

Shanghai Liangxin Electrical Co., Ltd.

NDU1 Product Specification

Product Name: Surge Protector

Product Model: NDU1-(10~65)kA

Date: 12/26/2018

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Revision Record					
Version	Revision Reason/Content	Implementation Date	Prepared by	Reviewed by	Approved by
0	First issuance	12/26/2018	Chen Bo	Huo Zhiqiang	Duan Hui

1. Applicable Scope and Purpose

The product is applicable for limiting the transient overvoltage and lightning current passing through in the low-voltage AC power system to avoid the circuit and equipment damage caused due to lightning electromagnetic pulse and other impacts.

2. Picture of the Product



3. Specification and Model Descriptions

ND	U	1	-	□	/	□	/	□	/	□
Nader	Surge Protector	Design SN	Maximum Discharge current Imax:		Maximum continuous working voltage		Numbers of poles		Remote communication:	S with remote communication function, blank without remote communication
Low-voltage electrical appliance			10kA、20kA 40kA、65kA		Uc: 255V 275V 320V,385V 440V, 550V		1P、1PN、2P 3P、3PN、4P			

4. Main Technical Parameters and Product Selection Table

	NDU1-10			NDU1-20			
Uc	275V	320V	385V	275V	320V	385V	440V
In	5kA			10kA			
Imax	10kA			20kA			
Up	1.2kV	1.2kV	1.35kV	1.5kV	1.5kV	1.5kV	1.8kV

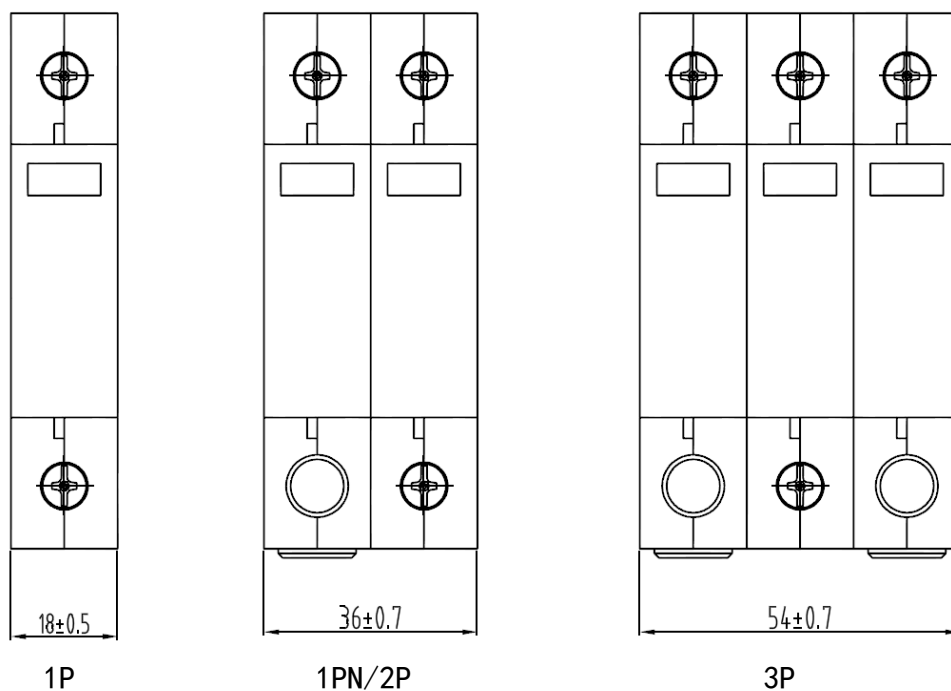
Number of poles	1P, 1PN, 2P, 3P, 3PN, 4P	1P, 1PN, 2P, 3P, 3PN, 4P
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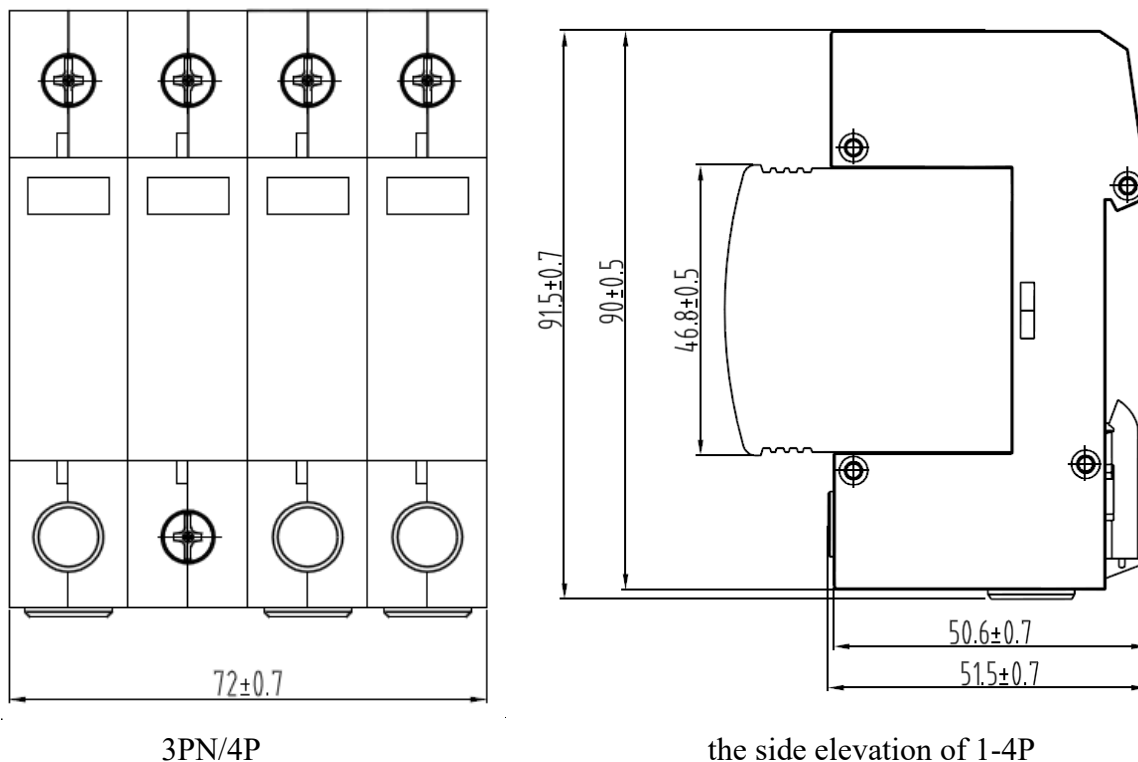
	NDU1-40					NDU1-65				
Uc	275V	320V	385V	440V	550V	275V	320V	385V	440V	550V
In	20kA					30kA				
Imax	40kA					65kA				
Up	1.5kV	1.5kV	1.8kV	2.2kV	2.8kV	1.5kV	1.8kV	2.0kV	2.5kV	3.0kV
Number of poles	1P, 1PN, 2P, 3P, 3PN, 4P					1P, 1PN, 2P, 3P, 3PN, 4P				

