

American National Standard

application guide for low-voltage
ac non-integrally fused power
circuit breakers (using separately
mounted current-limiting fuses)

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An American National Standard

***IEEE Standard Application Guide for
Low-Voltage AC Non-Integrally
Fused Power Circuit Breakers
(Using Separately Mounted
Current-Limiting Fuses)***

Sponsor

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

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Approved May 2, 1972

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American National Standard

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Foreword

(This Foreword is not a part of American National Standard and IEEE Standard Application Guide for Low-Voltage AC Non-Integrally Fused Power Circuit Breakers [Using Separately Mounted Current-Limiting Fuses], ANSI C37.27-1972, IEEE Std 331-1972.)

This publication is one of a series of complementary American National Standards:

- C37.13-1963 (R1969) Low-Voltage AC Power Circuit Breakers (600-Volt Insulation Class)
- C37.14-1969 Low-Voltage DC Power Circuit Breakers and Anode Circuit Breakers
- C37.15-1954 (R1967) Rated Control Voltages and Their Ranges for Low-Voltage Air Circuit Breakers
- C37.16-1970 Preferred Ratings and Related Requirements for Low-Voltage Power Circuit Breakers
- C37.17-1970 Tripping Devices (Releases) for AC and DC Low-Voltage Power Circuit Breakers
- C37.18-1968 Requirements for Field Discharge Circuit Breakers
- C37.19-1963 Safety Requirements for Low-Voltage AC Power Circuit Breakers and Switchgear Assemblies (Excluding Molded-Case Breakers)
- C37.20-1969 Switchgear Assemblies Including Metal Enclosed Bus
- (IEEE Std 27-1969)
- C37.27-1971 Application Guide for Low-Voltage AC Non-Integrally Fused Power Circuit Breakers (Using Separately Mounted Current-Limiting Fuses)
- (IEEE Std 331-1972)
- C37.28-1969 Low-Voltage AC Integrally Fused Power Circuit Breakers
- C37.29-1970 Low-Voltage AC Power Service Protectors

This application guide represents the standard practice in the United States relating to combination of low-voltage ac power circuit breakers (see American National Standard C37.13-1963) and low-voltage ac current-limiting Class J and L cartridge fuses (see NEMA Standard on Low-Voltage Fuses, FU 1-1966). This application guide specifically does not cover the combination of molded case circuit breakers and low-voltage current-limiting fuses.

As contrasted to low-voltage ac integrally fused power circuit breakers covered by American National Standard C37.28-1969 which have the current-limiting fuses mounted integrally on the low-voltage ac circuit breaker, this application guide covers the combination of low-voltage air circuit breakers and separately mounted current-limiting fuses which together function as a coordinated protective device.

Reference should be made to American National Standard C37.15-1954 for low-voltage ac circuit breaker control voltages and their ranges, to American National Standard voltage ac circuit breakers, and to NEMA Standard FU 1-1966 for low-voltage cartridge fuses.

It is the policy of both the Institute of Electrical and Electronics Engineers and American National Standards Committee C37 to maintain this standard current with the state of the technology. Comments on this standard, as well as suggestions for additional material that should be included are invited. These should be addressed to the American National Standards Institute, 1430 Broadway, New York, N.Y. 10018, with copy to the Secretary, IEEE Standards Committee, Institute of Electrical and Electronics Engineers, 345 East 47th Street, New York, N.Y. 10017.

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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