



Transformers

Ratings

- ▶ Three phase 75-7,500 kVA
- ▶ 208-34,500 V primary & secondary
- ▶ 50 & 60 Hz
 - Custom Hz ranges available
- ▶ 45-75°C rise

Certifications

- ▶ UL and cUL certified
- ▶ IEEE C57.12.00, C57.12.90, C57.12.34
- ▶ Department of Energy 10 CFR 431.193

Design Features

- ▶ Welded tank design with accessible lid
- ▶ Externally-operated no-load tap changer
- ▶ Drain valve with sampler
- ▶ Pressure relief device (automatic resetting type)
- ▶ Other options available upon request
- ▶ Variety of Gauges and/or Monitors

Field Services

- ▶ Relocation
- ▶ Testing
 - Winding Resistance

- Insulation Resistance
- Transformer Turns Ratio
- ▶ Services
 - Internal Inspections
 - Internal Repairs
 - Regasketing
 - Bushing Replacement
 - Tap Changer Service
 - Radiator & Cooler Service
 - Gauge Replacement
 - Painting
- ▶ Oil Processing
 - Hot Oil Degasification
 - Oil Dehydration
 - Cold Trap Monitoring
 - Fuller's Earth Cleaning
 - Vacuum Filling Oil Retrofit

Industrial Motors

Equipment Serviced

- ▶ Electric AC/DC Motors
- ▶ Synchronous Motors
- ▶ Generators
- ▶ Pumps
- ▶ Adjustable Speed Drives

Rewind, Rebuild, Repair

- ▶ AC/DC Motor Repair and Rewind up to 20,000 HP
- ▶ Test Capabilities to Run Motors up to 7,000 Volts
- ▶ Dynamic Balancing

On-Site Services

- ▶ Installation and Removal
- ▶ Laser Alignment
- ▶ Cryogenic Cleaning
- ▶ Safety-Focused Workmanship
- ▶ Fleet of Trucks and Service Vehicles with Extensive Crane Capabilities
- ▶ Certified Vibration Analysis
- ▶ Testing & Verification Services
- ▶ Predictive & Preventative Maintenance

Predictive Maintenance

- ▶ Vibration Analysis and Laser Alignment
- ▶ Motor Circuit Evaluation Testing Using PdMA® Equipment

Manufacturing

- ▶ Modification of WPII Hoods for Improved Cooling
- ▶ Motor Adapter

New Equipment Sales

- ▶ Motors and Generators
- ▶ AC and DC Drives

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Custom Switchgear

New Construction

- ▶ 5kV through 38kV
- ▶ Switches, Breakers, Starters
- ▶ Indoor or Outdoor
- ▶ Independent Supplier of OEM Components
- ▶ Per IEEE, NEMA, Third-Party Standards
- ▶ Metal-clad & Metal-enclosed

Innovative Designs

- ▶ Load-Break Switch Over Contactor or Breaker
- ▶ Arc Flash Mitigation
- ▶ VFD Switchgear
- ▶ Input/Output/Bypass Sync Transfer

Draw-Out Metal-Enclosed Switchgear

- ▶ Compact Design; Shallow Footprint
- ▶ Indoor and Outdoor Applications
- ▶ Alternative to Larger Metal-clad Lineups

Field Services

- ▶ Switchgear & Breaker Testing
 - Primary & Secondary Injection
 - Timing & Ductor Testing

- CT & PT Testing
- ▶ Services
 - IR Thermal Analysis
 - Maintenance
 - Retrofits & Retrofills
 - Commissioning & Decommissioning

Other Services

- ▶ Protective Relay Testing
- ▶ Cable Testing
- ▶ Ground Grid Testing
- ▶ Arc Flash Studies & Mitigation
- ▶ Ground Fault Protection & Metering
- ▶ New & Used Parts & Equipment



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