



ECI



Full line of Transformer
Components manufactured
and delivered to meet your needs



Circuit Breakers

- Oil-immersed secondary circuit breakers
- Only breaker manufactured in the USA
- For protection in single phase and three phase transformers
 - fast, precise tripping in the event of overload
 - reliable operation with high interrupting capability
 - located in the low voltage circuit of the transformer
- provides protection against overloads and secondary faults



Single Phase*		Three Phase	
kVA	LV	kVA	LV
5 - 167	120/240	15 - 150	240 V and below
5 - 167	240/480	45 - 300	480 V

* magnetic trip circuit breaker feature available on some 25 kVA and all 37.5 kVA and above

Breaker Options

Breaker on Bracket (BOB)

- Completely assembled breaker operating kit
- Rigid steel mounting bracket with operating handle and linkage
- Separate hole required for signal light
- BOB Advantages:
 - no breaker linkage adjustment
 - insures proper positioning of breaker
 - simple and quick installation
 - operating handle inserted through the tank wall secures BOB to tank interior.



Accessories

Operating Handle Assembly

- To open the circuit manually
- Optional emergency overload lever to change from normal to emergency overload setting
- Brass handles also available for harsh environment polemount applications



Signal Light Assembly

- Provides visual warning that an unusual overload has occurred in the transformer



Bushings

HV Bushing Wells

- Permanent stud
- Replaceable stud
- Standard 5/16" hex wrench for removable stud
- Conforms to ANSI/IEEE Standard 386
- Rated 150 kV BIL
- Polyester thermoset insulating compound



35 kV Integrated Bushing

- 200 amp load break bushing
- Three Phase rated
- Conforms to ANSI/IEEE Standard 386
- Designed for:
 - padmounted transformers
 - oil filled switchgear and other apparatus
- Advantages
 - reliable one piece design
 - operating features required for underground distribution switching
- Sure-Make™ termination



LV Triclamp Bushing

- 5/8" diameter stud
- High temperature nylon insulator
- Superior moisture resistance
- Excellent strength and resistance to leaks



Underoil Arrester Disconnect Switch

- Isolates underoil arrester for transformer testing
- Internal and external mountings available



Current Transformer Outlet

- Power transformer application
- Connects external meters and relays with internal current transformers



Switches

Tap Changer

- Controls voltage variation
- Various styles with bolt-on or crimp terminals
- Cap wrench or pointer handle options



Overload Indicator

- Warns utilities of overloaded transformers
- A bimetallic switch used to activate the externally mounted signal light
- Signal light gives visual indication of excessive oil temperature

Expulsion Fuses

- Ratings available: 5.2 kV through 23.0 kV
- Under oil application
- Variety of mounting options

Bay-o-net Fuses

- Fault Sensing
 - current sensitive only
 - offers primary circuit protection from transformer faults
- Load Sensing
 - sensitive to both current and oil temperature
 - offers primary circuit and overload protection



Isolation Links

- Coordinates with bay-o-net fuses
- Used as a safety feature with bayonet assembly

Drywell Fuseholders

- Mounting for full range current limiting fuse



Padmounted		Submersible
Load Break	Non Load Break	Non Load Break
8.3 kV (Single Phase)	8.3 kV	8.3 kV
	15.2 kV	15.2 kV
15.2 kV (Single Phase)	21.1kV (125 kV BIL)	21.1kV (125 kV BIL)
8.3 kV (Three Phase)	21.1kV (125 kV BIL)	

Load Break Fuseholder

- Load break capability
- Hot stick operable
- Sure-Make™ termination





Setting the Standard

ERMCO Components, Inc. was formed after the purchase of GE Distribution Transformer Components by **ERMCO** in December, 1998. Already a leading manufacturer of electrical distribution components, **ECI** continues to grow and is incorporating **ERMCO's** standards for manufacturing quality products and excellent customer service into the components industry.

In approximately 55,000 square feet of manufacturing facility located in Greeneville, Tennessee, **ECI** specializes in transformer components.

- Only oil-immersed secondary circuit breakers made in the USA
- ISO 9002 certified
- Large finished goods inventory
 - same or next day shipment
 - bar coding available

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