

Transformer Nameplate Information Lab

Program: Electrical Technician

Course: EL150 Commercial Applications

Objectives: Under the supervision of your instructor, you should be able to do the following:

- Collect data from a transformer nameplate
- Understand the information collected

Lab Equipment: N/A

Required Materials:

Pencil or pen

Safety: N/A

Resources: N/A

Required Time: 120 minutes

Shop Maintenance:

- All work will cease 20 minutes prior to the end of class.
- All work areas must be cleaned.
- Tools and equipment must be cleaned and returned to the designated areas (cage, tool room, cabinets
- Any broken or missing tools must be reported immediately.
- Tools and equipment are students' responsibility

Procedures: Student shall use the attached Transformer Nameplate Worksheet to collect data from at least one of the transformer nameplates photos shown in *Figures 1-5*. The data collated will be used as part of a ground discussion on each transformer type, techniques for sizing and limitations.



Figure 1

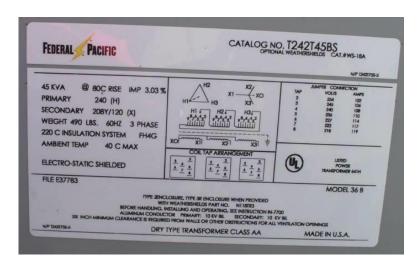


Figure 2





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Figure 3

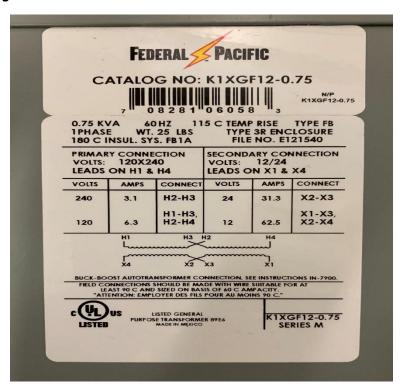


Figure 4





Figure 5



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| Name: | Date: | |
|-------|--|--|
| | Transformer Nameplate Worksheet | |
| 1. | Name of manufacturer | |
| 2. | Serial number | |
| 3. | year of manufacture | |
| 4. | Number of phases | |
| 5. | kVA or MVA rating | |
| 6. | Frequency | |
| 7. | Voltage ratings | |
| 8. | Tap voltages | |
| 9. | Cooling class | |
| 10. | Rated temperature in °C | |
| 11. | Polarity (for Single Phase Transformers) | |
| | Phasor or vector diagram (For Polyphase or Three Phase Transformers) % Impedance | |
| | Instruction for Installation and Operation | |
| 15. | Conductor material of each winding. | |
| 16. | Connection diagram (draw below) | |