

**Shanghai Liangxin Electrical Co., Ltd.**

# NDU1Z Product Specification

**Product Name: Surge Protector**

**Product Model: NDU1Z**

**Date: 12/26/2018**

Prepared by Chen Bo Date 12/26/2018

Reviewed by Huo Zhiqiang Date 12/26/2018

Approved by Duan Hui Date 12/26/2018

| Revision History |                      |               |             |              |             |
|------------------|----------------------|---------------|-------------|--------------|-------------|
| Version          | Revision Description | Revision Date | Prepared by | Reviewed by  | Approved by |
| 0                | First issuance       | 12/26/2018    | Chen Bo     | Huo Zhiqiang | Duan Hui    |
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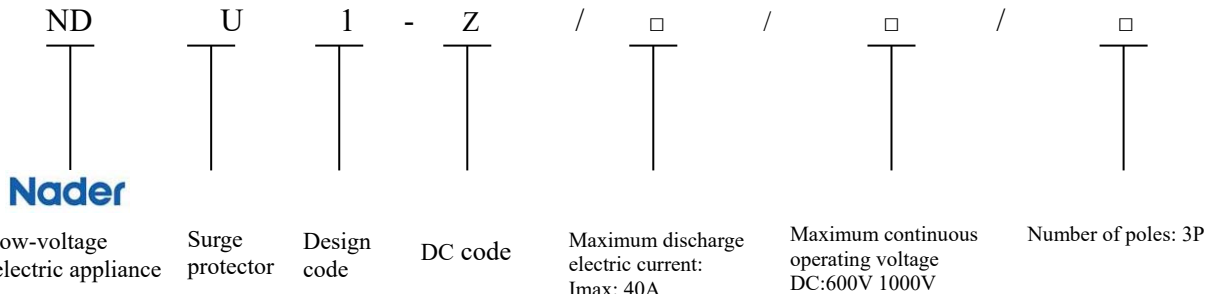
1、 Applicable Scope and Purpose

It is used for the DC power surge protector in photovoltaic system, which is safe and reliable with strong adaptability to the power grid. It provides protection between lines, line and ground (PE) for the DC power port so as to prevent damage caused by lightning induced overvoltage.

2、 Product Picture:



3、 Specification and Model Description:



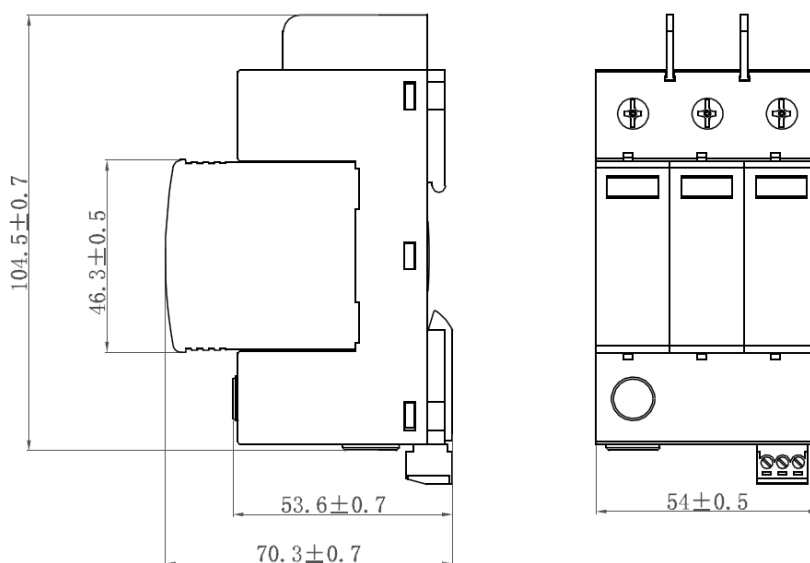
4、 Main Technical Parameters

|                 | NDU1Z-40 600                 | NDU1Z-40 1000 |
|-----------------|------------------------------|---------------|
| Rated Voltage   | 600V                         | 1000V         |
| In              | 20kA                         | 20kA          |
| Imax            | 40kA                         | 40kA          |
| Up              | ≤2.8kV(adjustable to 2.85kV) | 4.3kV         |
| Number of poles | 3P                           | 3P            |

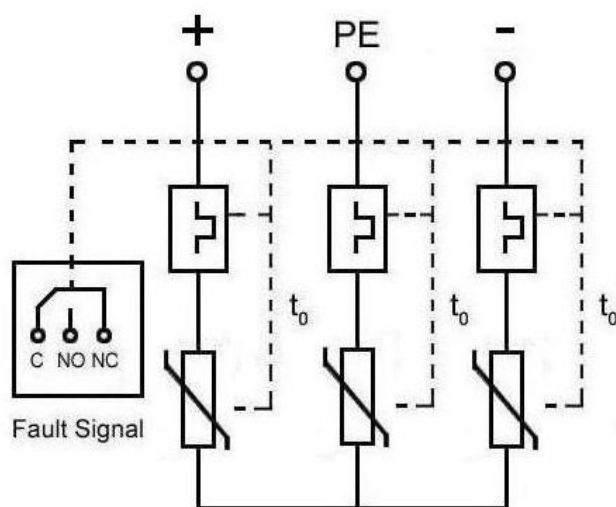
## 5. Normal Working Environment

- Operating frequency: 50/60Hz
- Ambient temperature:  $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$
- Altitude:  $\leq 2000\text{m}$
- Wiring voltage:  $\leq$  Maximum continuous operating voltage  $U_c$
- Standard torque: 2.0 N.m

## 6、 Product Outline and Installation Dimensions



## 8、 Circuit schematic



## 7、 Installation Mode

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

## 8、 Packaging and Storage

### ○ Packaging requirements:

Maximum loaded quantity: 4 sets/box, 48 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 above conditions, the storage period shall be no more than three years since the manufacturing date.

## 11. Precautions

1. The SOD wiring must be reliably grounded to prevent the terminal burning due to the abnormal heat generation on the terminal.
2. Under the energized operation state, do not touch the exposed portion of the uninsulated parts on the circuit breaker with bare hand;
3. 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.
- 4 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.