

## PURPOSE

Thyristor speed regulator RS, further in the text "regulator", is designed for stepless speed adjustment of the fan.

## DELIVERY SET

Delivery set includes:

- regulator - 1 pce;
- spare fuse - 1 pce;
- data sheet - 1 pce;
- screw and dowels - 2 sets (external mounting);  
- 4 sets (internal mounting);
- packing box - 1 pce.

## SPECIFICATIONS

Input voltage	- 220-240V / 50Hz;			
Output voltage	- 220-240V / 50Hz;			
Type of the unit	RS-1	RS-1,5	RS-2	RS-2,5
Output capacity, VA	230	345	460	575
Load current, A	1	1,5	2	2,5
Overall dimensions	- 162x80x70mm;			
Weight	- 300g			

By type of protection against electric shock the regulator refers to devices of Insulation class II.

Degree of protection secured by insulation for external mounting is IP30.

Degree of protection secured by insulation for internal mounting is IP44.

Working conditions of the regulator are from 0°C to +40°C at relative humidity not more than 75%.

Type of climatic version of the regulators is UHL 4.2 in accordance with GOST 15150-69.



Warning

Do not connect devices of less than 50W capacity when using regulators RS-1.5, RS-2, RS-2.5.

## RS-X X

Mount options:

N - external

V - internal

Peak current, A:

1; 1.5; 2; 2.5

Type of unit:

RS - speed regulator

**Example of identification:**

RS-1 N - speed regulator with peak current 1A, used for external mounting.

Only qualified personnel that have the right to work independently with electrical units up to 1000V and learnt this data sheet shall perform maintenance and installation.

Input circuit is under the network potential.

Mounting and connection should be made on disconnected network.

- operation of the regulator with mechanical damages of the case and connecting wires;
- ingress of moisture and splashes to the case of the regulator;
- shutting the ventilating holes in the case;
- installing the regulator in the proximity of heating devices;
- presence of explosive or corrosive admixtures in the ambient air.

REFERENCE SCHEME

SAFETY REQUIREMENTS



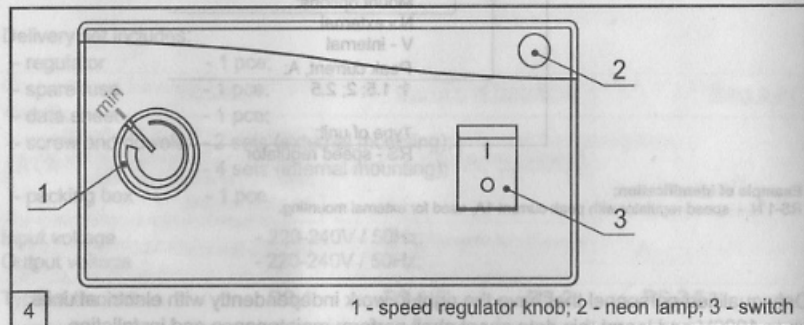
Warning



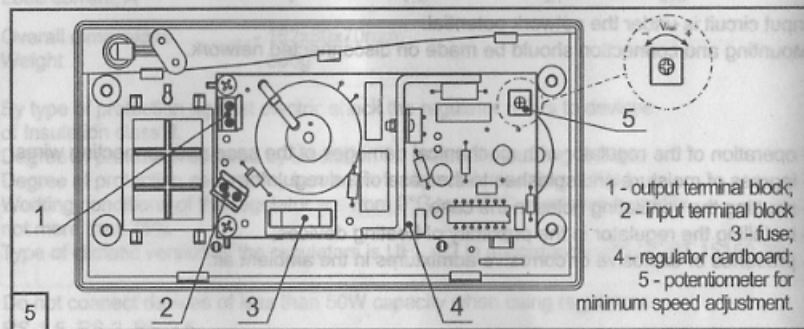
Prohibited

DESCRIPTION  
AND STRUCTURE

Front panel of the regulator is shown in fig.4.  
Position of the regulator knob corresponds to the speed of the fan.



Internal structure of the regulator is shown in fig.5.



It is necessary to install minimum fan speed with the potentiometer 5 (fig.5), when the fan speed knob 1 (fig.4) is set to the minimum position.

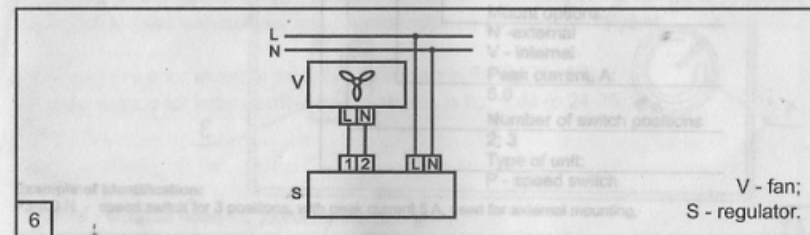
Depending on the type of regulator, external and internal mounting of the device is possible. The regulator is then fixed with screws and dowels included into the delivery set. Mount sequence for external mounting is shown in fig. A-F (p.23). Mount sequence for internal mounting is shown in fig. G-M (p.24-25).

Connection of the regulator to the power network is made according to the connecting plan (fig.6).

Lead-in of supply voltage should be done via an automatic switch with clearance between the dead contacts not less than 3mm built-in the fixed wiring.

For connecting it is necessary to:

- remove the decorative plug and bottom (fig. A, B);
- lay out the wires through the holes in the regulator case;
- strip the wire ends for 7-8mm;
- connect the wires to the terminal boxes 1, 2 (fig.5) according to the connecting plan (fig.6);
- put back the base and decorative plug.

MOUNTING AND  
PREPARATION  
FOR OPERATIONCONNECTION  
TO THE POWER  
NETWORK