

**Liquid-Filled Radial Feed Pad Mounted Transformer**

Liquid-Filled Radial Feed Pad Mounted Transformer is an oil-filled, three-phase, commercial pad mounted distribution transformer specifically designed for servicing such underground distribution loads as shopping centers, schools, institutions and industrial plants. It is available in both live front and dead front construction, for radial feed applications, with or without taps. The transformer uses aluminum or copper winding and is optimized to maximize efficiency and footprint. It has many advantages: such as high voltage, no drifting of neutral point, low loss, small volume, cost-effective, safety and environment protection, attractive appearance and etc. Our **Liquid-Filled** Radial Feed Pad Mounted Transformer is designed and tested in accordance with industry standards including CSA, ANSI C.57, DOE, and IEEE as applicable.
### Standard Features

- Mild steel, optional stainless steel tank
- Three-point latching door for security
- Removable sill for easy installation
- Stainless steel cabinet hinges and mounting studs
- Bolted-on cabinet with removable sill having the following depths:
  - 19” deep for 300kVA through 750 kVA
  - 22” deep for 1000kVA through 1500kVA
  - 24” deep for 2000 kVA through 3750kVA
  - 30” deep for 5000 kVA through 7500kVA
- For live front construction, externally clamped high voltage porcelain bushings with a single eyebolt, clamp-type connector (accommodates #6 AWG solid to 250 MCM stranded conductors).
- For dead front construction, externally clamped high voltage bushing wells for loadbreak or non-loadbreak inserts.
- HV and LV compartment doors-hinged and lift-off type with 120° holding bars
- Steel HV/LV compartment barrier
- Padlocking facility with one penta-head bolt on the LV compartment door and two penta-head bolts on the HV compartment door-including 3 point latching mechanism
- HV connection:
  - Live front-external clamped and removable HV bushings with eyebolt, clamp type connector
- LV connection:
  - Externally clamped polymer & porcelain LV bushing with 4-12 Hole spades
  - Oil drain plug for 500 kVA and below
- 1” drain valve with sampler for 750 kVA and above
- Oil fill plug
- Five-legged core/coil assembly.
- Removable LV neutral ground strap; as required
- Nameplate per ANSI requirement
- Self-actuating pressure relief valve
- Lifting lugs (4)

<table>
<thead>
<tr>
<th>Depth</th>
<th>Suitable Power Range</th>
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<tbody>
<tr>
<td>19”</td>
<td>300kVA through 750 kVA</td>
</tr>
<tr>
<td>22”</td>
<td>1000kVA through 1500kVA</td>
</tr>
<tr>
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<td>2000 kVA through 3750kVA</td>
</tr>
<tr>
<td>30”</td>
<td>5000 kVA through 7500kVA</td>
</tr>
</tbody>
</table>
### Optional Accessories

- Oil level gauge
- Liquid temperature gauge
- Pressure/absolute vacuum gauge
- Welded cover with or without sample probe
- Installed on tank cover mechanical depressurizing device

**Main Terminal:**
- HO-STOR Oil Switch: one for terminal type.
- External non-inductive tap changer
- External high voltage switch
- External Y-Δ switching

**2nd Terminal:**
- 2-position load oil switch
- 4-position T or V type knife switch

**Overvoltage Protection:**
- Distribution class, metal oxide surge arresters, 3-36 kV.
- Distribution class, valve type surge arresters, 3-27 kV.

**Overcurrent Protection:**
- Each dual-speed fuse is equipped with plastic plug.
- Weak link fuse保险丝
- Dual-speed fuse and internal part range limiting fuse fuse in series
- Secondary oil circuit breaker

**Other Options:**
- Stainless steel tank and cabinet design
- Partial stainless steel design (door edge and tank bottom)
- 30 inch or 34 inch or 40 inch deep cabinet
- CT or PT, including installation support
- LV external installed plastic housing circuit breaker
- Outdoor electric meter
- Light weight flip cover cabinet
- Additional external installed nameplates

**Weatherproofing:**
- The transformer on the cabinet may have an optional weatherproof cover, which is connected through a hinge, leaving space to replace the dual-speed fuse.
- Can be conveniently raised to the position and fixed with a single support arm.
- Weatherproof cover does not require other clamping hardware.
- Oil level gauge.
- Liquid temperature gauge.
- Pressure vacuum gauge.
- Welded cover with handhole.
- Oil drain valve with or without sampler.
- Mechanical pressure relief device mounted on tank cover.

