               |
|        | 13# Oscillogram No.:                                                                                                                                                                                                                                                            |                                   | S191260007 |        |               |
|        | 14# Oscillogram No.:                                                                                                                                                                                                                                                            |                                   | S191260008 |        |               |
|        | 15# Oscillogram No.:                                                                                                                                                                                                                                                            |                                   | S191260009 |        |               |
|        | Result determination:                                                                                                                                                                                                                                                           |                                   |            |        |               |
|        | 1. When the fuse-element blows, the arc voltage is ≤2500V (peak value);                                                                                                                                                                                                         | 417V                              | 413V       | 359V   |               |
|        | 2. Insulation resistance ≥ 100kΩ;                                                                                                                                                                                                                                               | 12.4MΩ                            | 14.1MΩ     | 13.5MΩ |               |
|        | 3. The indicator should operate;                                                                                                                                                                                                                                                |                                   | Pass       |        |               |
|        | 4. There should be no continuous arcing, flashover, or any flame emission that could endanger the surrounding area;                                                                                                                                                             |                                   | Pass       |        |               |
|        | 5. After fusing, the components of the fuse (excluding the fuse element) should not sustain any damage that would prevent their continued use;                                                                                                                                  |                                   | Pass       |        |               |
|        | 6. The fuse element shall not be damaged to an extent that makes replacement difficult or endangers the operator. The fuse element and its parts may show discoloration or cracking, but they shall remain as an integral whole until removed from the support or test fixture. |                                   | Pass       |        |               |
|        |                                                                                                                                                                                                                                                                                 | 16#                               | 17#        | 18#    |               |
| 8.5    | No.1 Breaking capacity (I1)                                                                                                                                                                                                                                                     |                                   |            |        | P             |
|        | Test voltage: 1.15xDC250 $\begin{matrix} +5 \\ -9 \end{matrix}$ % V                                                                                                                                                                                                             |                                   | 296        |        |               |
|        | Test current: 100 <sup>+10%</sup> kA                                                                                                                                                                                                                                            |                                   | 102        |        |               |
|        | Time constant: 15~20ms (I>20kA)                                                                                                                                                                                                                                                 |                                   | 16.2       |        |               |
|        | 0.5 (I) <sup>0.3</sup> ms+20% (I≤20kA)                                                                                                                                                                                                                                          |                                   | /          |        |               |
|        | Prospective current oscillogram No.                                                                                                                                                                                                                                             |                                   | Y191260001 |        |               |
|        | 16# Oscillogram No.:                                                                                                                                                                                                                                                            |                                   | S191260001 |        |               |
|        | 17# Oscillogram No.:                                                                                                                                                                                                                                                            |                                   | S191260002 |        |               |
|        | 18# Oscillogram No.:                                                                                                                                                                                                                                                            |                                   | S191260003 |        |               |
|        | Result determination:                                                                                                                                                                                                                                                           |                                   |            |        |               |
|        | 1. When the fuse-element blows, the arc voltage is ≤2500V (peak value);                                                                                                                                                                                                         | 524V                              | 523V       | 497V   |               |
|        | 2. Insulation resistance ≥ 100kΩ;                                                                                                                                                                                                                                               | 7.44MΩ                            | 7.13MΩ     | 7.20MΩ |               |
|        | 3. The indicator should operate;                                                                                                                                                                                                                                                |                                   | Pass       |        |               |
|        | 4. There should be no continuous arcing, flashover, or any flame emission that could endanger the surrounding area;                                                                                                                                                             |                                   | Pass       |        |               |
|        | 5. After fusing, the components of the fuse (excluding the fuse element) should not sustain any damage that would prevent their continued use;                                                                                                                                  |                                   | Pass       |        |               |
|        | 6. The fuse element shall not be damaged to an extent that makes replacement difficult or endangers the operator. The fuse element and its parts may show discoloration or cracking, but they shall remain as an integral whole until removed from the support or test fixture. |                                   | Pass       |        |               |

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| Clause    | Test Items and Test Requirements  | Measurement or Observation Result | Determination |
|-----------|-----------------------------------|-----------------------------------|---------------|
|           |                                   | 19#                               |               |
| 8.4.3.1a) | RT20-000 80A                      |                                   | P             |
|           | Conventional non-fusing current   |                                   |               |
|           | Ambient air temperature: +20±5°C  | 20.4                              |               |
|           | Test current: 1.25x80A(DC)        | 100                               |               |
|           | Connecting wires: 25x1 mm²x m     | 25x1                              |               |
| 8.4.3.1b) | Conventional non-fusing time: ≥2h | Non-fusing within 2 hours         | P             |
|           | Conventional fusing current       |                                   |               |
|           | Ambient air temperature: +20±5°C  | 20.4                              |               |
|           | Test current: 1.6x80A(DC)         | 128                               |               |
|           | Connecting wires: 25x1 mm²x m     | 25x1                              |               |
|           | Conventional fusing time: <2h     | 20min06s                          |               |
|           |                                   |                                   |               |
|           |                                   |                                   |               |
|           |                                   |                                   |               |
|           |                                   |                                   |               |

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| Clause  | Test Items and Test Requirements                                                                                                                                                                                                                                                                                                                                                                                                                         | Measurement or Observation Result                                                                                                 | Determination |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------|
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 20#                                                                                                                               |               |
| 8.4.3.2 | <p>Rated current</p> <p>Ambient air temperature: +20±5°C</p> <p>Connecting wires: 25x1 mm<sup>2</sup>x m</p> <p>Test current: 1.05x80A(DC)</p> <p>Experiment time: 100h</p> <p>Each cycle includes:</p> <p>Powering-on for 2 hours</p> <p>Powering-off for 0.1x2h=12min</p> <p>Verify the non-fuse characteristics after testing:</p> <p>Ambient air temperature: +20±5°C</p> <p>Test current: 1.25x80A(DC)</p> <p>Conventional non-fusing time: ≥2h</p> | <p>20.2</p> <p>25x1</p> <p>84.0</p> <p>100</p> <p>120min</p> <p>12min</p> <p>20.2</p> <p>100</p> <p>Non-fusing within 2 hours</p> | P             |

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| Clause    | Test Items and Test Requirements           | Measurement or Observation Result |     |                            |                           | Determination |
|-----------|--------------------------------------------|-----------------------------------|-----|----------------------------|---------------------------|---------------|
|           |                                            | 21#                               | 22# | 23#                        | 24#                       |               |
| 8.4.3.3.2 | Threshold                                  |                                   |     |                            |                           | P             |
|           | Ambient air temperature: +20±5°C           |                                   |     | 20.4                       |                           |               |
|           | Connecting wires: 25x1 mm <sup>2</sup> x m |                                   |     | 25x1                       |                           |               |
|           | Test current (A)(DC)                       |                                   |     |                            |                           |               |
|           | Specified time (s)                         |                                   |     |                            |                           |               |
|           | Imin: 215                                  | ≥10                               |     | 215A<br>10s<br>Non-fusing  |                           |               |
|           | Imax: 425                                  | <5                                |     | 425A<br>3.04s<br>Fusing    |                           |               |
|           | Imin: 610                                  | ≥0.1                              |     | 610A<br>0.1s<br>non-fusing |                           |               |
|           |                                            |                                   |     |                            | 1.10x10 <sup>3</sup><br>A |               |
|           | Imax: 1.10x103                             | <0.1                              |     |                            | 45ms<br>Fusing            |               |

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| Clause    | Test Items and Test Requirements           | Measurement or Observation Result | Determination |
|-----------|--------------------------------------------|-----------------------------------|---------------|
|           |                                            | 25#                               |               |
| 8.4.3.1a) | RT20-000 63A                               |                                   | P             |
|           | Conventional non-fusing current            |                                   |               |
|           | Ambient air temperature: +20±5°C           | 20.2                              |               |
|           | Test current: 1.25x63A(DC)                 | 78.8                              |               |
|           | Connecting wires: 16x1 mm <sup>2</sup> x m | 16x1                              |               |
| 8.4.3.1b) | Conventional non-fusing time: ≥1h          | Non-fusing within 1 hour          | P             |
|           | Conventional fusing current                |                                   |               |
|           | Ambient air temperature: +20±5°C           | 20.2                              |               |
|           | Test current: 1.6x63A(DC)                  | 101                               |               |
|           | Connecting wires: 16x1 mm <sup>2</sup> x m | 16x1                              |               |
|           | Conventional fusing time: <1h              | 21min07s                          |               |
|           |                                            |                                   |               |
|           |                                            |                                   |               |
|           |                                            |                                   |               |
|           |                                            |                                   |               |

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| Clause  | Test Items and Test Requirements                   | Measurement or Observation Result | Determination |
|---------|----------------------------------------------------|-----------------------------------|---------------|
|         |                                                    | 26#                               |               |
| 8.4.3.2 | Rated current                                      |                                   | P             |
|         | Ambient air temperature: +20±5°C                   | 20.2                              |               |
|         | Connecting wires: 16x1 mm <sup>2</sup> x m         | 16x1                              |               |
|         | Test current: 1.05x63A(DC)                         | 66.2                              |               |
|         | Experiment time: 100h                              | 100                               |               |
|         | Each cycle includes:                               |                                   |               |
|         | Powering-on for 1 hour                             | 60min                             |               |
|         | Powering-off for 0.1x1h=6min                       | 6min                              |               |
|         | Verify the non-fuse characteristics after testing: |                                   |               |
|         | Ambient air temperature: +20±5°C                   | 20.2                              |               |
|         | Test current: 1.25x63A(DC)                         | 78.8                              |               |
|         | Conventional non-fusing time: ≥1h                  | Non-fusing within 1 hour          |               |

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| Clause    | Test Items and Test Requirements                                                                                                                                                                          | Measurement or Observation Result |                                             |                            |                        | Determination |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------|----------------------------|------------------------|---------------|
|           |                                                                                                                                                                                                           | 27#                               | 28#                                         | 29#                        | 30#                    |               |
| 8.4.3.3.2 | Threshold<br>Ambient air temperature: +20±5°C<br>Connecting wires: 16x1 mm²x m<br>Test current (A)(DC)Specified time (s)<br><br>Imin: 160≥10<br><br>Imax: 320<5<br><br>Imin: 450≥0.1<br><br>Imax: 820<0.1 | 160A<br>10s<br>Non-fusing         | 20.3<br>16x1<br><br>320A<br>2.79s<br>Fusing | 450A<br>0.1s<br>non-fusing | 820A<br>44ms<br>Fusing | P             |

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| Clause    | Test Items and Test Requirements                                                                                                                                                        | Measurement or Observation Result                | Determination |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|---------------|
|           |                                                                                                                                                                                         | 31#                                              |               |
| 8.4.3.1a) | RT20-000 50A<br>Conventional non-fusing current<br>Ambient air temperature: +20±5°C<br>Test current: 1.25x50A(DC)<br>Connecting wires: 10x1 mm²x m<br>Conventional non-fusing time: ≥1h | 20.2<br>62.5<br>10x1<br>Non-fusing within 1 hour | P             |
|           | 8.4.3.1b)<br>Conventional fusing current<br>Ambient air temperature: +20±5°C<br>Test current: 1.6x50A(DC)<br>Connecting wires: 10x1 mm²x m<br>Conventional fusing time: <1h             | 20.2<br>80.0<br>10x1<br>19min16s                 | P             |

| Clause  | Test Items and Test Requirements                   | Measurement or Observation Result | Determination |
|---------|----------------------------------------------------|-----------------------------------|---------------|
|         |                                                    | 32#                               |               |
| 8.4.3.2 | Rated current                                      |                                   | P             |
|         | Ambient air temperature: +20±5°C                   | 20.4                              |               |
|         | Connecting wires: 10x1 mm <sup>2</sup> x m         | 10x1                              |               |
|         | Test current: 1.05x50A(DC)                         | 52.5                              |               |
|         | Experiment time: 100h                              | 100                               |               |
|         | Each cycle includes:                               |                                   |               |
|         | Powering-on for 1 hour                             | 60min                             |               |
|         | Powering-off for 0.1x1h=6min                       | 6min                              |               |
|         | Verify the non-fuse characteristics after testing: |                                   |               |
|         | Ambient air temperature: +20±5°C                   | 20.3                              |               |
|         | Test current: 1.25x50A(DC)                         | 62.5                              |               |
|         | Conventional non-fusing time: ≥1h                  | Non-fusing within 1 hour          |               |

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| Clause    | Test Items and Test Requirements                                                                                                                                                                                       | Measurement or Observation Result |                                             |                            |                        | Determination |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------|----------------------------|------------------------|---------------|
|           |                                                                                                                                                                                                                        | 33#                               | 34#                                         | 35#                        | 36#                    |               |
| 8.4.3.3.2 | Threshold<br>Ambient air temperature: +20±5°C<br>Connecting wires: 10x1 mm <sup>2</sup> x m<br>Test current (A)(DC)Specified time (s)<br><br>Imin: 125≥10<br><br>Imax: 250<5<br><br>Imin: 350≥0.1<br><br>Imax: 610<0.1 | 125A<br>10s<br>Non-fusing         | 20.2<br>10x1<br><br>250A<br>2.72s<br>Fusing | 350A<br>0.1s<br>non-fusing | 610A<br>44ms<br>Fusing | P             |

