

File E164102
Project 07CA23272

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REPORT

on

COMPONENT - TEMPERATURE-INDICATING AND REGULATING EQUIPMENT

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DESCRIPTION

PRODUCT COVERED:

USR, CNR - Component - Mechanical Hygrostat, Type MFR **01220.0-00**.

GENERAL CHARACTER:

These devices are SPDT, rail mounted, adjustable, electromechanical hygrostats designed to control enclosure heaters, so that condensation and equipment corrosion are prevented. The devices consist of an internal humidity sensing material that changes length based on humidity, and activates a switch. A maximum of two loads may be connected which would be switched alternately. The circuit is designed such that only one load will be on at a time.

RATINGS:

Electrical

Load:

Contact	Amperes [A]	Load Types	Voltage [V]	Number of operation
NO	5.0 A	General Purpose	250 ac	6000
NC	5.0 A	General Purpose	250 ac	6000

Temperature

Max ambient air temperature: 60°C

ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

USR indicates evaluation to UL 60730-1A, Standard for Automatic Electrical Controls for Household and Similar Use, Part 1: General Requirements.

CNR indicates investigation to Canadian Standard For Automatic Electrical Controls for Household and Similar Use, Part 1: General Requirements CAN/CSA-EN60730-1:02.

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

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

1. This control shall be mounted within an ultimate end-use enclosure and shall be installed in compliance with the enclosure, mounting, spacing, and segregation requirements of the ultimate application.
2. The device has not been evaluated for field wiring.
3. The performance of these devices with regards to safety or limiting applications has not been investigated.
4. Spacings were not considered necessary due to the switch being connected to one side of voltage, with no opposite voltage present.
5. The product was tested at an elevated ambient of 60°C.
6. Mounting securement of this device shall be considered in the end application.
7. The units are NOT provided with a dedicated ground connection.
8. This device is considered a non-safety, Type 1 control (deviation and drift has not been declared).