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(2016)(Z)ZJY Zi No.0161



CNAS  
TESTING CNAS L0116

## China Compulsory Certification Report

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

Application No.: A2018CCC0302-3018469

Product Name: Fuse-disconnector


Model: HG30-32

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)



Application No.: A2018CCC0302-3018469 Sample Name: Fuse-disconnector  Product Name: HG30-32 Trademark:  Sample Quantity: 1 unit  Sample Source: Sent by Manufacturer: Sample Receipt Date: 2018-11-13 Completion Date: 2018-12-03	Principal: Ningbo Switchgear Manufacturing Co., Ltd. Address of the Principal: Changfeng Industrial Development Zone, Zhonggongmiao Street, Yinzhou District, Ningbo City, Zhejiang Province  Manufacturer: Ningbo Switchgear Manufacturing Co., Ltd. Manufacturer Address: Changfeng Industrial Development Zone, Zhonggongmiao Street, Yinzhou District, Ningbo City, Zhejiang Province  Manufacturing Enterprise: Ningbo Switchgear Manufacturing Co., Ltd. Address of the Manufacturing Enterprise: No. 76, Lane 238, Beihai Road, Jiangbei District, Ningbo City, Zhejiang Province		
Test Conclusion: Passed the inspection according to GB/T 14048.3-2017			
Descriptions of product models & specifications covered by this application unit and relevant information: HG30-32; Ui: 690V; Uimp: 6kV; Ue: AC380V; Ith: 32A; Ic: 32A; Iq: 20kA; Usage category: AC-20B; Number of Poles: 1P, 2P, 3P, 4P			
Tested by: He Ju	Signature: He Ju	Date: 2018-12-06	(Name and seal of testing organization) Special Seal for Inspection and Testing of Zhejiang Fangyuan Test Group Co., Ltd. (Seal) December 6, 2018
Reviewed by: Lu Linlin	Signature: Lu Linlin	Date: 2018-12-06	
Issued by: Wang Guozhong	Signature: Wang Guozhong	Date: 2018-12-06	
Notes:			
1) This application is a change application. Please see the table below for details of the changes.			
	Change Item	Before change	After change
1	Changes in product standards.	GB/T 14048.3-2008	<b>GB/T 14048.3-2017</b>
2	Change of address of principal and manufacturer	Changfeng Industrial Zone, Yinzhou District, Ningbo, Zhejiang Province	<b>Changfeng Industrial Development Zone, Zhonggongmiao Street, Yinzhou District, Ningbo City, Zhejiang Province</b>
3	Change of contact supplier name	Ninghai County Shenzhen Hongda Hardware Factory	<b>Ninghai County Hongda Hardware Manufacturing Co., Ltd.</b>
2) Original Certificate No.: 2003010302029490;			
3) The testing unit that issued the original 3C test report: Shanghai Testing & Inspection Institute for Electrical Equipment Co., Ltd. Low Voltage Electrical Equipment Testing Station, Shanghai Testing & Inspection Institute for Electrical Equipment Co., Ltd. Original 3C test report No.: C009-A2005CCC0302-251857, C009-A2010CCC0302-922013;			
4) This modified test report is valid only when used in conjunction with the original test report.			

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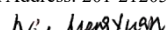
CATI Certificate No.: 20201100937000000097

Organization: E-TRANSTAR (Beijing) Information Technology Co., Ltd.

Tel: 010-60537024

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Organization Address: 201-212057, Zone 6, Pinggu Park, Zhongguancun Science and Technology Park, Pinggu District, Beijing

Signature:  Date of Translation: October 27, 2025

Composition of report

Report content	Yes/No	Page	No.
Cover	√	1	02401-1811902172
Homepage	√	1	02401-1811902172
Composition of report	√	1	02401-1811902172
Safe Type Test Report	√	13	02401-1811902172-S
Electromagnetic compatibility type test report	/	/	/
Back Cover	√	1	02401-1811902172