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| Clause    | Test Items and Test Requirements  | Measurement or Observation Result | Determination |
|-----------|-----------------------------------|-----------------------------------|---------------|
|           |                                   | 37#                               |               |
| 8.4.3.1a) | RT20-000     40A                  |                                   | P             |
|           | Conventional non-fusing current   |                                   |               |
|           | Ambient air temperature: +20±5℃   | 20.4                              |               |
|           | Test current: 1.25x40A(DC)        | 50.0                              |               |
|           | Connecting wires: 10x1    mm²x m  | 10x1                              |               |
| 8.4.3.1b) | Conventional non-fusing time: ≥1h | Non-fusing within 1 hour          | P             |
|           | Conventional fusing current       |                                   |               |
|           | Ambient air temperature: +20±5℃   | 20.2                              |               |
|           | Test current: 1.6x40A(DC)         | 64.0                              |               |
|           | Connecting wires: 10x1    mm²x m  | 10x1                              |               |
|           | Conventional fusing time: <1h     | 17min14s                          |               |
|           |                                   |                                   |               |
|           |                                   |                                   |               |
|           |                                   |                                   |               |
|           |                                   |                                   |               |

| Clause  | Test Items and Test Requirements                   | Measurement or Observation Result | Determin<br>ation |
|---------|----------------------------------------------------|-----------------------------------|-------------------|
|         |                                                    | 38#                               |                   |
| 8.4.3.2 | Rated current                                      |                                   | P                 |
|         | Ambient air temperature: +20±5°C                   | 20.2                              |                   |
|         | Connecting wires: 10x1 mm²x m                      | 10x1                              |                   |
|         | Test current: 1.05x40A(DC)                         | 42.0                              |                   |
|         | Experiment time: 100h                              | 100                               |                   |
|         | Each cycle includes:                               |                                   |                   |
|         | Powering-on for 1 hour                             | 60min                             |                   |
|         | Powering-off for 0.1x1h=6min                       | 6min                              |                   |
|         | Verify the non-fuse characteristics after testing: |                                   |                   |
|         | Ambient air temperature: +20±5°C                   | 20.2                              |                   |
|         | Test current: 1.25x40A(DC)                         | 50.0                              |                   |
|         | Conventional non-fusing time: ≥1h                  | Non-fusing within 1 hour          |                   |

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| Clause    | Test Items and Test Requirements           | Measurement or Observation Result |     |            |            | Determination |
|-----------|--------------------------------------------|-----------------------------------|-----|------------|------------|---------------|
|           |                                            | 39#                               | 40# | 41#        | 42#        |               |
| 8.4.3.3.2 | Threshold                                  |                                   |     |            |            | P             |
|           | Ambient air temperature: +20±5°C           |                                   |     | 20.4       |            |               |
|           | Connecting wires: 10x1 mm <sup>2</sup> x m |                                   |     | 10x1       |            |               |
|           | Test current (A)(DC)                       |                                   |     |            |            |               |
|           | Specified time (s)                         |                                   |     |            |            |               |
|           | Imin: 95.0                                 |                                   |     | 95.0A      |            |               |
|           |                                            |                                   |     | 10s        |            |               |
|           |                                            |                                   |     | Non-fusing |            |               |
|           | Imax: 190                                  |                                   |     | 190A       |            |               |
|           |                                            |                                   |     | 2.27s      |            |               |
|           |                                            |                                   |     | Fusing     |            |               |
|           | Imin: 260                                  |                                   |     |            | 260A       |               |
|           |                                            |                                   |     |            | 0.1s       |               |
|           |                                            |                                   |     |            | non-fusing |               |
|           | Imax: 450                                  |                                   |     |            |            | 450A          |
|           |                                            |                                   |     |            |            | 42ms          |
|           |                                            |                                   |     |            |            | Fusing        |

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| Clause    | Test Items and Test Requirements                                                                                                                                                       | Measurement or Observation Result               | Determination |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------|
|           |                                                                                                                                                                                        | 43#                                             |               |
| 8.4.3.1a) | RT20-000 32A<br>Conventional non-fusing current<br>Ambient air temperature: +20±5°C<br>Test current: 1.25x32A(DC)<br>Connecting wires: 6x1 mm²x m<br>Conventional non-fusing time: ≥1h | 20.3<br>40.0<br>6x1<br>Non-fusing within 1 hour | P             |
| 8.4.3.1b) | Conventional fusing current<br>Ambient air temperature: +20±5°C<br>Test current: 1.6x32A(DC)<br>Connecting wires: 6x1 mm²x m<br>Conventional fusing time: <1h                          | 20.4<br>51.2<br>6x1<br>18min09s                 | P             |

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| Clause  | Test Items and Test Requirements                   | Measurement or Observation Result | Determination |
|---------|----------------------------------------------------|-----------------------------------|---------------|
|         |                                                    | 44#                               |               |
| 8.4.3.2 | Rated current                                      |                                   | P             |
|         | Ambient air temperature: +20±5℃                    | 20.2                              |               |
|         | Connecting wires: 6x1 mm <sup>2</sup> x m          | 6x1                               |               |
|         | Test current: 1.05x32A(DC)                         | 33.6                              |               |
|         | Experiment time: 100h                              | 100                               |               |
|         | Each cycle includes:                               |                                   |               |
|         | Powering-on for 1 hour                             | 60min                             |               |
|         | Powering-off for 0.1x1h=6min                       | 6min                              |               |
|         | Verify the non-fuse characteristics after testing: |                                   |               |
|         | Ambient air temperature: +20±5℃                    | 20.2                              |               |
|         | Test current: 1.25x32A(DC)                         | 40.0                              |               |
|         | Conventional non-fusing time: ≥1h                  | Non-fusing within 1 hour          |               |

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| Clause    | Test Items and Test Requirements          | Measurement or Observation Result |            |            |        | Determina<br>tion |
|-----------|-------------------------------------------|-----------------------------------|------------|------------|--------|-------------------|
|           |                                           | 45#                               | 46#        | 47#        | 48#    |                   |
| 8.4.3.3.2 | Threshold                                 |                                   |            |            |        | P                 |
|           | Ambient air temperature: +20±5°C          |                                   |            | 20.2       |        |                   |
|           | Connecting wires: 6x1 mm <sup>2</sup> x m |                                   |            | 6x1        |        |                   |
|           | Test current (A)(DC)                      |                                   |            |            |        |                   |
|           | Specified time (s)                        |                                   |            |            |        |                   |
|           |                                           |                                   | 75.0A      |            |        |                   |
|           | Imin: 75.0                                | ≥10                               | 10s        |            |        |                   |
|           |                                           |                                   | Non-fusing |            |        |                   |
|           | Imax: 150                                 | <5                                | 150A       |            |        |                   |
|           |                                           |                                   | 2.84s      |            |        |                   |
|           |                                           | Fusing                            |            |            |        |                   |
|           |                                           |                                   | 200A       |            |        |                   |
|           | Imin: 200                                 | ≥0.1                              |            | 0.1s       |        |                   |
|           |                                           |                                   |            | non-fusing |        |                   |
|           | Imax: 350                                 | <0.1                              |            |            | 350A   |                   |
|           |                                           |                                   |            |            | 47ms   |                   |
|           |                                           |                                   |            |            | Fusing |                   |

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| Clause    | Test Items and Test Requirements  | Measurement or Observation Result | Determination |
|-----------|-----------------------------------|-----------------------------------|---------------|
|           |                                   | 49#                               |               |
| 8.4.3.1a) | RT20-000 25A                      |                                   | P             |
|           | Conventional non-fusing current   |                                   |               |
|           | Ambient air temperature: +20±5°C  | 20.4                              |               |
|           | Test current: 1.25x25A(DC)        | 31.3                              |               |
|           | Connecting wires: 4x1 mm²x m      | 4x1                               |               |
| 8.4.3.1b) | Conventional non-fusing time: ≥1h | Non-fusing within 1 hour          | P             |
|           | Conventional fusing current       |                                   |               |
|           | Ambient air temperature: +20±5°C  | 20.3                              |               |
|           | Test current: 1.6x25A(DC)         | 40.0                              |               |
|           | Connecting wires: 4x1 mm²x m      | 4x1                               |               |
|           | Conventional fusing time: <1h     | 15min17s                          |               |
|           |                                   |                                   |               |
|           |                                   |                                   |               |
|           |                                   |                                   |               |
|           |                                   |                                   |               |

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| Clause  | Test Items and Test Requirements                   | Measurement or Observation Result | Determination |
|---------|----------------------------------------------------|-----------------------------------|---------------|
|         |                                                    | 50#                               |               |
| 8.4.3.2 | Rated current                                      |                                   | P             |
|         | Ambient air temperature: +20±5℃                    | 20.2                              |               |
|         | Connecting wires: 4x1 mm²x m                       | 4x1                               |               |
|         | Test current: 1.05x25A(DC)                         | 26.3                              |               |
|         | Experiment time: 100h                              | 100                               |               |
|         | Each cycle includes:                               |                                   |               |
|         | Powering-on for 1 hour                             | 60min                             |               |
|         | Powering-off for 0.1x1h=6min                       | 6min                              |               |
|         | Verify the non-fuse characteristics after testing: |                                   |               |
|         | Ambient air temperature: +20±5℃                    | 20.3                              |               |
|         | Test current: 1.25x25A(DC)                         | 31.3                              |               |
|         | Conventional non-fusing time: ≥1h                  | Non-fusing within 1 hour          |               |

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| Clause    | Test Items and Test Requirements | Measurement or Observation Result |            |            |        | Determination |
|-----------|----------------------------------|-----------------------------------|------------|------------|--------|---------------|
|           |                                  | 51#                               | 52#        | 53#        | 54#    |               |
| 8.4.3.3.2 | Threshold                        |                                   |            |            |        | P             |
|           | Ambient air temperature: +20±5°C |                                   |            | 20.3       |        |               |
|           | Connecting wires: 4x1 mm2xm      |                                   |            | 4x1        |        |               |
|           | Test current (A)(DC)             |                                   |            |            |        |               |
|           | Specified time (s)               |                                   |            |            |        |               |
|           | Imin: 52.0                       | ≥10                               | 52.0A      | 10s        |        |               |
|           |                                  |                                   | Non-fusing |            |        |               |
|           | Imax: 110                        | <5                                | 110A       | 2.74s      |        |               |
|           |                                  |                                   | Fusing     |            |        |               |
|           | Imin: 150                        | ≥0.1                              |            | 150A       |        |               |
|           |                                  |                                   |            | 0.1s       |        |               |
|           |                                  |                                   |            | non-fusing |        |               |
|           | Imax: 260                        | <0.1                              |            |            | 260A   |               |
|           |                                  |                                   |            |            | 49ms   |               |
|           |                                  |                                   |            |            | Fusing |               |

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| Clause    | Test Items and Test Requirements            | Measurement or Observation Result | Determination |
|-----------|---------------------------------------------|-----------------------------------|---------------|
|           |                                             | 55#                               |               |
| 8.4.3.1a) | RT20-000 20A                                |                                   | P             |
|           | Conventional non-fusing current             |                                   |               |
|           | Ambient air temperature: +20±5℃             | 20.3                              |               |
|           | Test current: 1.25x20A(DC)                  | 25.0                              |               |
|           | Connecting wires: 2.5x1 mm <sup>2</sup> x m | 2.5x1                             |               |
| 8.4.3.1b) | Conventional non-fusing time: ≥1h           | Non-fusing within 1 hour          | P             |
|           | Conventional fusing current                 |                                   |               |
|           | Ambient air temperature: +20±5℃             | 20.2                              |               |
|           | Test current: 1.6x20A(DC)                   | 32.0                              |               |
|           | Connecting wires: 2.5x1 mm <sup>2</sup> x m | 2.5x1                             |               |
|           | Conventional fusing time: <1h               | 15min18s                          |               |
|           |                                             |                                   |               |
|           |                                             |                                   |               |
|           |                                             |                                   |               |
|           |                                             |                                   |               |

| Clause  | Test Items and Test Requirements                   | Measurement or Observation Result | Determination |
|---------|----------------------------------------------------|-----------------------------------|---------------|
|         |                                                    | 56#                               |               |
| 8.4.3.2 | Rated current                                      |                                   | P             |
|         | Ambient air temperature: +20±5°C                   | 20.2                              |               |
|         | Connecting wires: 2.5x1 mm <sup>2</sup> x m        | 2.5x1                             |               |
|         | Test current: 1.05x20A(DC)                         | 21.0                              |               |
|         | Experiment time: 100h                              | 100                               |               |
|         | Each cycle includes:                               |                                   |               |
|         | Powering-on for 1 hour                             | 60min                             |               |
|         | Powering-off for 0.1x1h=6min                       | 6min                              |               |
|         | Verify the non-fuse characteristics after testing: |                                   |               |
|         | Ambient air temperature: +20±5°C                   | 20.2                              |               |
|         | Test current: 1.25x20A(DC)                         | 25.0                              |               |
|         | Conventional non-fusing time: ≥1h                  | Non-fusing within 1 hour          |               |

