imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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3NT | SERIES FIXED TEMPERATURE THERMOSTATS

Introduction

Automatic reset thermostat designed to meet your specific application requirements. Its patented and tamper proof snap action bi-metal disc provides reliable and repeatable switch actuation. The 3NT is suitable for electrical loads ranging from dry circuits to 10A @ 240 VAC.

The core of the 3NT is the proven 1NT thermostat. Recognized by UL/CSA and KEMA/ENEC agencies, hundreds of millions of the 1NT device are in the field today used in a variety of HVAC, appliance, automotive and specialty applications.

Manufactured at ISO 9001 certified manufacturing sites, its dry seal allows direct integration of the thermostat into a wire harness eliminating the need for extra connections.

Features

- Automatic reset
- Small and easy to mount
- Fast thermal response
- Innovative dry seal design protects from moisture and dust

Amps

(resistive)

10

10

1

16

VA

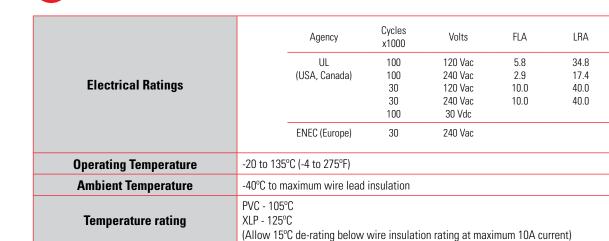
125

125

- Reliable 100K cycle life
- High temperature to 275°F (135°C)

Applications

- HVAC
- Commercial
- Dehumidifiers
- Freezers
- Heat pumps
- Ice makers
- Refrigerators
- Condensing or moist environments



1500 Vrms terminals to case

16 AWG (1/32" wall thickness in 105°C PVC)

8°C (15°F)

750 Vrms

Minimum Nominal Temperature

Differential

Dielectric Strength

Standard Wire Leads

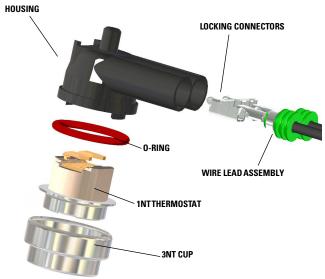
18 AWG (1/32" or 1/16" wall thickness in either 105°C PVC or 125°C XLPE)

Sensata Technologies



SPECIFICATIONS





Important Notice: The 3NT is not hermetically sealed, and should not be submerged in liquid. For such applications, please contact Sensata.



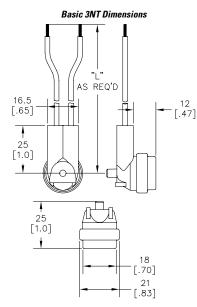
STANDARD TEMPERATURES AND TOLERANCES

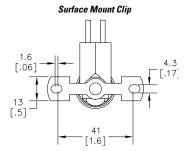
Nominal Top	Temperature	Nominal D	Iominal Differential Open Ter		nperature Close Te		nperature
°F	°C	°F	٦°	°F	°C	۴	°C
32 to 80	0 to 27	20 - 29 30 - 38 39 - 60	11 - 16 17 - 21 22 - 33	±5.5 ±5.5 ±5.5	±3 ±3 ±3	±7.5 ±8.5 ±10	±4 ±4.5 ±5.5
81 to 167	28 to 75	20 - 23 24 - 29 30- 59	11 -13 14 -16 17 -33	±5.5 ±5.5 ±5.5	±3 ±3 ±3	±7.5 ±8.5 ±10	±4 ±4.5 ±5.5
168 to 199 ⁽¹⁾	76 to 93 ⁽¹⁾	20 -23 24 - 29 30 - 59	11 -13 14 -16 17 -33	±5.5 ±5.5 ±5.5	±3 ±3 ±3	±7.5 ±8.5 ±9	±4 ±4.5 ±5
200 to 249 ⁽¹⁾	94 to 121 ⁽¹⁾	20 - 29 30 - 38 39 - 59 60 - 99	11 - 16 17 - 21 22 - 33 34 - 55	±6.5 ±6.5 ±6.5 ±10	±3.5 ±3.5 ±3.5 ±5.5	±8.5 ±10 ±12 ±20	±4.5 ±5.5 ±6.5 ±11
250 to 275	122 to 135	24 - 38 39 - 59 60 - 99	14 - 21 22 - 33 34 - 55	±7.5 ±7.5 ±10	±4 ±4 ±5.5	±10 ±14.5 ±20	±5.5 ±8 ±11

