File E202893
Project 99RT5858

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REPORT

on

COMPONENT – TEMPERATURE-INDICATING
AND REGULATING EQUIPMENT

*(TECASA) TECNICAS DE CALENTAMIENTO S.**A**.
*Sabino Arana 62, **Bis**
Vizcaya, Spain

PRODUCT COVERED:

USR, CNR Component – Appliance Thermostat, Model No. NT series.

GENERAL:

This device is a non-enclosed, adjustable type thermostat. The thermostat is capillary type control, single-pole and double-throw or single-pole and single-throw. The contacts open on temperature rise. This device is intended for regulating applications only.

RATINGS:

*400 V ac, 16 A resistive, 50-60 Hz, 100’000 cycles, maximum regulating temperature **340** °C.

*

NOMENCLATURE:

NT	1	2	2	A
	I	II	III	IV

I - Models
1 = **Max. Body** Temperature 85 °C adjustable
*2 = **Max. Body** Temperature **120°C** adjustable
*3 = **Max. Body** Temperature **120°C** fixed
*4 = **Max. Body Temperature 85 °C fixed**

II - Regulating temperature and version
1 = Less than 50 °C, Single Pole Single Throw (SPST)
A = 50 – 75 °C, Single Pole Single Throw (SPST)
2 = 75 – 100 °C, Single Pole Single Throw (SPST)
3 = 100 – 200 °C, Single Pole Single Throw (SPST)
4 = 200 – 250 °C, Single Pole Single Throw (SPST)
* 5 = 250 – **340** °C, Single Pole Single Throw (SPST)
6 = Less than 50 °C, Single Pole Double Throw (SPDT)
B = 50 – 75 °C, Single Pole Double Throw (SPDT)
7 = 75 – 100 °C, Single Pole Double Throw (SPDT)
8 = 100 – 200 °C, Single Pole Double Throw (SPDT)
9 = 200 – 250 °C, Single Pole Double Throw (SPDT)
* 0 = 250 – **340** °C, Single Pole Double Throw (SPDT)

III - Capillary length and material
1 = 350 mm, stainless steel
2 = 850 mm, stainless steel
3 = 1500 mm, stainless steel
4 = 2000 mm, stainless steel
5 = special length, stainless steel
6 = 350 mm, copper
7 = 850 mm, copper
8 = 1500 mm, copper
9 = 2000 mm, copper
0 = special length, copper

IV – Options
A0 = standard terminal 90
A1 = standard terminal 135
A2 = standard terminal 180
From B to ZZ = possible options
P = packing nut

ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE USE):

Use - For use only in complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

Conditions of Acceptability - When installed in the final use equipment, the following items are among the considerations to be made.

1. The device shall be installed in compliance with the enclosure, mounting, spacing, and segregation requirements of the ultimate application. The cover has not been evaluated for use as the ultimate enclosure.

2. The acceptability of the terminals and connections to these terminals shall be determined in the ultimate application.

3. The device has been tested for 100,000 cycles.

4. This device has not been investigated for safety or limiting requirements. It is intended for regulating applications only.

5. This component has been judged on the basis of the required spacings UL 873, the Standard for Temperature Indicating and Regulating Equipment, Eleventh Edition, Table 32.1, Column F.

6. Maximum ambient temperature according with models nomenclature.

*7. The capillary tube **may** be provided with sleeving **for mechanical protection. This sleeving has not been investigated for thermal or electrical insulation. The composition/material of the sleeving may vary. If relied upon for mechanical protection, the presence of the sleeving should be described in the end-use application.**

Note:

USR indicates compliance with the requirements in the Standard for Temperature Indicating and Regulating Equipment, UL 873.

CNR indicates compliance with the requirements in the Canadian Standard C22.2 No. 24-1991.

CONSTRUCTION DETAILS:

Spacings - Spacings of not less than **1/4°** in. through air and **1/4°** in. over the surface of insulating material are maintained between uninsulated live parts and opposite polarity and any uninsulated live part and exposed metal part other than the enclosure.

Tolerances - Unless specified otherwise, all indicated dimensions are nominal.

Mechanical Assembly - Unless otherwise stated, all enclosure parts and component mounting assemblies are secured by welding, rivets, thread forming screws, or machine screws or bolts provided with nuts and lockwashers.

Mechanical Electrical Connections - For electrical connection, internal wiring and leads of transformers and components are provided with crimp-on terminals such as closed loop, spade type with upturned ends, quick connect with integral detent or locking type, or are mechanically secured and soldered.

Wiring connections may also be accomplished by Listed wire connectors suitable for the temperature, wire gauge and number of conductors.

***** Marking - Manufacturer's name or tradename, "Tecasa", catalog designation, **Recognized Component mark for Canada and electrical ratings.** Ink or machine stamped into thermostat cover.