SECTION 26 2213 - TRANSFORMERS DRY TYPE

PART 1 - GENERAL

1.1   SCOPE:

   A.   Dry type transformers.

   B.   Provide shop drawings.

PART 2 - PRODUCTS

2.1   SERVICE AND RATINGS:

   A.   Transformers ventilated, for indoor service unless shown exterior, single or three phase as shown, with KVA rating shown.

   B.   Voltage for 3 phase units 480V to 120/208V, three phase, four wire. Voltage of single phase units 480V to 120/240V, single phase, three wire. All units equipped with 2-2-1/2% FCBN and 2-2-1/2% FCAN taps. Special voltage transformation as shown.

2.2   INSULATION:

   A.   Class-220 insulation, 150 degree C rise above 40 degree C ambient unless shown otherwise.

2.3   SOUND RATING:

   A.   Maximum design sound level:

K V A	DESIGN SOUND LEVEL
0 - 9.0	40 db
10 - 50	45 db
51 - 150	50 db
167 - 300	55 db
301 - 500	60 db

   B.   Sound levels determined per NEMA and ASA Standards. Mount core and coils on vibration isolator pads.

2.4   MANUFACTURERS:

   A.   G.E., Cutler Hammer, Square "D", Siemens.

PART 3 - EXECUTION

3.1   MOUNTING:

   A.   Transformers up to 45 KVA may be suspended from building structural members on 4 steel rods unless shown otherwise. Mount height as directed. Provide extra supports required due to size and weight. No units wall mounted except as shown. Sizes above 45 KVA floor mounted, unless otherwise indicated on drawings.

   B.   Use extreme care to eliminate noise and vibration. Suspended units; install in each rod, Amber/Booth type PBSR or Consolidated Kinetics type SRH vibration isolator size as directed.

   C.   Mount floor units on vibration spring isolators, size as directed by manufacturer. Use seal-tight flexible conduit for final connections to transformers.

   D.   Shop drawings for each transformer to show physical size, conduit and cable space, connection diagrams, specified requirements, impedance, and maximum current inrush at rated voltage.

E.   Unless labeled otherwise, transformer ventilation openings should be located at least 0' - 6" away from walls or other obstructions to allow free circulation of air through and around <u>each</u> unit.

END OF SECTION