

DESCRIPTION

PRODUCT COVERED:

USR, CNR Component - Temperature Switch, Model Series ML1S, may be followed by alphanumeric characters as indicated under "Model Nomenclature."

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

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

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

CNR indicates investigation to the Canadian National Standard for Temperature-Indicating and -Regulating Equipment, C22.2, No. 24-93.

These devices are intended for temperature regulating applications only.

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

Conditions of Acceptability - When installed in the end-use equipment, the following are among the considerations to be made:

1. These devices shall be installed in compliance with the enclosure, mounting, spacing, ratings, and segregation requirements of the ultimate application.
2. These devices are intended for Temperature Regulating Applications and use recognized components that have been tested for 100,000 cycles endurance only. Their use in limiting applications has not been investigated.
3. Calibration testing has not been performed, and should be considered in the end use and application.
4. The leads of these devices have not been evaluated for field wiring connections. The acceptability of the leads, and connections to them, including temperature and secureness, shall be determined in the end-product application.
5. The mounting means should be described in the end-use product to the extent necessary to comply with the end-use product requirements.

ELECTRICAL RATINGS:

125 V ac, 15 A resistive
250 V ac, 10 A resistive

CONSTRUCTION DETAILS:

Spacings - Vary due to use of epoxy in different locations.

Marking - Label folded around leads or wrapped around thermowell.
Listee name or Trademark. Model number and electrical ratings.

Model Nomenclature - A definition of the model number meaning may be determined by using the following diagram:

Example: ML1S - XX - I - C - QXXX
 A B C D E

- A - Series miniature local mount thermowell style
- B - Temperature set point: XX or XXX; number in °F.
Also indicates temperature series:
 - Low Temperature Series: up to 300°F
 - High Temperature Series: over 300°F
- C - Set Point Direction
 - O = DECREASING (FALLING) TEMPERATURE
 - I = INCREASING (RISING) TEMPERATURE
- D - Contact Form
 - O = NORMALLY OPEN
 - C = NORMALLY CLOSED
- E - Special Options
May be any combination of letters or numbers.

TEMPERATURE SWITCH, ML1S LOW TEMPERATURE SERIES - FIG. 1 (S0186631)

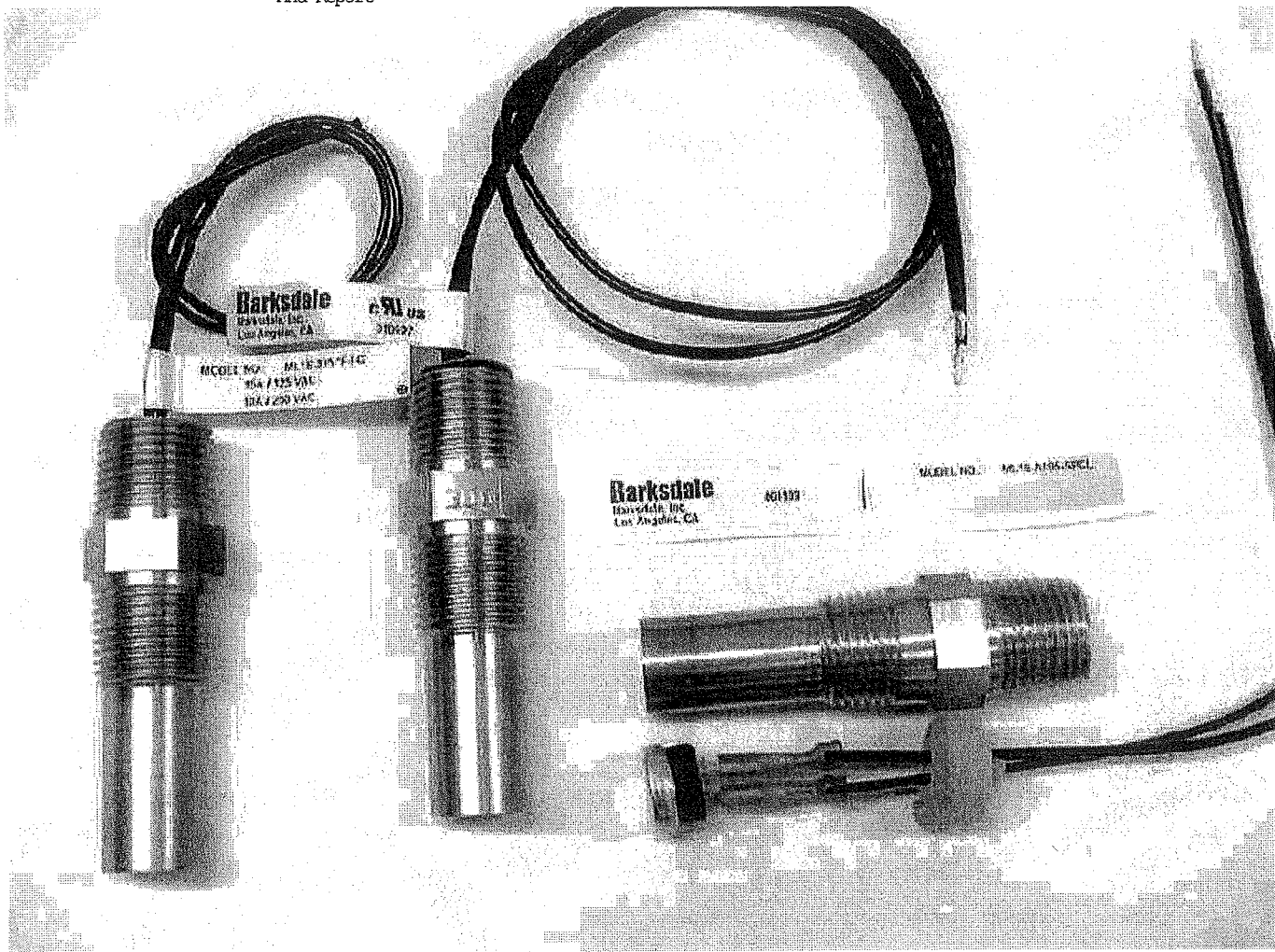
General - Represents entire Model ML1S low temperature Series.

1. Thermowell - Has integral hex nut. $\frac{1}{2}$ " NPT threads on each side of hex nut. Thermowell has a hollow opening large enough to receive thermostat.
2. Thermostat - R/C (XAPX2), Nippon G.T. Corporation, Type 11N, rated 125 V ac, 15 A resistive; or 250 V ac, 10 A resistive, held in place with adhesive and epoxy.
3. Leads - R/C (AVLV2), No. 18 AWG, TFE insulation AWM Style 1180. Rated for 200°C, 600 V. Secured within thermowell with foam tape before final application of epoxy.
3. Terminal connectors - Listed, connectors crimped onto leads, slide onto thermostat terminals.

TEMPERATURE SWITCH, ML1S HIGH TEMPERATURE SERIES

General - Represents entire Model ML1S High Temperature Series. Similar to ML1S Low Temperature Series, except the following:

2. Thermostat - R/C (XAPX2), Nippon G.T. Corporation, Type 10N.
3. Leads - R/C (AVLV2), No. 18 AWG, TFE insulation AWM Style 1815. Rated for 250°C, 600 V.



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