

IEEE Power Switchgear, Circuits & Fuses Standards Collection: VuSpec™

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Summary

IEEE Power Switchgear, Circuits & Fuses Standards Collection: VuSpec represents the most complete resource available for professional engineers looking for best practices and techniques covering design, construction and operation of devices or assembled gear to establish, interrupt, or change connections in any electric circuit under normal or abnormal conditions.

Areas covered are:

- Automatic reclosers and sectionalizers
- Fuses and cutouts
- Gas-Insulated Switchgear (aka GIS)
- Switches, switchgear assemblies and devices
- Insulation, insulators and hardware for switchgear
- All buses included in switchgear assemblies
- Power circuit breakers

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Includes 89 active IEEE Standards, Guides, Recommended Practices and Corrigendums in PDF format.

- IEEE Std 1247- 2005, IEEE Standard for Interrupter Switches for Alternating Current, Rated Above 1000 Volts
- IEC/IEEE 62271-37-082:2012(E), High-voltage switchgear and controlgear - Part 37-082: Standard practice for the measurement of sound pressure levels on alternating current circuit-breakers
- IEEE/ISO/IEC 62271-111-2005 - IEC 62271-111 Ed.1 (IEEE Std C37.60-2003-Compilation): High Voltage Switchgear and Control gear Part 111: Overhead, Pad-Mounted, Dry Vault, and Submersible Automatic Circuit Reclosers and Fault Interrupters for alternating current systems up to 38 kV
- IEEE Std C37.04-1999 (R2006), IEEE Standard Rating Structure for AC High-Voltage Circuit Breakers
- IEEE Std C37.04a-2003 (R2006), IEEE Standard Rating AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis - Amendment 1: Capacitance Current Switching
- C37.04b-2008 - IEEE Standard for Rating Structure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis Amendment 2: To Change the Description of Transient Recovery Voltage for Harmonization with IEC 62271-100

- IEEE Std C37.06-2009, IEEE Standard for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis -Preferred Rating and Related Required Capabilities for Voltages Above 1000V
- ANSI C37.06.1-2000, Guide for High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis Designated "Definite Purpose for Fast Transient Recovery Voltage Rise Times"
- IEEE Std C37.09-1999 (R2007), IEEE Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis
- IEEE Std C37.09-1999/Cor1-2007, IEEE Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis Corrigendum 1
- IEEE Std C37.09a-2005 (R2007), IEEE Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis Amendment 1: Capacitance Current Switching
- IEEE Std C37.09b-2010 (Amendment to IEEE Std C37.09-1999) - IEEE Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis -- Amendment 2: To Change the Description of Transient Recovery Voltage for Harmonization with IEC 62271-100
- IEEE Std C37.010-1999, IEEE Application Guide for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis
- IEEE Std C37.011-2011, IEEE Application Guide for Transient Recovery Voltage for AC High-Voltage Circuit Breakers
- IEEE Std C37.012-2005, IEEE Application Guide for Capacitance Current Switching for AC High-Voltage Circuit Breakers
- IEEE Std C37.013-1997 (R2008), IEEE Standard for AC High-Voltage Generator Circuit Breakers Rated on a Symmetrical Current Basis
- IEEE Std C37.013a-2007, IEEE Standard for AC High Voltage Generator Circuit Breakers Rated on a Symmetrical Current Basis - Amendment 1: Supplement for Use with Generators Rated 10-100 MVA
- IEEE Std C37.015-2009, IEEE Guide for the Application of Shunt Reactor Switching
- IEEE Std C37.016-2006, IEEE Standard for AC High-Voltage Circuit Switcher rated 15.5 kV through 245 kV
- IEEE Std C37.017-2010 Standard for Bushings for High Voltage (over 1000 Volts ac) Circuit Breakers and Gas Insulated Switchgear
- IEEE Std C37.081-1981 (R2007), IEEE Guide for Synthetic Fault Testing of AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis
- IEEE Std C37.081a-1997 (R2007), Supplement to IEEE Guide for Synthetic Fault Testing of AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis 8.3.2: Recovery Voltage for Terminal Faults; Asymmetrical Short-Circuit Current
- IEEE Std C37.083-1999 (R2007), IEEE Guide for Synthetic Capacitive Current Switching Tests of AC High-Voltage Circuit Breakers
- IEEE Std C37.10-2011, IEEE Guide for Diagnostics and Failure Investigation of Power Circuit Breakers
- IEEE Std C37.10.1-2000 (R2006), IEEE Guide for the Selection of Monitoring for Circuit Breakers

