

IT Node 2121 Transformer

Salient Characteristics:

- Pad-Mounted type
- Transformer mounting pads shall contain hand-holes underneath the pad openings
- 3-Phase delta-wye
- Power: 150 kVA
- High Voltage: 12470 Δ , 95 kV BIL.

Used on 12470 Y 7200 System with 10% neutral on transformer present.

- Low Voltage: 208 Y/120, 30 kV BIL

-Impedance: Minimum 5%

- Taps: Provide 5-Position oil immersed primary tap changer (+5.0%, +2.5%, 0%, -2.5%, -5.0%).
- HV Bushings: (6) 15kV 200A Wells & Inserts (dead front loop feed)
- LV Bushings: (4) 4-Hole Spades
- Fluid: FR3 or other environmentally friendly oil
- Frequency: 60 Hz
- Temperature Rise: 45°C average ambient temperature with 50°C winding rise instead of the normal ratings of 30°C ambient with 65°C rise, maintaining the average hot spot temperature rating of 95°C. Must be suitable for operating at 43°C for 12 hours per day with included ambient peaks up to 117°F for 4 hours.
- Cooling Class: KNAN
- Windings: Copper/Copper
- Fusing: Fuses to be bayonet type oil immersed removable in primary compartment having cups below them in series with in-tank current limiters. No bolt- on fuses are allowed because they are non-dead-front connections.
- Pressure Relief Valve
- Switch: Transformer shall be loop feed, with three (3) 2-position on-off 3phase oil immersed switches (one switch each for A, B, T). Use of four, five or six position switch is not permitted.
- Tank Material: Mild Steel
- Arresters:
- Provide 3-nominal 8KV (7.65KV actual) or nominal 9KV (8.4KV actual) MOV in 15KV elbows on B feed connected phase to ground on all transformers that are last on a lateral circuit.

- o Provide parking positions for Loadbreak Elbows on A and B feeds. Parking positions to be provided for A and B feeds. Note that all six cables must be able to be parked at once.

- o Doors to swing out, not up. Pentabолts on doors. Doors to be padlock-able.

- Gauges & Accessories:

- o Dial-Type Thermometer

- o Liquid Level Gauge

- o Pressure Vacuum Gauge

- o Temperature gauge

- o Oil filler

- o Oil sampler

- Additional Information:

- o NEMA ground pads in primary compartment for termination of 100% incoming and out-going primary neutrals and grounds and 4/0 from ground ring.

- o NEMA ground pads in secondary compartment for termination of secondary connection (4/0) from ground ring.

- o Transformers shall be factory painted **Hentzen 70032XXX**