



ANSI/NEMA C37.58-2003 (R2010)

American National
Standard for Switchgear
- Indoor AC Medium-
Voltage Switches for
Use in Metal-Enclosed
Switchgear -
Conformance Test
Procedures



National Electrical Manufacturers Association
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Secretariat:

National Electrical Manufacturers Association

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Foreword (This Foreword is not part of American National Standard C37.58-2003.)

This standard has been developed to describe selected tests and procedures to demonstrate conformance in accordance with Section 5 of IEEE Standard for Indoor AC Medium-Voltage Switches for Use in Metal-Enclosed Switchgear, ANSI/IEEE C37.20.4. To facilitate its use and to permit timely revisions based on experience, a separate document has been provided.

This standard is one of several in a series of test procedures for conformance testing of switchgear products. Although this standard is written for general guidance, performance criteria are established so that this standard can be adopted as the basis for certification of indoor AC medium-voltage switches for use in metal-enclosed switchgear for nonutility installations subject to regulation by public authorities and similar agencies concerned with laws, ordinances, regulations, administrative orders, and similar instruments.

This standard was prepared by a Working Group sponsored by the Power Switchgear Assemblies Technical Committee of the Switchgear Section of the National Electrical Manufacturers Association (NEMA SG 5). During the course of its preparation, coordination has been maintained with the Power Switching Equipment Technical Committee of the Switchgear Section of the National Electrical Manufacturers Association (NEMA SG 6) and the Switchgear Committee of the Power Engineering Society of the Institute of Electrical and Electronics Engineers.

Suggestions for improvement of this standard will be welcome. They should be sent to the National Electrical Manufacturers Association, 1300 North 17th Street, Suite 1752, Rosslyn, VA 22209.

This standard was processed and approved for submittal to ANSI by Accredited Standards Committee on Power Switchgear C37. Committee approval of the standard does not necessarily imply that all committee members voted for its approval. At the time of its approval, the C37 Committee had the following members:

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For Indoor AC Medium-Voltage Switches for Use in Metal-Enclosed Switchgear— Conformance Test Procedures

1 Scope

This standard applies to the conformance test procedure for ac medium-voltage switches rated above 1000 volts as designed, manufactured, and tested in accordance with ANSI/IEEE C37.20.4. It is intended for use in metal-clad switchgear, as described in ANSI/IEEE C37.20.2, and metal-enclosed interrupter switchgear, as described in ANSI/IEEE C37.20.3.

Conformance testing need not be performed but may be utilized to demonstrate that the switches conform with the ratings assigned, as agreeable to those concerned, usually some time after original design testing, to satisfy a specific need.

This standard does not apply to installations under the exclusive control of electric utilities for the generation, control, transformation, transmission, and distribution of electric energy located in buildings used exclusively by utilities for such purposes or located outdoors on property owned or leased by the utility or on public highways, streets, roads, and the like, or outdoors by established rights on private property.

NOTE 1—An electric utility is an entity that is overseen by a public utility commission, a public service commission, or other regulatory agency having jurisdiction for such installations.

NOTE 2—Within this standard, the words “switch” or “switches” shall be considered to mean “indoor ac medium-voltage switches for use in enclosures” subject to the requirements of ANSI/IEEE C37.20.4.

2 Referenced and Related Standards

2.1 Referenced American National Standards

This standard is intended to be used in conjunction with the following American National Standards. When these standards are superseded by a revision approved by the American National Standards Institute, Inc, the revision shall apply.

ANSI C37.22-1997 (R2003), *Preferred Ratings and Related Required Capabilities for Indoor AC Medium-Voltage Switches Used in Metal-Enclosed Switchgear*¹

ANSI C37.55-2003, *Conformance Test Procedure for Metal-Clad Switchgear*

ANSI C37.57-2003, *Conformance Testing of Metal-Enclosed Interrupter Switchgear Assemblies*

¹ ANSI publications are available from American National Standards Institute, 11 West 42nd Street, 13th Floor, New York, NY 10036, USA.