UL 489J

Outline of Investigation for Molded-Case Circuit Breakers With Integrally Fused Short-Circuit Protection

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Summary of Topics

This is the First Issue of the Outline of Investigation for Molded-Case Circuit Breakers With Integrally Fused Short-Circuit Protection, UL 489J, dated April 29, 2026. This Outline of Investigation covers Molded-Case Circuit Breakers that rely on an integral fuse to provide short-circuit protection.

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ALL DEVICES

INTRODUCTION

1 Scope

1.1 These requirements cover molded-case circuit breakers with integrally fused short-circuit protection. These devices rely on the integral fuse to provide short-circuit protection. These devices are rated up to 1000 Vac and 1500 Vdc. These devices are specifically intended to provide service entrance, feeder, and branch circuit protection in accordance with the NFPA 70®, *National Electrical Code*® (NEC®)

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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.

1.3 This Outline does not cover fused circuit breakers in which the circuit breaker interrupts without operation of the integral fuse at or above the lesser of the following:

a) 25X the current rating frame, but not less than 1000A; or

b) The standard interrupting fault level in UL 489, Table 26.12

2 Units of Measurement

2.1 A component of a product covered by this Outline shall:

a) Comply with the requirements for that component as specified in this Outline;

b) Be used in accordance with its rating(s) established for the intended conditions of use; and

c) Be used within its established use limitations.

2.2 A component of a product covered by this Outline is not required to comply with a specific component requirement that:

a) Involves a feature or characteristic not required in the application of the component in the product;

b) Is superseded by a requirement in this Outline; or

c) Is separately evaluated when forming part of another component, provided the component is used within its established ratings and limitations.

2.3 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.

2.4 A component that is also intended to perform other functions such as overcurrent protection, ground-fault circuit-interruption, surge suppression, any other similar functions, or any combination thereof, shall comply additionally with the requirements of the applicable UL standard(s) that cover devices that provide those functions.

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