Three Phase Pad Mounted Distribution Transformer

Three Phase Pad Mounted Distribution Transformers (PADs) are designed and manufactured in compliance with all applicable IEEE and RUS standards. All transformers are oil filled, 65°C rise, and designed for usual service conditions per IEEE C57.12.34.

Ratings available are 30 through 3000 kVA with primary voltages 2.4 through 35 kV (150 kV BIL) and secondary voltages up to 600 volts.

KVA and Standard Voltage Offerings

- All standard tap configurations available.
- Dual voltage available in most combinations.
  - Dual voltage with taps available (series connection only)
- Impedance and loss options available in most designs.

<table>
<thead>
<tr>
<th>kVA</th>
<th>H.V.</th>
<th>BIL (kV)</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>2400</td>
<td>60</td>
</tr>
<tr>
<td>45</td>
<td>4160</td>
<td>75</td>
</tr>
<tr>
<td>75</td>
<td>4800</td>
<td>95</td>
</tr>
<tr>
<td>112.5</td>
<td>7200</td>
<td>95</td>
</tr>
<tr>
<td>150</td>
<td>7620</td>
<td>95</td>
</tr>
<tr>
<td>225</td>
<td>7970</td>
<td>95</td>
</tr>
<tr>
<td>300</td>
<td>11400</td>
<td>125</td>
</tr>
<tr>
<td>500</td>
<td>12000</td>
<td>125</td>
</tr>
<tr>
<td>750</td>
<td>13200</td>
<td>125</td>
</tr>
<tr>
<td>1000</td>
<td>13800</td>
<td>125</td>
</tr>
<tr>
<td>1500</td>
<td>14400</td>
<td>125</td>
</tr>
<tr>
<td>2000</td>
<td>19920</td>
<td>150</td>
</tr>
<tr>
<td>2500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

L.V.:
- 240 Δ 120 tapp
- 208Y/120
- 480Y/277
- 240 Δ
- 480 Δ
- 600Y/347
Product Features

Tanks:
- All bracing is internal
- Removable cover
- Pedestal base
  - Reduces weight
  - Improved corrosion protection

Bushings:
- Externally clamped with stainless steel studs and plated hardware
- Internal leads are sized for bushing extraction in times of maintenance or repair

Corrosion Protection:
- 100% of the padmount receives a paint finish that exceeds all IEEE requirements including 160 in-lb impact, 2000 hour salt spray, 1000 hours QUV and 20 cycle SCAB.
- ERMCO furnishes a 100% powder paint coverage.

Bonus Features
(Standard on all ERMCO Padmount Transformers)
- Low Profile
  - Unique design exceeds IEEE tamper requirements
- Metal parts are rounded for improved safety and corrosion protection
- Cabinet sides
  - Hinged for easy access
  - Lock in open position
  - Securely fastened with spring loaded locking device
  - Removable
- Cabinet Hood
  - Hinged
  - Locks in 2 raised positions
  - Removable (one locking bolt)
  - Enables cables to be pulled vertically
- Cabinet Doors
  - Lock in open position
  - Removable (easy lift handle)
- Sill
  - Removable (five bolts)
## Equipment Options

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Default Standard</th>
<th>Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>H.V. Fuse</td>
<td>Bay-O-Net with drip shield</td>
<td>Weak link, valve Bay-O-Net, CL fuse (dry well or internal)</td>
</tr>
<tr>
<td>L.V. Breaker</td>
<td>None</td>
<td>Magnetic &amp; thermal trip, emergency overload, available in certain kVA sizes only.</td>
</tr>
<tr>
<td>Arrester</td>
<td>None</td>
<td>Internal under oil HV arresters, LV surge arrester</td>
</tr>
<tr>
<td>H.V. Bushings</td>
<td>Wells with fixed stud</td>
<td>Removable stud wells, wells &amp; inserts, integral load break bushings</td>
</tr>
<tr>
<td>L.V. Bushings</td>
<td>Stud and NEMA spade with jam nut</td>
<td>Stud only, integral spade, variety of connectors, supported LV bushings</td>
</tr>
<tr>
<td>Markings</td>
<td>kVA Decal</td>
<td>Generic or customer specific decals, bar codes, stenciling customer stock codes, serial numbering, and other markings.</td>
</tr>
<tr>
<td>Taps/Dual Voltage</td>
<td>Cap Wrench Handle</td>
<td>Lever handle or hook stick handle</td>
</tr>
<tr>
<td>Nameplate</td>
<td>Laser etched aluminum</td>
<td>Stainless steel, special information bar code, material stock code, or practically any purchaser data</td>
</tr>
<tr>
<td>Tank</td>
<td>Mild steel (green color)</td>
<td>Gray or Tan color, hybrid (stainless pedestal and sill), undercoating, full 304L stainless</td>
</tr>
<tr>
<td>Fittings</td>
<td>1” drain with sampler and fill plug</td>
<td>Various valves and gauges</td>
</tr>
<tr>
<td>Core/Coil</td>
<td>Five legged</td>
<td>Triplex</td>
</tr>
<tr>
<td>Front Panel</td>
<td>IEEE minimum</td>
<td>IEEE specific or customer specified</td>
</tr>
</tbody>
</table>
Quality and Reliability

- All electrical testing is per IEEE standards.
- Many other tests are made for control purposes such as, core loop loss and exciting current, coil ratio and polarity, oil properties, and multiple oil leak checks.

Warranty

- All ERMCO padmounts carry a full 2 year warranty.
- Coverage includes round trip transportation between the purchasers shipping dock and the repair facility.

Maintenance

- All cabinet parts interchange with like size
- Removable tank cover
- Full access to internal components