



# KLIXON | 20425 SERIES HIGH **CURRENT DEFROST THERMOSTATS**

20425 Series, Snap-Action Automatic Reset

## WORLD CLASS PERFORMANCE

Klixon® 20425 Series thermostats are fixedsetting, low-cost snap-action temperature controls designed with sealed construction for refrigeration, air conditioning and heat pump applications.

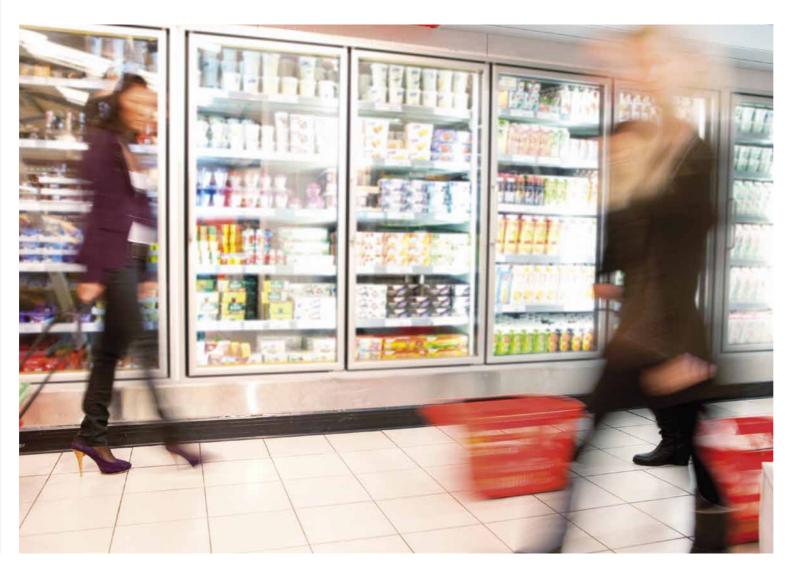
Sensata Technologies has been a leading global supplier of pressure sensors & switches for over 50 years.

The 20425 Series is available in singlepole, single-throw (SPST) or single-pole, double-throw (SPDT) automatic reset configurations. All operating parts and lead connections are contained within a metal cup which is filled with an epoxy resin compound to completely seal out moisture, dust and other contamination. Temperature actuation is initiated by the

Klixon snap-action bi-metallic disc. The snap-action of the disc provides fast, accurate switching. The disc is located at the bottom of the cup where thermal change at the mounting point is quickly transmitted to give this product a high degree of thermal sensitivity. A variety of mountings are available, as shown on page 55.



- · Completely sealed thermostat.
- Resists shock and vibration regardless of mounting position - Klixon® snapaction thermal disc assures positive make/break action.
- Splash proof enclosure sealed against dirt and moisture.
- · Easy to mount available with bottom,



thru-wall or tube mounting

- 100,000 cycles. (SA995) • Tamperproof - temperatures are
- factory set. Automatic reset - recycles automatically.

**Temperature Settings, Tolerances** and Nominal Differentials The list of temperature settings, tolerances and nominal differentials shown below are standard. (Selection of larger differentials and wider tolerances offer the lowest unit price). If settings and differentials other than those shown are desired, please contact Sensata Marketing.

Range of Temperature Settings			g.* ances	Minimum Mean Temperature Differential	
		Open	Close		
(-10)	80	±6	±θ	15ºF	
81	221	±5	±5	15ºF	
(-10)	80	±6	±6	20°F	
81	221	±5	±5	20°F	
(-10)	80	±6	±7	30°F	
81	221	±5	±5	30°F	
(-10)	80	±6	±7	40°F	
81	221	±5	±7	40°F	

differences in test equipment.

### Ambient Temperature Exposure (Maximum)

20425 Series. 20427 Series... 20428 Series.....

## SAIL **SMALL APPLIANCES INDUSTRIAL & LIGHTING**

• High capacity - up to 25 amp, 120 and 240 VAC resistive. UL recognized for

\* Customers checking tolerances should allow for

0°F to	221°F
0°F to	221°F
0°F to	221°F

#### **Contact Description**

Klixon 204 Series thermostats are supplied in two contact structures identified by the numbers following the basic series number.

The letter "F" added to the series number indicates that the thermostat is supplied as a fan switch (closes on tempereature rise). The letter "L" indicates that the thermostat is supplied as a controlling and high limit control (opens on temperature rise).

All thermostats with "F" and "L" designations are supplied with singlepole, single-throw switching action while "D" indicates single-pole, double-throw switching action.