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| Clause    | Test Items and Test Requirements | Measurement or Observation Result |        |                |        | Determin<br>ation |
|-----------|----------------------------------|-----------------------------------|--------|----------------|--------|-------------------|
|           |                                  | 57#                               | 58#    | 59#            | 60#    |                   |
| 8.4.3.3.2 | Threshold                        |                                   |        |                |        | P                 |
|           | Ambient air temperature: +20±5°C |                                   |        | 20.4           |        |                   |
|           | Connecting wires: 2.5x1 mm²xm    |                                   |        | 2.5x1          |        |                   |
|           | Test current (A)(DC)             |                                   |        |                |        |                   |
|           | Specified time (s)               |                                   |        |                |        |                   |
|           | Imin: 42.0                       | ≥10                               |        |                |        |                   |
|           |                                  | 42.0A                             |        |                |        |                   |
|           |                                  | 10s                               |        |                |        |                   |
|           |                                  | Non-fus<br>ing                    |        |                |        |                   |
|           |                                  |                                   | 85.0A  |                |        |                   |
|           | Imax: 85.0                       | <5                                |        |                |        |                   |
|           |                                  |                                   | 2.26s  |                |        |                   |
|           |                                  |                                   | Fusing |                |        |                   |
|           | Imin: 110                        | ≥0.1                              |        |                |        |                   |
|           |                                  |                                   |        | 110A           |        |                   |
|           |                                  |                                   |        | 0.1s           |        |                   |
|           |                                  |                                   |        | non-fusi<br>ng |        |                   |
|           | Imax: 200                        | <0.1                              |        |                |        |                   |
|           |                                  |                                   |        |                | 200A   |                   |
|           |                                  |                                   |        |                | 53ms   |                   |
|           |                                  |                                   |        |                | Fusing |                   |

| Clause    | Test Items and Test Requirements                                                                                                                                                         | Measurement or Observation Result                 | Determination |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|---------------|
|           |                                                                                                                                                                                          | 61#                                               |               |
| 8.4.3.1a) | RT20-000 16A<br>Conventional non-fusing current<br>Ambient air temperature: +20±5°C<br>Test current: 1.25x16A(DC)<br>Connecting wires: 2.5x1 mm²x m<br>Conventional non-fusing time: ≥1h | 20.2<br>20.0<br>2.5x1<br>Non-fusing within 1 hour | P             |
|           | 8.4.3.1b)<br>Conventional fusing current<br>Ambient air temperature: +20±5°C<br>Test current: 1.6x16A(DC)<br>Connecting wires: 2.5x1 mm²x m<br>Conventional fusing time: <1h             | 20.3<br>25.6<br>2.5x1<br>13min19s                 | P             |

| Clause  | Test Items and Test Requirements                   | Measurement or Observation Result | Determination |
|---------|----------------------------------------------------|-----------------------------------|---------------|
|         |                                                    | 62#                               |               |
| 8.4.3.2 | Rated current                                      |                                   | P             |
|         | Ambient air temperature: +20±5°C                   | 20.3                              |               |
|         | Connecting wires: 2.5x1 mm <sup>2</sup> x m        | 2.5x1                             |               |
|         | Test current: 1.05x16A(DC)                         | 16.8                              |               |
|         | Experiment time: 100h                              | 100                               |               |
|         | Each cycle includes:                               |                                   |               |
|         | Powering-on for 1 hour                             | 60min                             |               |
|         | Powering-off for 0.1x1h=6min                       | 6min                              |               |
|         | Verify the non-fuse characteristics after testing: |                                   |               |
|         | Ambient air temperature: +20±5°C                   | 20.3                              |               |
|         | Test current: 1.25x16A(DC)                         | 20.0                              |               |
|         | Conventional non-fusing time: ≥1h                  | Non-fusing within 1 hour          |               |

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| Clause    | Test Items and Test Requirements | Measurement or Observation Result |     |            |     | Determination |
|-----------|----------------------------------|-----------------------------------|-----|------------|-----|---------------|
|           |                                  | 63#                               | 64# | 65#        | 66# |               |
| 8.4.3.3.2 | Threshold                        |                                   |     |            |     | P             |
|           | Ambient air temperature: +20±5℃  |                                   |     | 20.3       |     |               |
|           | Connecting wires: 2.5x1 mm²x m   |                                   |     | 2.5x1      |     |               |
|           | Test current (A)(DC)             |                                   |     |            |     |               |
|           | Specified time (s)               |                                   |     |            |     |               |
|           | Imin: 33.0                       |                                   |     | ≥10        |     |               |
|           |                                  |                                   |     | 33.0A      |     |               |
|           |                                  |                                   |     | 10s        |     |               |
|           |                                  |                                   |     | Non-fusing |     |               |
|           |                                  |                                   |     | 65.0A      |     |               |
|           | Imax: 65.0                       |                                   |     | <5         |     |               |
|           |                                  |                                   |     | 2.76s      |     |               |
|           |                                  |                                   |     | Fusing     |     |               |
|           |                                  |                                   |     | 85.0A      |     |               |
|           | Imin: 85.0                       |                                   |     | ≥0.1       |     |               |
|           |                                  |                                   |     | 0.1s       |     |               |
|           |                                  |                                   |     | non-fusing |     |               |
|           | Imax: 150                        |                                   |     | <0.1       |     |               |
|           |                                  |                                   |     | 150A       |     |               |
|           |                                  |                                   |     | 53ms       |     |               |
|           |                                  |                                   |     | Fusing     |     |               |

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| Clause    | Test Items and Test Requirements  | Measurement or Observation Result | Determination |
|-----------|-----------------------------------|-----------------------------------|---------------|
|           |                                   | 67#                               |               |
| 8.4.3.1a) | RT20-000 10A                      |                                   | P             |
|           | Conventional non-fusing current   |                                   |               |
|           | Ambient air temperature: +20±5°C  | 20.3                              |               |
|           | Test current: 1.5x10A(DC)         | 15.0                              |               |
|           | Connecting wires: 1.5x1 mm²x m    | 1.5x1                             |               |
| 8.4.3.1b) | Conventional non-fusing time: ≥1h | Non-fusing within 1 hour          | P             |
|           | Conventional fusing current       |                                   |               |
|           | Ambient air temperature: +20±5°C  | 20.3                              |               |
|           | Test current: 1.9x10A(DC)         | 19.0                              |               |
|           | Connecting wires: 1.5x1 mm²x m    | 1.5x1                             |               |
|           | Conventional fusing time: <1h     | 13min17s                          |               |
|           |                                   |                                   |               |
|           |                                   |                                   |               |
|           |                                   |                                   |               |
|           |                                   |                                   |               |

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| Clause  | Test Items and Test Requirements                   | Measurement or Observation Result | Determination |
|---------|----------------------------------------------------|-----------------------------------|---------------|
|         |                                                    | 68#                               |               |
| 8.4.3.2 | Rated current                                      |                                   | P             |
|         | Ambient air temperature: +20±5℃                    | 20.3                              |               |
|         | Connecting wires: 1.5x1 mm²x m                     | 1.5x1                             |               |
|         | Test current: 1.05x10A(DC)                         | 10.5                              |               |
|         | Experiment time: 100h                              | 100                               |               |
|         | Each cycle includes:                               |                                   |               |
|         | Powering-on for 1 hour                             | 60min                             |               |
|         | Powering-off for 0.1x1h=6min                       | 6min                              |               |
|         | Verify the non-fuse characteristics after testing: |                                   |               |
|         | Ambient air temperature: +20±5℃                    | 20.3                              |               |
|         | Test current: 1.5x10A(DC)                          | 15.0                              |               |
|         | Conventional non-fusing time: ≥1h                  | Non-fusing within 1 hour          |               |

| Clause    | Test Items and Test Requirements | Measurement or Observation Result |            |            |        | Determination |
|-----------|----------------------------------|-----------------------------------|------------|------------|--------|---------------|
|           |                                  | 69#                               | 70#        | 71#        | 72#    |               |
| 8.4.3.3.2 | Threshold                        |                                   |            |            |        | P             |
|           | Ambient air temperature: +20±5℃  |                                   | 20.2       |            |        |               |
|           | Connecting wires: 1.5x1 mm²x m   |                                   | 1.5x1      |            |        |               |
|           | Test current (A)(DC)             |                                   |            |            |        |               |
|           | Specified time (s)               |                                   |            |            |        |               |
|           |                                  | 22.0A                             |            |            |        |               |
|           | Imin: 22.0                       | ≥10                               | 10s        |            |        |               |
|           |                                  |                                   | Non-fusing |            |        |               |
|           |                                  |                                   | 46.5A      |            |        |               |
|           | Imax: 46.5                       | <5                                | 2.84s      |            |        |               |
|           |                                  |                                   | Fusing     |            |        |               |
|           |                                  |                                   |            | 58.0A      |        |               |
|           | Imin: 58.0                       | ≥0.1                              |            | 0.1s       |        |               |
|           |                                  |                                   |            | non-fusing |        |               |
|           | Imax: 110                        | <0.1                              |            |            | 110A   |               |
|           |                                  |                                   |            |            | 56ms   |               |
|           |                                  |                                   |            |            | Fusing |               |

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| Clause    | Test Items and Test Requirements  | Measurement or Observation Result | Determination |
|-----------|-----------------------------------|-----------------------------------|---------------|
|           |                                   | 79#                               |               |
| 8.4.3.1a) | RT20-000 6A                       |                                   | P             |
|           | Conventional non-fusing current   |                                   |               |
|           | Ambient air temperature: +20±5°C  | 20.3                              |               |
|           | Test current: 1.5x6A(DC)          | 9.0                               |               |
|           | Connecting wires: 1x1 mm²x m      | 1x1                               |               |
| 8.4.3.1b) | Conventional non-fusing time: ≥1h | Non-fusing within 1 hour          | P             |
|           | Conventional fusing current       |                                   |               |
|           | Ambient air temperature: +20±5°C  | 20.3                              |               |
|           | Test current: 1.9x6A(DC)          | 11.4                              |               |
|           | Connecting wires: 1x1 mm²x m      | 1x1                               |               |
|           | Conventional fusing time: <1h     | 8min57s                           |               |
|           |                                   |                                   |               |
|           |                                   |                                   |               |
|           |                                   |                                   |               |
|           |                                   |                                   |               |

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| Clause  | Test Items and Test Requirements                   | Measurement or Observation Result | Determination |
|---------|----------------------------------------------------|-----------------------------------|---------------|
|         |                                                    | 80#                               |               |
| 8.4.3.2 | Rated current                                      |                                   | P             |
|         | Ambient air temperature: +20±5℃                    | 20.2                              |               |
|         | Connecting wires: 1x1 mm <sup>2</sup> x m          | 1x1                               |               |
|         | Test current: 1.05x6A(DC)                          | 6.30                              |               |
|         | Experiment time: 100h                              | 100                               |               |
|         | Each cycle includes:                               |                                   |               |
|         | Powering-on for 1 hour                             | 60min                             |               |
|         | Powering-off for 0.1x1h=6min                       | 6min                              |               |
|         | Verify the non-fuse characteristics after testing: |                                   |               |
|         | Ambient air temperature: +20±5℃                    | 20.3                              |               |
|         | Test current: 1.5x6A(DC)                           | 9.0                               |               |
|         | Conventional non-fusing time: ≥1h                  | Non-fusing within 1 hour          |               |

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| Clause    | Test Items and Test Requirements | Measurement or Observation Result |       |            |                   | Determination |
|-----------|----------------------------------|-----------------------------------|-------|------------|-------------------|---------------|
|           |                                  | 81#                               | 82#   | 83#        | 84#               |               |
| 8.4.3.3.2 | Threshold                        |                                   |       |            |                   | P             |
|           | Ambient air temperature: +20±5°C |                                   | 20.3  |            |                   |               |
|           | Connecting wires: 1x1 mm²xm      |                                   | 1x1   |            |                   |               |
|           | Test current (A)(DC)             |                                   |       |            |                   |               |
|           | Specified time (s)               |                                   |       |            |                   |               |
|           |                                  |                                   |       |            |                   |               |
|           | Imin: 11.0                       | ≥10                               |       | 11.0A      |                   |               |
|           |                                  |                                   |       | 10s        |                   |               |
|           |                                  |                                   |       | Non-fusing |                   |               |
|           |                                  |                                   | 28.0A |            |                   |               |
|           | Imax: 28.0                       | <5                                |       | 2.27s      |                   |               |
|           |                                  |                                   |       | Fusing     |                   |               |
|           |                                  |                                   |       |            | 26.0A             |               |
|           | Imin: 26.0                       | ≥0.1                              |       |            | 0.1s non-fusing   |               |
|           |                                  |                                   |       |            |                   |               |
|           | Imax: 72.0                       | <0.1                              |       |            |                   |               |
|           |                                  |                                   |       |            | 72.0A 48ms Fusing |               |

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| Clause    | Test Items and Test Requirements                                                                                                                                                                 | Measurement or Observation Result              | Determination |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------|
|           |                                                                                                                                                                                                  | 85#                                            |               |
| 8.4.3.1a) | RT20-000 4A<br>Conventional non-fusing current<br>Ambient air temperature: +20±5°C<br>Test current: 1.5x4A(DC)<br>Connecting wires: 1x1 mm <sup>2</sup> x m<br>Conventional non-fusing time: ≥1h | 20.3<br>6.0<br>1x1<br>Non-fusing within 1 hour | P             |
| 8.4.3.1b) | Conventional fusing current<br>Ambient air temperature: +20±5°C<br>Test current: 2.1x4A(DC)<br>Connecting wires: 1x1 mm <sup>2</sup> x m<br>Conventional fusing time: <1h                        | 20.3<br>8.4<br>1x1<br>7min02s                  | P             |

