UL 943B

STANDARD FOR SAFETY

Appliance Leakage-Current Interrupters

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UL Standard for Safety for Appliance Leakage-Current Interrupters, UL 943B

Fourth Edition, Dated April 29, 2026

Summary of Topics

This new Fourth edition of UL 943B dated April 29, 2026 incorporates editorial changes including renumbering and reformatting to align with current style.

The new requirements are substantially in accordance with Proposal(s) on this subject dated January 9, 2026 and March 20, 2026.

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Fourth Edition

April 29, 2026

This ANSI/UL Standard for Safety consists of the Fourth Edition.

The most recent designation of ANSI/UL 943B as an American National Standard (ANSI) occurred on April 29, 2026. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, and Title Page.

Comments or proposals for revisions on any part of the Standard may be submitted to ULSE at any time. Proposals should be submitted via a Proposal Request in the Collaborative Standards Development System (CSDS) at https://csds.ul.com.

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INTRODUCTION

1 Scope

1.1 These requirements cover appliance leakage-current interrupters (ALCIs), intended for use only in 2- or 3- wire alternating-current circuits wherein one of the wires is grounded in accordance with NFPA 70®, *National Electrical Code*® (NEC®). They are intended to interrupt the electric circuit to the load when a fault current to ground exceeds some predetermined value that is less than that required to operate the overcurrent protective device of the supply circuit. An ALCI trips when the current to ground reaches a value in the range of 4 – 6 mA.

NFPA 70®, *National Electrical Code*®, and NEC® are registered trademarks of the National Fire Protection Association, Quincy, MA.

1.2 These requirements cover 2-wire appliance leakage-current interrupters for use only in cord-connected appliances intended for connection to alternating-current circuits of 250 V or less. An additional ground conductor may be provided. They are not to be provided with a general-purpose outlet receptacle, cord-connector body, or similar devices. Devices complying with these requirements are acceptable for use as components in an end product where the acceptability of the combination is to be determined.

1.3 The acceptability of an appliance leakage-current interrupter in any particular application depends upon its ability to be used continuously under the conditions that prevail in actual service. Accordingly, for a particular application, an appliance leakage-current interrupter may be affected by the requirements for the equipment it is used in, and it may be necessary to additionally evaluate features or performance characteristics that are not specified in this Standard.

1.4 This Standard does not cover ground-fault circuit-interrupters, which are covered by the Standard for Ground-Fault Circuit-Interrupters, UL 943.

2 Glossary

2.1 For the purpose of this Standard, the following definitions shall apply:

2.2 ACCESSIBLE PART – A part so located that it can be contacted by a person, either directly or by means of a probe or tool.

2.3 AUTOMATIC RECLOSURE – Denotes the act of an appliance leakage-current interrupter resetting itself after having been tripped.

2.4 CORD CONNECTED – Denotes connection to a supply circuit by way of a flexible cord terminating in an attachment plug.

2.5 DOUBLE INSULATION – The insulation system resulting from a combination of functional and supplementary insulation.

2.6 ENCLOSURE – Any surface or surrounding structure intended to minimize access to energized parts or parts presenting real or potential risk of injury to persons.

2.7 ENERGIZED PART – A part at some potential with respect to another part, or to earth.

2.8 FUNCTIONAL INSULATION – The insulation necessary for the proper functioning of the device, and for basic protection against the risk of electric shock.

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