#### Leads

Leads are attached to the terminals of the basic unit prior to sealing. Leads are #14, #16, or #18 gauge wire size, and are provided with ends stripped. Quick connect terminals, eyelets, or other terminal configurations are available at additional cost.

Length of lead as required by customers is measured from the center of the thermostat to:

- 1. End of stripped wire
- 2. Center of eyelet
- 3. Center of right angle Quick Connect

4. End of straight Quick Connect Standard Polyvinyl Chloride (PVC) insulation is available in a variety of colors as required. XLP wire insulation is available as an option.

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#### Electrical Ratings - UL and CSA Recognized

	TERMINALS 1 & 3, 14 or 16 AWG WIRE SPST				TERMINALS 1 & 2, 14 or 16 AWG WIRE SPDT					
	100,000 Cycles									
	VDC	VAC			VDC	VAC				
		120	240	277		120	240	277		
RES		25	25	15		10	5			
FLA		13	13			5.8	2.9			
LRA		60	60			34.8	17.4			
VA		125	125			125	125			
	-									
	30,000 Cycles									
	VDC		VAC			VAC				
		120	240	277		120	240	277		
RES		16	16			5	2.5			
FLA		16	16	15						
LRA		65	65	60						
VA		125	125	125		125	125			

	6,000 Cycles							
	VDC	VAC			VDC	VAC		
	12	120	240	277	12	120	240	277
RES	1	16	16	10	1	15	15	10
FLA		16	16	10				10
LRA		65	65	45				45
VA		125	125					
*Note: FLA rating 7A with 1		RES Resistive Amps FLA Full Load Amps						UL File No. SA995

FLA Full Load Amps IBA Locked Botor Amos VA Volt Amp, Pilot Duty



**Electrical Clearances** 

1/4" through air to ground 3/8" oversurface to ground

### **Engineering Services**

Sensata field sales engineers who undestand your temperature control problems and how our products solve them are available to discuss your application needs. Use their expertise to eliminate needless engineering cost and give your products a competitive edge.

#### How to Order Samples

When requesting samples, faster service ispossible when your application is describedin detail. A description of the duty cycles of he thermostat should be included.

#### **Please Specify:**

- 1. Load requirements (inductive or resistive).
- 2. Temperature settings (opening and closing).

Guide No.SDFY2

Guide SDFY8 for category

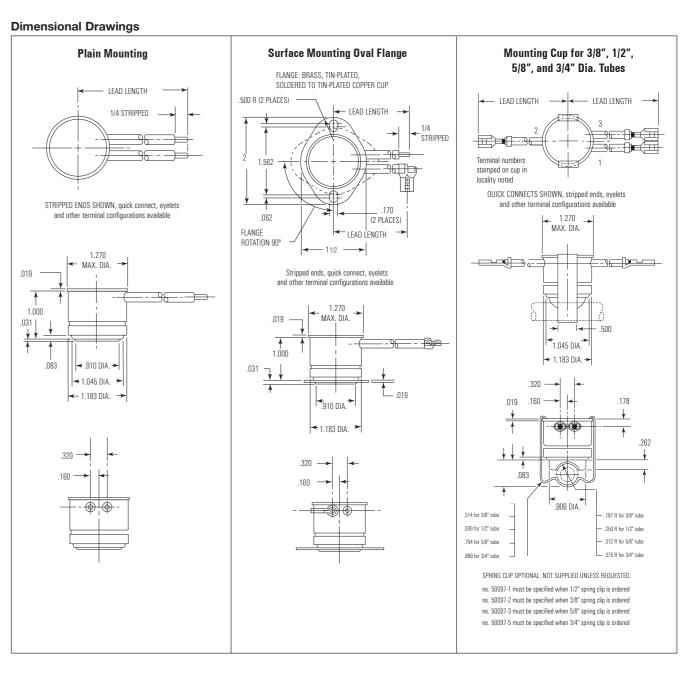
- 3. Maximum tolerances allowable on temperature settings.
- 4. Lead wire specifications (length, wire size, type termination).
- 5. Type mounting flange.
- 6. Estimated yearly usage.

Other conditions which affect the thermostat should be described: 1. Maximum and minimum temperature exposure.

- 2. Location with respect to heat source.
- 3. Temperature transfer medium

(air, metal surface, etc.).

5. Exposure to liquid and submersion.



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4. Possible contamination sources (lint, chemical fumes, etc.).