



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 etc.)
- 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

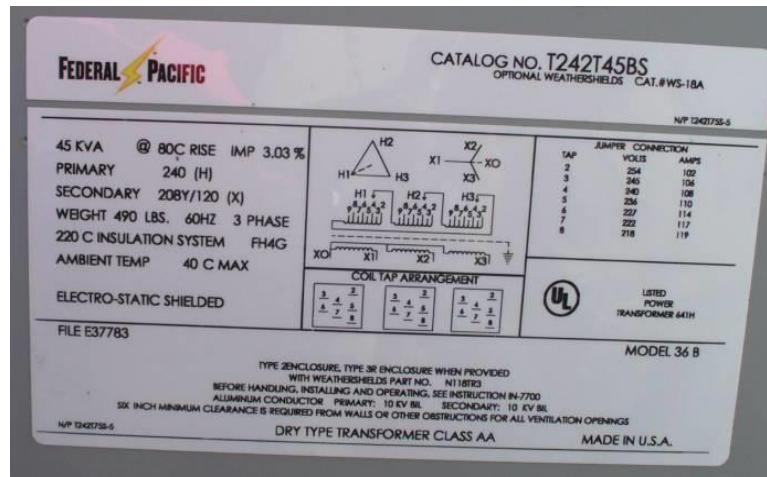


Figure 2

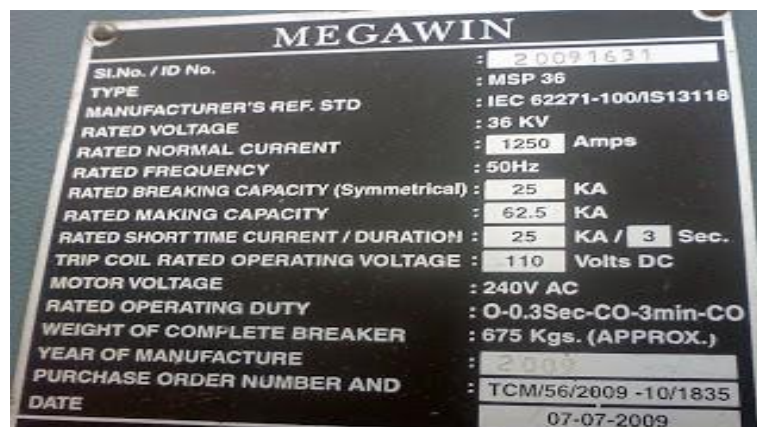




Figure 3

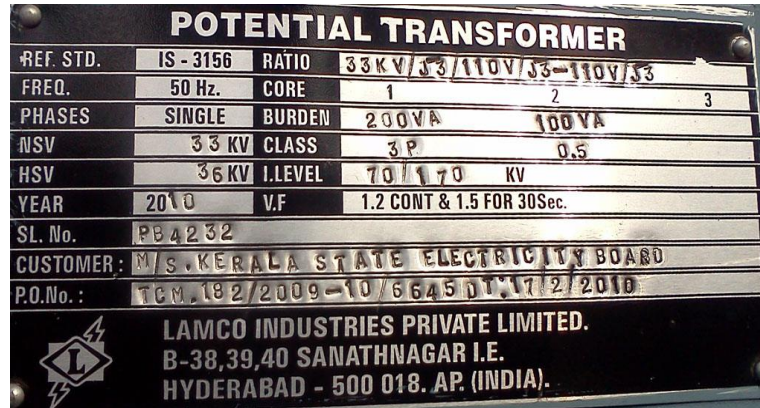


Figure 4

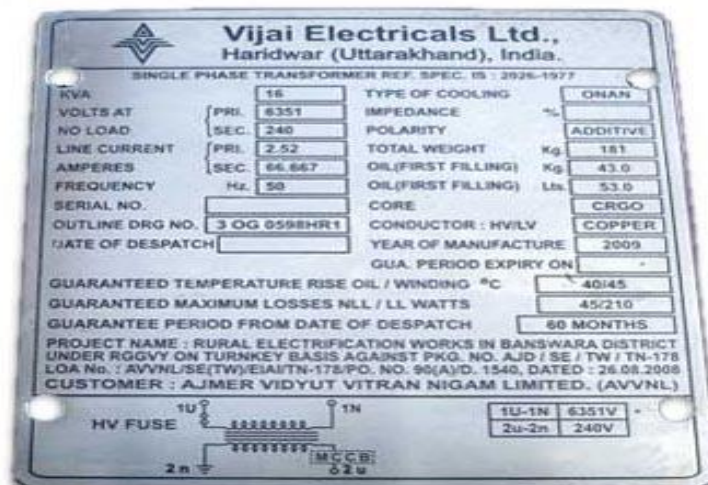
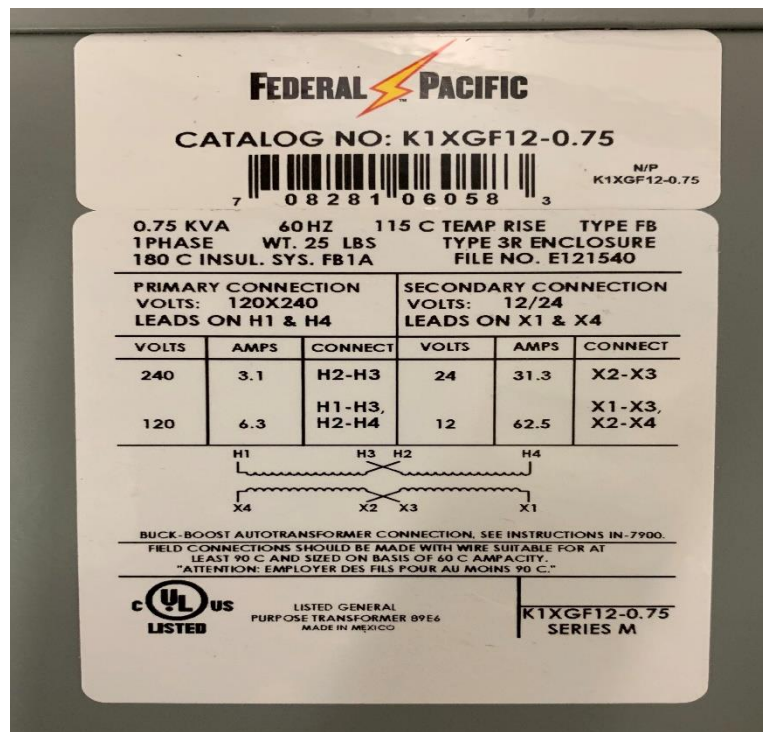




Figure 5





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) _____
12. Phasor or vector diagram
(For Polyphase or Three Phase Transformers) _____
13. % Impedance _____
14. Instruction for Installation and Operation _____
15. Conductor material of each winding. _____
16. Connection diagram (draw below)