

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

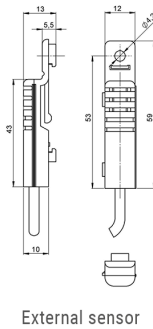
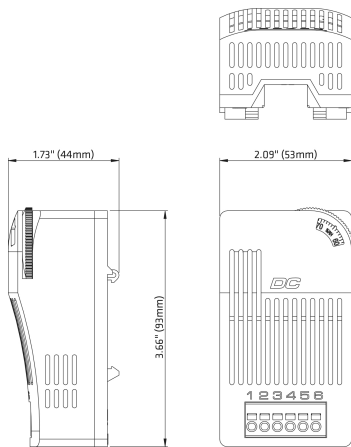


OVERVIEW TECHNICAL DATA

Device type	Thermostats; DC applications
Setting range	14 °F - 122 °F
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 gray
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 % rF
Switching differential	3 K
Switching differential tolerance	± 1 K
Operating temperature	-40 °F - 122 °F
Operating humidity	≤90 % rF
Storage humidity	≤90 % rF
Storage temperature	-40 °F - 176 °F
Connection	6-pole clamp: stranded wire 1.5 mm ² (AWG 16); max. 2.5 mm ² (AWG 12)

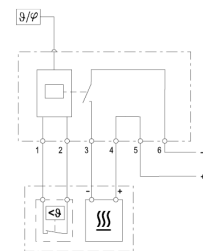
Design	Normally closed (NC)
Mounting	Clip for 35 mm DIN rail, EN 60715
Height	3.7 in
Width	2.1 in
Depth	1.7 in
Weight	4.2 oz
Note	<p>Secondary switch function: Versions with a secondary switch function can also react to humidity and thus offer greater contactor protection for the electronics.</p> <p>Switching differential: 4% rH (+1% tolerance) at +25 °C (+77 °F), 50% rH. Wire end ferrules must be used for connections with stranded wires.</p>

TECHNICAL DRAWINGS



External sensor

Connection diagram



Connection example