- IEEE Std C37.11-1997 (R2003), IEEE Standard Requirements for Electrical Control for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis
- IEEE Std C37.12-2008, IEEE Guide for Specifications of High-Voltage Circuit Breakers (over 1000 Volts)
- IEEE Std C37.12.1-2007, IEEE Guide for High-Voltage (>1000 V) Circuit Breaker Instruction Manual Content
- IEEE Std C37.13-2008, IEEE Standard for Low-Voltage AC Power Circuit Breakers Used in Enclosures
- IEEE Std C37.13a-2012 - IEEE Standard for Low-Voltage AC Power Circuit Breakers Used in Enclosures Amendment 1: Increase of Voltages to 1000 V AC and Below
- IEEE Std C37.13.1-2006, IEEE Standard for Definite-Purpose Switching Devices for Use in Metal-Enclosed Low-Voltage Power Circuit Breaker Switchgear
- IEEE Std C37.13.1a-2010, IEEE Standard for Definite-Purpose Switching Devices for Use in Metal-Enclosed Low-Voltage Power Circuit Breaker Switchgear Amendment 1: Revise Short-Circuit Rating and Test Requirement
- IEEE Std C37.14-2002 (R2008), IEEE Standard for Low-Voltage DC Power Circuit Breakers Used in Enclosures
- IEEE Std C37.16-2009, IEEE Standard for Preferred Ratings, Related Requirements, and Application Recommendations for Low-Voltage AC (635 V and below) and DC (3200 V and below) Power Circuit Breakers
- IEEE Std C37.17-2012, American National Standard for Trip Devices for AC and General Purpose DC Low Voltage Power Circuit Breakers
- IEEE Std C37.20.1-2002 (R2007), IEEE Standard for Metal-Enclosed Low-Voltage Power Circuit Breaker Switchgear
- IEEE Std C37.20.1a-2005 (R2007) (Amendment to IEEE Std C37.20.1-2002), IEEE Standard for Metal-Enclosed Low-Voltage Power Circuit Breaker Switchgear; Amendment 1: Short-Time and Short-Circuit Withstand Current Tests-Minimum Areas for Multiple Cable Connections
- IEEE Std C37.20.1b-2006 (R2007) (Amendment to IEEE Std C37.20.1-2002), IEEE Standard for Metal-Enclosed Low Voltage Power Circuit Breaker Switchgear; Amendment 2: Additional Requirements for Control and Auxiliary Power Wiring in DC Traction Power Switchgear
- IEEE Std C37.20.2-1999 (R2005), IEEE Standard for Metal-Clad Switchgear
- IEEE Std C37.20.3-2001 (R2006), IEEE Standard for Metal-Enclosed Interrupter Switchgear
- IEEE Std C37.20.4-2013, IEEE Standard for Indoor AC Switches (1kV- 38kV) for Use in Metal-Enclosed Switchgear
- IEEE Std C37.20.6-2007, IEEE Standard for 4.76 kV to 38kV Rated Grounding and Testing Devices Used in Enclosures
- IEEE Std C37.20.7-2007, IEEE Guide for Testing Medium-Voltage Metal-Enclosed Switchgear for Internal Arcing Faults
- IEEE Std C37.20.7-2007/Cor1-2010 - IEEE Guide for Testing Metal-Enclosed Switchgear Rated Up to 38 kV for Internal Arcing Faults
- IEEE Std C37.21-2005, IEEE Standard for Control Switchboards
- IEEE Std C37.23-2003 (R2008), IEEE Standard for Metal Enclosed Bus

- IEEE Std C37.24-2003 (R2008), IEEE Guide for Evaluating the Effect of Solar Radiation on Outdoor Metal-Enclosed Switchgear
- IEEE Std C37.26-2003 (R2009), IEEE Guide for Methods of Power Factor Measurement for Low-Voltage Inductive Test Circuits
- IEEE Std C37.27-2008, IEEE Application Guide for Low- Voltage AC Power Circuit Breakers Applied with Separately` -Mounted Current-Limiting Fuses
- IEEE Std C37.30-1997, IEEE Standard Requirements for High-Voltage Switches
- ANSI C37.32-2002, American National Standard for High Voltage Switches, Bus Supports, and Accessories Schedules of Preferred Ratings, Construction Guidelines, and Specifications
- IEEE Std C37.34-1994, IEEE Standard Test Code for High-Voltage Air Switches
- IEEE Std C37.35-1995, IEEE Guide for the Application, Installation, Operation and Maintenance of High Voltage Air Disconnecting and Interrupter Switches
- IEEE Std C37.36b-1990 (R1996), IEEE Guide to Current Interruption with Horn-Gap Air Switches
- IEEE Std C37.37-1996, IEEE Loading Guide for AC High-Voltage Air Switches (in Excess of 1000 V)
- IEEE Std C37.40-2003 (2009), IEEE Standard Service Conditions and Definitions for High-Voltage Fuses, Distribution Enclosed Single- Pole Air Switches, Fuse Disconnecting Switches, and Accessories
- IEEE Std C37.41-2008, IEEE Standard Design Tests for High- Voltage Fuses, Distribution Enclosed Single-Pole Air Switches, Fuse Disconnecting Switches, and Accessories
- IEEE Std C37.42-2009, IEEE Standard Specifications for High- Voltage (>1000V) Expulsion Type Distribution-Class Fuses, Fuse and Disconnecting Cutouts, Fuse Disconnecting Switches and Fuse Links, and Accessories Used with These Devices
- IEEE Std C37.43-2008 - IEEE Standard Specifications for High-Voltage Expulsion, Current-Limiting, and Combination-Type Distribution and Power Class External Fuses, with Rated Voltages from 1 kV through 38 kV, Used for the Protection of Shunt Capacitors
- 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
- IEEE Std C37.46- 2010, American National Standard for High Voltage Expulsion and Current-Limiting Type Power Class Fuses and Fuse Disconnecting Switches
- ANSI Std C37.47- 2011, American National Standard for High Voltage Current-Limiting Type Distribution Class Fuses and Fuse Disconnecting Switches
- IEEE Std C37.48-2005 (2010), IEEE Guide for the Application, Operation, and Maintenance of High-Voltage Fuses, Distribution Enclosed Single- Pole Air Switches, Fuse Disconnecting Switches, and Accessories

