

The TC-51X1 Low Limit Thermostats are a two-wire, line voltage control used to protect against freeze-up of heating coils, cooling coils or similar temperature applications.

The control is responsive only to the lowest temperature along any 1-foot section of the 20-foot measuring element. The single-pole, single-throw contact block is used to open the circuit on a temperature drop. A single scale shows the "cut-out" setting on the side of the unit. Adjustments can be made from the bottom of the case without removing the cover.



**Table-1 Ordering Data.**

TAC Wholesale Number	Replaces Model	Description
TC-5131	2284-421	Automatic Reset SPST
TS-5141	2284-422	Manual Reset SPST

## SPECIFICATIONS

**Action:** SPDT.

**Element:** Vapor pressure type - 1/8" x 20'.

**Range:** 34 to 60°F (1 to 16°C) (cutout); factory set at 40°F.

**Maximum bulb temperature:** 300°F (149°C).

**Differential:** 5°F (3°C)

**Shipping temperature:** -40 to 150°F (-40 to 66°C).

**Table-2 Electrical Ratings, SPDT.**

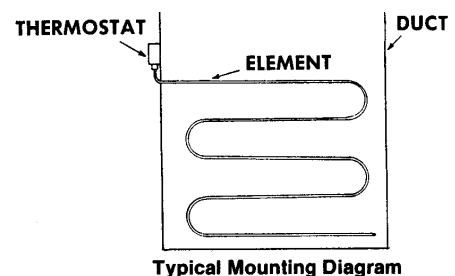
Part Number	Device Type	Voltage Vac	Full Load Amps	Locked Rotor Amps	Pilot Duty (VA)	Non-Inductive Amps
TC-5131	Low temp auto reset	24	-	-	100	16
		120	13.8	82.8	650	16
		208	9.6	57.6	750	9.6
TC-5141	Low temp manual reset <sup>a</sup>	240	8.3	49.8	750	8.3
		277 <sup>b</sup>	-	-	-	7.2

<sup>a</sup> Reset cannot be accomplished until the sensed temperature is at least 5°F above setpoint.

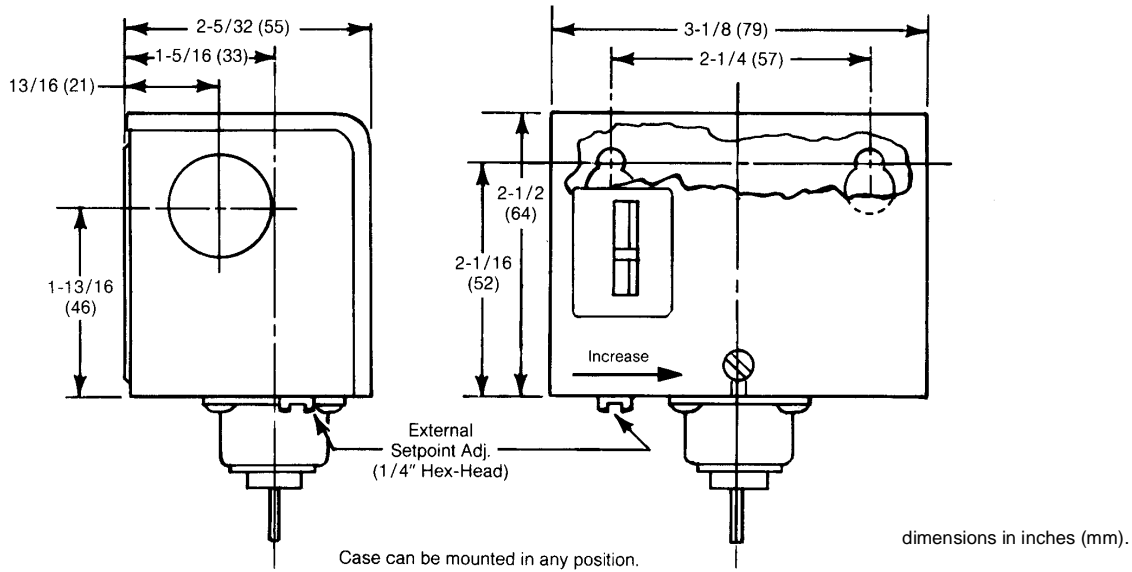
<sup>b</sup> 277 Vac not CSA approved.

## INSTALLATION

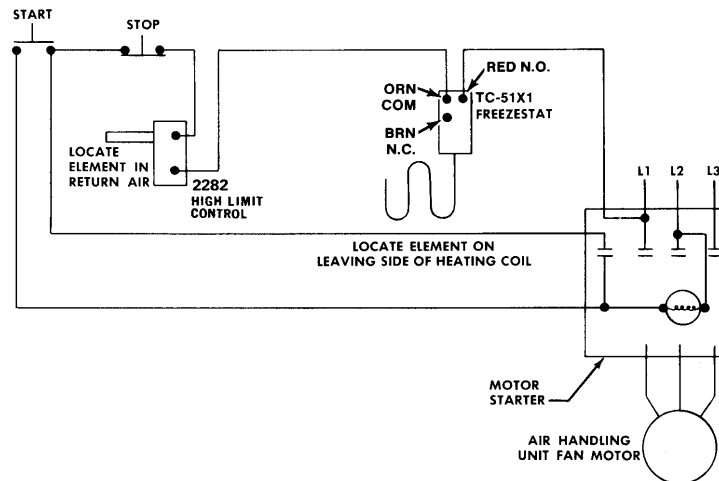
The bulb is usually located on the downstream side of the coil with the bulb exposed to all areas where freezing temperatures are likely to be encountered. The control will stop the fan when the temperature at any point approaches freezing. The controls are unaffected by ambient temperatures at the control case (the element must be in the controlled area). Can be mounted in any position on any surface not subject to excessive vibration.



## DIMENSIONS



## TYPICAL APPLICATION



## MAINTENANCE AND REPAIR

Model TC-51X1 thermostats should require virtually no maintenance after installation. If the control ever becomes inoperative, it should be replaced with a new device. The defective device should be returned to the factory.