



# IEEE Standard Specifications for High-Voltage Distribution Class Enclosed Single-Pole Air Switches with Rated Voltages from 1 kV through 8.3 kV

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**IEEE Power Engineering Society**

Sponsored by the  
Switchgear Committee

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**Abstract:** Specifications for high-voltage (above 1000 V) distribution class enclosed single-pole air switches and associated accessories with rated voltages from 1 kV through 8.3 kV are established. All of these devices are intended for use on alternating current distribution systems. These include distribution class enclosed single-pole air switches, supports, mountings, fuse hooks, and tongs, all of the type used exclusively with distribution class enclosed single-pole air switches, and distribution class enclosed single-pole air switches used in enclosure packages.

**Keywords:** alternating current distribution systems, distribution class enclosed air switches, enclosure packages, fuse hooks, supports and mountings, tongs

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## Introduction

This introduction is not part of IEEE Std C37.45-2007, IEEE Standard Specifications for High-Voltage Distribution Class Enclosed Single-Pole Air Switches with Rated Voltages from 1 kV through 8.3 kV.

This standard is a revision of American National Standard Specifications for Distribution Enclosed Single-Pole Air Switches, ANSI C37.45-1981(Reaff 1992), to bring it up to date and in line with present-day requirements for high-voltage switches. This standard was previously developed by the NEMA High Voltage Fuse Technical Committee (SG2). As of 2003, the responsibility for this standard has been transferred to the IEEE High-Voltage Fuse Subcommittee. Liaison was maintained with the 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 standards covering various types of high-voltage fuses and switches, arranged so that some of the standards apply to all devices and other standards provide additional specifications for a particular device.

The following standards make up this series:

ANSI C37.42™-1996, American National Standard Specification for High-Voltage Expulsion Type Distribution Class Fuses, Cutouts, Fuse Disconnecting Switches and Fuse Links

ANSI C37.46™-2000, American National Standard for High Voltage Expulsion and Current-Limiting Type Power Class Fuses and Fuse Disconnecting Switches

ANSI C37.47™-2000, American National Standard for High Voltage Current-Limiting Type Distribution Class Fuses and Fuse Disconnecting Switches

IEEE Std C37™.40-2003, IEEE Standard Service Conditions and Definitions for High-Voltage Fuses, Distribution Enclosed Single-Pole Air Switches, Fuse Disconnecting Switches, and Accessories

IEEE Std C37.41™-2000, IEEE Standard Design Tests for High-Voltage Fuses, Distribution Enclosed Single-Pole Air Switches, Fuse Disconnecting Switches, and Accessories

IEEE Std C37.48™-2005, IEEE Guide for Application, Operation, and Maintenance of High Voltage Fuses, Distribution Enclosed Single-Pole Air Switches, Fuse Disconnecting Switches, and Accessories

IEEE Std C37.48.1™-2002, IEEE Guide for the Operation, Classification, Application, and Coordination of Current-Limiting Fuses With Rated Voltages from 1-38 kV

For any device, IEEE Std C37.40™-2003, IEEE Std C37.41-2000, plus the additional standard covering the specifications for that device, constitute a complete set of standards for the device. In addition, IEEE Std C37.48 is an application, operation, and maintenance guide for all the devices, and IEEE Std C37.48.1-2002 provides additional guidelines for current-limiting fuses.

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