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THERMOSTAT - STO 011/STS 011

STO, STS

01115.0-00
STO 011 Thermostat, 0…60°C, normally closed

- Thumbwheel setting dial
- Small hysteresis
- High switching capacity
- Anti frost assurance
- Optimized housing for better air flow

PRODUCT DESCRIPTION

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

GENERAL DATA

Control range temperature from	0 °C
Control range temperature to	60 °C
Tolerance switch off	±3K
Tolerance for switch on	±3K
Hysteresis temperature	4K
Mounting	DIN-rail 35mm, quick mount

RATED OPERATING CONDITIONS

Inrush max	16 A
Breaking capacity	250 VAC, 10 (2) A / 120 VAC, 15 (2) A. DC: 30W @ 24 VDC, up to 72 VDC
Contact resistance	<10 mΩ

Electrical lifetime	> 100 000 operations
Connection type	2-pole rigid 2,5 mm² (AWG 14) or stranded 1,5 mm² (AWG 16). Torque 0,8 Nm.
Humidity	<90 % RH (non-condensing)
Operational temperature	-45°C ... +80°C
Storage temperature	-45°C ... +80°C
Life span	>1 000 000 operations

DIMENSIONS

Height	70 mm
Width	33 mm
Depth	42 mm
Weight	0.05 kg
Material plastic housing	Plastic

SAFETY & APPROVALS

Plastic cover	Light grey plastic, UL94 V-0
IP class	IP20
Approvals	CE, cULus, EAC, RoHS, UL E164102, VDE
Country of origin	Germany

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. With this setting hysteresis and tolerance are considered.