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 main components of the product:	Casing, operating handle, contacts, fuse, etc.
The mode of operation:	Manual operation
Installation method:	Installation of guide rails
Wiring method:	Screw connection
The following content is also included:	
1). Product model and agreed heating current Ith:	HG30-32, Ith: 32A
2). Rated working voltage Ue:	AC380V
3). Rated working current Ie:	32A
4) Number of Poles:	1P, 2P, 3P, 4P
5) Is the product suitable for isolation?	<input checked="" type="checkbox"/> Yes, <input type="checkbox"/> No
6). Provide drawings and numbers:	
General assembly drawing:	3NK2.500.012, 3NK2.502.012, 3NK2.504.006, 3NK2.505.006
7). Is the product equipped with a fuse?	<input checked="" type="checkbox"/> Yes, <input type="checkbox"/> No
Classification of fuse combination appliances:	<input type="checkbox"/> Single breakpoint, <input checked="" type="checkbox"/> Double breakpoint
Is the fuse blade connected to part of the contact?	<input checked="" type="checkbox"/> Yes, <input type="checkbox"/> No
8) Control mode of the operating mechanism (human-related operation, unrelated human-related operation, power-related operation, unrelated power operation):	
Human-related operation	

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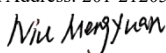
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## Sample description and explanation

### 2. Main technical parameters:

(1) Category of use:	AC-20B		
(2) Rated impulse withstand voltage U <sub>imp</sub> :	6KV		
(3) Rated insulation voltage U <sub>i</sub> :	380V		
(4) Rated short-time withstand current I <sub>ew</sub> :	/	Duration:	/
(5) Rated short-circuit making capacity I <sub>cm</sub> (peak):	/		
(6) Rated limiting short-circuit current: 20kA	Short circuit protection device:		RT14-20 10x38 32A
(7) Pollution level:	3		
(8) Casing protection grade:	/		
(9) Whether the product has electronic circuits:	<input type="checkbox"/> Yes, <input checked="" type="checkbox"/> No		
(10) Is the product a three-pole switch with single-pole operation?	<input type="checkbox"/> Yes, <input checked="" type="checkbox"/> No		
(11) Interval time between on-off operation cycles:	/		
(12) Control power supply voltage U <sub>s</sub> for power operation:	/		
(13) Terminal connection capacity: (It usually refers to the ability to connect to a hardware)			
Maximum wire cross-section and number of wires connected to the terminal at the same time:	6mm <sup>2</sup> (one)		
Minimum wire cross-section and number of wires connected to the terminal at the same time:	2.5mm <sup>2</sup> (one)		
Thread diameter or tightening torque:	M5		
(14) Auxiliary circuit:			
Types and pairs:	/		
Agreed heating current I <sub>th</sub> :	/		
Rated insulation voltage U <sub>i</sub> :	/		
Rated impulse withstand voltage U <sub>imp</sub> :	/		
Rated limiting short-circuit current for SCPD models:	/		
Rated operating current I <sub>e</sub> and operating voltage U <sub>e</sub> under the corresponding utilization category:	/		

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Sample description and explanation	
(15) Power-operated electrical appliances	
Rated insulation voltage (V):	/
Rated impulse withstand voltage (kV):	/
Rated control power supply voltage (V):	/
Current type (AC or DC):	/
Rated frequency (Hz):	/
(16) Undervoltage relay and trip device	
Rated insulation voltage (V):	/
Rated impulse withstand voltage (kV):	/
Rated control power supply voltage (V):	/
Current type (AC or DC):	/
Rated frequency (Hz):	/
(17) Shunt release	
Rated insulation voltage (V):	/
Rated impulse withstand voltage (kV):	/
Rated control power supply voltage (V):	/
Current type (AC or DC):	/
Rated frequency (Hz):	/
(18) Whether Appendix D for photovoltaic switches, isolators, disconnectors, and fused switchgear assemblies applies:	
	<input type="checkbox"/> Yes, <input checked="" type="checkbox"/> No
Usage category:	<input type="checkbox"/> DC-PV0, <input type="checkbox"/> DC-PV1, <input type="checkbox"/> DC-PV2
Suitable for indoor or outdoor use:	<input type="checkbox"/> Indoor, <input type="checkbox"/> Outdoor