- IEEE Std C37.48.1- 2011, IEEE Guide for the Operation, Classification, Application, and Coordination of Current-Limiting Fuses with Rated Voltages 1-38 kV
- ANSI Std C37.50-2012, American National Standard for Switchgear — Low-Voltage AC Power Circuit Breakers Used in Enclosures; Test Procedures
- ANSI Std C37.51-2003 (R2010), American National Standard for Switchgear — Metal-Enclosed Low-Voltage AC Power-Circuit Breaker Switchgear Assemblies; Conformance Test Procedures
- ANSI Std C37.53.1-1989 (R1996), American National Standard High-Voltage Current-Limiting Motor-Starter Fuses - Conference Test Procedures
- C37.54-2002 (R2010) American National Standard for Indoor Alternating Current High-Voltage Circuit Breakers Applied as Removable Elements in Metal-Enclosed Switchgear—Conformance Test Procedures
- C37.55-2002 (R2010) American National Standard for Switchgear—Medium-Voltage Metal-Clad Assemblies—Conformance Test Procedures
- C37.57-2003 (R2010) American National Standard for Switchgear—Metal-Enclosed Interrupter Switchgear Assemblies—Conformance Testing
- C37.58-2003 (R2010) American National Standard for Switchgear—Indoor AC Medium-Voltage Switches for Use in Metal-Enclosed Switchgear—Conformance Test Procedures
- IEEE C37.59.2007, IEEE Standard Requirements for Conversion of Power Switchgear Equipment
- IEEE Std C37.60-2012 - IEEE Standard for High-voltage switchgear and controlgear - Part 111: Automatic circuit reclosers and fault interrupters for alternating current systems up to 38 kV
- IEEE Std C37.63-2013 - IEEE Standard Requirements for Overhead, Pad-Mounted, Dry-Vault, and Submersible Automatic Line Sectionalizers for AC Systems
- IEEE Std C37.66-2005 - IEEE Standard Requirements for Capacitor Switches for AC Systems (1 kV to 38 kV)
- IEEE Std C37.74-2003 - IEEE Standard Requirements for Subsurface, Vault, and Pad-Mounted Load-Interrupter Switchgear and Fused Load-Interrupter Switchgear for Alternating Current Systems up
- ANSI/IEEE C37.82-1987 (R2009) - IEEE Standard for the Qualification of Switchgear Assemblies for Class 1E Applications in Nuclear Power Generating Stations
- ANSI Std C37.85-2002 (R2010) - American National Standard for Switchgear--Alternating-Current High-Voltage Power Vacuum Interrupters--Safety Requirements for X-Radiation Limits
- IEEE C37.100-1992 (R2001) - IEEE Standard Definitions for Power Switchgear
- IEEE C37.100.1-2007 - IEEE Standard of Common Requirements for High Voltage Power Switchgear Rated Above 1000 V
- IEEE Std C37.122-2010 - IEEE Standard for High Voltage Gas-Insulated Substations Rated Above 52 kV
- IEEE Std C37.122.1-1993 (R2002) - IEEE Guide for Gas-Insulated Substations

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- IEEE Std C37.122.2-2011 - IEEE Guide for the Application of Gas-Insulated Substations 1 kV to 52 kV
- IEEE Std C37.122.3-2011 - IEEE Guide for Sulphur Hexafluoride (SF6) Gas Handling for High-Voltage (over 1000 Vac) Equipment
- IEEE Std C37.301-2009 - IEEE Standard for High-Voltage Switchgear (Above 1000 V) Test Techniques - Partial Discharge Measurements

Bonus Features

- New VuSpec™ Series Interface: Starts Automatically in Your Web Browser with Free Adobe Reader Software
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