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| Clause  | Test Items and Test Requirements                   | Measurement or Observation Result | Determination |
|---------|----------------------------------------------------|-----------------------------------|---------------|
|         |                                                    | 86#                               |               |
| 8.4.3.2 | Rated current                                      |                                   | P             |
|         | Ambient air temperature: +20±5°C                   | 20.3                              |               |
|         | Connecting wires: 1x1 mm²x m                       | 1x1                               |               |
|         | Test current: 1.05x4A(DC)                          | 4.20                              |               |
|         | Experiment time: 100h                              | 100                               |               |
|         | Each cycle includes:                               |                                   |               |
|         | Powering-on for 1 hour                             | 60min                             |               |
|         | Powering-off for 0.1x1h=6min                       | 6min                              |               |
|         | Verify the non-fuse characteristics after testing: |                                   |               |
|         | Ambient air temperature: +20±5°C                   | 20.3                              |               |
|         | Test current: 1.5x4A(DC)                           | 6.0                               |               |
|         | Conventional non-fusing time: ≥1h                  | Non-fusing within 1 hour          |               |
|         |                                                    |                                   |               |
|         |                                                    |                                   |               |

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| Clause    | Test Items and Test Requirements | Measurement or Observation Result |       |        |            | Determina<br>tion |
|-----------|----------------------------------|-----------------------------------|-------|--------|------------|-------------------|
|           |                                  | 87#                               | 88#   | 89#    | 90#        |                   |
| 8.4.3.3.2 | Threshold                        |                                   |       |        |            | P                 |
|           | Ambient air temperature: +20±5℃  |                                   |       | 20.3   |            |                   |
|           | Connecting wires: 1x1 mm²x m     |                                   |       | 1x1    |            |                   |
|           | Test current (A)(DC)             |                                   |       |        |            |                   |
|           | Specified time (s)               |                                   |       |        |            |                   |
|           |                                  | 7.80A                             |       |        |            |                   |
|           | Imin: 7.8                        | ≥10                               |       |        |            |                   |
|           |                                  | 10s                               |       |        |            |                   |
|           |                                  | Non-fusing                        |       |        |            |                   |
|           |                                  |                                   | 18.5A |        |            |                   |
|           | Imax: 18.5                       | <5                                |       | 2.24s  |            |                   |
|           |                                  |                                   |       | Fusing |            |                   |
|           |                                  |                                   |       | 14.0A  |            |                   |
|           | Imin: 14.0                       | ≥0.1                              |       |        | 0.1s       |                   |
|           |                                  |                                   |       |        | non-fusing |                   |
|           | Imax: 47.0                       | <0.1                              |       |        |            | 47.0A             |
|           |                                  |                                   |       |        |            | 56ms              |
|           |                                  |                                   |       |        |            | Fusing            |

| Clause  | Test Items and Test Requirements                                                                                                                                                                                                                                                                                                                              | Measurement or Observation Result |                                                             |                     | Determination |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------------------------------|---------------------|---------------|
|         |                                                                                                                                                                                                                                                                                                                                                               | 91#                               | 92#                                                         | 93#                 |               |
| 8.4.3.4 | Overload<br>Ambient air temperature: +20±5°C<br>Overload current: 6.48A (DC) (manufacturer specified)<br>Number of tests Pulse 50 times<br>Pulse duration: 5s<br>Pulse interval time: 0.2x1h=12min<br>Verify characteristics after testing:<br>Ambient air temperature: +20±5°C<br>Test current: 6.48A (DC)<br>Operating time: >300s (manufacturer specified) |                                   | 20.3<br>6.48<br>50<br>5<br>12min<br>20.4<br>6.48<br>9min18s | 10min07s<br>9min27s | P             |

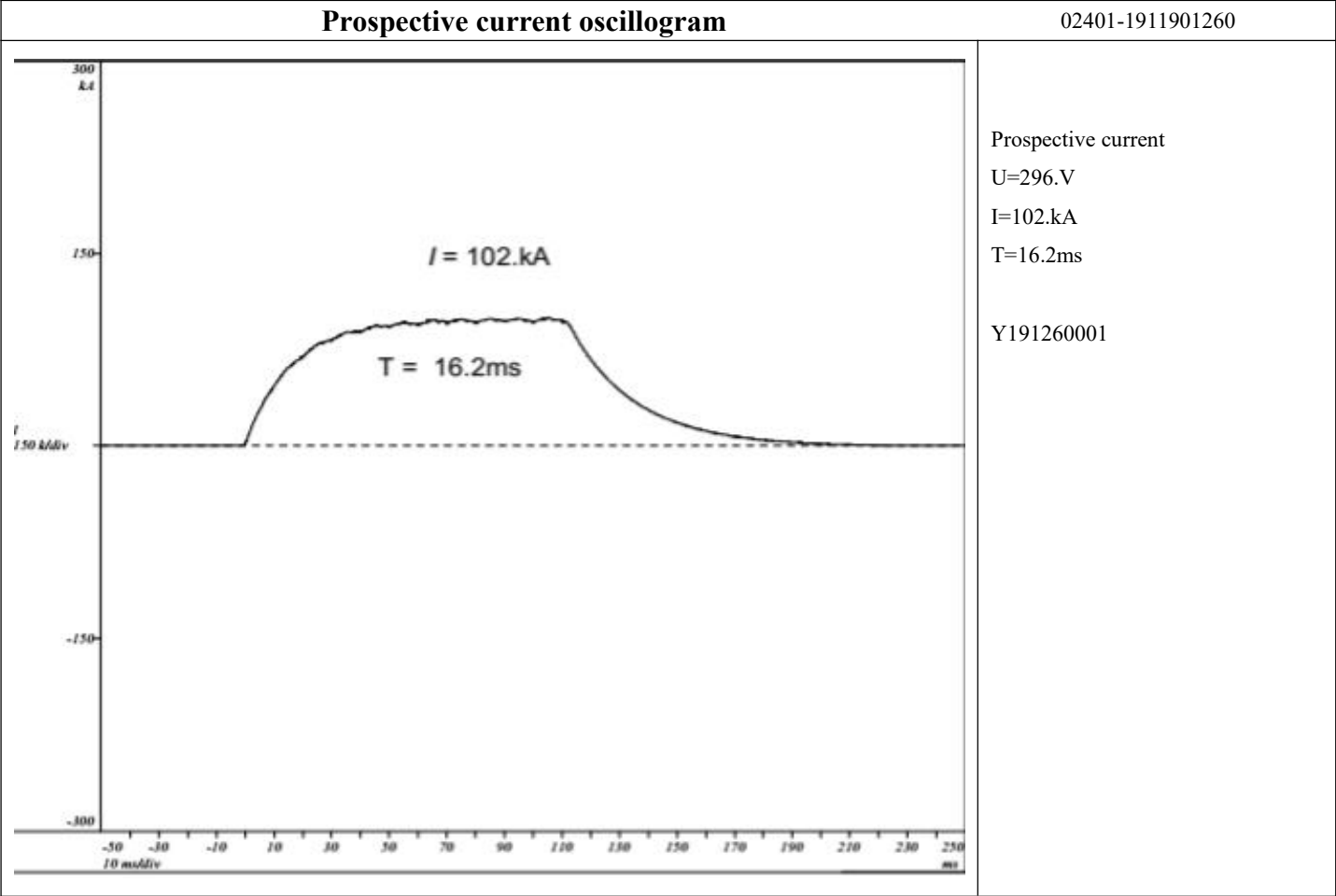
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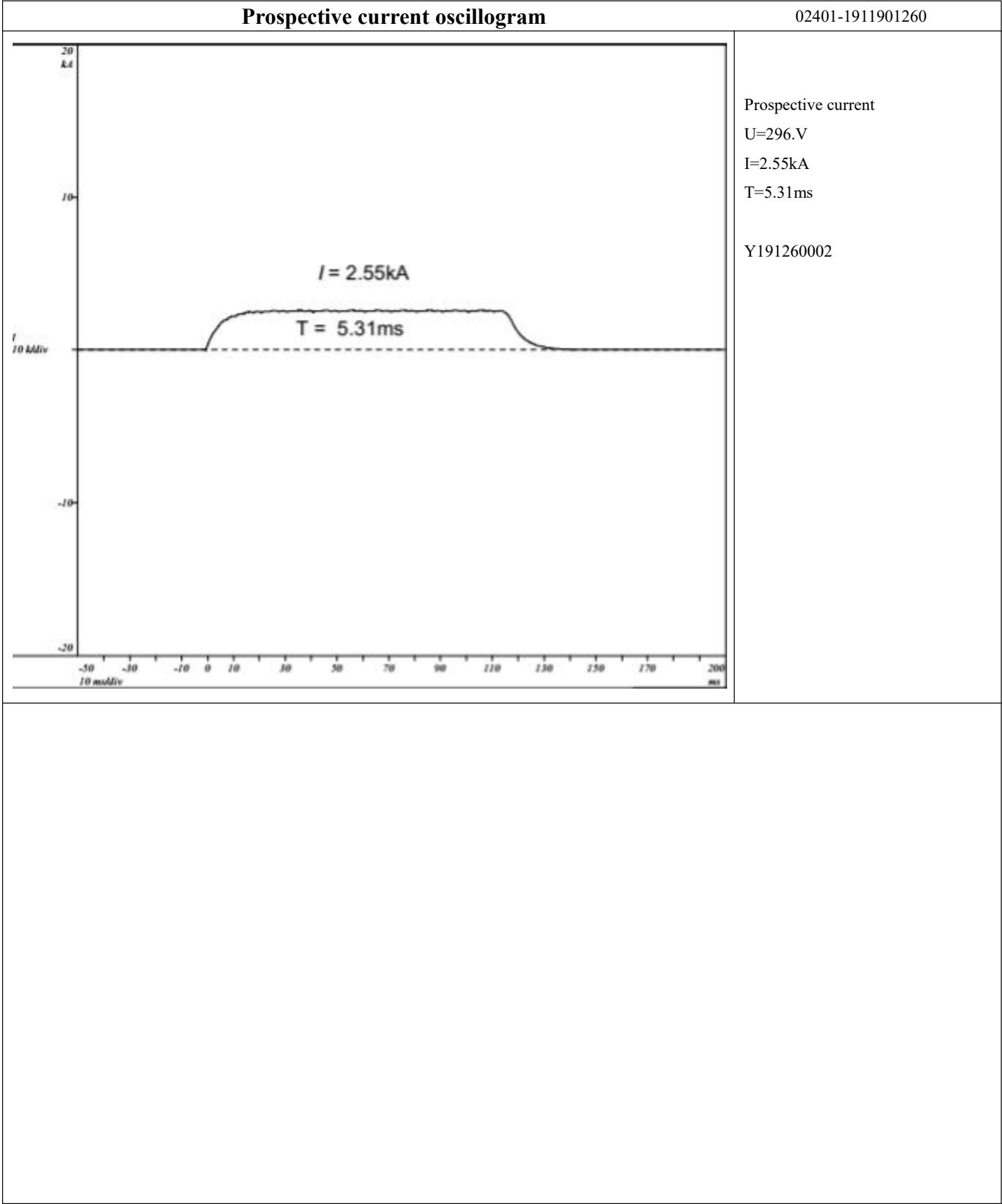






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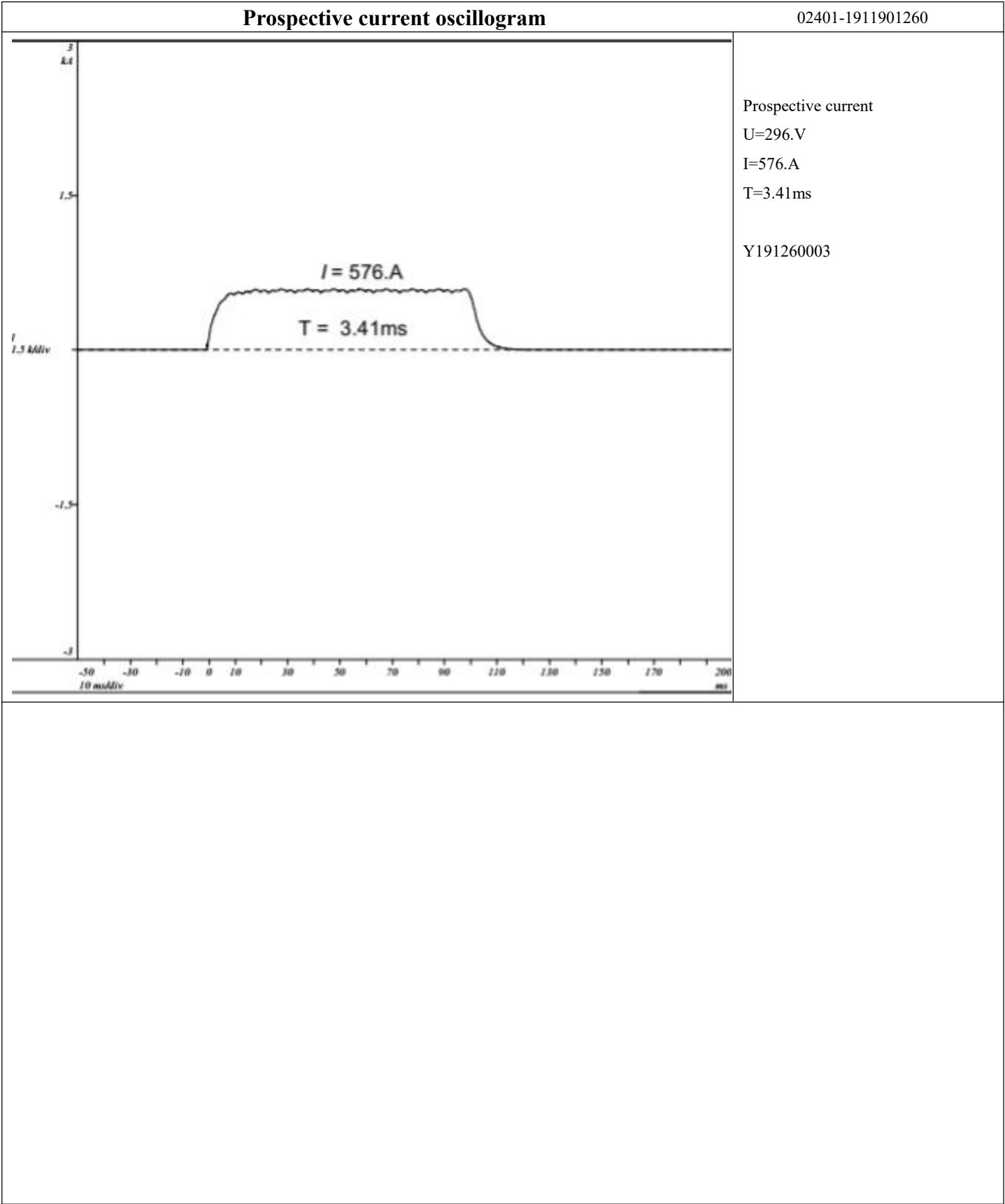


