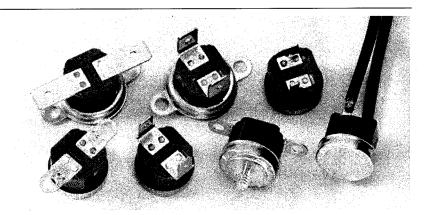


KLIXON

Precision Thermostats 7BT2 Series

High Capacity, Environmentally Sealed 1/2" Thermostat



Features

- High Current Capacity
- Normally Open or Closed
- Pre-set, Non-adjustable Temperature Calibration
- UL Recognized, file #36418
- CSA Recognized, file #LR24458
- VDE Recognized, file #4464.4-451/A1

Overview

Description

The Klixon 7BT2 thermostat is a snap-acting disc type control designed to provide crisp, positive switching action. The bimetal disc and electrical contacts are enclosed in a stainless steel cup to provide protection from dust and other foreign particles. The 7BT2 is available in a variety of configurations, making it a versatile candidate for your thermal protection needs.

Switching Action

All 7BT2 thermostats are supplied with single pole, single throw switching that can be constructed as either *Open on Temperature Rise* or *Close on Temperature Rise*.

Temperature Ratings

The standard operating temperatures, differentials and tolerances are shown in the table below, but can be customized to meet you specific requirements.

Operating Temperature	Operating Temperature	Differential		Tolerance	
Range ^o F	Range ^o C	٥F	оС	oF.	oC
30.0 to 204.0	-1.1 to 95.6	20.0	11.1	5.0	2.8
205.0 to 304.0	96.1 to 151.1	30.0	16.7	8.0	4.4
305.0 to 400.0	151.7 to 204.4	40.0	22.2	12.0	6.7

The standard operating temperatures, differentials and tolerances are shown in the table below, but can be customized to meet you specific requirements.

Ambient Temperature Range -40°F to +464°F, (-40°C to +240°C)

Operating Temperature Range +30°F to +400°F, (-1.1°C to +204.4°C)

Operating Temperature : Temperature at which normally closed contacts open or normally open contacts close.

Differential: Subtract the differential from the nominal operating temperature to determine the temperature at which the contacts will return to the normal position (reset temperature).



Performance Characteristics

Contact ratings (Amperes)

UL/CSA/VDE Ratings

120 VAC	240VAC	Life Cycles	
15	10	100,000	

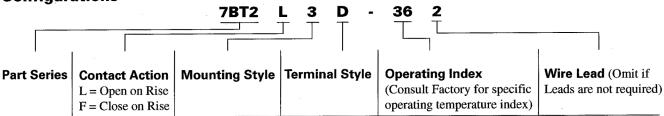
Based on standard Differential

Dielectric Strength

2000 VAC, rms, 60 cycles for 1 minute

Agency	Max. Voltage	Max. Current (non-inductive)	Max. Temperature
UL	120 VAC	15 amps	400°F
UL	240VAC	10 amps	400°F
CSA	120 VAC	15 amps	400°F
CSA	240 VAC	10 amps	400°F
CSA	277 VAC	7.2 amps	400°F
VDE	250 VAC	10 amps	347°F

Configurations



Mounting Style 2 = No Mounting

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3 = Loose Bottom Bracket

4 = Fixed Top Flange

6 6 22 W 197 4 1

6 = 6-32 X .187 stud

9 = 6-32 X .375 stud

15 = Pipe Mount

Terminal Style

A = Solder Type, Flat

B = 3/16 QC, outset at 900

C = Weld Type, Flat

D = Weld Type, outset at 900

F = 1/4 QC, outset at 90°

G = 1/4 QC, Flat

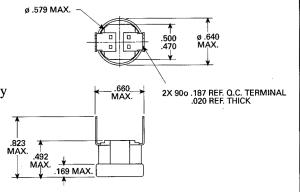
Wire Leads

Standard wire is 18 gauge stranded, tinned copper wire with black 0.31" PVC insulation (600V, 105°C). Standard lengths are shown below, but other lengths are available upon request.

$$1 = 6$$
", $2 = 12$ ", $3 = 18$ ", $4 = 24$ "

Basic Dimensions (inches)

Our most common configuration is depicted below, but many other styles are available. The 7BT2 can also be custom packaged to meet your specific design requirements.



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