

File E164102
Project 02RT09480

January 24, 2003

REPORT

on

COMPONENT - TEMPERATURE-INDICATING & -REGULATING EQUIPMENT

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DESCRIPTION

PRODUCT COVERED:

USR, CNR - Component, Temperature-Indicating & -Regulating Equipment -

Regulating Thermostat Series ZR011:

Models 01172.0-00, 01172.0-01, 01175.0-00, 01175.0-01, 01176.0-00, 01176.0-01.

Regulating Thermostat Series ZR111:

Models 11177.0-00, 11178.0-00, 11179.0-00.

Model 11172.0-00.

GENERAL:

These devices consist of two adjustable, SPST, bimetal-actuated temperature-regulating thermostats enclosed in a polymeric housing. Devices with part nos. ending with "-00" denotes a device that indicates temperature in degrees Celsius and "-01" denotes a device that indicates temperature in degrees Fahrenheit.

USR indicates investigation to UL 873, the standard for Temperature-Indicating and -Regulating Equipment.

CNR indicates investigation to Canadian Standard C22.2 No. **24-15**.

RATINGS:

| Model | Contact s | Temperature Range | Voltage , Vac | Current, A | Load Type | Number of Cycles |
|------------|--------------|----------------------|---------------------|---------------|-----------|---------------------|
| 01172.0-00 | N.C. | 0 - 60°C | 250 | 10 | Resistive | 100,000 |
| | | | 250 | 2 | GP | 100,000 |
| 01172.0-01 | N.O. | 0 - 60°C | 250 | 5 | Resistive | 100,000 |
| | | | 250 | 2 | GP | 100,000 |
| 01172.0-01 | N.C. | 32 - 140°F | 250 | 10 | Resistive | 100,000 |
| | | | 250 | 2 | GP | 100,000 |
| 01172.0-01 | N.O. | 32 - 140°F | 250 | 5 | Resistive | 100,000 |
| | | | 250 | 2 | GP | 100,000 |
| 01175.0-00 | N.C. | -10 - 50°C | 250 | 10 | Resistive | 100,000 |
| | | | 250 | 2 | GP | 100,000 |
| 01175.0-00 | N.O. | 20 - 80°C | 250 | 5 | Resistive | 100,000 |
| | | | 250 | 2 | GP | 100,000 |
| 01175.0-01 | N.C. | 14 - 122°F | 250 | 10 | Resistive | 100,000 |
| | | | 250 | 2 | GP | 100,000 |
| 01175.0-01 | N.O. | 68 - 176°F | 250 | 5 | Resistive | 100,000 |
| | | | 250 | 2 | GP | 100,000 |
| 01176.0-00 | N.O. | 0 - 60°C | 250 | 10 | Resistive | 100,000 |
| | | | 250 | 2 | GP | 100,000 |
| 01176.0-00 | N.O. | 0 - 60°C | 250 | 5 | Resistive | 100,000 |
| | | | 250 | 2 | GP | 100,000 |
| 01176.0-01 | N.O. | 32 - 140°F | 250 | 10 | Resistive | 100,000 |
| | | | 250 | 2 | GP | 100,000 |
| 01176.0-01 | N.O. | 32 - 140°F | 250 | 5 | Resistive | 100,000 |
| | | | 250 | 2 | GP | 100,000 |

| Model | Contact s | Temperature Range | Voltage , Vac | Current, A | Load Type | Number of Cycles |
|------------|--------------|----------------------|---------------------|---------------|-----------|---------------------|
| 11177.0-00 | N.C. | 10°C (50°F) | 250 | 10 | Resistive | 100,000 |
| | | | 250 | 2 | GP | 100,000 |
| | N.O. | 35°C (95°F) | 250 | 5 | Resistive | 100,000 |
| | | | 250 | 2 | GP | 100,000 |
| 11178.0-00 | N.O. | 35°C (95°F) | 250 | 5 | Resistive | 100,000 |
| | | | 250 | 2 | GP | 100,000 |
| | N.O. | 45°C (113°F) | 250 | 5 | Resistive | 100,000 |
| | | | 250 | 2 | GP | 100,000 |
| 11179.0-00 | N.C. | 5°C (41°F) | 250 | 10 | Resistive | 100,000 |
| | | | 250 | 2 | GP | 100,000 |
| | N.C. | 15°C (59°F) | 250 | 5 | Resistive | 100,000 |
| | | | 250 | 2 | GP | 100,000 |

| Model | Contact s | Temperature Range | Voltage , Vac | Current, A | Load Type | Number of Cycles |
|------------|--------------|----------------------|---------------------|---------------|-----------|---------------------|
| 11172.0-00 | N.C. | 0 - 60°C | 250 | 10 | Resistive | 100,000 |
| | | | 250 | 2 | GP | 100,000 |
| | N.O. | 0 - 60°C | 250 | 5 | Resistive | 100,000 |
| | | | 250 | 2 | GP | 100,000 |

Maximum surrounding temperature 80°C for all models

MODEL DIFFERENCES:

All models covered by this description are provided with same construction and they have the same features.

Series ZR111, composed by models 11177.0-00, 11178.0-00, 11179.0-00, 11172.0-00 differs from series ZR011 composed by models 01172.0-00, 01172.0-01, 01175.0-00, 01175.0-01, 01176.0-00, 01176.0-01, for a different enclosure design. Anyway, the enclosure size and materials are the same.

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

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 ultimate equipment the following are among the considerations to be made.

1. Installation, Segregation of Circuits, Enclosure and Mounting Requirements, and Spacings Between These Devices and Their Surroundings in the ultimate equipment shall comply with the applicable requirements of that ultimate equipment.
2. * deleted
3. * deleted
4. * deleted
5. * deleted
6. This device has not been evaluated as a safety control or limiting control and therefore is intended for regulating applications only.