Notice of New Standard Products

Title: IEEE Power, Distribution & Regulating Transformers Collection: VuSpec™

Summary (Abstract):

IEEE Power, Distribution and Regulatory Transformer Collection: VuSpec™ contains the latest standards, guides, and recommended practices of the Institute of Electrical and Electronics Engineers, Inc. (IEEE) Transformers Committee. It also contains IEEE C57 series of standards. This collection represents the most complete resource available for professional engineers looking for best practices and techniques covering testing, repair, installation, operation, and maintenance of transformers, reactors, and associated components that are used within the electric utility and industrial power systems. These standards provide crucial service to society's need for continuing development and maintenance of a reliable, safe, and efficient power system infrastructure.

Table of Contents:

Includes 104 active IEEE standards for Power Distribution & Regulating Transformers family.

- IEEE Std 4-2012, IEEE Standard for High-Voltage Testing Techniques
- IEEE Std 638™-2013, IEEE Standard for Qualification of Class 1E Transformers for Nuclear Power Generating Stations
- IEEE Std 1277™-2010, IEEE Standard General Requirements and Test Code for Dry-Type and Oil-Immersed Smoothing Reactors for DC Power Transmission
- IEEE Std C57.12.01™-2015, IEEE Standard for General Requirements for Dry-Type Distribution and Power Transformers
- IEEE Std C57.12.10™-2010, IEEE Standard Requirements for Liquid-Immersed Power Transformers
- IEEE Std C57.12.10™-2010, Errata to IEEE Standard Requirements for Liquid-Immersed Power Transformers
- IEEE Std C57.12.10™-2010/Cor 1-2012, IEEE Standard Requirements for Liquid-Immersed Power Transformers Corrigendum 1: Correction of 5.1.9 Sudden Pressure Relay
• IEEE Std C57.12.10™-2010/Cor 2-2013, IEEE Standard Requirements for Liquid-Immersed Power Transformers Corrigendum 2: Correction of A.3.2.13 Autotransformer LTC application considerations

• IEEE Std C57.12.20™-2011, IEEE Standard for Overhead-Type Distribution Transformers 500 kVA and Smaller: High Voltage, 34 500 V and Below; Low Voltage, 7970/13 800Y V and Below


• IEEE Std C57.12.24™-2009, IEEE Standard for Submersible, Three-Phase Transformers, 3750 kVA and Smaller; High Voltage, 34 500 GrdY/19 920 Volts and Below; Low Voltage, 600 Volts and Below

• IEEE Std C57.12.28™-2014, IEEE Standard for Pad-Mounted Equipment-Enclosure Integrity

• IEEE Std C57.12.29™-2014, IEEE Standard for Pad-Mounted Equipment-Enclosure Integrity for Coastal Environments

• IEEE Std C57.12.30™-2010, IEEE Standard for Pole-Mounted Equipment Enclosure Integrity for Coastal Environments

• IEEE Std C57.12.31™-2010, IEEE Standard for Pole-Mounted Equipment-Enclosure Integrity

• IEEE Std C57.12.31™-2010/Cor 1-2014, IEEE Standard for Pole-Mounted Equipment—Enclosure Integrity Corrigendum 1: Correction to the SCAB Corrosion Test in 4.5.6


• IEEE Std C57.12.34™-2015, IEEE Standard Requirements for Pad-Mounted, Compartmental-Type, Self-Cooled, Three-Phase Distribution Transformers, 10 MVA and Smaller; High-Voltage, 34.5 kV Nominal System Voltage and Below; Low-Voltage, 15 kV ...

• IEEE Std C57.12.35™-2013, IEEE Standard Bar Coding for Distribution Transformers and Step-Voltage Regulators

• IEEE Std C57.12.36™-2007, IEEE Standard Requirements for Liquid-Immersed Distribution Substation Transformers


• IEEE Std C57.12.40™-2011, IEEE Standard for Network, Three-Phase Transformers, 2500 kVA and Smaller; High Voltage, 34 500 GrdY/19 920 and Below; Low Voltage, 600 V and Below; Subway and Vault Types (Liquid Immersed)


• IEEE Std C57.12.51™-2008, IEEE Standard for Ventilated Dry-Type Power Transformers, 501 kVA and Larger, Three-Phase, with High-Voltage 601 V to 34 500 V; Low-Voltage 208Y/120 V to 4160 V-General Requirements

• IEEE Std C57.12.52™-2012, IEEE Standard for Sealed Dry-Type Power Transformers, 501 kVA and Higher, Three-Phase, with High-Voltage 601 to 34500 Volts, Low-Voltage 208Y/120 to 4160 Volts-General Requirements

• IEEE Std C57.12.58™-1991 (R2008), IEEE Guide for Conducting a Transient Voltage Analysis of a Dry-Type Transformer Coil

