

SECTION 26 12 00 {16271}

MEDIUM-VOLTAGE TRANSFORMERS

{PAD-MOUNTED TRANSFORMERS}

This section includes liquid-filled and dry-type pad-mounted distribution transformers with primary voltages between 2 and 34.5 kV, secondary voltages 600 volts and less, and capacity ratings 25 to 2500 kVA. This section does not include pole type distribution transformers mounted in an enclosure on pad.

Manufacturers listed in this section were identified as representative and not as an endorsement for meeting this specification. For additional product information, visit 4Specs at www.4specs.com, ARCAT at www.arcata.com, First Source at www.reedfirstsource.com, SpecSource at www.specsource.com, and Sweets Network at products.construction.com.

This section includes performance, proprietary, and descriptive type specifications. Edit to avoid conflicting requirements.

Contact the CSRF Support Center at supportcenter@csrf.org to submit comments or suggestions for improvements to this specification. Visit the SPECTEXT web site at www.spectext.com for current product announcements.

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes [liquid-filled] [and] [dry-type] pad-mounted distribution transformers.

1.2 REFERENCES

List reference standards included within text of this section. Edit the following for Project conditions.

- A. American National Standards Institute:
1. ANSI C37.47 - American National Standard Specifications for Distribution Fuse Disconnecting Switches, Fuse Supports, and Current-Limiting Fuses.
 2. ANSI C57.12.26 - Pad-Mounted Compartmental-Type, Self-Cooled, Three-Phase Distribution Transformers for Use with Separable Insulated High-Voltage Connectors, High Voltage, 34 500 Grd Y/19 920 Volts and Below; 2500 kVA and Smaller.
 3. ANSI C57.12.28 - Pad-Mounted Equipment - Enclosure Integrity.
 4. ANSI C57.12.55 - Dry Type Transformers in Unit Installations, Including Unit Substations-Conformance Standard.
- B. Institute of Electrical and Electronics Engineers:

1. IEEE 386 - Standard for Separable Insulated Connector Systems for Power Distribution Systems Above 600 V.
 2. IEEE C57.12.00 - Standard General Requirements for Liquid-Immersed Distribution, Power, and Regulating Transformers.
 3. IEEE C57.12.90 - Standard Test Code for Liquid-Immersed Distribution, Power, and Regulating Transformers and IEEE Guide for Short Circuit Testing of Distribution and Power Transformers.
 4. IEEE C57.12.91 - Standard Test Code for Dry-Type Distribution and Power Transformers.
 5. IEEE C57.13 - Standard Requirements for Instrument Transformers.
 6. IEEE C57.94 - Recommended Practice for Installation, Application, Operation, and Maintenance of Dry-Type General Purpose Distribution and Power Transformers.
 7. IEEE C57.106 - Guide for Acceptance and Maintenance of Insulating Oil in Equipment.
 8. IEEE C57.111 - Guide for Acceptance of Silicone Insulating Fluid and Its Maintenance in Transformers.
 9. IEEE C57-121 - Guide for Acceptance and Maintenance of Less-Flammable Hydrocarbon Fluid in Transformers.
- C. National Electrical Manufacturers Association:
1. NEMA 260 - Safety Labels for Padmounted Switchgear and Transformers Sited in Public Areas.
 2. NEMA AB 1 - Molded Case Circuit Breakers and Molded Case Switches.
- D. International Electrical Testing Association:
1. NETA ATS - Acceptance Testing Specifications for Electrical Power Distribution Equipment and Systems.

1.3 SUBMITTALS

Only request submittals needed to verify compliance with Project requirements.

- A. Section 01 33 00 - Submittal Procedures {01330 - Submittal Procedures}: Submittal procedures.
- B. Shop Drawings: Indicate electrical characteristics and connection requirements, outline dimensions, connection and support points, weight, specified ratings and materials.
- C. Product Data: Submit electrical characteristics and connection requirements, standard model design tests, and options.
- D. Test Reports: Indicate procedures and results for specified factory and field testing and inspection.
- E. Manufacturer's Field Reports: Indicate activities on site, [final adjustments and overcurrent protective device coordination curves,] adverse findings, and recommendations.