

File E348116
Project 4787675622

January 10, 2017

REPORT

ON

COMPONENT - TEMPERATURE INDICATING AND REGULATING EQUIPMENT

JIANGSU MEIKAI ELECTRIC CO LTD
JIANGSU, CHINA

Copyright © 2017 UL LLC

UL LLC authorizes the above named company to reproduce this Report only for purposes as described in the Conclusion. The Report should be reproduced in its entirety; however to protect confidential product information, the Construction Details Descriptive pages may be excluded.

DESCRIPTION

PRODUCT COVERED:

USR, CNR Component - Operating Control, Thermostat, Series 18AM.

GENERAL CHARACTER:

Series 18AM are bimetal-actuated, snap action, single-pole, single-throw, non-adjustable, automatic reset type thermostats for use in household appliances. The contacts open on temperature rise.

RATINGS:

I. OUTPUTS (+):

Series No.	Contact Description	Voltage (VAC)	Current (A)	Load Type	Setpoint range (°C)	Endurance Cycle Tested	Complete Declar.
18AM	SPST; NC	125 VAC, 50/60HZ	9	Resistive	50-150	10,000	2.C Operating

(+) Glossary:

Operating - Not intended to provide any safety or protective functionality. A control which starts or regulates the equipment during normal operation.

Type 2 Action - Manufacturing Deviation and Drift testing conducted.

A Type ".C" control has been investigated for "micro interruption" applications. When in the open position, the contacts de-energize the connected load but have not been subjected to dielectric withstand testing and the gap has not been subjected to a dimensional analysis.

II. Temperature -

Maximum Operating Ambient Temperature: 150 °C

Shipping and Storage Temperature: -40 °C to 60 °C

Set-point Temperature Range: 50 °C to 150 °C

III. Control Type -

INCORPORATED - Component-type equipment intended to be used within end-use/OEM equipment.

IV. Declared Reliability Ratings -

Deviation/Drift Tolerance:

Model	Temperature Range (°C)	Maximum allowable Deviation from declared operating value	Maximum allowable drift from initial measured value
18AM Series	50 ~ 150 °C	±5 °C(#)	±5 °C(#)

(#) Value declared by the manufacturer, which is within the value specified by UL60730-2-9.

V. Functionality Type (+) -

Control Model No.	Functional. Type
18AM	Thermostat

(+)
Glossary:

THERMOSTAT - A cycling temperature sensing control, which is intended to keep a temperature between two particular values under normal operating conditions and which may have provision for setting by the user.

VI. Software Class - N/A

VII. Overvoltage Category -

Category II - Load Level. Appliances and portable equipment and the like connected to the distribution level, Category III.

VIII. Pollution Degree -

Pollution Degree 2 - Normally, only nonconductive pollution. However, a temporary conductivity caused by condensation may be expected. Deposits of moisture such as those that can occur from expected condensation (e.g. the interior of a refrigerated compartment) or defrost water are not anticipated.

IX. Maximum Phase to Ground voltage of the supply source - 150 VAC.

X. Protection against electric shock class -

Class I - Grounded Equipment Applications/ Intended for use in grounded Equipment Applications.

XI. Environmental -

Unenclosed Indoor use Only - No part of the control has been investigated to form a part of the ultimate enclosure in the application.

IP00

NOMENCLATURE

Example:

18AM C 150 °C
I II III

I - Basic type designation

II - Case material:

A, B or E - G: means metal, according to customers demand, there is no difference in construction.

C, D or H - J: means plastic, according to customers demand, there is no difference in construction.

III - Operating temperature

The temperature range from 50 °C - 150°C.