

NEMA DC 5-1989 (R2008)

Residential Controls - Surface-Type Controls for Electric Storage Water Heaters



NEMA Standards Publication DC 5-2002

Residential Controls – Surface-Type Controls for Electric Storage Water Heaters

Published by

National Electrical Manufacturers Association

1300 North 17th Street
Rosslyn, Virginia 22209

www.nema.org

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CONTENTS

	Page
Foreword	ii
Section 1 GENERAL	
1.1 Scope.....	1
1.2 References	1
1.2.1 Normative References.....	1
1.3 Definitions	1
Section 2 CLASSIFICATIONS	
2.1 Classifications.....	3
Section 3 CONSTRUCTION	
3.1 Dimensions	5
3.2 Mounting Method.....	5
3.3 Mounting Means	5
3.4 Terminal Means	6
Section 4 PERFORMANCE AND RATINGS	
4.1 Performance and Ratings.....	7

Foreword

This Standards Publication defines the basic elements of construction and mounting considered to be necessary for the application of electric storage water heater controls. It has been developed in the public interest and is designed to promote a better understanding between the manufacturer and the user by providing for interchangeability through industry standardization.

This Standards Publication is designated NEMA Standard unless otherwise indicated.

These standards are periodically reviewed by the Residential Controls Section of NEMA for any revisions necessary to keep them up-to-date with advancing technology.

Proposed or recommended revisions should be submitted to:

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NEMA Standards Publication No. DC 5-2002 supersedes DC 5-1989 (R1996).

This Standards Publication was developed by the Residential Controls Section. Section approval of the standard does not necessarily imply that all section members voted for its approval or participated in its development. At the time it was approved, the group was composed of the following members:

Apcom Inc.—Franklin, TN
Emerson Electric Company, White-Rodgers Division—St. Louis, MO
First Technology—Standish, ME
GE Industrial Systems—Morrison, IL
Honeywell, Inc.—Golden Valley, MN
Johnson Controls, Inc.—Milwaukee, WI
Texas Instruments, Inc.—Attleboro, MA
Therm-O-Disc—Mansfield, OH

Section 1 GENERAL

1.1 SCOPE

This Standards Publication applies to surface-type control thermostats and temperature-limiting controls for electric storage water heaters.

1.2 REFERENCES

The following publications are adopted in whole or in part as indicated, by reference in this Standards Publication, and are available from the organizations below.

1.2.1 Normative References

The following normative documents contain provisions, which through reference in this text, constitute provisions of this Standards Publication. By reference herein these publications are adopted, in whole or in part as indicated, in this Standards Publication.

American National Standards Institute (ANSI)

11 West 42nd Street
New York, NY 10036

ANSI/UL 174-1996	<i>Household Electric Storage-Tank Water Heater</i>
ANSI/UL 873-1994	<i>Temperature-Indicating and Regulating Equipment</i>
ANSI/UL 1453-1995	<i>Electric Booster and Commercial Storage Tank Water Heaters</i>

Canadian Standards Association (CSA)

178 Rexdale Boulevard
Toronto, Ontario, M9W 1R3, Canada

CSA C22.2 No.110-1994 (R1999)	<i>Construction and Test of Electric Storage-Tank Water Heaters</i>
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1.3 DEFINITIONS

surface-type temperature-limiting control: A fixed setting control that is designed to limit by energy cut-off the temperature of the water within a water heater in response to the external temperature of the tank.

surface-type temperature-regulating thermostat: An adjustable control that is designed to control the temperature of the water within a water heater in response to the external temperature of the tank.