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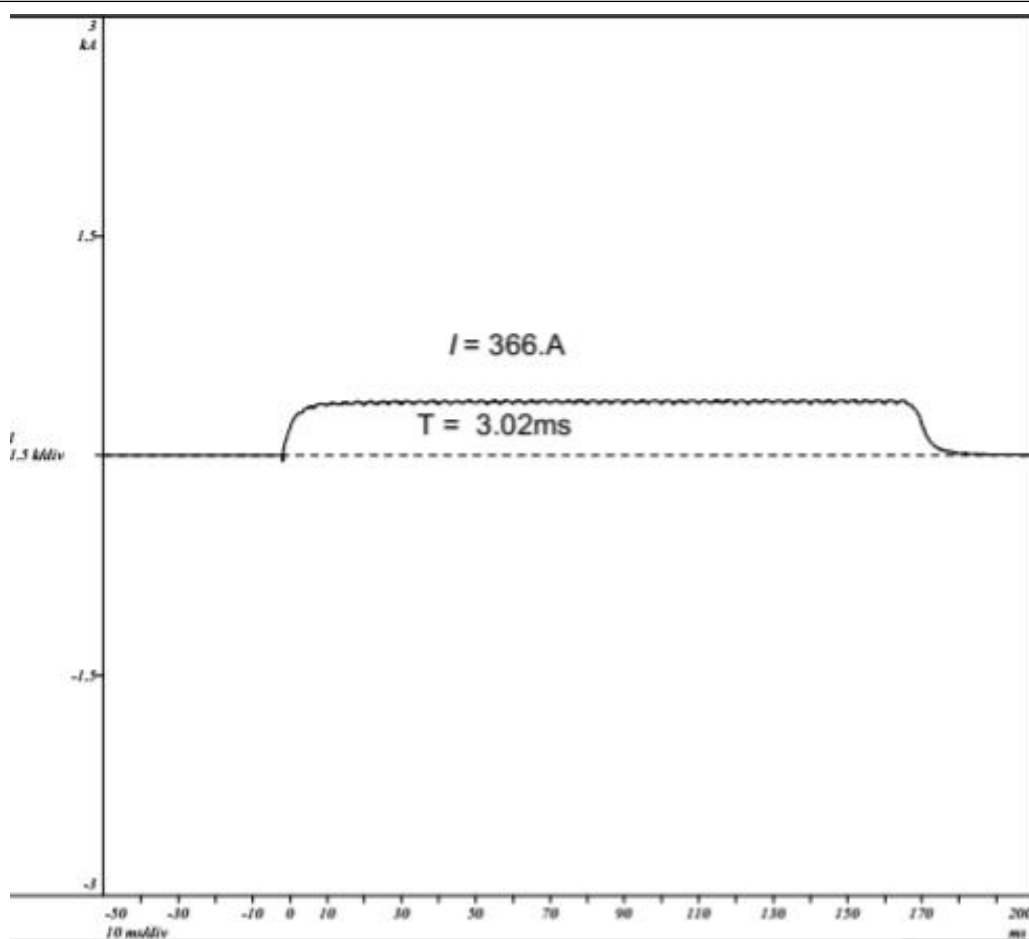


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## Prospective current oscillogram

02401-1911901260



Prospective current

U=296.V

I=366.A

T=3.02ms

Y191260004

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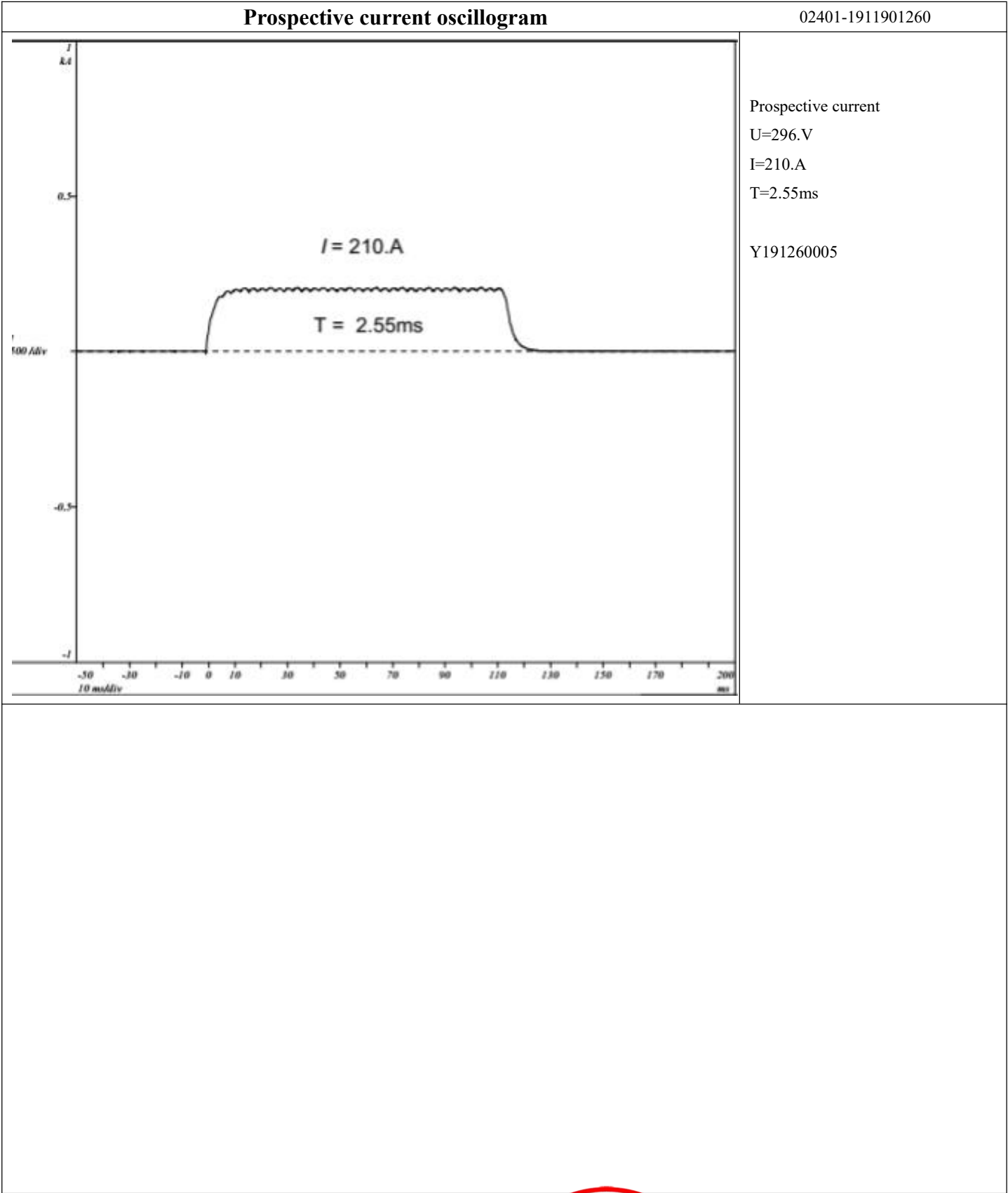
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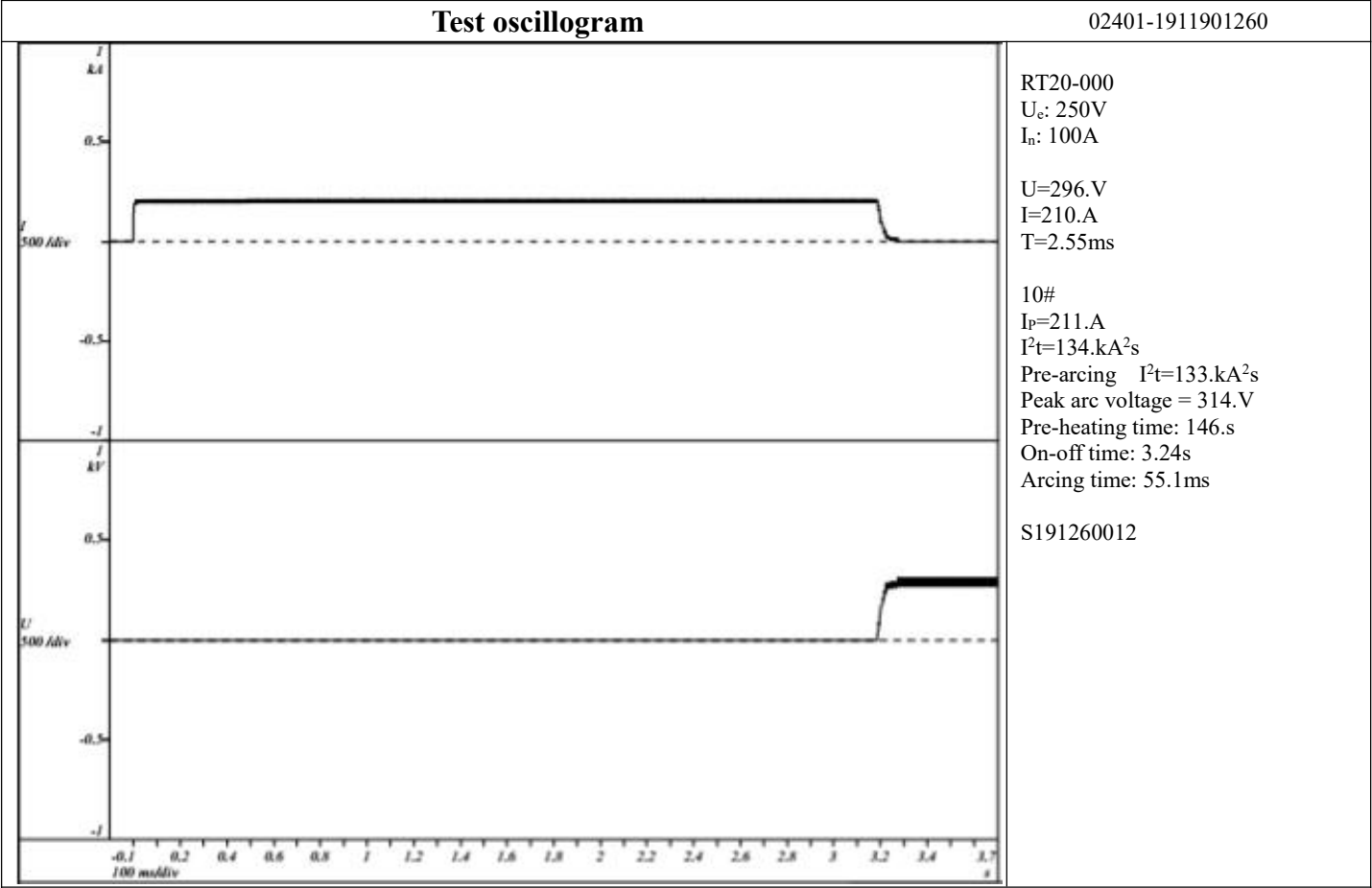
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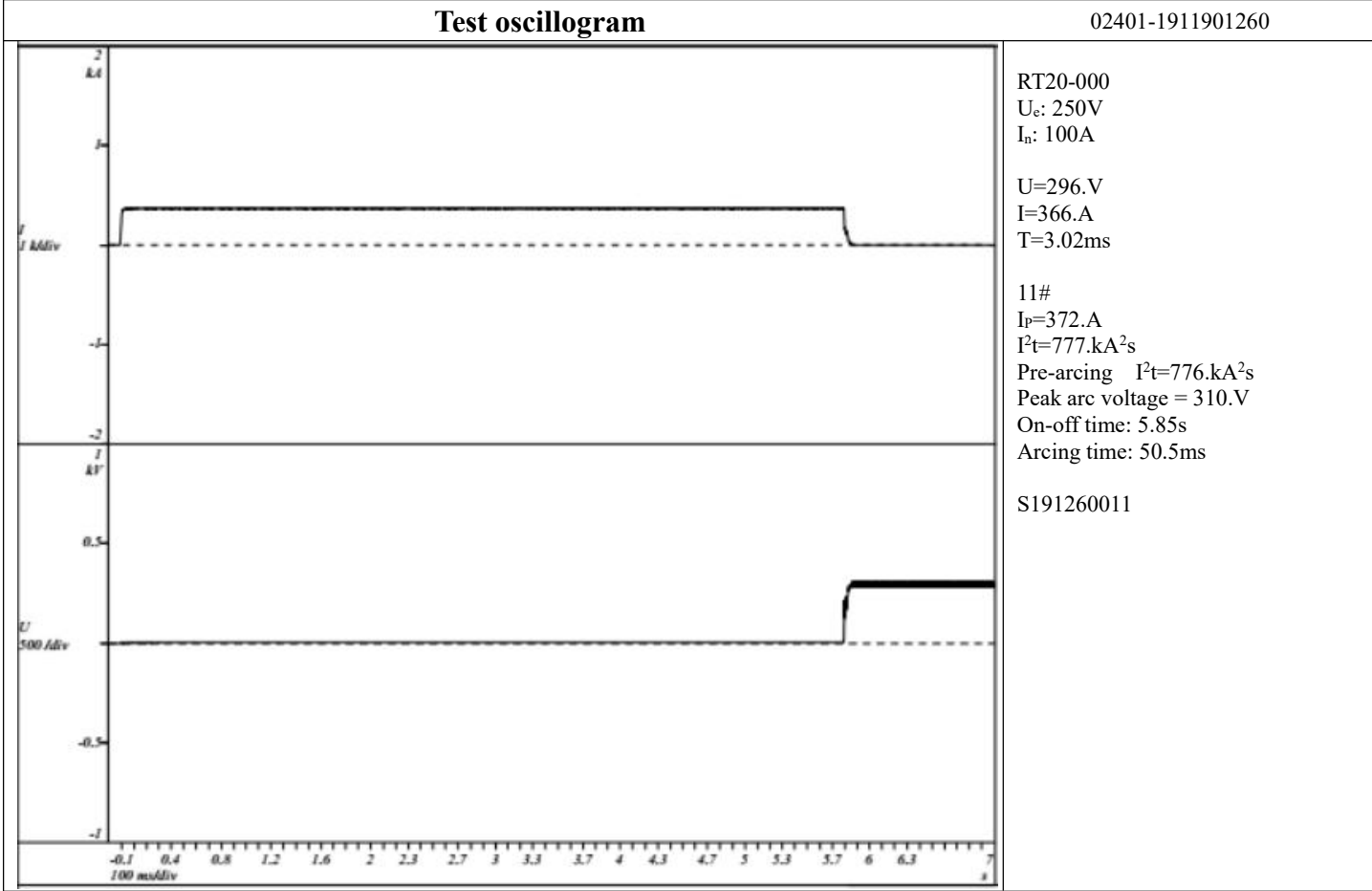


