

Shanghai Liangxin Electrical Co., Ltd.

NDU1-I Product Specification

Product Name: Surge Protector

Product Model: NDU1-I

Date: 12/26/2018

| | | | |
|-------------|---------------------|------|-------------------|
| Prepared by | <u>Chen Bo</u> | Date | <u>12/26/2018</u> |
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1. Applicable Scope and Purpose

The NDU1-I surge protector is installed in the LPZ0B/LPZ1 area with lightning protection for protecting the direct lightning that isn't attenuated with the overhead line in the power distribution system with AC 50/60Hz and the rated working voltage of 220/380V.

2. Picture of the Product



3. Specification and Model Description

| | | | | | | | |
|----------------------------------|-----------------|----------|-------------------|---------------------------|---|------------------------------|--|
| ND | U | 1 | - I | / □ | / □ | / □ | / □ |
| Nader | Surge Protector | Surge SN | Class Type I Test | Impact current 15kA, 50kA | Maximum continuous working voltage 275V(50kA) 320V(15kA) 385V | Numbers of poles 1P、2P 3P、4P | Remote communication: S with remote communication function, blank without remote communication |
| Low-voltage electrical appliance | | | | | | | |

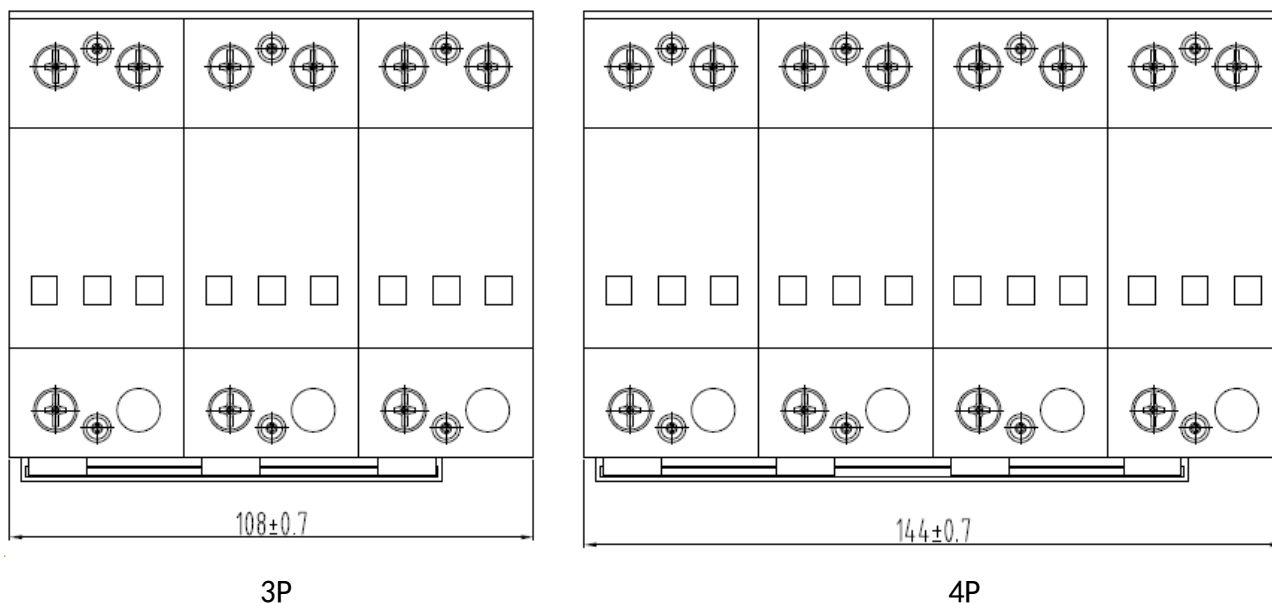
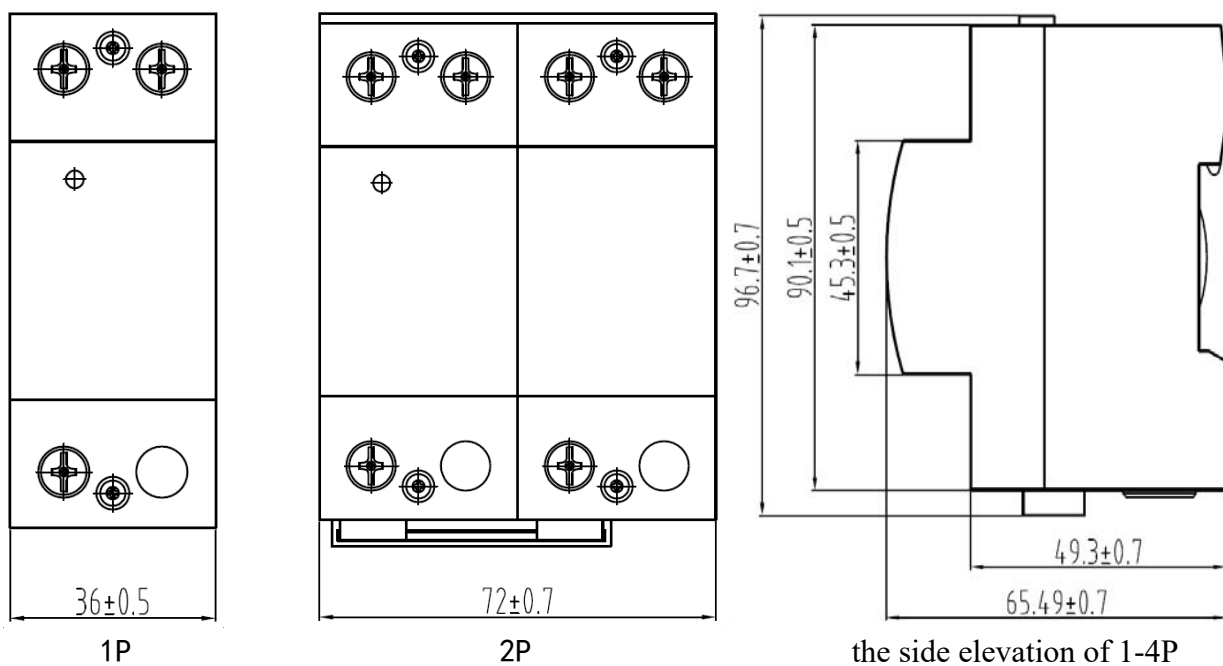
4. Main Technical Parameters and Product Selection Table