## Sample description and explanation

### 3. Description of series and explanation of model:

#### 3.1. Products in this application unit:

a. Are the materials, coatings, and dimensions of current-carrying components the same? ■ Yes, □ No

Are the structures of the wiring terminals the same? ■ Yes, □ No

Are the fuse connections the same? ■ Yes, □ No

b. Are the contact size, material, structure and installation method the same? ■ Yes, □ No

c. Are the functional structure, materials and physical properties of the operating mechanism the same? ■ Yes, □ No

d. Are the contact closing and opening speeds the same? ■ Yes, □ No

e. Are the molding material and insulation material the same? ■ Yes, □ No

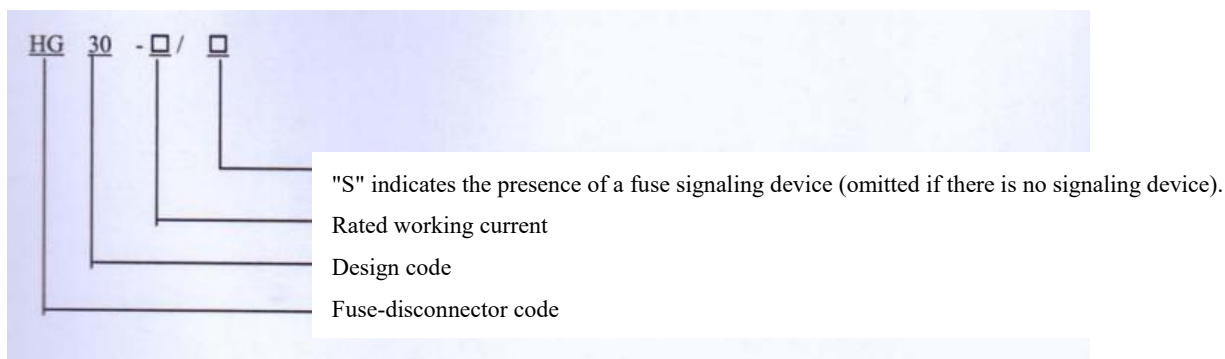
f. Are the arc extinguishing methods, materials and structures of the arc extinguishing devices the same? □ Yes, □ No \_\_\_\_\_ /

g. Are the operators the same? ■ Yes, □ No

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

The HG30-32 fuse-type isolator has a rated voltage of 380 V, a rated frequency of 50 Hz, and a rated current of 32 A. It is mainly used in lighting and power circuits as a power isolator and provides overload and short-circuit protection for the circuit.

#### 3.3. Explanation of the model:



Sample description and explanation

4. Special structure description:

/

5. Product certification:

Original Certificate No.: 2003010302029490; Date of first certification: January 22, 2003

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### Sample description and explanation

#### 6. Safety-critical components list:

S/N	Component/part name	Component/material name	Model specification/brand	Manufacturer (manufacturing plant)
1	Base (casing)	Flame-retardant reinforced polybutylene terephthalate (PBT) engineering plastic	Plastic FR-PBT 301-G30	Yinxian Yunlong Feida Machinery and Electrical Appliance Factory Beilun Boxin Plastic Electrical Appliance Factory
2	Contact (contact blade)	Pure copper version	Cold-rolled sheet T2Y2	Ninghai County Hongda Hardware Manufacturing Co., Ltd. Ningbo Switchgear Manufacturing Co., Ltd.
3	Contact spring (sheet, coil)	Carbon spring steel wire	Carbon spring steel wire 70	Yueqing Longxin Electrical Appliance Parts Factory Yinzhou Dongwu Xudong Mechanical and Electrical Accessories Factory
4	Arc shield	/	/	/
5	Fuse-element (if any)	Fuse-element	RT14 10x38 32A	Ningbo Switchgear Manufacturing Co., Ltd. Certificate No.: 2003010308029493
6	Insulating material operating handle	Flame-retardant reinforced polybutylene terephthalate (PBT) engineering plastic	Plastic FR-PBT 301-G30	Yinxian Yunlong Feida Machinery and Electrical Appliance Factory Beilun Boxin Plastic Electrical Appliance Factory

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.