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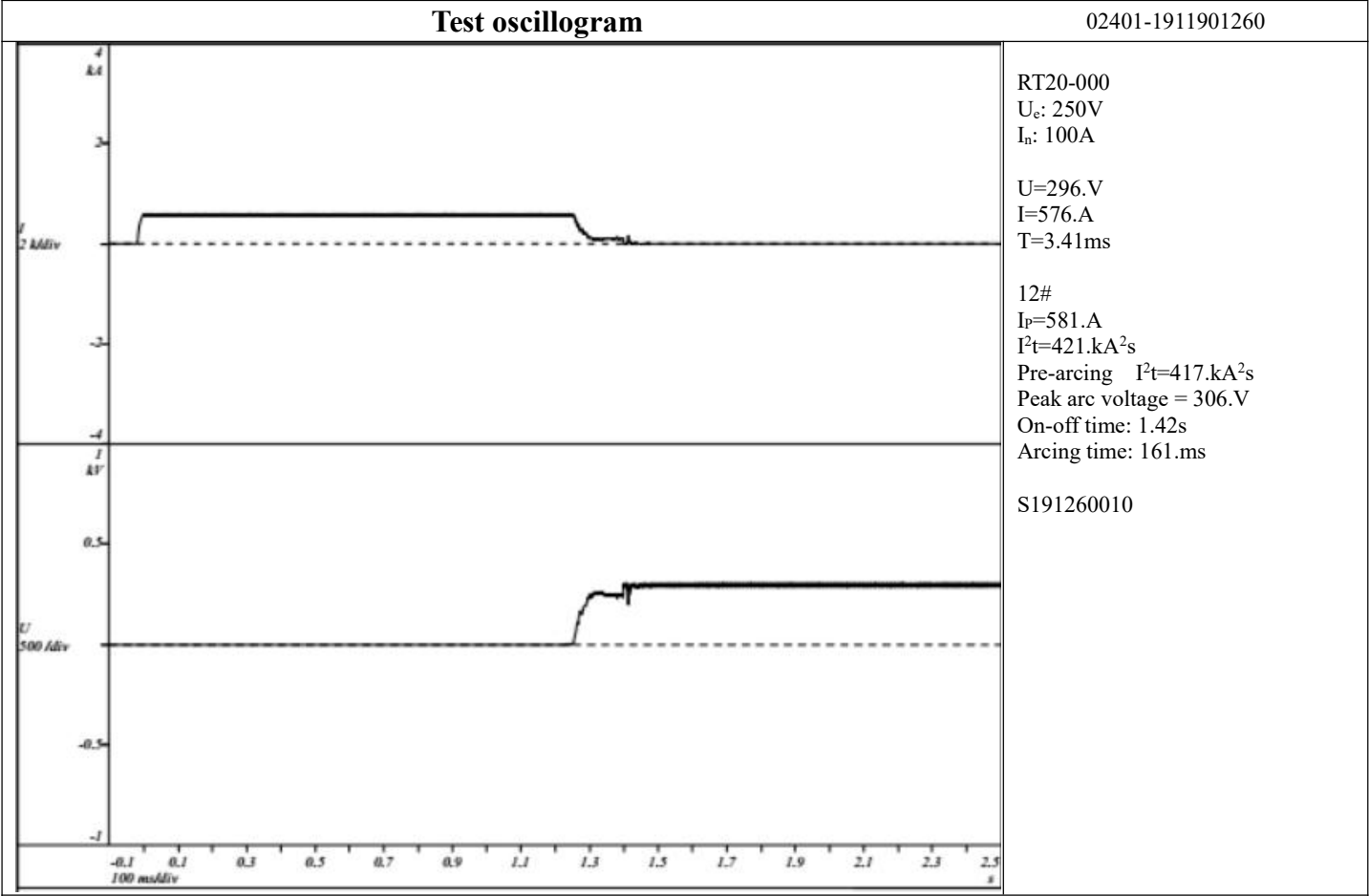
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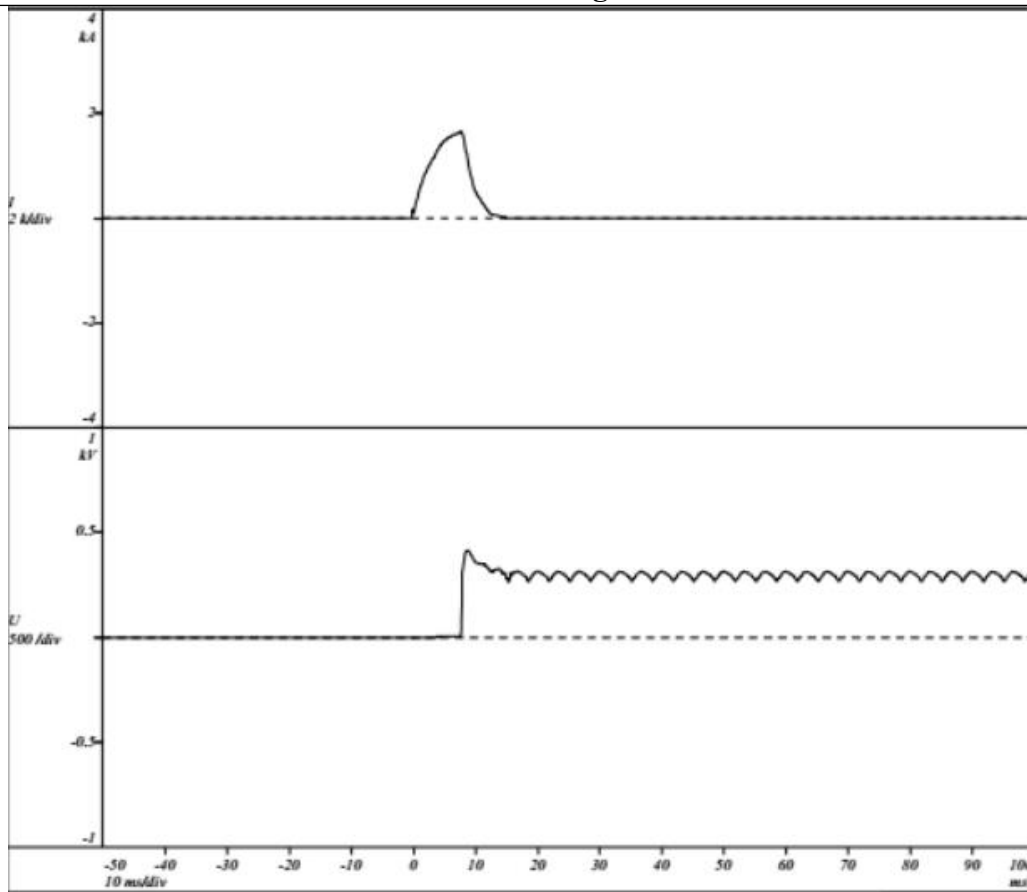
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## Test oscillogram

02401-1911901260



RT20-000  
U<sub>e</sub>: 250V  
I<sub>n</sub>: 100A

U=296.V  
I=2.55kA  
T=5.31ms

13#  
 $I_p = 1.66 \text{ kA}$   
 $I^2t = 14.9 \text{ kA}^2\text{s}$   
 Pre-arcing  $I^2t = 12.2 \text{ kA}^2\text{s}$   
 Peak arc voltage = 417. V  
 On-off time: 12.6ms  
 Arcing time: 4.58ms

S191260007

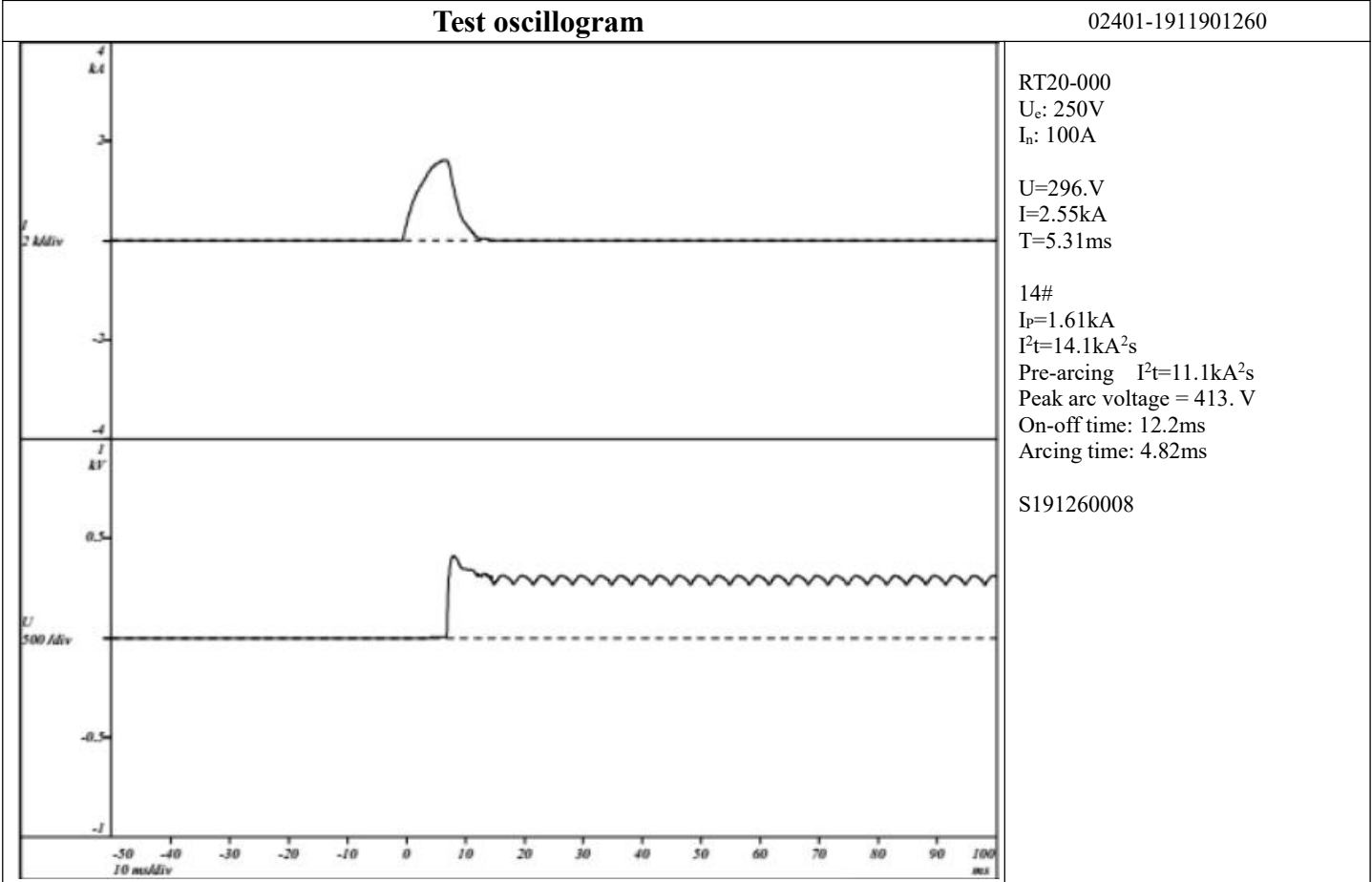
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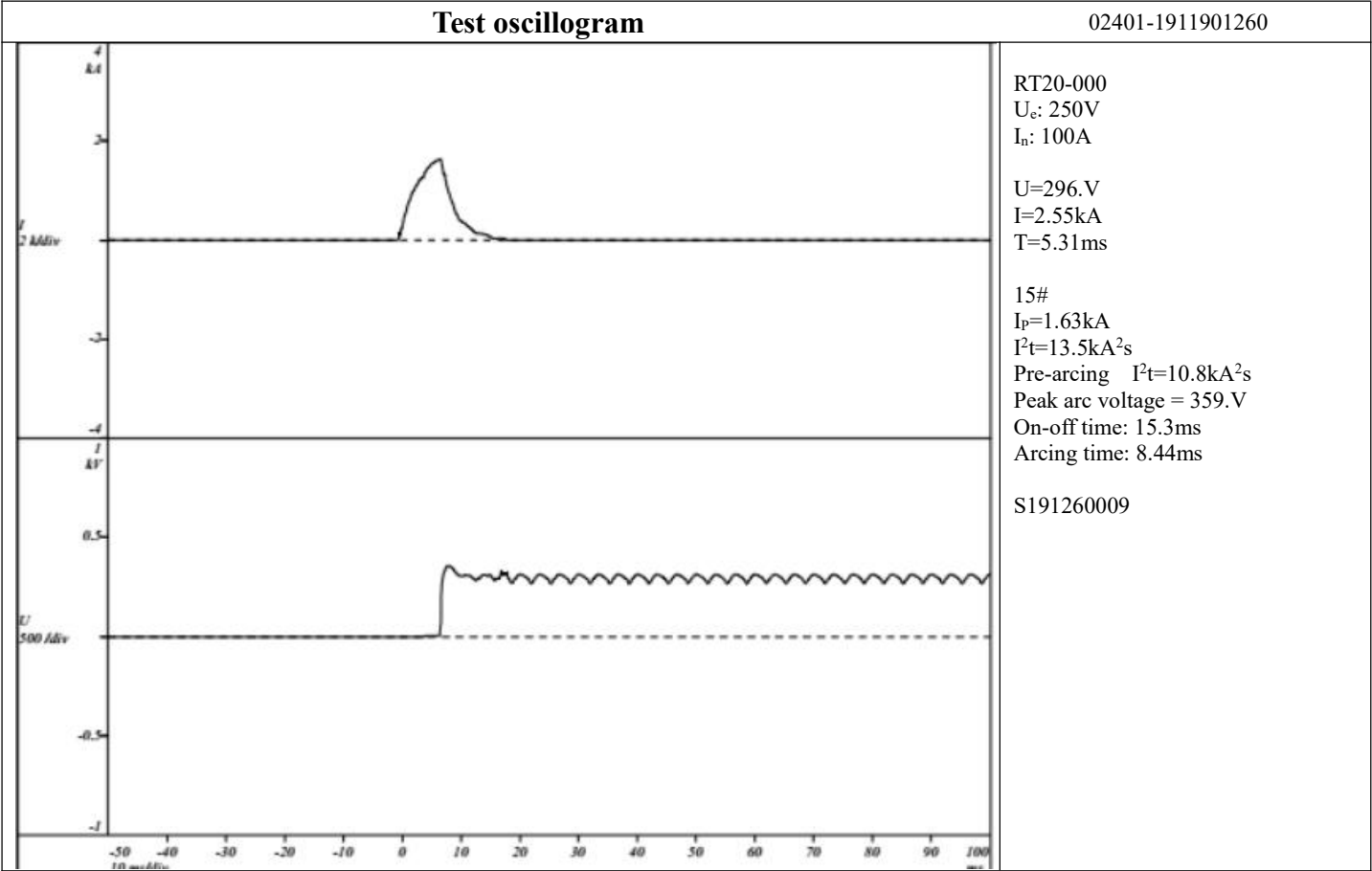