| | NDU1-I 15 | | NDU1-I 50 | |
|------------------|----------------|-------|----------------|-------|
| Uc | 320V | 385V | 275V | 385V |
| In | 50kA | | 50kA | |
| Iimp | 15kA | | 50kA | |
| Up | 2.2kV | 2.5kV | 2.5kV | 2.5kV |
| Numbers of poles | 1P, 2P, 3P, 4P | | 1P, 2P, 3P, 4P | |

5. Normal Working Environment

- Operating frequency: 50/60Hz.
- Ambient temperature: -40°C to $+70^{\circ}\text{C}$
- Altitude: $\leq 2000\text{m}$
- Wiring voltage: \leq Maximum continuous working voltage U_c
- Terminal screw: M6, Torque: $2.5\text{ N}\cdot\text{m}$;

6. Product Outline and Installation Dimensions



7. Installation Mode

Based on the modular structure, 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: 6 sets/box, 72 sets/box; 1P+N and 2P products: 3 sets/box, 36 sets/box; 3P product: 2 sets/box, 24 sets/box; 3P+N and 4P products: 1 set/box, 12 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 packaged products 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℃. They should be stored in a warehouse with no acidic, alkaline or other corrosive gases. Under the above conditions, the storage period shall be no more than 3 years since the manufacturing date.

9. Precautions

- The SPD wiring must be reliably grounded and each terminal must be reliably wired to prevent the terminal burning due to abnormal heat generation on the terminal.

- Under the energized operation state, do not touch the exposed portion of the uninsulated parts on the product with bare hand.

- The contact electrodes have been handled when delivered. Do not plug or remove the module repeatedly or debug it randomly; the manufacturer will not be responsible for any quality problem caused thereby.

- 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 borne by the user.

- Descriptions of remote communication terminals:

NDU1-I15 Nc: Normally closed, No: Normally opened, C: Public end

NDU1-I50: C: Public end, Nc: Normally closed, Blank: No wiring