Primary termination:
- Externally clamped bushing wells with loadbreak inserts
- Integral loadbreak or non-loadbreak bushings

Secondary termination:
- Externally clamped bushings with NEMA 4-hole, 6-hole, 8-hole, 10-hole or 12-hole spades
- Spade supports are available. They are provided for 8-hole spades and larger

Primary Switching:
- LBOR oil switch: one for radial feed.
- Externally operated de-energized tap changer
- Externally operated dual voltage switch
- Externally operated Δ-Y switch
- 2-position loadbreak oil switches
- 4-position T or V blade sectionalizing loop switches

Overvoltage Protection:
- Distribution class, metal oxide arresters, 3-36 kV.
- Distribution class, valve-type lightning arresters, 3-27 kV.

Over-current protection:
- Bayonet-type expulsion fuses with plastic drip cup mounted on each bayonet fuse
- Weak link cartridge fuses
- Bayonet type in series with internal partial-range current limiting fuses
- Secondary under oil circuit breaker

Additional construction options:
- Stainless steel tank and cabinet design
- Partial stainless steel design (cabinet sill and tank bottom)
- 30" or 34" or 40" deep cabinet
- CT’s or PT’s, including mounting support
- LV externally mounted molded case breaker
- Externally mounted kWh meter
- Flip-top cabinet for low profile design
- Additional externally mounted nameplate
- Different paint color per requirement

Weathercover:
- Transformers may feature an optional weathercover over the cabinet which is hinged to allow clearance for replacement of the bayonet-type fuses.
- The weathercover can be lifted easily into place and secured with a single supporting arm.
- The weathercover requires no additional holddown hardware.
注：以上数据仅以我司标准设计为准，特殊要求可定制。
Note: The above data is only subject to our standard design, special requirement can be customized.
The Liquid-Filled Loop Feed Pad Mounted Transformer is an oil-filled, three-phase, commercial pad mounted distribution transformer specifically designed for servicing such underground distribution loads as shopping centers, schools, institutions and industrial plants. It is available in both live front and dead front construction, for loop feed applications, with or without taps. The transformer uses aluminum or copper winding and is optimized to maximize efficiency and footprint. It has many advantages: such as high voltage, no drifting of neutral point, low loss, small volume, cost-effective, safety and environment protection, attractive appearance and etc.

Our Liquid-Filled Loop Feed Pad Mounted Transformer is designed and tested in accordance with industry standards including CSA, ANSI C.57, DOE, and IEEE as applicable.
Mild steel, optional stainless steel tank
Three-point latching door for security
Removable sill for easy installation
Stainless steel cabinet hinges and mounting studs
Bolted-on cabinet with removable sill having the following depths:
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For live front construction, externally clamped high voltage porcelain bushings with a single eyebolt, clamp-type connector (accommodates #6 AWG solid to 250 MCM stranded conductors).
For dead front construction, externally clamped high voltage bushing well for loadbreak or non-loadbreak inserts.

HV and LV compartment doors-hinged and lift-off type with 120° holding bars
Steel HV/LV compartment barrier
Padlocking facility with one penta-head bolt on the LV compartment door and two penta-head bolts on the HV compartment door-including 3 point latching mechanism

HV connection:
Live front-external clamoed and removable HV bushings with eyebolt, clamp type connector
LV connection:
Externally clamped polymer & porcelain LV bushing with 4-12 Hole spades

Oil drain plug for 500 kVA and below
1” drain valve with sampler for 750 kVA and above

Oil fill plug
Five-legged core/coil assembly.
Removable LV neutral ground strap; as required
Nameplate per ANSI requirement
Self-actuating pressure relief valve
Lifting lugs (4)
可选配件 Optional Accessories

