

SECTION 16540

INTERIOR TRANSFORMERS

PART 1 - GENERAL

1.1 **GENERAL**

- A. The provisions of Section 16010 General Requirements for Electrical Work apply to the Work of this Section.

1.2 **CODES AND STANDARDS**

- A. Products shall comply with the following codes and standards and shall be UL-listed and labeled:

ANSI C89.2	Dry Type Transformer for General Applications
UL 1561	Dry Type General Purpose and Power Transformers

1.3 **SUBMITTALS**

- A. Manufacturer's product data sheets indicating weights, dimensions, voltage, KVA, impedance ratings, efficiency at 25, 50, 75, and 100 percent load, rated temperature rise, sound level rating and insulation system.

1.4 **MANUFACTURERS**

- A. Subject to compliance with the Specification requirements.

Square D
Westinghouse
General Electric
Siemens

PART 2 - PRODUCTS

2.1 **GENERAL**

- A. Interior transformers shall be of the sizes, and ratings shown on the Drawings.
- B. Transformers shall be general purpose dry type, self-cooled. Transformers 9 KVA and smaller shall be non-ventilated, unless otherwise noted on the Drawings. Transformers 15 KVA and larger shall be ventilated. Ventilating transformers installed outdoors shall be provided with NEMA 3R enclosures.
- C. Transformer sound levels shall meet NEMA/ANSI standard requirements, measured in accordance with ANSI standards. Provide integral vibration and noise dampening supports.
- D. Transformers 15 KVA and larger shall have 220 degrees C insulation system with temperature rise not exceeding 150 degrees C under full-rated load in maximum ambient of

40 degrees C. Transformers less than 15 KVA shall have 180 degrees C insulation with a 150 degrees C temperature rise.

- E. Provide transformers with 6 full capacity taps, 2 at 2-1/2% above rated primary voltage and 4 at 2-1/2% below rated primary voltage.

PART 3 - EXECUTION

3.1 INSTALLATION AND TESTING

- A. Transformers shall be installed in accordance with Section 16050 Installation of Electrical Equipment.
- B. Transformers shall be tested in accordance with Section 16030 Electrical Acceptance Testing.

END OF SECTION 16540