5. Normal Working Environment

- Operation frequency: 50/60Hz
- Ambient temperature: $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$
- Altitude: $\geq 2000\text{m}$
- Wiring voltage: \geq Maximum continuous working voltage U_c

6. Product Outline and Installation Dimensions





7. Installation Mode

It can be easily installed on the TH35mm×7.5 standard guide.

8. Packaging and Storage

○ Packaging requirements:

Maximum loaded quantity per box: 1P product: 12 sets/box, 144 sets/box; 1P+N and 2P products: 6 sets/box, 72 sets/box; 3P product: 4 sets/box, 48 sets/box; 3P+N and 4P products: 3 sets/box, 36 sets/box.

○ Product transportation and storage:

1) During transportation, the product should be free from snow and rain as well as collision and intense movement, and handled with care.

2) The product should be stored in a warehouse with the air ventilation and the relative humidity no more than 90% and the temperature between -40℃ and +70℃. No acidic alkaline or other corrosive gas exists in the ambient air in the warehouse. Under the conditions above, the storage period shall be no more than three years since the manufacturing date.

9. Precautions

- The SPD wiring must be reliably grounded to prevent the terminal burning due to the abnormal heat generation on the terminal.
- Under the energized operation state, do not touch the exposed portion of the uninsulated parts on the circuit breaker with bare hand;
- The contact electrodes have been handled when delivery. Do not plug or remove the module repeatedly or commission it randomly; the manufacturer shall not be responsible for any quality problem caused.
- In case of failure (display window highlighted in red), the module shall be replaced by the professional personnel. Any quality problem due to disassembly without permission will be the liability of the user.
- Descriptions of remote communication terminals: C: Public end, Nc: Normally closed, No: Normally opened, C: Public end