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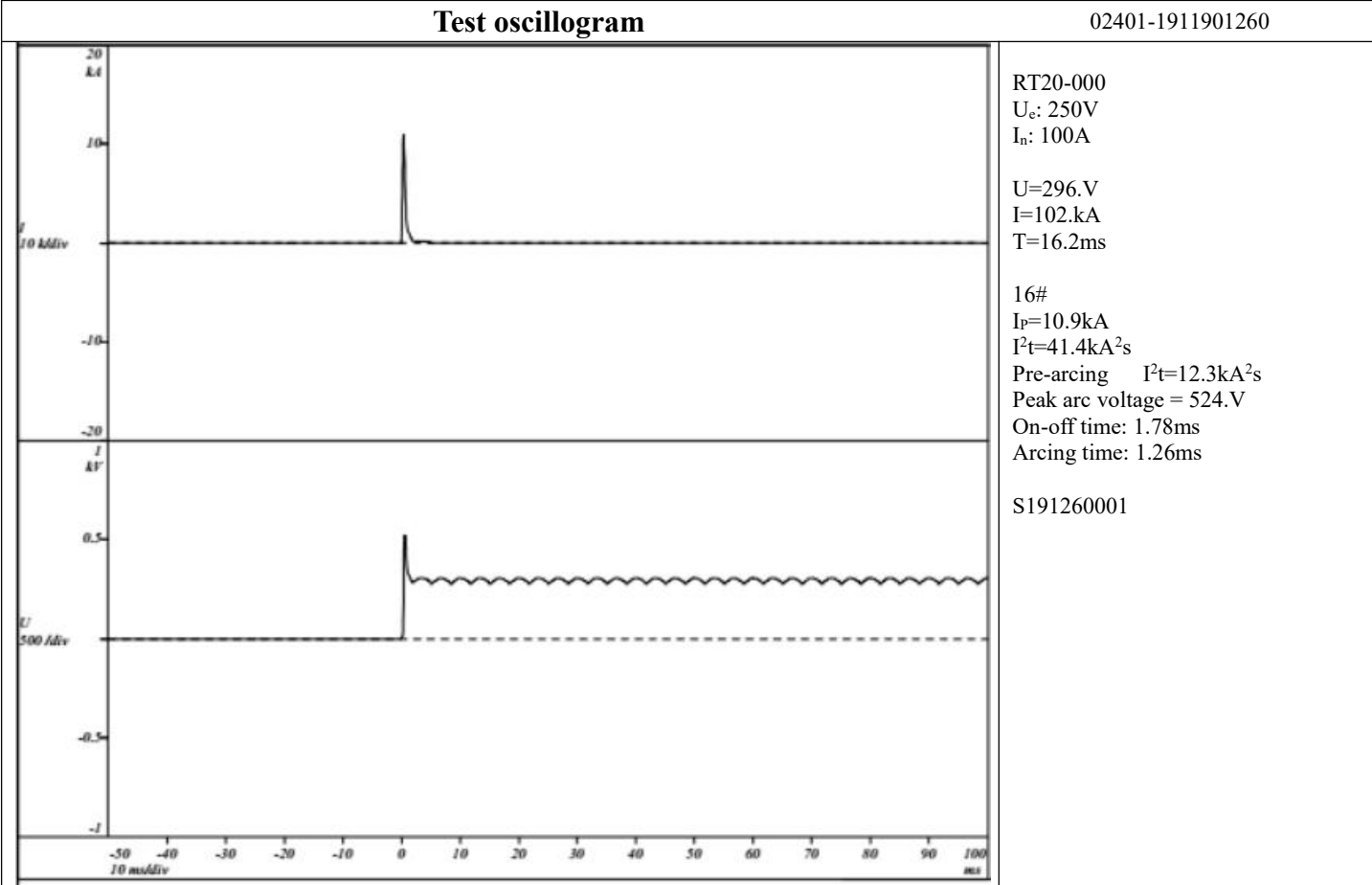
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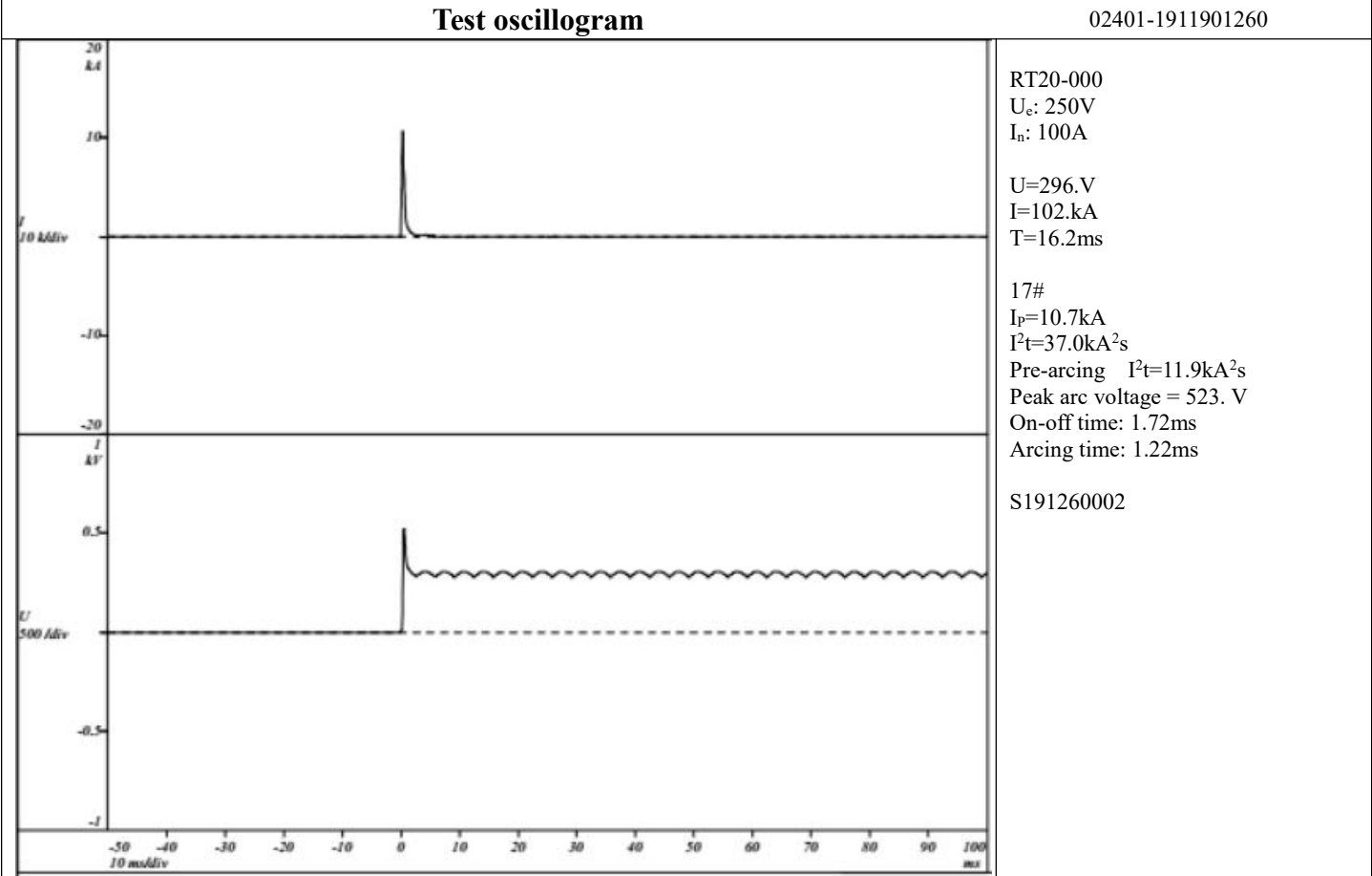
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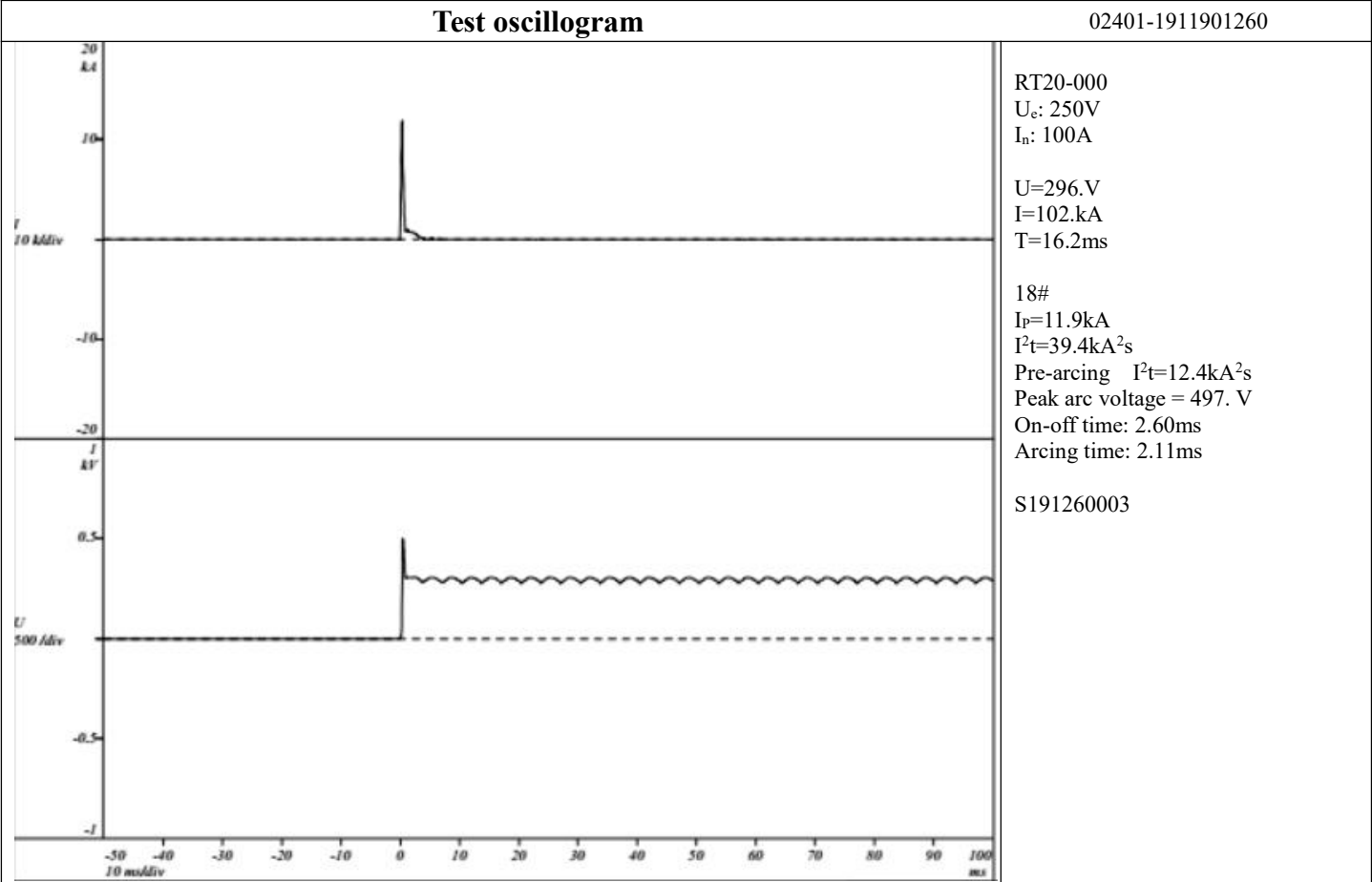