• IEEE Std C57.12.59™-2015, IEEE Guide for Dry-Type Transformer Through-Fault Current Duration


| IEEE Std C57.12.91™-2011, IEEE Standard Test Code for Dry-Type Distribution and Power Transformers |
| IEEE Std C57.13™-2016, IEEE Standard Requirements for Instrument Transformers |
| IEEE Std C57.13.2™-2005 (R2010), IEEE Standard Conformance Test Procedure for Instrument Transformers |
| IEEE Std C57.13.5™-2009, IEEE Standard for Performance and Test Requirements for Instrument Transformers of a Nominal System Voltage of 115 kV and Above |
| IEEE Std C57.16™-2011, IEEE Standard for Requirements, Terminology, and Test Code for Dry-Type Air-Core Series-Connected Reactors |
| IEEE Std C57.17™-2012, IEEE Standard Requirements for Arc Furnace Transformers |
| IEEE Std C57.18.10™-1998 (R2003), Errata to IEEE Standard Practice and Requirements for Semiconductor Power Rectifier Transformers |
| IEEE Std C57.19.00™-2004 (R2010), IEEE Standard General Requirements and Test Procedure for Power Apparatus Bushings |
| IEEE Std C57.19.00™-2004, Errata to IEEE Standard General Requirements and Test Procedure for Power Apparatus Bushings |
| IEEE Std C57.19.01™-2000 (R2005), Interpretation to IEEE Standard Performance Characteristics and Dimensions for Outdoor Apparatus Bushings |
| IEEE Std C57.94™-2015, IEEE Recommended Practice for Installation, Application, Operation, and Maintenance of Dry-Type Distribution and Power Transformers |
| IEEE Std C57.96™-2013, IEEE Guide for Loading Dry-Type Distribution and Power Transformers |


IEEE Std C57.104™-2008, IEEE Guide for the Interpretation of Gases Generated in Oil-Immersed Transformers

IEEE Std C57.105™-1978 (R2008), IEEE Guide for Application of Transformer Connections in Three-Phase Distribution Systems


IEEE Std C57.110™-2008, IEEE Recommended Practice for Establishing Liquid-Filled and Dry-Type Power and Distribution Transformer Capability When Supplying Nonsinusoidal Load Currents


IEEE Std C57.113™-2010, IEEE Recommended Practice for Partial Discharge Measurement in Liquid-Filled Power Transformers and ShuntReactors

IEEE Std C57.116™-2014, IEEE Guide for Transformers Directly Connected to Generators

IEEE Std C57.119™-2001, IEEE Recommended Practice for Performing Temperature Rise Tests on Oil-Immersed Power Transformers at Loads Beyond Nameplate Ratings


IEEE Std C57.124™-1991 (R2002), IEEE Recommended Practice for the Detection of Partial Discharge and the Measurement of Apparent Charge in Dry-Type Transformers


IEEE Std C57.131™-2012, IEEE Standard Requirements for Tap Changers

IEEE Std C57.134™-2013, IEEE Guide for Determination of Hottest-Spot Temperature in Dry-Type Transformers

IEEE Std C57.136™-2000 (R2005), IEEE Guide for Sound Level Abatement and Determination for Liquid-Immersed Power Transformers and ShuntReactors Rated Over 500 kVA
• IEEE Std C57.138™-1998 (R2005), IEEE Recommend Practice for Routine Impulse Test for Distribution Transformers
• IEEE Std C57.139-2015, IEEE Guide for Dissolved Gas Analysis in Transformer Load Tap Changers
• IEEE Std C57.140™-2006, IEEE Guide for the Evaluation and Reconditioning of Liquid Immersed Power Transformers
• IEEE Std C57.142™-2010, IEEE Guide to Describe the Occurrence and Mitigation of Switching Transients Induced by Transformers, Switching Device, and System Interaction
• IEEE Std C57.143™-2012, IEEE Guide for Application for Monitoring Equipment to Liquid-Immersed Transformers and Components
• IEEE Std C57.144™-2004, IEEE Guide for Metric Conversion of Transformer Standards
• IEEE Std C57.146™-2005, IEEE Guide for the Interpretation of Gases Generated in Silicone-Immersed Transformers
• IEEE Std C57.147™-2008, IEEE Guide for Acceptance and Maintenance of Natural Ester Fluids in Transformers
• IEEE Std C57.148™-2011, IEEE Standard for Control Cabinets for Power Transformers
• IEEE Std C57.149™-2012, IEEE Guide for the Application and Interpretation of Frequency Response Analysis for Oil-Immersed Transformers
• IEEE Std C57.150™-2012, IEEE Guide for the Transportation of Transformers and Reactors Rated 10 000 kVA or Higher
• IEEE Std C57.152™-2013, IEEE Guide for Diagnostic Field Testing of Fluid-Filled Power Transformers, Regulators, and Reactors
• IEEE Std C57.153™-2015, IEEE Guide for Paralleling Regulating Transformers
• IEEE Std C57.155™-2014, IEEE Guide for Interpretation of Gases Generated in Natural Ester and Synthetic Ester-Immersed Transformers
• IEEE Std C57.157™-2015, IEEE Guide for Conducting Functional Life Tests on Switch Contacts Used in Insulating Liquid-Immersed Transformers
• IEEE Std C57.163™-2015, IEEE Guide for Establishing Power Transformer Capability while under Geomagnetic Disturbances