ELECTRONIC THERMOSTAT

DCT 010 | 01011.0-41



Electronic thermostat with integrated switch module for controlling DC devices in enclosures and casings. Switches all common loads in enclosure applications: Heating, fans, signal transmitters, etc. Normally open versions (NO) in two versions with a wide temperature setting range. Normally closed versions (NC) with secondary switch function: 65 % RH fixed setting.

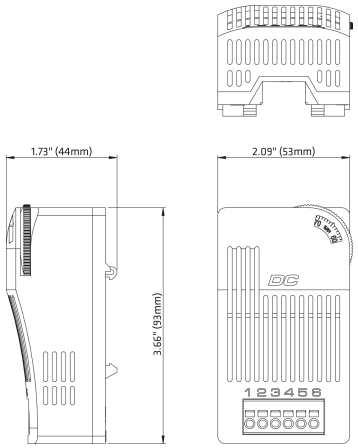
- Internal switch module with high DC switching capacity
- Adjustable temperature
- Small hysteresis
- External sensor

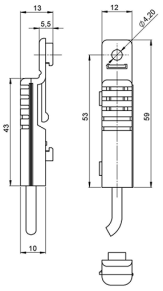
OVERVIEW TECHNICAL DATA

Device type	Thermostats; DC applications
Setting range	-10 °C - 50 °C
Contact type	MOSFET
Protection type	IP20
Operating display	LED
External sensor	Cable 2 m with snap-in male connector
Casing	Plastic to UL94 V-0, light grey
AC/DC	DC
Operating voltage	20 V - 56 V
Inrush current	24 A
Inrush current duration	10 s
Power consumption	1 W
Switching capacity	13 A (DC)
Switching current ohmic	13 A
Reference voltage ohmic	20...56 VDC
Reaction time	5 s
Service life	>100000 cycles
Setting range 2	65 % RH
Switching differential	3 K
Switching differential tolerance	± 1 K
Operating temperature	-40 °C - 50 °C
Operating humidity	≤90 % RH
Storage humidity	≤90 % RH
Storage temperature	-40 °C - 80 °C
Connection	6-pole clamp: stranded wire 1.5 mm² (AWG 16); max. 2.5 mm² (AWG 12)

Design	Normally closed (NC)
Mounting	Clip for 35 mm DIN rail, EN 60715
Height	93 mm
Width	53 mm
Depth	44 mm
Weight	120 g
Note	Secondary switch function: Versions with a secondary switch function can also react to humidity and thus offer greater contactor protection for the electronics. Switching differential: 4% rH (+1% tolerance) at +25 °C (+77 °F), 50% rH. Wire end ferrules must be used for connections with stranded wires.

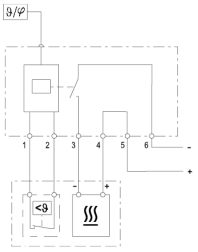
TECHNICAL DRAWINGS





External sensor

Connection diagram



Connection example

