

An American National Standard

**IEEE Standard Requirements for Overhead,
Pad-Mounted, Dry-Vault, and Submersible
Automatic Line Sectionalizers for AC Systems**

Sponsor

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

Secretariat

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

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Foreword

(This Foreword is not a part of ANSI/IEEE C37.63-1984, IEEE Standard Requirements for Overhead, Pad-Mounted, Dry-Vault, and Submersible Automatic Line Sectionalizers for AC Systems.)

This standard is a revised and updated version of ANSI C37.63-1969 (R 1974), which incorporates significant improvements that reflect the present state of the art in sectionalizers. These improvements include changes and additions in the following areas:

- (1) Expansion of the standard to include pad-mounted and submersible sectionalizers;
- (2) Inclusion of information for sectionalizers utilizing vacuum interrupters;
- (3) New and expanded information related to interrupting tests, particularly for (a) cable charging currents, (b) transformer magnetizing currents, and (c) load currents;
- (4) The addition of surge withstand capability requirements for sectionalizer control elements;
- (5) Expanded production test requirements.

Also included is the recognition of the need for partial discharge tests for some type of sectionalizers. While the procedure and related requirements have not yet been finalized (see 6.7), effort is presently underway to develop this information, and it will be published after it has been completed and has gone through the full approval process.

The preparation of ANSI C37.63-1984 was the cooperative work of the IEEE Switchgear Committee (Reclosers and Sectionalizer Subcommittee), the NEMA Switchgear Section (SG 13—Automatic Circuit Reclosers Technical Committee), and the C37 Subcommittee on Automatic Circuit Reclosers and Line Sectionalizers.

Upon recommendation of this latter subcommittee, the proposed American National Standard was voted on by Standards Committee C37 on Power Switchgear and was subsequently approved as an American National 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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