Connection diagram

**RE 1,5  RE 3  RE 5  RE 7**

Relay connection: There is always 230V between ~ and N when the transformer knob is in one of the positions 1-5.

**RTRE 1,5  RTRE 3  RTRE 5**

Relay connection: There is always 230V between ~ and N when the transformer knob is in one of the positions 1-5. If the motor protection is not in use, Tk shall be looped together.

**RTRE 7  RTRE 12**

**REU 1,5  REU 3  REU 5  REU 7**

Attention! Switching contact must always be connected.
Operating Instructions
5-step controller for 1-phase fan motor
RE1,5 3 5 7. RTRE1,5 3 5 7 12. REU1,5 3 5 7.

Contents:
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1. Safety Information
1.1. Mounting and electrical installation may only be carried out by a qualified electrician. Instructions supplied by the manufacturer or dealer must be followed in order for the product warranty to be effective.
1.2. The mains voltage must be disconnected during all work with the cover removed. Otherwise, there is a risk of electric shock.
1.3. The product must not be used with equipment other than that specified.
1.4. The total output of the connected fan motors must not exceed the maximum load for the controller.

2. Transport, storage
2.1. The product is suitably packed at the factory for the agreed mode of transport.
2.2. Take care to avoid damage to the packaging or controller when unpacking.
2.3. The original packaging must be used at all times during storage.
2.4. Avoid exposure of the controller to extreme heat or cold.

3. General description
3.1. The controller is intended for the speed control of 1-phase fans within voltage band II.
3.2. Adjustment is by means of a switch that selects different voltage steps to the fan.
3.3. An illuminated warning lamp indicates that the supply voltage to the fan is not interrupted at all terminals.

4. Technical data
Supply voltage: 230V 50-60 Hz
Output voltage: 80, 105, 130, 160, 230 V
Enclosure class: IP54
Ambient temperature: 50°C
Manufacturing standard: EN 61558-1/2-13

4.1. One terminal of the output circuit of the controller is protected by an automatic current limiter capable of external resetting.
4.2. With the switch in position 0, the controller is disconnected at all terminals (not REU1,5). Relay connection blocks are also dead in this position.
4.3. RTRE models are provided with a motor protector. The protector can be reset by interrupting the mains voltage for 10 seconds. RTRE also includes a room thermostat control function, for which the terminals are connected at the time of delivery. N.B. The indicator lamp will illuminate to indicate a tripped motor protector and interrupted room temperature circuit, because these only interrupt the voltage supply to the fan at a single terminal.

4.4. The switches of the REU1,5 interrupt the voltage supply at only a single terminal, and the indicator lamp will thus illuminate with the switches in position 0. A circuit breaker for disconnecting all terminals must be installed ahead of the REU1,5 controller.

5. Installation, mounting
5.1. Wall mounting with three screws.
5.2. Note the maximum ambient temperature for the controller.
5.3. The cover of the controller is opened by means of a captive screw.
5.4. Two cable ducts are provided for a maximum cable diameter of 13 mm.
5.5. The distribution box should be protected with a 10A fuse for installation using 1,5 mm² conductors, and with a 16A fuse for 2,5mm² conductors.
5.6. Max. load relay connection 7 A resistive / inductive.

6. Maintenance, service
6.1. The controller is essentially maintenance-free. If the controller has been accidentally exposed to abnormal levels of liquid, dust or physical damage, its function and safety must be checked before further operation.
6.2. Make sure that the terminal blocks are fully tightened.