Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664

## Product ID: 313532

**Please see last page for supporting documentation for this product (certificates, CAD files & drawings, IES files, wiring diagrams, etc).**



Image:

**Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.**

**MT-PML-R5-1P-DMQ-200KVA-SZ-LT-DF-A6-BM-CZ-2B4-M1 Pad Mount Transformer**

**Transformer Type:** Pad Mounted, Compartmental-Type I
**Transformer Configuration:** Liquid Filled Pad Mounted
**Transformer Feed Type:** Loop Feed
**Phase:** Single Phase
**Capacity:** 200 KVA
**Vector Group:** II6
**Primary Voltage:** 34500V
**Primary Voltage Switch:** N/A
**Primary Voltage Class:** 35 kV Class
**Primary Phasor:** Delta
**Primary BIL:** 150 KV
**Secondary Voltage:** 120/240 (L-N-L)
**Secondary Voltage Class:** 1.2 kV Class
**Secondary Phasor:** Dual Winding Single Phase

**Secondary BIL:** 30 KV

**Frequency:** 60 Hz

**Temperature Rise:** 65°C

**Insulation Rating:** Class E Insulation - 120°C, 248°F
**Cooling Class:** ONAN; Self-Cooled
**Forced Air (Fans):** None
**Tap Changer:** 5-Position Tap Changer

**Ratings**

Meets/Exceeds DOE 2016 Efficiency Ratings
Complies with ANSI / IEEE #C57.12.00
Complies with ANSI / IEEE #C57.12.25
Complies with ANSI / IEEE C57 12.28
Complies with ANSI / IEEE C57 12.38
Complies with ANSI / IEEE C57.12.70
Complies with ASTM D3487
Pentahead Entry Assembly
High-Fire Point Natural Ester Insulating Fluid
Non-PCB Insulating Fluid
Tamper Proof Housing
Lift Up Pad lockable Lid

**Efficiency:** 99.20%
*Based on transformer operating at 50% of nameplate base kVA.*

**Load Losses Based on 85°C Reference Temp.**
**No Load Loss (in watts)*:** +/- 683W
**Load Loss (in watts)*:** +/- 2,763W
**Total Load Loss (in watts)*:** +/- 3,445W
***Note:*** *Losses offered are typical only, not*

*guaranteed*

**Tap Qty:** (2) FCAN Above Taps, (2) FCBN Below Taps
**Tap %:** 2.50%
**Tap Changer Switch Location:** Front Compartment
**Impedance:** 1.5-6.0% Typical
**Primary Connection Type:** Dead Front
**Primary Termination:** Standoff Well Bushings w/ Removable Studs, 200A Load Break Elbows w/ Inserts
**Primary Connection Qty:** (4) Primary Connections w/ (3) Standoff Brackets for Parked Elbows
**Primary Surge Arrestors:** (2) High Voltage Elbow Surge Arrestors, Included
**Primary Surge Arrestor Voltage Rating:** 45 kV Class
**Primary Surge Arrestor MCOV Rating:** 36.5 kVrms
**Primary Over Current Protection (OCP):** Bayonet Fuses, Partial-Range Current-Limiting Fuses, Oil-Immersed Isolation Links
**Primary Over Current Protection Method:** Fused w/ Isolation Links
**Primary Over Current Protection Holder:** Bayonet Fuse Holder w/ Drip Shield
**Primary Grounding Provisions:** (1) Grounding lug, accepts #2 copper
**Secondary Connection Type:** Live Font, Type 2 Arrangement
**Secondary Connections:** 1" x 14" One-Piece Epoxy Bushings w/ 1-1/2" Long Copper Threaded Studs, Externally Clamped, w/ NEMA Spade Terminals, 6-Hole Spade, Externally Clamped, Accepts up to (6) Single Lug connections with (1) cables per side of Spade connector
**Secondary Over Current Protection (OCP):** N/A
**Secondary Connection Qty:** (3), X2 Bushing Grounded to Frame via Copper Ground Strap
**Secondary Grounding Provisions:** (1) Grounding lug, accepts #2 copper
**Metering Current Transformer (CT):** N/A
**Metering Panel:** N/A
**Auxiliary Control Panel :** N/A
**Load Break Switch:** N/A
**Load Break Switch Qty:** N/A
**Load Break Switch Location:** N/A
**Efficiency Standard(s):** Meets DOE 2016 Standards, Meets ANSI/IEEE Standards
**K-Factor Rating (Harmonic Mitigation):** K-1 (Standard)
**Pulse Drive Rating:** N/A
**Insulation Fluid:** Mineral Oil - Non PCB Fluid - Non-PCB Fluid
**Fluid Capacity*:** 110 Gallons
**Liquid Level Indicator:** Analog Gauge
**Temperature Indicator:** Analog Gauge
**Pressure/Vacuum Indicator:** Analog Gauge
**Pressure Relief Device:** Included, Automatic Action
**Fill Valve:** Removable Bolt
**Fill Valve Location:** Front Compartment
**Drain Valve:** Included, w/ Sampler
**Drain Valve Location:** Front Compartment
**Winding Material:** Aluminum
**Ambient Temperature Rating:** 40°C
**Sound Level:** 55 dBA
**Elevation (Altitude):** 3300ft (1000 meters) Above Sea Level or Below
**Core Material:** Steel
**Tank Material:** Coated Steel
**Cabinet Material:** Coated Steel
**Base Platform Material:** Coated Steel
**Housing Type:** Tamper Resistant w/ Pad-lockable Lift-up Lid
**Paint Type:** Weatherproof and UV Resistant Epoxy Coating and Undercoating
**Finish Color:** Munsell™ 7.0 GY 3.29/1.5 Bell Green
**Mounting:** Pad Mount
**Conduit Opening:** Bottom Feed Underground Entry/Exit
**Dimensions*:** 55.12"-W x 51.18"-D x 33.07"-H
**Weight*:** 3306.88 Lbs
*Please note that numbers are approximate and subject to change

