

# SMALL COMPACT THERMOSTAT

## STO 011 / STS 011



- > Thumbwheel setting dial
- > Small hysteresis
- > High switching capacity

- > Anti frost assurance
- > Optimized housing for better air flow

The mechanical thermostat is a two state regulator with small hysteresis. The setting wheel has an anti frost assurance. The housing ensures an optimized air circulation around the bimetal.

**STO 011:** Thermostat (NC); contact breaker for regulating heaters. The contact opens when temperature is rising.

**STS 011:** Thermostat (NO); contact maker for regulating of filter fans and heat exchangers or for switching signal devices when temperature limit has been exceeded. The contact closes when temperature is rising.



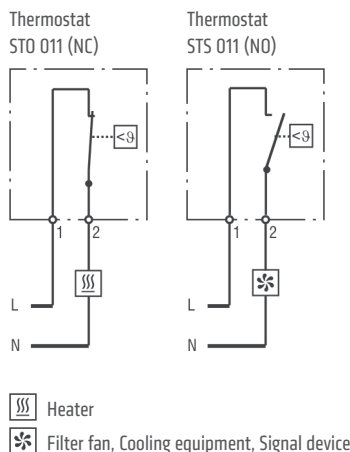
### TECHNICAL DATA

|                               |                                                                                                            |
|-------------------------------|------------------------------------------------------------------------------------------------------------|
| Switch temperature difference | 4K ( $\pm 3K$ tolerance)                                                                                   |
| Sensor element                | thermostatic bimetal                                                                                       |
| Contact type                  | snap-action contact                                                                                        |
| Service life                  | > 100,000 cycles                                                                                           |
| Max. switching capacity       | 250VAC, 10 (2) A / 120VAC, 15 (2) A<br>DC 30W at 24VDC to 72VDC                                            |
| Max. inrush current           | AC 16A for 10 sec.                                                                                         |
| Connection                    | 2-pole terminal, clamping torque 1Nm max.:<br>rigid/stranded <sup>1</sup> wire 2.5mm <sup>2</sup> (AWG 14) |
| Mounting                      | clip for 35mm DIN rail, EN 60715                                                                           |
| Casing                        | plastic according to UL94V-0, light grey                                                                   |
| Dimensions                    | 70 x 33 x 42mm                                                                                             |
| Weight                        | approx. 50g                                                                                                |
| Fitting position              | variable                                                                                                   |
| Operating/Storage temperature | -45 to +80°C (-49 to +176°F)                                                                               |
| Operating/Storage humidity    | max. 90% RH (non-condensing)                                                                               |
| Protection type               | IP20                                                                                                       |
| Approvals                     | VDE, UL File No. E164102, EAC                                                                              |



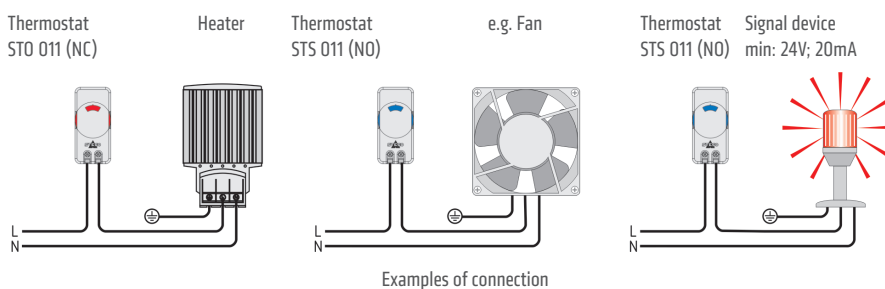
The anti frost assurance is a symbol on the setting scale of the NC thermostat (STO 011) at +11°C. This setting assures closing of the switching contact before 0°C.

### Connection diagrams



<sup>1</sup> When connecting with stranded wires, wire end ferrules must be used.

**Important note:** The contact system of the regulator is subjected to environmental influences, thus the contact resistance may change. This can lead to a voltage drop and/or self-heating of the contacts.



| Setting range | Art. No. Contact breaker (NC) | Art. No. Contact maker (NO) |
|---------------|-------------------------------|-----------------------------|
| 0 to +60°C    | 01115.0-00                    | 01116.0-00                  |
| +32 to +140°F | 01115.9-00                    | 01116.9-00                  |