

American National Standard

service conditions and definitions for
high-voltage fuses, distribution enclosed
single-pole air switches,
fuse disconnecting switches, and accessories

ANSI/IEEE C37.40-1981



american national standards institute, inc.

December 9, 1981

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Insert this definition alphabetically in Section 3.1:

slant-voltage-rated (multiple-voltage-rated) distribution cutout. A distribution cutout intended primarily for application on three-phase solidly grounded neutral (multigrounded) systems where prescribed conditions exist. (See ANSI/IEEE C37.40-1981, 3.2, **slant-voltage (multiple-voltage) ratings of a distribution cutout.**)

Insert this definition alphabetically in Section 3.2:

slant-voltage (multiple-voltage) ratings of a distribution cutout. A pair of maximum voltage ratings assigned to a distribution cutout intended primarily for application on three-phase solidly

grounded neutral (multigrounded) systems* where construction conditions are such that two cutouts will normally operate in series to clear phase-to-phase faults. In applying these cutouts, the system line-to-line voltage must be equal to or less than the maximum voltage rating to the right of the slant (/), and the system line-to-ground voltage must be equal to or less than the maximum voltage rating to the left of the slant (/).

For application in other systems and for more complete application guidance, refer to ANSI/IEEE C37.48-1987, 3.7.2.

*Slant-voltage-rated cutouts may be used in single-phase applications where the normal frequency recovery voltage across the cutout does not exceed the maximum voltage rating to the left of the slant (/).

Approved June 11, 1987
IEEE Standards Board

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An American National Standard

**IEEE Standard Service Conditions and
Definitions for High-Voltage Fuses,
Distribution Enclosed Single-Pole Air Switches,
Fuse Disconnecting Switches, and Accessories**

Sponsor

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

Approved September 18, 1980

IEEE Standards Board

Secretariat

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

Approved January 12, 1981

American National Standards Institute

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Foreword

(This Foreword is not a part of ANSI/IEEE C37.40-1981, IEEE Standard Service Conditions and Definitions for High-Voltage Fuses, Distribution Enclosed Single-Pole Air Switches, Fuse Disconnecting Switches, and Accessories.)

This standard is a revision of ANSI C37.40-1969 to bring it up to date and in line with present day requirements for high-voltage fuses and switches. The expanded coverage of current limiting fuses broadens its applicability.

This standard was prepared by the C37 Subcommittee on High-Voltage Fuses with cooperation from the IEEE Subcommittee on High-Voltage Fuses and National Electrical Manufacturers Association (NEMA). Liaison was maintained with Edison Electric Institute (EEI) and International Electrotechnical Commission (IEC) during the development of the revisions in order to incorporate the latest thinking up to the time of publication.

This standard is one of a series of complementary American National Standards covering various type of high-voltage fuses and switches, so arranged that certain of the standards apply to all devices while each of the other standards provide additional specifications for a particular device. For any device ANSI/IEEE C37.40-1981, ANSI/IEEE C37.41-1981 plus the additional standard covering that device constitute a complete standard for the device. In addition, ANSI C37.48-1969 is an application, operation, and maintenance guide for all the devices.

The following American National Standards make up this series:

ANSI/IEEE C37.40-1981, Service Conditions and Definitions for High-Voltage Fuses, Distribution Enclosed Single-Pole Air Switches, Fuse Disconnecting Switches, and Accessories

ANSI/IEEE C37.41-1981, Design Tests for High-Voltage Fuses, Distribution Enclosed Single-Pole Air Switches, Fuse Disconnecting Switches, and Accessories

ANSI C37.42-1981, Specifications for Distribution Cutouts and Fuse Links¹

ANSI C37.44-1981, Specifications for Distribution Oil Cutouts and Fuse Links

ANSI C37.45-1981, Specifications for Distribution Enclosed Single-Pole Air Switches

ANSI C37.46-1981, Specifications for Power Fuses and Fuse Disconnecting Switches

ANSI C37.47-1981, Specifications for Distribution Fuse Disconnecting Switches, Fuse Supports, and Current Limiting Fuses

ANSI C37.48-1969, Guide for Application, Operation, and Maintenance of Distribution Cutouts and Fuse Links, Secondary Fuses, Distribution Enclosed Single-Pole Air Switches, Power Fuses, Fuse Disconnecting Switches, and Accessories

Suggestions for improvement gained in the use of this standard will be welcome. They should be sent to:

American National Standards Institute
1430 Broadway
New York, NY 10018

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

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W. E. Laubach, *Executive Vice-Chairman of Low Voltage Switchgear Standards*

S. H. Telender, *Executive Vice-Chairman of IEC Activities*

Organization Represented

Name of Representative

Association of American Railroads Vacant

Association of Iron and Steel Engineers J. M. Tillman

¹This revision includes pertinent data formerly contained in ANSI C37.43-1969. The C37.43 standard is dropped as redundant.

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At the time this standard was approved, the IEEE High-Voltage Fuse Subcommittee of the Switchgear Committee had the following membership:

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