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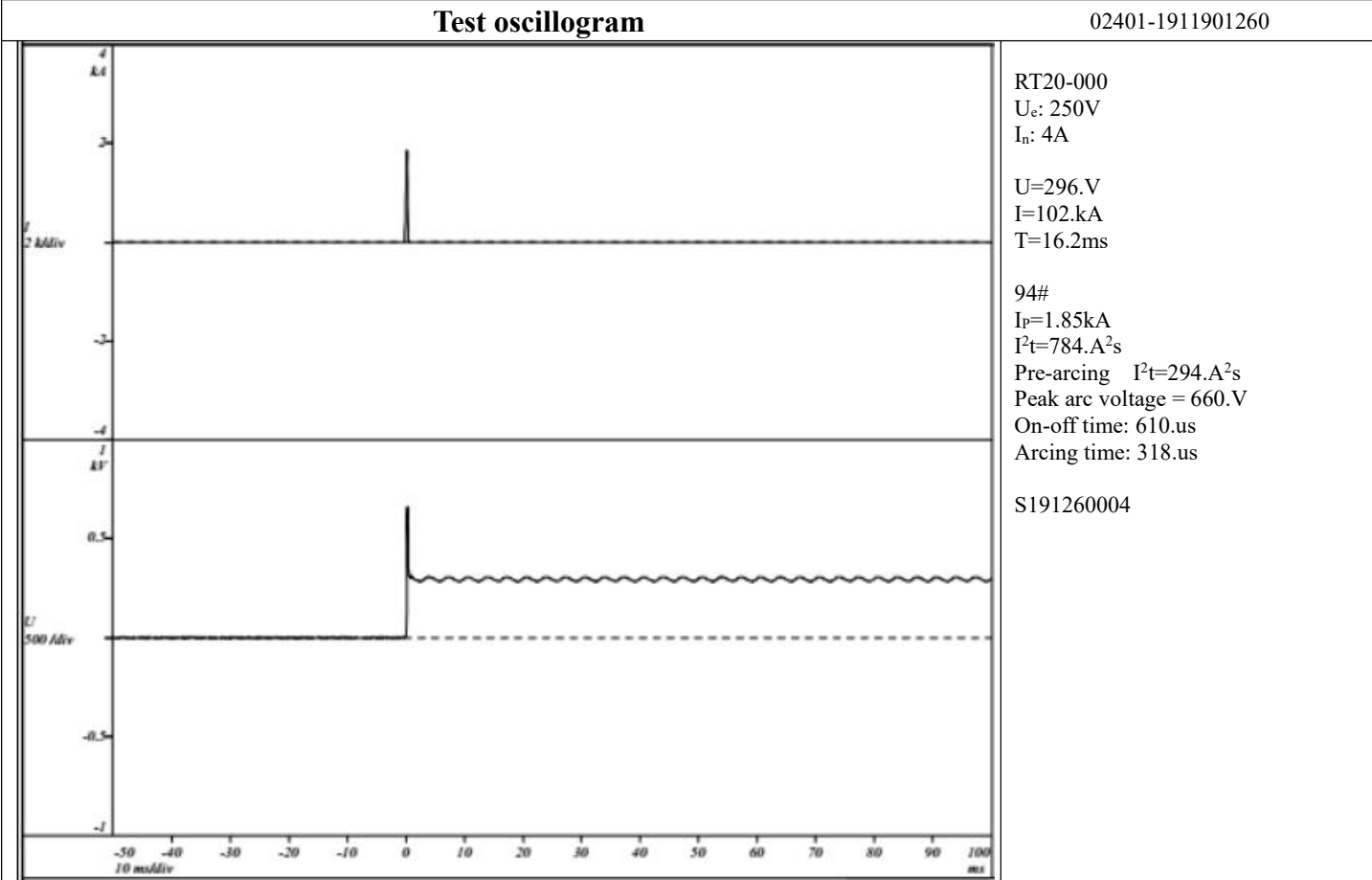


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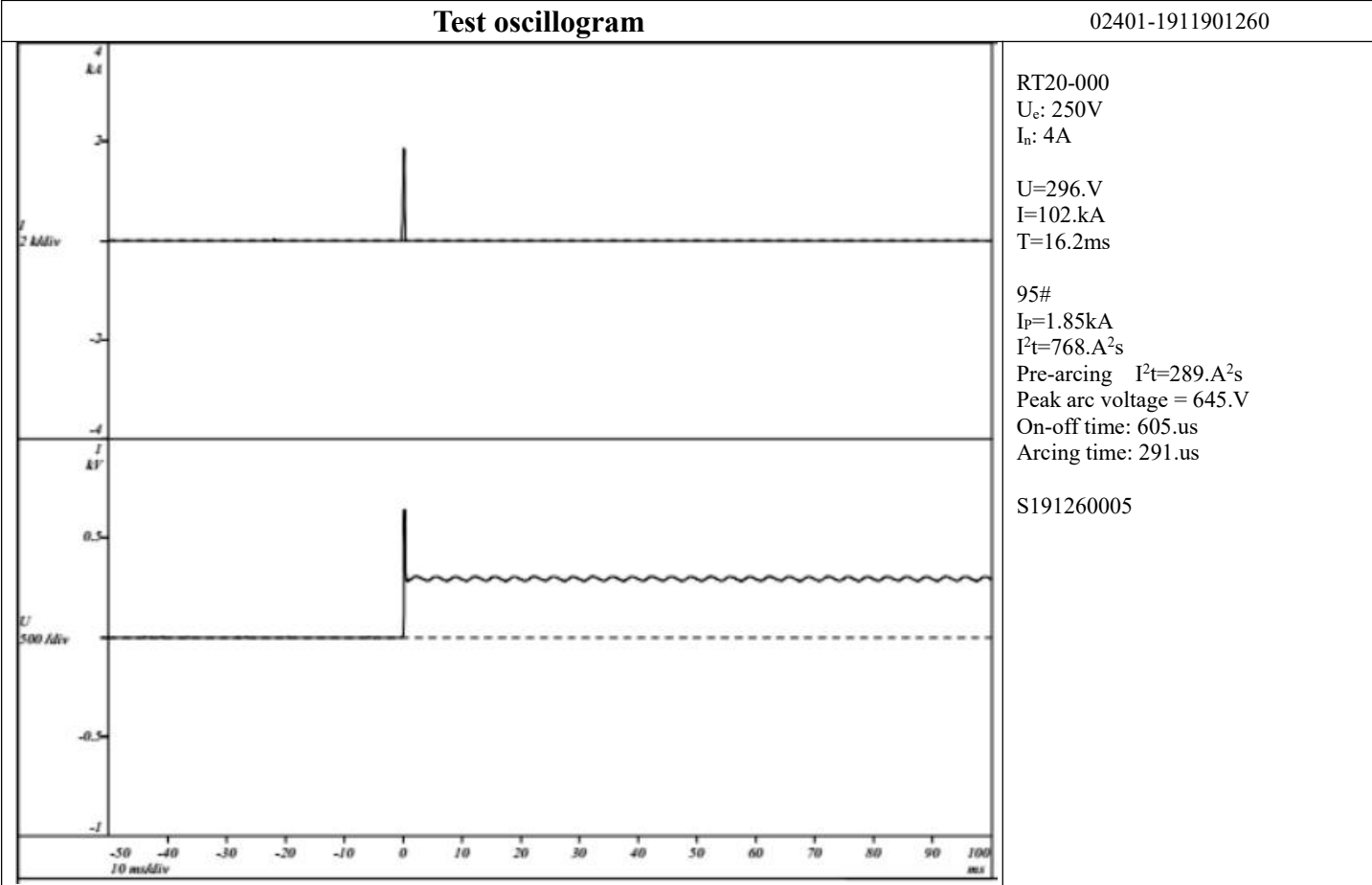


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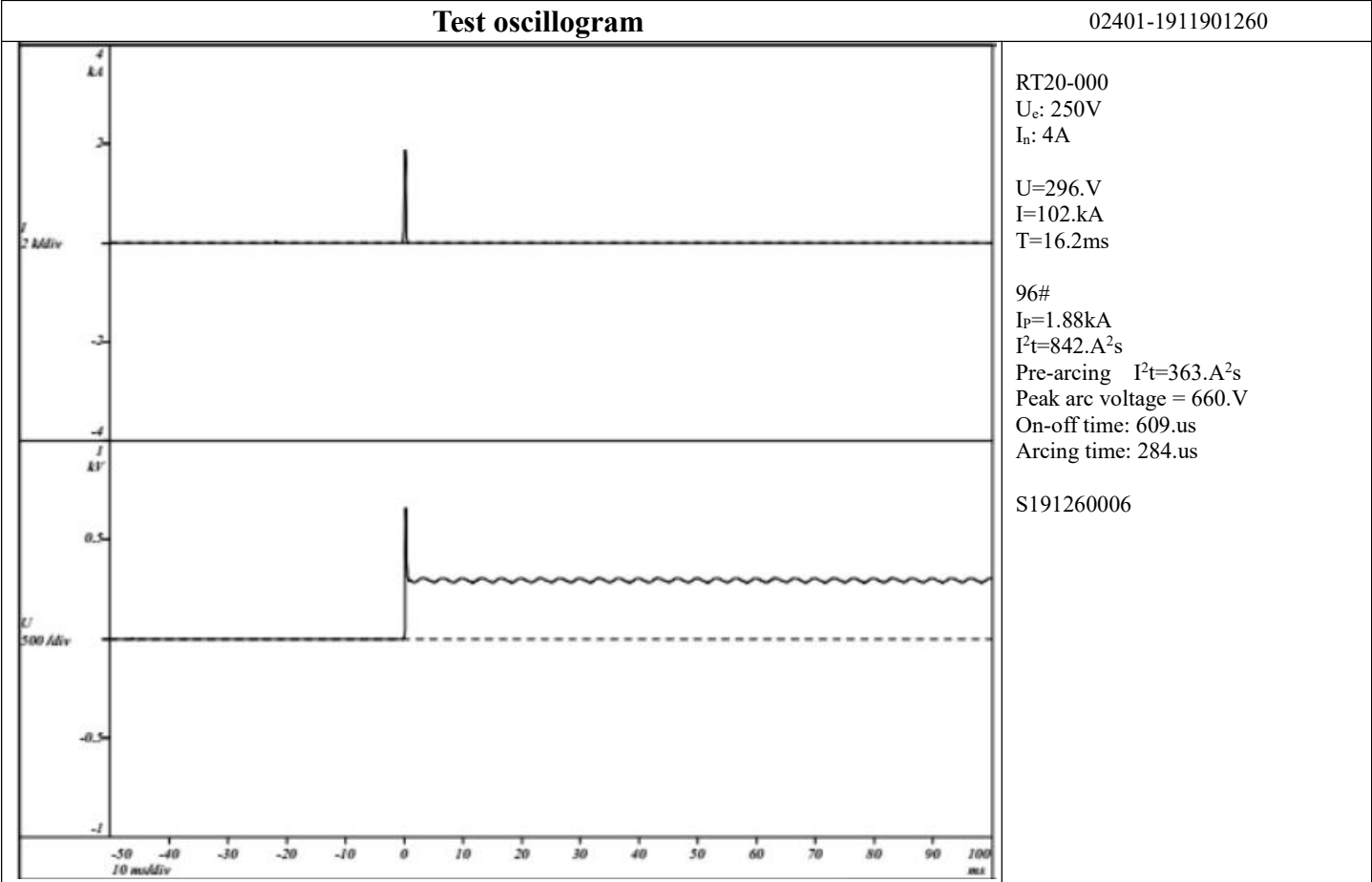


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## Instrument and Equipment List

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