

Part 1 General

1.1 RELATED WORK

- .1 Section 26 00 10 – Basic Electrical Materials and Methods
- .2 Section 26 05 25 – Grounding

1.2 SUBMITTALS

- .1 Submit product data in accordance with Section 26 00 10.

Part 2 Products

2.1 MATERIALS

- .1 Dry-type transformers: to CSA C9-M1981 and CAN/CSAC-802.2-00 and USA NEMA TP-1, or latest revision.
- .2 Use distribution transformers of one manufacturer throughout project.

2.2 TRANSFORMERS – VENTILATED

- .1 Type: ANN.
- .2 3-phase, 600V Delta, primary 120/280V “Y”, secondary 60 Hz.
- .3 kVA capacities as indicated.
- .4 150°C (302°F) temperature rise insulation system.
- .5 Basic Impulse Level (BIL): standard.
- .6 Hi-pot: standard.
- .7 Average sound level: standard.
- .8 Impedance at 170°C (338°F): standard.
- .9 Enclosure: air ventilated sprinklerproof NEMA/CSA (type 3R enclosures and labelled accordingly), removable metal front panel. Rear panel shall be unremovable.
- .10 Mounting: floor, wall or ceiling suspended as indicated.
- .11 Finish: in accordance with Section 26 00 10.
- .12 Primary taps: two 2 ½% FCAN and two 2 ½% FCBN.
- .13 Windings: copper.

2.3 TRANSFORMERS – NON-VENTILATED

- .1 Epoxy potted.
- .2 3-phase, 600V Delta, primary 120/208V “Y”, secondary 60 Hz.
- .3 115° temperature rise insulation system.
- .4 Basic Impulse Level (BIL): standard.

- .5 Hi-pot: standard.
- .6 Average sound level: 45 dB.
- .7 Impedance at 170°C [338°F]: standard.
- .8 Enclosure: sealed.
- .9 Mounting: floor or wall as indicated.
- .10 Finish: in accordance with Section 26 00 10.
- .11 Windings: copper.

2.4 MANUFACTURERS

- .1 Acceptable manufacturers: Westinghouse, Federal Pioneer, Square D, Hammond, Delta, REX and BEMAG.

Part 3 Execution

3.1 MOUNTING

- .1 Mount dry-type transformers on floor with a 4” (100 mm) high concrete housekeeping pad, unless otherwise indicated.
- .2 Suspend dry-type transformers from structure on a U-channel and threaded rod support system complete with insulation springs, as indicated. Maximum size shall be 75kVA. Submit installation detail to structural consultant for review.
- .3 Allow 6” (150 mm) of clearance from walls and 4” (100 mm) from adjacent equipment for ventilation.
- .4 Install transformers in level upright position.
- .5 Remove shipping supports only after transformer is installed and just before putting into service.
- .6 Loosen isolation pad bolts until no compression is visible.
- .7 Mount transformers with vibration isolators.
- .8 Install epoxy potted transformers on wall, unless otherwise indicated.

3.2 CONNECTIONS

- .1 Make final connections with liquid tight flexible conduit to mitigate vibration.
- .2 Energize transformers immediately after installation is completed, where practicable.
- .3 Provide grounding as per Section 26 05 25.

3.3 EQUIPMENT IDENTIFICATION

- .1 Size 7 label in accordance with Section 26 00 10.

END OF SECTION