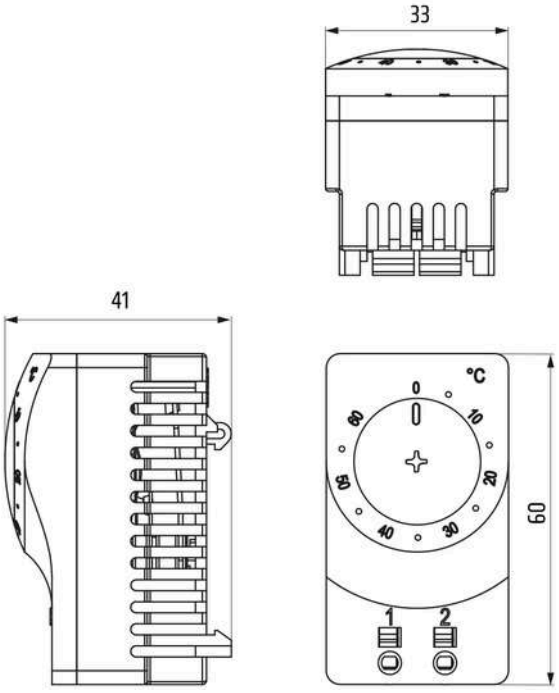
THERMOSTAT SWITCH (NC)

KTO 111



The mechanical NC thermostat opens when the temperature rises and is used to control heaters or to switch signal transmitters when the temperature under-shoots. The use of push-in terminals prevents the supply lines from coming loose.

- Fixed supply lines thanks to push-in terminals
- Time saving thanks to tool-free connection
- Large adjustment wheel enables convenient adjustment
- Optimised air inlets
- Can be used at altitudes of up to 5000 metres



OVERVIEW TECHNICAL DATA

Device name	Thermostat switch (NC)
Device type	Thermostats
Series	KTO 111
Contact type	Snap-action contact
Sensor	Thermostatic bimetal
Protection type	IP20
Casing	Plastic to UL94 V-0, light grey

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TECHNICAL DATASHEET

AC/DC	AC DC
Operating voltage tolerance maximum	AC 250 V (VDE), AC 120 V (UL) V
Inrush current maximum	16 A
Inrush current duration	10 s
Reference voltage ohmic maximum	250 VAC
Reference voltage 2 ohmic maximum	120 VAC
Switching current inductive	2 A
Reference voltage inductive maximum	250 VAC
Reference voltage 2 maximum	120 VAC
Switching current dc ohmic	1 A
Reference voltage dc ohmic maximum	30 VDC
Minimal switching capacity	0,48 W
Reference voltage minimum	24 V
Switching current	20 mA
Service life	>100000 cycles
Switching differential	7 K
Switching differential tolerance	± 4 K
Operating temperature	-45 °C - 80 °C
Operating humidity	≤90 % RH
Storage humidity	≤90 % RH
Storage temperature	-45 °C - 80 °C
Connection	2 push-in terminals Rigid wire cable 2.5 mm² (AWG 14) Stranded wire 1.5 mm² (AWG 16)
Design	Contact breaker (NC)
Mounting	Clip for 35 mm DIN rail, EN 60715
Height	60 mm
Width	33 mm
Depth	41 mm
Weight	40 g
Note	Overvoltage category: II: up to 5000 m III: up to 2000 m. The controller's contact system is exposed to the effects of the environment, which can change the contact resistance. This can lead to a voltage drop and/or self-heating of the contacts. Stripped length of rigid wire cable: 8 to 12 mm. Wire end ferrules (square or trapezoidal crimped) must be used for connections with stranded wires. Length of wire end ferrule: 8 mm or 12 mm. The height of the current has an influence on the tolerance accuracy, values specified: Switching resistive load (switching inductive load).

PRODUCT VARIANTS

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TECHNICAL DATASHEET

Article number	Setting range	Switching capacity	Switching current ohmic	CCC
11100.0-00	0 °C - 60 °C	AC 250 V: 10 (2) A AC 120 V: 15 (2) A DC 24-72V: 30 W	10 A	CQC
11100.0-02	20 °C - 80 °C	AC 250 V: 3 (2) A AC 120 V: 3 (2) A DC 24-72V: 30 W	3 A	CQC
11100.0-01	-10 °C - 50 °C	AC 250 V: 10 (2) A AC 120 V: 15 (2) A DC 24-72V: 30 W	10 A	
11100.9-00	32 °F - 140 °F	AC 250 V: 10 (2) A AC 120 V: 15 (2) A DC 24-72V: 30 W	10 A	CQC
11100.9-01	14 °F - 122 °F	AC 250 V: 10 (2) A AC 120 V: 15 (2) A DC 24-72V: 30 W	10 A	

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