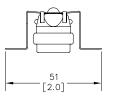
⁽¹⁾ Minimum bottom temperature of 50°C (122°F)

TYPICAL PHYSICAL CHARACTERISTICS

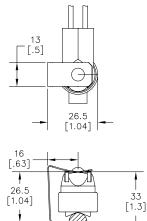
Dimensions in mm (inches)



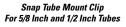


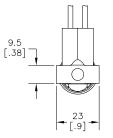


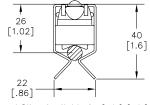
Open Tube Mount Clip (3/8 Inch Shown at 90° CCW Rotation) 90° and 180° CW Rotations Available



Additional Clips Available for [1/4], [5/16], [1/2], [5/8] tubes

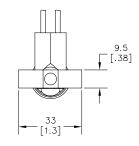


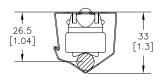






Locking Tube Mount Clip (3/8 Inch Shown)





Additional Clips Available for [1/4], [5/16], [1/2], [5/8] t ubes



Part Number

	3NT	01	L	H	XXXX
Family					
3NT					
Contact Material					
01: Silver					
11 : Gold <12V or <100 m/	A Contraction of the second seco				
Switch Opening Logic					
L: On Temp. Rise					
F: On Temp. fall					
Dry Seal Construction					
H: High Temp. (Silicon rub	ber)				
N: No leads					
ID Number					
-Temperature Code	-Specificatio	ns			
-Wire Leads	-Terminals a	nd Mountin	g Clip		

Temperature Code

Operating Temperature	L	50	F	30
L: Limit F: Fan				
Operating Temperature Nominal Opening Temperature				
Temp. Code				
C : Celsius F : Fahrenheit				
Differential				
Difference between Nomina Nominal Close Temperature	•			



AGENCY APPROVALS & CERTIFICATIONS

	File/Report Number	Category
UL (USA) ⁽²⁾	SA995	Category SDFY2
UL (CANADA) ⁽²⁾	SA995	Category SDFY8
DEKRA (ENEC)	2014531.16	EN60730-1, EN60730-2-9
DEKRA (IECEx)	21862646400	IEC60079-0, IEC60079-15 IEC60529

^[2] Recognized to US and Canadian requirements by Underwriters Laboratories (UL873 and C22.2 No. 24)

IMPORTANT NOTICE

These devices may not be used as service components, strictly for use by Original Equipment Manufacturer, not repair.

USERS ARE SOLELY RESPONSIBLE for design application and function of the end use product. Users must evaluate the suitability of these devices to their application with respect to temperature settings, mechanical cycle life, electrical loading and environmental conditions. This product is not hermetically sealed, it should not be submerged in any liquid. This product is not rated as explosion proof and should not be applied in any application where flammable vapors, gases or dust may be present. End of life failure of this device may result in either open or closed circuit condition. Suitable "End of life" protection should be applied in series with this device per safety agency specifications.





RISK OF MATERIAL DAMAGE AND HOT ENCLOSURE

- The product's side panels may be hot, allow the product to cool before touching
- Follow proper mounting instructions including torque values
 Do not allow liquids or foreign objects to enter this product
- Failure to follow these instructions can result in serious injury, or equipment damage.



- HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH • Disconnect all power before installing or working with this
- equipment
 Verify all connections and replace all covers before turning on power

Failure to follow these instructions will result in death or serious injury

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