UL 489B

Outline of Investigation for Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit-Breaker Enclosures for Use with Photovoltaic (PV) Systems

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Summary of Topics

This is the fourth issue of the Outline of Investigation for Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit-Breaker Enclosures for Use with Photovoltaic (PV) Systems that includes the following changes:

Revised to increase voltage ratings to 1500V

Clarification of the requirement in 6.2

Addition of 50 dc ampere Standard Fault Interrupting Rating to Table 17.1

Deletion of the Inclined Plane Tracking Test

Miscellaneous editorial corrections

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ALL DEVICES

INTRODUCTION

1 Scope

1.1 These requirements cover molded-case circuit breakers, molded-case switches, and circuit-breaker enclosures rated up to 1500 V dc, intended for use with photovoltaic (PV) systems and Article 690 of the National Electrical Code, ANSI/NFPA-70.

1.2 These requirements are intended to be used in conjunction with the requirements in the Standard for Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures, UL 489, hereafter referred to as UL 489, except as modified or supplemented by this Outline.

2 Components

2.1 Except as indicated in 2.2, a component of a product covered by this Outline shall comply with the requirements for that component.

2.2 A component is not required to comply with a specific requirement that:

a) Involves a feature or characteristic not required in the application of the component in the product covered by this Outline; or

b) Is superseded by a requirement in this Outline.

2.3 A component shall be used in accordance with its rating established for the intended conditions of use.

2.4 Specific components are incomplete in construction features or restricted in performance capabilities. Such components are intended for use only under limited conditions, such as certain temperatures not exceeding specified limits, and shall be used only under those specific conditions.

3 Units of Measurement

3.1 Values stated without parentheses are the requirement. Values in parentheses are explanatory or approximate information.

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