- 油位计
- 液体温度表
- 压力真空计
- 带手孔的焊接盖
- 带或不带采样器的排油阀
- 安装在油箱盖上的机械泄压装置
- 主终端：
  - 带负载断开插件的外部夹紧式套管孔
  - 整体式断负荷或无负荷套管
- 二级终端：
  - 带有NEMA 4孔、6孔、8孔、10孔或12孔铲的外部夹紧式衬套
  - 提供铲形支撑。它们提供8孔或更大的铲状端子 主交换：
    - LBOR油开关：两个用于环网型
    - 外置无励磁分接开关
    - 外置双电压开关
    - 外置Δ-Y开关
    - 2位负载断油开关
    - 4位T或V型刀片分段回路开关
- 过压保护：
  - 配电级，金属氧化物避雷器，3-36 kV
  - 配电级，阀式避雷器，3-27 kV
- 过电流保护：
  - 每个双敏熔丝上均装有塑料滴头杯
  - 弱链接盒保险丝
  - 双敏熔丝与内部部分范围限流熔断器串联
  - 二次下油断路器
- 其他构造选项：
  - 不锈钢水箱及柜体设计
  - 部分不锈钢设计（柜门板和罐底）
  - 30英寸或34英寸或40英寸深的机柜
  - CT或PT，包括安装支持
  - LV外部安装的塑壳断路器
  - 外置电度表
  - 轻巧的翻盖式机柜
  - 其他外部安装的铭牌
  - 根据要求不同的油漆颜色
- 防风罩：
  - 变压器在机柜上可能具有可选的防风罩，该防风罩通过铰链连接，可以留出空间以更换双敏熔丝
  - 可以方便地将防风罩提升到位并用单个支撑臂固定
  - 防风罩不需要其他压紧硬件
Electric, with an Edge

- Oil level gauge
- Liquid temperature gauge
- Pressure vacuum gauge
- Welded cover with handhole
- Oil drain valve with or without sampler
- Mechanical pressure relief device mounted on tank cover

Primary termination:
- Externally clamped bushing wells with loadbreak inserts
- Integral loadbreak or non-loadbreak bushings

Secondary termination:
- Externally clamped bushings with NEMA 4-hole, 6-hole, 8-hole, 10-hole or 12-hole spades
- Spade supports are available. They are provided for 8-hole spades and larger

Primary Switching:
- LBOR oil switch: two for loop feed.
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- 4-position T or V blade sectionalizing loop switches

Overvoltage Protection:
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Over-current protection:
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Additional construction options:
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- Flip-top cabinet for low profile design
- Additional externally mounted nameplate
- Different paint color per requirement

Weathercover:
- Transformers may feature an optional weathercover over the cabinet which is hinged to allow clearance for replacement of the bayonet-type fuses.
- The weathercover can be lifted easily into place and secured with a single supporting arm.
- The weathercover requires no additional holddown hardware.
### 三相环网型箱式变压器技术参数

**Technical Data for Liquid-Filled Loop Feed Pad Mounted Transformer**

<table>
<thead>
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<th>NO.</th>
<th>NAME</th>
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<th>NAME</th>
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<td>1</td>
<td>HV BUSHING WEEKS ONLY</td>
<td>13</td>
<td>PAD LOCKABLE DOOR HANDLE</td>
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<td>2</td>
<td>BAY-O-NET FUSE</td>
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<td>LIFTING LUGS</td>
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<td>3</td>
<td>4-POSITION T-BLADE SW</td>
<td>15</td>
<td>HAND HOLE &amp; SECURITY COVER</td>
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<td>4</td>
<td>DIAL TYPE THERMOMETER</td>
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<td>TANK</td>
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<td>6</td>
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<td>METAL LV-HV BARRIER</td>
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### 空载损耗(W)表

<table>
<thead>
<tr>
<th>Rated Power (KVA)</th>
<th>High Voltage (V)</th>
<th>Low Voltage (V)</th>
<th>No-load Loss (W)</th>
<th>On-load Loss (W)</th>
<th>宽 (mm)</th>
<th>深 (mm)</th>
<th>高 (mm)</th>
<th>油重 (KG)</th>
<th>总重 (KG)</th>
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