



26 2213 –
Low-Voltage Distribution Transformers

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Last Update: May 12, 2017

A. Specifications

1. Standards
 - a. NEMA TP-1
 - b. NEMA Premium
 - c. DOE CSL-3 efficiency
 - d. Transformers should be rated for no more than an 115 deg. C temperature rise
 - e. Transformer sound level shall be guaranteed not to exceed NEMA standards
2. Transformer shall have primary voltage taps.
 - a. Provide a minimum of 4 at 2-1/2% steps
 - b. 2-FCAN and 2-FCBN
3. Termination compartments.
 - a. Indoor type shall be Extra large
 - b. Exterior type shall be equipped with "Drip-proof" weather shield.
4. Transformers shall have electrostatic shielding when specified.
5. Insulation System
 - a. 220° C
 - b. VPI (Vacuum Pressure Impregnated)
6. Cores
 - a. Steel laminated cores
7. Windings
 - a. Primary and Secondary windings shall be copper or aluminum.

B. Installation

1. Transformer core to be visibly grounded to frame.
2. Do not install below mechanical systems that could leak unless a "Drip-proof" weather shield is specified
3. Do not stack transformers one above the other
4. Transformers shall be supplied with a heavy duty safety switch, appropriately sized for the primary side. The disconnect switch shall be installed within sight of the transformer. Show this disconnect on the riser diagram and on the floor plan.

C. Approved Manufactures:

1. ABB
2. ACME
3. Siemens



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4. SOLA HEVI-DUTY
5. Square D (Sorgel)
6. Eaton