Note 2: 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.

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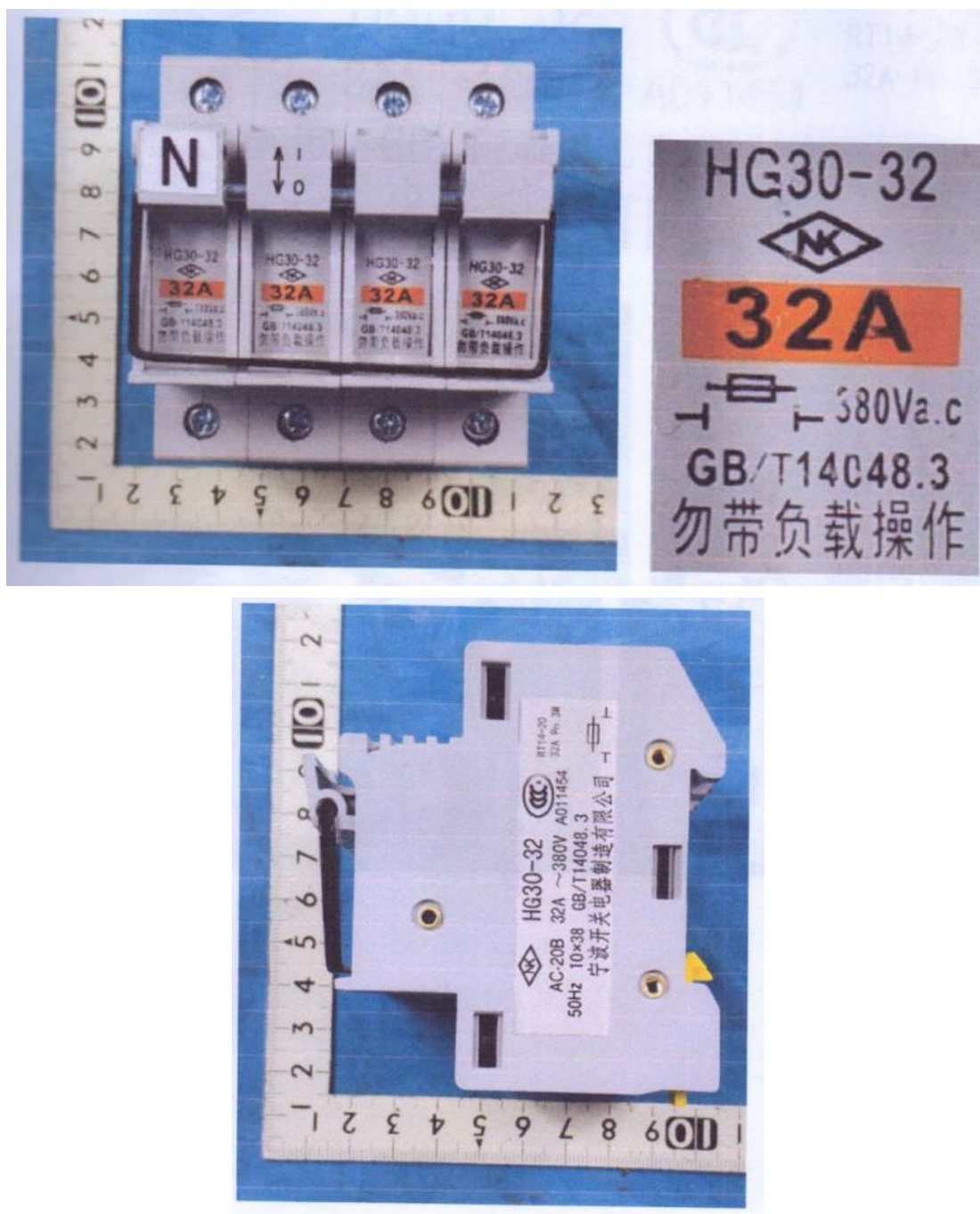
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### Sample Photo

