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High Ambient Temperature Test Procedure for Wiring Devices

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Contents

Foreword	ii
Background	1
Section 1 General	2
1.1 Scope.....	2
Section 2 High Ambient Temperature Test Procedure	3
2.1 Receptacles, Connectors, or Outlets.....	3
2.2 Plugs or Inlets.....	3
Section 3 Results	5
Section 4 Accelerated Aging Test	6
Section 5 Conditional Requirements	7
Section 6 Markings, Warnings, Instructions	8
6.1 On the Device.....	8
6.2 Installation Instructions: "Warning: Risk of Fire or Electric Shock!".....	8

Foreword

In the preparation of this technical publication, the input of users and other interested parties has been sought and evaluated. Inquiries, comments, and proposed or recommended revisions should be submitted to the concerned NEMA product subdivision by contacting:

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Background

This procedure was developed by the NEMA Wiring Devices Technical Committee Task Force on High Ambient Temperatures. The purpose is to standardize the testing procedure used by the wiring devices manufacturers to list their devices' maximum ambient temperature rating.

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Section 1 General

1.1 Scope

The purpose of this standard is to define a process to evaluate wiring devices at high ambient temperatures for use in high-temperature environments.

The high ambient temperature is specified by the submitter. The test ambient shall be 50°C minimum with higher test ambient values specified in 5°C increments (e.g., 60°C, 65°C, 90°C). The results of testing may indicate a need for appropriate constructions.

The manufacturer may also specify a de-rating factor for use at the high ambient temperature.

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