KLIXON® | 204 SERIES FIXED TEMPERATURE THERMOSTATS

Snap-Action Automatic or Manual Reset

KEY BENEFITS

The 204 Thermostat can be mounted in any position

Construction is varied to suit specific needs

The Klixon snap-action bimetal thermal disc may be enclosed or exposed

Klixon® 204 Series Thermostats are fixed-setting, snap-action temperature limiting/fan controls used in appliances, heating equipment, and industrial or commercial apparatus. Automatic reset devices are available in single-pole, singlethrow (SPST) or single-pole, doublethrow (SPDT) configurations. Manual reset devices are available in SPST only.

The Klixon snap-action bimetal thermal disc may be enclosed or exposed. Exposed types have a faster thermal response.

Contact Description

The 204 Series Thermostats are supplied in three basic contact constructions, as identified below:

The letter “F” added to the series number, i,e, 20400F, indicates that the thermostat is supplied as a fan switch for applications such as forced air heating systems, where normally open contacts are required to close on temperature rise. The letter “L” indicates that the thermostat is applied as a limit control or a high limit safety, with normally closed contacts that open on temperature rise. The letter “D” indicates SPDT switching action, which combines the “F” and “L” functions.

Mountings

The 204 Thermostat can be mounted in any position -- in casting wells, through openings in metal enclosures, or in open space for control of air temperature.

A 204 thermostat with a “bottom flange” is used for surface mounting applications. A “top flange” is used for airstream or thruhole mounting requirements.

Terminals

Quick connect terminals are standard 0.250” x 0.032” thick, spade type (mates with any standard female terminal).

When screw-type terminals are used, washer head screws are supplied unassembled. Assembled washer head screws are available at a slight extra cost. Terminals have #8-32 NC-2 threads.

Construction is varied to suit specific needs; therefore, be sure to specify the actual electrical loading and expected maximum and minimum temperatures when submitting application data.

Temperature Features

The 20400 series devices are operational from -10°F to 350°F, with a temperature differential of 30°F to 40°F recommended. Differential is defined as the difference between nominal open and close temperatures. A minimum differential of 10°F is required for SPST types. SPDT types require a minimal differential of 15°F.

Engineering Service

A Sensata Field Sales Engineer who can assist you with your temperature control application is as close as your telephone. They can help you eliminate needless engineering costs and give your products the competitive edge.

Configurations

- 20400 - Standard
- 20410 - Manual reset

How to Order Samples

When requesting samples, please specify the following:

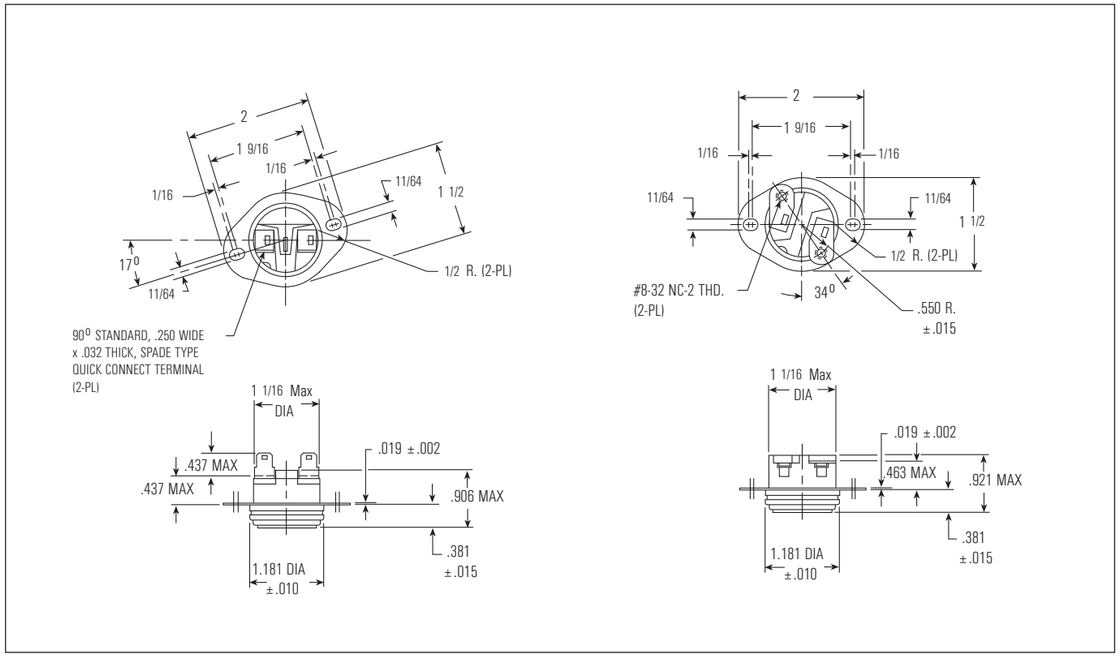
1. Load requirements (inductive or resistive)
2. Temperature settings and ambient temperature exposure
3. Maximum tolerances allowable on temperature settings
4. Type terminals and mounting flange
5. estimated annual usage
6. Location with respect to heat source
7. Contamination (lint, chemical fumes, etc.)

Underwriters’ Laboratories Electrical Current Ratings*

Device	Contacts	Number Cycles	120V Amps Res	120V FLA	120V LRA	120V Pilot Duty**	240V Amps Res	240V FLA	240V LRA	240V Pilot Duty**
20400D	1-2	100,000	10	5.8	34.8	125	5	2.9	17.4	125
20400D, L, or F	1-3	100,000	25	13	60	480	25	10	45	720
20410L	1-3	6,000	25	13	60	125	25	10	45	120

*Klixon 204 Series Thermostats are approved by Underwriters’ Laboratories and Canadian Standards Association in accordance with these electrical ratings.

**Power factor to exceed 35%. Inrush current up to 10 times steady rate.

	File	Guide
UL	MP986	MBPR2
	E9977	XAPX2
CSA	LR21794	400-E-0

Standard Constructions