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

HG30-32: 32A/4P



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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
I/1	Temperature Rise	8.3.3.1	See report for details C009-A2005CCC0302-251857 C009-A2010CCC0302-922013	
2	Dielectric property	8.3.3.2	I-1# HG30-32 32A/3P	P
3	Making and breaking capacity	8.3.3.3	Not applicable	
4	Verifying dielectric properties	8.3.3.4		
5	Leakage current	8.3.3.5	I-1# HG30-32 32A/3P	P
6	Verify temperature rise	8.3.3.6	See report for details C009-A2005CCC0302-251857 C009-A2010CCC0302-922013	
7	Strength of the actuator mechanism	9.3.3.7		
II/8	Operating performance	8.3.4.1	See report for details C009-A2005CCC0302-251857 C009-A2010CCC0302-922013	
9	Verifying dielectric properties	8.3.4.2		
10	Leakage current	8.3.4.3		
11	Verify temperature rise	8.3.4.4		
IV/12	Short-circuit withstand capability of fuse protection	8.3.6.2.1a	See report for details C009-A2005CCC0302-251857 C009-A2010CCC0302-922013	
13	Short-circuit making capacity of fuse protection	8.3.6.2.1b	Not applicable	
14	Verifying dielectric properties	8.3.6.3	See report for details C009-A2005CCC0302-251857 C009-A2010CCC0302-922013	
15	Leakage current	8.3.6.4		
16	Verify temperature rise	8.3.6.5		
V/17	Overload test	8.3.7.1	See report for details C009-A2005CCC0302-251857 C009-A2010CCC0302-922013	
18	Verifying dielectric properties	8.3.7.2		
19	Leakage current	8.3.7.3		
20	Verify temperature rise	8.3.7.4		
21	Mechanical properties of the terminal blocks	GB/T 14048.1 8.2.4	See report for details C009-A2005CCC0302-251857 C009-A2010CCC0302-922013	
22	Heat resistance	GB/T 14048.1 Annex F		
23	Abnormal heat and fire resistance test	GB/T 14048.1 8.2.1.1		
24	Electric clearance	GB/T 14048.1 7.1.4	I-1# HG30-32 32A/3P	P
25	Logo verification	5.2		P
	Blank below			

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Clause	Test Items and Test Requirements	Measurement or Observation Result				Determination
		I-1#				
8.3.3.2	<p>HG30-32 32A/3P</p> <p>Dielectric property Uimp: 6kV</p> <p>1. Impulse withstand voltage (1.2/50μs) (laboratory altitude 5 meters)</p> <p>Main circuit: 7.3kV±3%</p> <p>When in the disconnected position, between the input and output lines: 9.8kV±3%</p> <p>Control circuit and auxiliary circuit: /</p> <p>Number of tests 5 times each for positive and negative polarity</p> <p>Interval time: ≥1s</p> <p>Pressure part:</p> <p>When the contacts are in all normal operating positions, between all main circuit terminals connected together (including control and auxiliary circuits connected to the main circuit) and the casing or mounting plate;</p> <p>When the contacts are in all normal operating positions, between any main-circuit pole that is not carrying current from other poles and the other poles connected together and to the casing or mounting plate.</p> <p>Each control circuit and auxiliary circuit that is not connected to the main circuit in normal operation, between them and the following parts:</p> <p>-Main circuit</p> <p>-Other circuits:</p> <p>- Exposed conductor parts</p> <p>-Casing or mounting plate</p> <p>For electrical devices suitable for isolation, when the terminals on the power supply side of the main circuit are connected together and the terminals on the load side are connected together, the test voltage shall be applied between the power supply side and the load side when the device's contacts are in the isolation-open position.</p> <p>2. Power frequency withstand voltage:</p> <p>Main circuit: 1890V±3%V 50Hz</p> <p>Control circuit and auxiliary circuit: /</p> <p>Pressure time: 60s</p> <p>Pressure part:</p> <p>When the contacts are in all normal operating positions, between all main circuit terminals connected together (including control and auxiliary circuits connected to the main circuit) and the casing or mounting plate;</p> <p>When the contacts are in all normal operating positions, between any main-circuit pole that is not carrying current from other poles and the other poles connected together and to the casing or mounting plate.</p> <p>Each control circuit and auxiliary circuit that is not connected to the main circuit in normal operation, between them and the following parts:</p> <p>-Main circuit</p> <p>-Other circuits:</p> <p>- Exposed conductor parts</p> <p>-Casing or mounting plate</p> <p>3. Leakage current measurement</p> <p>Experimental voltage: 1.1Ue (V)</p> <p>Leakage current ≤0.5mA (between each pair of contacts in disconnected position)</p>	5 times each for positive and negative polarity 10 No breakdown or flashover  7.31kV  7.31kV  /  9.81kV  / 60  1.89x103V 50Hz Pass  1.89x103V 50Hz Pass  /  418  A B C N ≤1μA ≤1μA ≤1μA ≤1μA				P

