# Fire and smoke spring return damper actuator, 20 Nm

# ST20

## Description

Damper actuator serie ST20 to operate and position air dampers in HVAC systems.

- For air dampers up to approx. 4 $m^2$
- Nominal voltage 24 V AC/DC and 100...240 V AC
- Control: 2-point, on-off
- Caracteristics: shaft dimensions ☐12/12 mm square, minimum shaft length 90 mm, anti-rotation bracket provided for stability, selectable direction of rotation, 2 not adjustable SPDT auxiliary switches, 1 m cable connection, thermal duct sensor included.



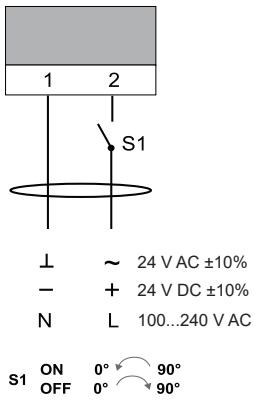
## Technical features

| Actuator model | | ST20AT | ST20BT |
|---|---|---|---|
| **Damper area** | $m^2$ | 4 | |
| **Nominal torque** | Nm | 20 | |
| **Power supply** | V | 24 AC/DC | 100...240 AC |
| **Frequency** | Hz | 50/60 | |
| **Power consumption** | | | |
| **- in operation** | W | 8 | |
| **- at rest** | W | 2,5 | |
| **- for wire sizing** | VA | 7,0 | |
| **Running time for motor** | s | <180 | |
| **Running time for spring** | s | < 30 | |
| **Sound power level** | db (A) | <45 | |
| **Control signal** | | 2 point, on-off | |
| **Auxiliary switch rating** | | 3 (1,5) A, AC 230 V | |
| **Life cycle** | cycles | 60.000 | |
| **Rotation angle** | | | |
| **- operating** | | 90° (95° mechanical) | |
| **- limitation** | | 5-85° (steps of 5°) | |
| **Thermal temperature trip** | | > 72° | |
| **Protection class** | | III | II |
| **Protection degree** | | IP54 | |
| **Working temperature °C** | | -20...+50° C | |
| **Working humidity RH** | | 5...95% RH, non-condensating | |
| **Storage temperature range** | | -30...+80° C | |
| **Maintenance** | | free | |
| **Weight** | g | <2600 | |
| **Standards** | | CE-conformity, RoHs | |

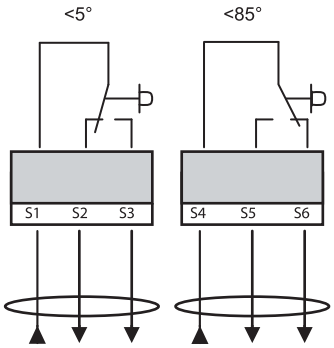
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## Electrical wirings

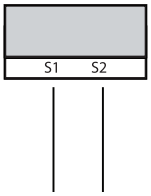
Wiring diagram




Auxiliary switches

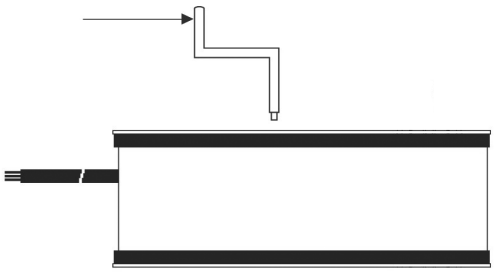



Thermal sensor




## Setting

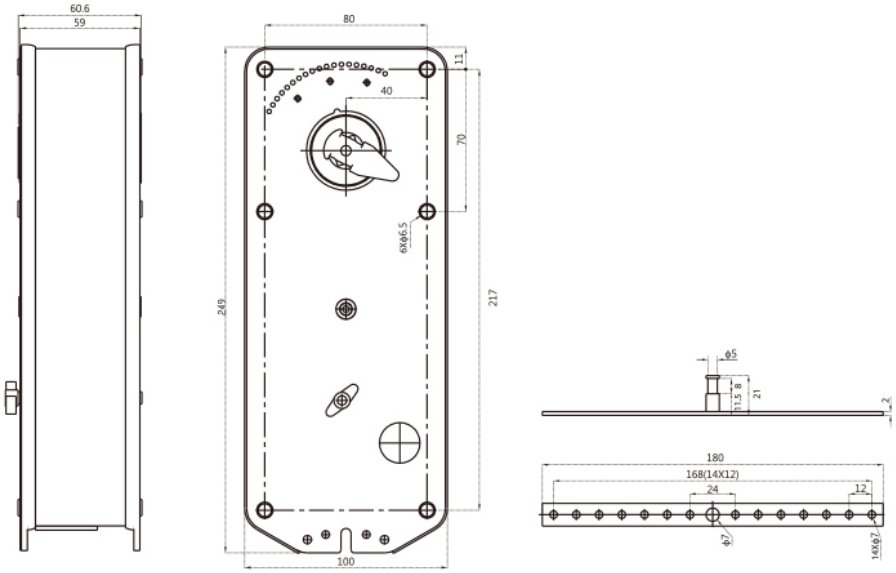
Manual override



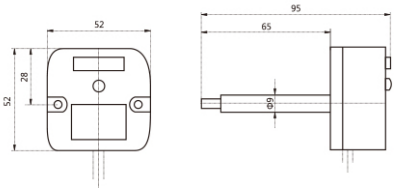


Use the dedicated key supplied
for manual lock-unlock operation.
Do not use a screwdriver.

## Dimensions (mm)




Thermal sensor




The thermal sensor controls the temperature in two areas: room and duct. The damper actuator will open when the temperature reaches 72°C in one of the two zones. There is a test button on the sensor.

The contents are subject to revision or change without notice.