

Introduction

The information in this catalog is organized to help you find the proper transformer for your application. We've increased the depth and breadth of our offerings so please review the list below to find a transformer to meet your need.

Chapter sections include:

- General product description, specifications, options
- Enclosure figures, catalog number definition
- Representative models with kVA, size, shipping weight or other information
- Wiring diagrams

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Online only

Go to jeffersonelectric.com/literature to access PDFs of the full catalog and these Reference sections.

Section	Description
14	References Jefferson Electric's Transformers Specifying a Transformer Technical Information Temperature Considerations Safety and Installation Care and Maintenance Troubleshooting Guide Glossary Warranty
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Product Overview

1 Single-Phase Ventilated

- General purpose
- DOE / C802
- 15 to 667 kVA
- NEMA3R enclosures
- Industrial and commercial applications

2 Three-Phase Ventilated

- General purpose
- DOE / C802
- 15 to 2500 kVA
- NEMA3R enclosures
- Industrial and commercial applications

3 Non-Linear, K-Factor

- Non-linear loads
- DOE / C802
- 15 to 1,000 kVA
- Electrostatic shields
- Meet the load demands of solid state devices including ballast, computers and communication equipment

4 Drive Isolation

- Drive and motor loads
- Standard efficiency / C802
- 3 to 990 kVA
- Meets the demands of AC and DC variable speed drives



Buck-Boost Models

5 Totally Enclosed Non Ventilated

- TENV, industrial applications
- Standard efficiency
- 15 to 500 kVA
- NEMA3R, 4 / 4X / 12 / 12X
- For use in adverse ambient environments

6 Industrial Control Transformers

- Single-phase transformers for industrial control applications
- Standard efficiency
- 50 to 5,000 VA
- For use in industrial and commercial control applications

7 Single-Phase Encapsulated

- General purpose
- Standard efficiency
- 50 VA to 50 kVA
- NEMA3R enclosures
- Lighting, industrial and commercial applications



Ventilated Family



Industrial Control

8 Three-Phase Encapsulated

- General purpose
- Standard efficiency
- 3 to 75 kVA
- NEMA3R enclosures
- Industrial applications

9 Buck-Boost

- General purpose
- Standard efficiency
- Encapsulated autotransformer
- 50 VA to 10 kVA
- Steps voltage up or down to solve over/under voltage problems economically
- Lighting and commercial applications

10 Class I, Division 2

- For use in hazardous conditions
- Encapsulated with electrical grade resin
- 1 to 25 kVA, Single Phase
- 3 to 75 kVA Three Phase
- T3C temperature classification
- NEMA3R enclosures



Encapsulated Transformers

11 18-Pulse

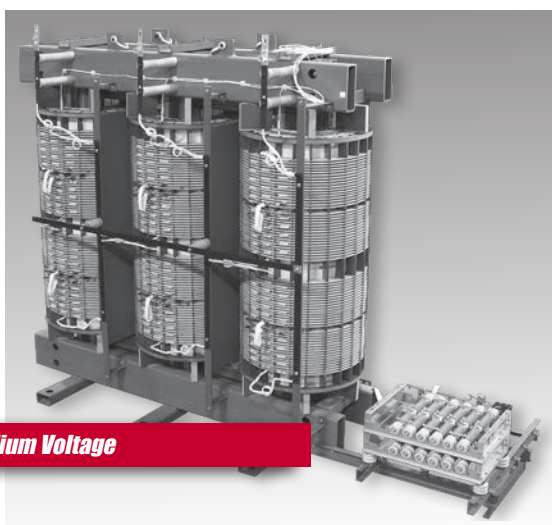
- Special purpose multi-pulse units manufactured to meet specific requirements
- Three-phase, 15 to 500 kVA
- Core and coil
- With or without reactor

12 Medium Voltage

- Medium voltage dry-type
- DOE / C802
- Through 10,000 kVA
- 5 to 35 kV primaries
- Switchgear, traction, mining and marine duty available

13 Power Quality

- Products to mitigate harmonics and non-linear loads
- Harmonic Mitigating/Zig-Zag units to reduce current harmonics
- Harmonic Suppression Systems developed specifically to reduce harmonics and voltage distortion
- DOE / C802
- 15 to 1,500 kVA



Medium Voltage

Custom Solutions**We design to meet your requirements**

- Power: 50 VA through 10,000 kVA
- Input and output voltages through 35 kV
- Multiple primaries and secondaries, and phase angles
- Frequencies (Hz): 60, 50, 400 or special
- Primary tap configurations
- Core and winding material options
- Specific ambient temperature and temperature rises
- Impedance
- Inrush
- Electrical noise attenuation
- Harmonic content and mitigation
- Rectifier / inverter duty: 6, 12 and 18 pulse configurations
- Altitude
- Reduced sound level
- Forced air cooling
- Efficiency at specified loads
- Environmental requirements
- Enclosure style and color: NEMA1, 3R, 4, 4X, 12, 12X
- Accessories: terminal blocks, fusing, disconnects

Filters, Reactors and Chokes

- Armature chokes and ripple filter assemblies to reduce the audible motor noise produced by DC drives
- Line and load reactors used in power factor control and regeneration



18-Pulse

