
# NJVA1 voltage and current protector

## 1. Main uses and scope of application

The NJVA1 voltage and current protector is a new type of intelligent protector. The product adopts a modular design, and can adjust the circuit overvoltage, undervoltage, and overcurrent. The protector can quickly cut off the circuit to avoid equipment damage caused by abnormal voltage or current connected to terminal appliances. When the voltage or current returns to normal, the circuit will be automatically connected within the time delay, so as to ensure the normal operation of the terminal under unattended conditions, and the voltage and current values can be displayed at the same time.

NJVA1 voltage and current protector is applicable to users or loads with AC voltage of 230V/400V, frequency of 50Hz, rated working current of 100A and below. It is used in AC power system, generator set, substation, factory, machine room and other fields. In AC power system, voltage and current protector is a kind of commonly used equipment protection device, which can avoid the damage to equipment caused by sudden power failure and undervoltage of power grid. In the machine room, factory and other places, the voltage and current protector can protect the equipment from the influence of the operator's wrong operation or abnormal power supply, and ensure the normal operation and safe production of the equipment.

## 2. Model and Meanings

NJVA - 1 □ □ □

- Connection : Top in bottom out/Bottom in top out
- Pole: 1P+N/3P+N
- Rated current:1～63A adjustable(63A)
  10～100A adjustable(100A)
- Design number
- Voltage and current protector

## 3. Normal use, installation and transportation, storage conditions

3.1 Conditions of use:

-Ambient temperature:-35℃～+70℃ .

-Atmospheric relative humidity in the surrounding air temperature of +40 ° C does not exceed 50%, at lower temperatures allowed to have a higher relative humidity, for example, in +20 ° C up to 90%, due to temperature changes occasionally produce condensation should take special measures.

- Altitude: the altitude of the installation site shall not exceed 3000 m.

-Pollution level: 2.

-Installation category: Ⅱ , Ⅲ .

3.2 Installation conditions: TH35-7.5 mounting rail shall be used for installation, and the inclination between the mounting surface and the vertical surface shall not exceed 5 °.

3.3 Transportation and storage conditions.

a.Temperature -35℃～70℃ .

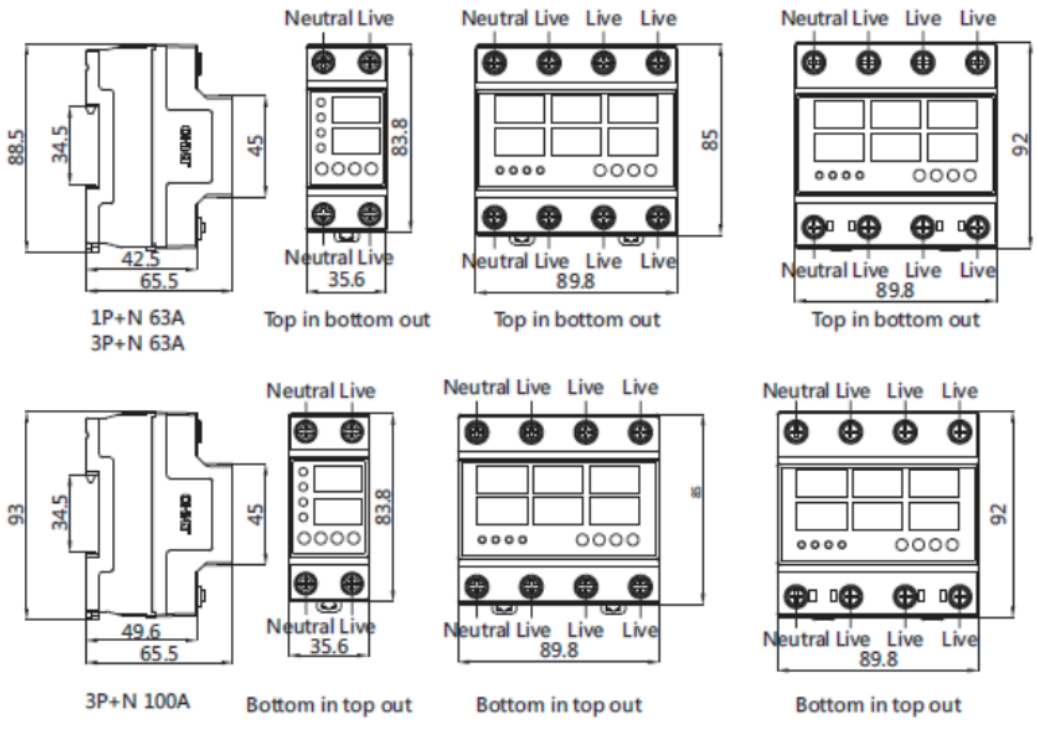
b. Relative humidity:≤95%.

c.Products should be transported gently, do not invert, to avoid strong collision.

## 4. Main technical parameters and performance

| Serialnumber | Performance | parameters |
|---|---|---|
| 1 | Product Name | Voltage and current protector |
| 2 | Number of product poles | IP+N、3P+N |
| 3 | rated operating voltage | AC230V、 AC400V |
| 4 | Standard DIN-rail mounting | 1A-63A, 10A-100A adjustable (63A or 100A by defauit) |
| 5 | rated operating frequency | 50Hz |
| 6 | undervoltage action cut-off walue | 140V-200V adjustable (default 170V) |
| 7 | Overvoltage action cut-off walue | 240V-300V adjustable (default 270V) |
| 8 | The walue of theovercurrent action cutoff | 63A: 1A-63A adjustable (63A by defaultk<br>100A: 10A-100A adjustable (default 100A) |
| 9 | The delay time of powersupply after energizing andde-energizing | 1-300s/5-300s adjustable (default 5s) |
| 10 | power-on delay time | 5.300s adjustable (default 5s) |
| 11 | Reset delay time afterovercurent protection | 5~300s adjustable (default 30s) |
| 12 | product overcurent delay time | 6s lif the overcurent time is greater than this time.it will be confirmed as overcument and protected) |
| 13 | mounting method | Standard DiN-rail mounting |

## 5. The shape and mounting dimensions



| NJVA- | 1 | 63A | 3P+N | Top in bottom out |
|---|---|---|---|---|
| **Self-recovery overvoltage and undervoltage protector** | **Design No.** | **Rated current** | **Poles** | **Mode of connection** |
| NJVA- | 1 | 63A<br>100A | 1P+N<br>3P+N | Top in bottom out<br>Bottom in top out |

| Ie(A) | Poles | Connection | Description | Code |
|---|---|---|---|---|
| 100 | 3P+N | feeding from top | NJVA1-100 3P+N top in bottom out | 508571 |
| 100 | 3P+N | feeding from bottom | NJVA1-100 3P+N bottom in top out | 508572 |
| 63 | 1P+N | feeding from top | NJVA1-63 1P+N top in bottom out | 508567 |
| 63 | 1P+N | feeding from bottom | NJVA1-63 1P+N bottom in top out | 508568 |
| 63 | 3P+N | feeding from top | NJVA1-63 3P+N top in bottom out | 508569 |
| 63 | 3P+N | feeding from bottom | NJVA1-63 3P+N bottom in top out | 508570 |