

American National Standard

IEEE STANDARDS
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for low-voltage ac power
circuit breakers used in enclosures



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ANSI
C37.13-1973
Supersedes ANSI
C37.13-1963 (R 1969)

IEEE
Std 20-1973

An American National Standard

**IEEE Standard for
Low-Voltage AC Power Circuit Breakers
Used in Enclosures**

Sponsor

**Switchgear Committee of the
IEEE Power Engineering Society**

Approved December 2, 1971

IEEE Standards Committee

Secretariat

**Edison Electric Institute
Institute of Electrical and Electronics Engineers
National Electrical Manufacturers Association**

Approved June 26, 1973

American National Standards Institute

American National Standard

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Foreword

(This Foreword is not a part of American National Standard for Low-Voltage AC Power Circuit Breakers Used in Enclosures, C37.13-1973 IEEE Std 20-1973.)

This standard was first published in 1951 as AIEE Publication No 20. The first American National Standard was published in 1954 when use was made of the material in AIEE No 20. The basic material for IEEE and American National Standard C37.13-1973, which replaces American National Standard C37.13-1963, was developed by the IEEE Working Group of the Low-Voltage Switchgear Devices Subcommittee and approved by the IEEE Switchgear Committee.

Major revisions to update this standard have been made to reflect the changing state of the art. In addition, Section 8, Test Procedures, has been incorporated into a new standard (American National Standard C37.50-1973) which sets the mandatory requirements that a circuit breaker must meet (as certified by an independent testing laboratory) in order to satisfy federal law and local electrical codes. The purpose of developing a separate document on test procedures is to facilitate its use by testing laboratories and if a revision is necessary it can be accomplished quickly and economically.

This standard represents standard practice in the United States for low-voltage power circuit breaker types currently covered by the following American National Standards:

Preferred Ratings, Related Requirements, and Application Recommendations for Low-Voltage Power Circuit Breakers and AC Power Service Protectors, C37.16-1973

Trip Devices for AC and General-Purpose DC Low-Voltage Power Circuit Breakers, C37.17-1972

Safety Requirements for Low-Voltage AC Power Circuit Breakers and Switchgear Assemblies (Excluding Molded-Case Breakers), C37.19-1963

Switchgear Assemblies Including Metal-Enclosed Bus, C37.20-1969 (IEEE Std 27-1969)

Guide for Methods of Power Factor Measurement for Low-Voltage Inductive Test Circuits, C37.26-1972 (IEEE Std 330-1972)

Application Guide for Low-Voltage AC Non-Integrally Fused Power Circuit Breakers (Using Separately Mounted Current-Limiting Fuses), C37.27-1972 (IEEE Std 331-1972)

Low-Voltage AC Integrally Fused Power Circuit Breakers, C37.28-1969

Definitions for Power Switchgear, C37.100-1972

Techniques for Dielectric Tests, C68.1-1968

Molded-case circuit breakers are covered by other standards but in some instances may be able to meet the requirements of this standard.

The Standards Committee on Power Switchgear, C37, which reviewed and approved this standard, had the following personnel at the time of approval:

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High-Voltage Switchgear Standards

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The personnel of the IEEE Working Group of the Low-Voltage Switchgear Devices Subcommittee, IEEE Switchgear Committee, which developed this document were:

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When this Standard was approved on December 2, 1971, the IEEE Standards Committee had the following membership:

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