

**Single-channel unit  
for short circuit protection**

**PRT1**

**Data sheet**

**Device identification number**

## 1. General Information

PRT1 (hereinafter referred to as the device) is a single-channel electronic current limiter. When the current threshold is exceeded (e.g. a short circuit) in a circuit of external devices (a keyboard, actuation devices) the device disconnects this circuit from the power supply but leaves the power in other circuits. The device automatically re-energise devices when the current falls below the specified threshold (see section 4).

## 2. Manufacturer

195248,  
Energetikov avenue, building 30, block 8,  
St Petersburg, Russia  
Tel.: +7 911 795 02 02  
[www.ritm.ru/en](http://www.ritm.ru/en)    [world@ritm.ru](mailto:world@ritm.ru)

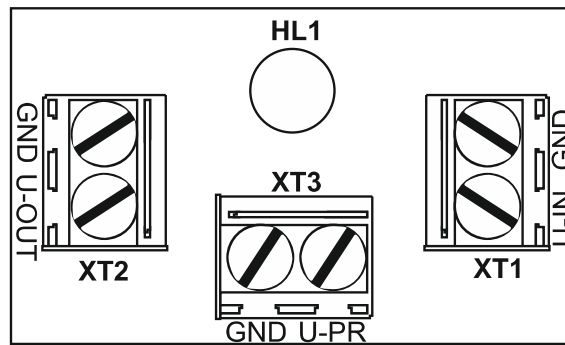
## 3. Package Contents

Single-channel protection unit "PRT1"	1 pc
Data sheet	1 pc
Package	1 pc

## 4. Technical Specifications

Specification	Value
Input voltage U-IN (XT1), V	12±2
Total current rating for circuit U-OUT (XT2), A	Max 3
Protection actuating current in circuit of external devices U-PR (XT3), A	0.6±0.1
Size, mm	40×20
Weight, g	20
Environment operating temperature range, °C	-40...+50

## 5. Designation of Elements



Connector and element diagram

<b>XT1</b>	Input	U-IN (+)
		GND (-)
<b>XT2</b>	Output for panel connection	U-OUT (+)
		GND (-)
<b>XT3</b>	Output for connection of actuation devices	U-PR (+)
		GND (-)
<b>HL1</b>	LED	If the LED is on the protection is turned on due to an overload in the XT3 circuit. If the LED is off the devices receive the power or there is no external power at the input XT1. LED blinking indicates the circuit load check performing by the device to resume the power supply.

## 6. Connection and Arrangement

Connect the device according to the connector diagram and the table (section 5).

Do not place the device close to high temperature sources.

To install the device choose the appropriate location most protected against atmospheric fallouts, dirt, process fluids, physical impact.

Installation of the device should be performed with circuit power off.

## 7. Maintenance and Safety Measures

At least once per year check the integrity of leads and cables, connection locations, and fastening security.

All installation and maintenance activities applied to the device should be performed by duly qualified personnel.

## 8. Transportation and Storage

The device should be properly packed and transported in roofed vehicles. Storage premises should be free of current-conducting dust, acid and alkaline fumes, corrosive gases and gases harmful to insulation.

## 9. Manufacturer's Warranties

The manufacturer guarantees that the device complies to requirements of the technical specifications provided to the client, ensures compliances to conditions of transportation, storage, installation and operation.

Although **the warranty period** is 12 months from the commissioning date, it may not exceed 18 months from the production date.

The **warranty storage period** is 6 months from the production date.

The manufacturer reserves the right for modification of the device in any way that does not degrade its functional characteristics without prior notice.

## 10. Information on Claims

In case of a device failure or defect during the warranty period, please fill in a malfunction report specifying the dates of issue and commissioning of the device and nature of the defect and submit it to the manufacturer.