



## DATASHEET

**UZON SUNTEK - device for protection loss of neutral wire, over voltage, short circuit and overload**

**25A, 32A, 40A, 50A, 60A**



**UZON SUNTEK**- automatic voltage monitoring system for increased voltage surges. This system is used to protect electrical equipment, household, industrial and office equipment from accidents in the power grid.

At high voltage, all equipment fails. Most often, power supplies burn out, which dramatically increases the likelihood of a fire in the room.

Overvoltage is mainly due to the loss of neutral, when the supply voltage is divided unevenly between consumers or due to errors of the personnel servicing the power grid. The breakage or burnout of the zero conductors occurs:

- *when the electrical network is overloaded;*
- *in adverse weather conditions, when the voltage supply to objects is made by an overhead line, then a strong wind, a fallen tree can allow the phase wire and the neutral to contact, thereby ensuring that two phases enter the house for a while;*
- *in case of short circuits in the electrical network;*
- *with poor contact at the junction of zero conductors at substations;*
- *with old dilapidated wiring of the in-house power grid.*

**UZON SUNTEK** is a three-module automatic circuit breaker with DIN rail installation. The first two modules are designed as circuit breakers that are triggered by short-circuit currents. The third module has a built-in ASV control and activation unit. It is installed at the input of electrical energy. According to its functions, we can replace the introductory automatic switch with an object. With three-phase power supply, it is installed on socket groups or three pieces (one **UZON SUNTEK** for each phase).

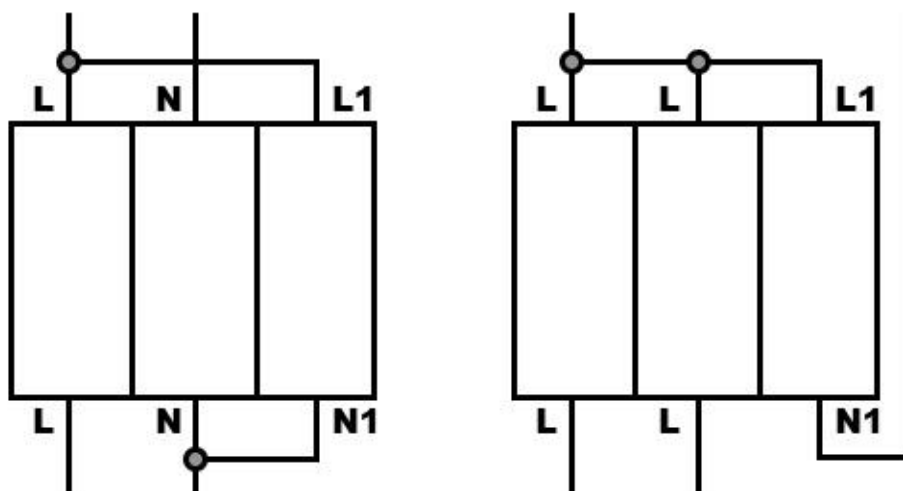
Available for currents from 25, 32, 40, 50, 60A.

## **TECHNICAL SPECIFICATIONS**

Reaction time .....	30 msec
Operating mode.....	around the clock
Shutdown threshold.....	285 Volts
Deviation from the shutdown threshold.....	+/- 2.5%
Weight.....	0.3 kg

## PREPARATION FOR WORK AND CONNECTION

The connection is made by a qualified electrician or staff servicing the power grid. Before connecting, make sure that the product has no external damage (cracks). The figure shows the options and ways to connect the device.



*L - phase L1 - phase for control N - neutral N1 - neutral for control*

The first two poles work as a circuit breaker and protect your object from short circuit and high voltage, they are marked L and N in the diagram. The third pole has a built-in voltage monitoring and evaluation circuit, on the circuit it is designated L1 and N1. The phase from the first pole is fed to it from above and zero from the second pole from below. According to this option, the device begins to monitor the voltage passing through it. If the shutdown threshold is exceeded, the device will fire and shut down. And also in case of voltage on the neutral - **UZON SUNTEK** will turn off.

## SECURITY MEASURES

- make the connection with a wire with good insulation.
- perform all connection work when the mains voltage is switched off.

## THE PRINCIPLE OF OPERATION OF THE DEVICE UZON SUNTEK

The device is designed for round-the-clock operation. During the entire operation time, the voltage is monitored at the phase to which the device is connected. At the moment when the voltage level reaches a threshold value of 285V or with a deviation of 2.5%, or a voltage appears on the zero wire, the device is triggered and the machine switches off to the off state. The device is switched on again manually. If the input voltage level is less than the threshold value at the time of switching on, the device will turn on. Otherwise, the device will be turned off again. If there is a short circuit or overload in the network, then **UZON SUNTEK** works on the same principle - mechanical disconnection.

## WARRANTY OBLIGATIONS

The warranty period is 12 months from the date of sale.

If the device fails due to incorrect connection, if there is no date of sale mark in the device passport or if there is external mechanical damage - claims for warranty service are not accepted! The seller and the manufacturer are not responsible for faulty equipment.

Date of sale \_\_\_\_\_

Seller's signature \_\_\_\_\_

***You can express your wishes on the quality of products on the website [www.electrosheriff.com](http://www.electrosheriff.com)***