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Clause	Test Items and Test Requirements	Measurement or Observation Result				Determination
		I-1#				
8.3.3.5	Leakage current					P
	Test voltage: 1.1Ue (V)	440				
	a) Isolators and disconnectors: Between the load and power terminals: ≤0.5mA	/				
	b) Fuse-isolator assemblies, fuse-disconnector assemblies, fuse-type isolators, and single-break-point fuse-type disconnectors: Between the load and power terminals≤0.5mA	/				
	c) Fuse-isolator assemblies, fuse-disconnector assemblies, fuse-type isolators, and double-break-point fuse-type disconnectors:	A	B	C	N	
	(i) Between the power terminals and the fuse-element: ≤0.5mA	<1μA	<1μA	<1μA	<1μA	
	(ii) Between the load terminals and the fuse-element: ≤0.5mA	<1μA	<1μA	<1μA	<1μA	
	(iii) Between the load and power terminals: ≤0.5mA	<1μA	<1μA	<1μA	<1μA	

Clause	Test Items and Test Requirements	Measurement or Observation Result	Determination
		I-1#	
GB/T 14048.1	HG30-32 32A/3P Electric clearance		P
	7.1.4 Between disconnected contacts of the same pole in disconnected position Electric clearance $\geq 5.5\text{mm}$	Minimum Phase A: 15.2	
5.2	Mark		P
5.2.1	Each appliance should be marked with the following information in a manner that is easily identifiable and durable:  The following information shall be marked on the appliance itself or on one or more nameplates attached to the appliance. The markings should be placed in a location that is clearly visible from the front after the appliance is installed according to the manufacturer's instructions.  Indication of open and closed positions Is it suitable for isolation?	Pass	
5.2.2	Additional notation for isolators The following should also be marked on the appliance, but need not be visible from the front after installation: Name or trademark of the manufacturers  Product model or serial number Utilization category and rated operating current (or rated power) at rated operating voltage Rated frequency or DC mark For fuse combination devices, the fuse characteristics, the maximum rated current and the maximum dissipated power of the fuse should be indicated GB/T 14048.3, If the manufacturer claims compliance with this part	Indication of open and closed positions  /   HG30-32 AC-20B 380V 32A 50Hz  RT14-20 32A 3W  GB/T 14048.3	
5.2.3	Protection grade of electrical casing The following terminals should be marked with identification marks The power supply terminals and load terminals, unless it does not matter which terminal the power is connected to. Neutral terminal, if applicable, indicated by the letter "N" Protective grounding terminal	/	
5.2.4	The following data should be provided in the manufacturer's relevant information Rated insulation voltage Rated impulse withstand voltage (for isolation appliances or appliances with specified rated impulse withstand voltage) Pollution level Rated duty cycle Rated short-time withstand current and duration Rated short-circuit making capacity Rated limiting short-circuit current	/	
		380V 6kV 3 / / / 20kA	

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## Instrument and Equipment List

[illegible]

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