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
- 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

		Agency	Cycles x1000	Volts	FLA	LRA	Amps (resistive)	
		UL	100	120 Vac	5.8	34.8	10	
		(USA, Canada)	100	240 Vac	2.9	17.4	10	
Electrical Ratings			30	120 Vac	10.0	40.0		
			30	240 Vac	10.0	40.0		
			100	30 Vdc			1	
		ENEC (Europe)	30	240 Vac			16	
Operating Temperature	-20 to 135	°C (-4 to 275°F)						
Ambient Temperature	-40°C to m	naximum wire lead	insulation					
Temperature rating	PVC - 105 XLP - 125 (Allow 15		wire insulation	on rating at max	imum 10A cu	rrent)		
Minimum Nominal Temperature Differential	8ºC (15ºF)							
Dielectric Strength	750 Vrms							

1500 Vrms terminals to case

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

SPECIFICATIONS

Dielectric Strength

Standard Wire Leads

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

VA 125 125

Sensata Technologies





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 Differential		Open Temperature		Close Temperature	
°F	°C	°F	°C	°F	٦°	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

Family	<u>3NT</u>	01 	L	H T	XXXX
Family					
3NT					
Contact Material					
01: Silver					
11: Gold <12V or <100 mA	L 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 ARCH 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

CONTACT US

+1 (888) 438 2214

+359 (2) 804 7165

Asia Pacific

ext 2808

sensors@sensata.com

Europe, Middle East & Africa

temperature-info.eu@sensata.com

sales.isasia@list.sensata.com

Rest of Asia +886 (2) 27602006

China +86 (21) 2306 1500

Japan +81 (45) 277 7117

Korea +82-10-9218-1179

India +91 (80) 67920890

Americas

Sensata Technologies, Inc. ("Sensata") data sheets are solely intended to assist designers ("Buyers") who are developing systems that incorporate Sensata products (also referred to herein as "components"). Buyer understands and agrees that Buyer remains responsible for using its independent analysis, evaluation and judgment in designing Buyer's systems and products. Sensata data sheets have been created using standard laboratory conditions and engineering practices. Sensata has not conducted any testing other than that specifically described in the published documentation for a particular data sheet. Sensata may make corrections, enhancements, improvements and other changes to its data sheets or components without notice.

All products are sold subject to Sensata's terms and conditions of sale supplied at www.sensata.com SENSATA ASSUMES NO LIABILITY FOR APPLICATIONS ASSISTANCE OR THE DESIGN OF BUYERS' PRODUCTS. BUYER ACKNOWLEDGES AND AGREES THAT IT IS SOLELY RESPONSIBLE FOR COMPLIANCE WITH ALL LEGAL, REGULATORY AND SAFETY-RELATED REQUIREMENTS CONCERNING ITS PRODUCTS, AND ANY USE OF SENSATA COMPONENTS IN ITS APPLICATIONS, NOTWITHSTANDING ANY APPLICATIONS-RELATED INFORMATION OR SUPPORT THAT MAY BE PROVIDED BY SENSATA.

Mailing Address: Sensata Technologies, Inc., 529 Pleasant Street, Attleboro, MA 02703, USA.

www.sensata.com



Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию.

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России, а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научноисследовательскими институтами России.

С нами вы становитесь еще успешнее!

Наши контакты:

Телефон: +7 812 627 14 35

Электронная почта: sales@st-electron.ru

Адрес: 198099, Санкт-Петербург, Промышленная ул, дом № 19, литера Н, помещение 100-Н Офис 331