**Special Orders - Special Requirements**
Contact us for special requirements
**Toll Free:** 1-800-369-6671
**Intl:** 1-903-270-1187
**Fax:** 1-903-765-7664
**E-mail:** sales@larsonelectronics.com

**The MT-PML-R5-1P-DMQ-200KVA-SZ-LT-DF-A6-BM-CZ-2B4-M1 Industrial Pad Mount Transformer from Larson Electronics offers powerful, reliable and efficient power distribution in indoor, outdoor and public locations. The low operating costs, low heat emissions and low cost of ownership makes this transformer ideal for a wide range of applications and businesses. An enclosed design caters to installations on concrete pads without protective fencing.**

***PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO POWER DISTRIBUTION PANELS, TRANSFORMERS, OR SUBSTATIONS***

**Transformer Features:** With a transformer rating of 200 kVA, the industrial transformer features a primary voltage of single-phase 13200V Delta and a secondary voltage of single-phase 120/240V. The unit has a primary loop feed and dead-front primary connections. We also offer systems with radial feed and dead front primary/live front secondary connections. This transformer features a 5-position tap changer with (2) +/- 2.5% taps above and (2) +/- 2.5% taps below to allow small changes for voltage. This pad mount transformer features primary well bushings and standard spade connectors on the secondary side. Equipped with copper windings, this transformer consists of one coil and two core loops.

The MT-PML-R5-1P-DMQ-200KVA-SZ-LT-DF-A6-BM-CZ-2B4-M1 is air cooled and does not have fans or mounting provision for fans. This unit features a 60°C temperature rise for reduced heat waste, increased reliability and longer life. The transformer meets DOE 2016 efficiency standards. The combination of low temperature rise and high efficiency makes this unit suitable for use in electrical rooms, air conditioned spaces in buildings, underground vaults and similar locations, in addition to outdoor areas.

**Insulation Fluid:** The MT-PML-R5-1P-DMQ-200KVA-SZ-LT-DF-A6-BM-CZ-2B4-M1 features mineral oil insulation fluid. We offer transformers with FR-3 oil fluid, if needed.

**Gauges:** The following gauges are included with the system: liquid level, temperature and pressure/vacuum gauges. Standard liquid level, temperature and pressure/vacuum gauges are analog, manual reading types. These gauges do not have auxiliary contacts.

**Fault Pressure Devices:** There are no fault pressure devices on the unit. Fault pressure devices are used to detect high rates of pressure rise within the tank.

**Rapid Rise Relay:** There are no rapid rise relays on the unit. This safety component is designed for protection when a rapid increase in tank pressure occurs. The relay is suitable for detecting sudden pressure fluctuations above predetermined safe limits.

**Surge arresters:** This system comes with high elbow surge arresters on the primary side. Designed for over-voltage and transient voltage protection, the components prevent damage caused by lightning, internal switching or voltage surges. We can offer models without high elbow surge arresters that have mounting provisions for customer-provided surge arresters.

**Load Breaker Switch:** The MT-PML-R2-3P-DMR-1.4MVA-DYA-LT-DF-A-6-BB-AZ-2C4-M3 is equipped with a load break switch. This switch has four positions: A side on + transformer on, B side on + transformer on, A and B sides + transformer on, and A and B sides + transformer off.

**Valves:** The MT-PML-R2-3P-DMR-1.4MVA-DYA-LT-DF-A-6-BB-AZ-2C4-M3 is equipped with a fill valve and drain valve with sampler port.

**Protection Fuses:** This transformer contains bayonet protection fuses on the primary side. For units without protection fuses, up stream protection is provided. We recommend provisions for protection fuses when possible, as blown fuses may require more frequent oil changes.

**Mount:** The heavy-duty enclosure makes the unit suitable for both indoor and outdoor applications. This power distribution system can be pad mounted on concrete pads.

**Benefits:** The MT-PML-R5-1P-DMQ-200KVA-SZ-LT-DF-A6-BM-CZ-2B4-M1 pad mount transformer offers many benefits to consumers. This transformer provides owners with significant energy savings, as well as offering environmental benefits. Higher efficiency not only extends the life of the transformer, but also turns into cost savings for owners in the form of lower energy bills and decreased cost of ownership.

**Applications:** General purposes, industrial sites, electrical rooms, underground vaults, manufacturing facilities, steel plants, offshore, commercial, military, processing plants, electric power distribution, utilities, public locations and more.

Larson Electronics is a manufacturer and as such can build stationary and portable transformer systems to your specifications. Although we carry several models of power distribution transformer systems, we can deliver custom ordered units almost as quickly as our prebuilt units. If this model does not meet your needs, please contact us at 1-800-369-6671 or sales@larsonelectronics.com to discuss your specific requirements.

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664

# Frequently Asked Questions (FAQ)

There are no Faqs

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664




Image:

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664

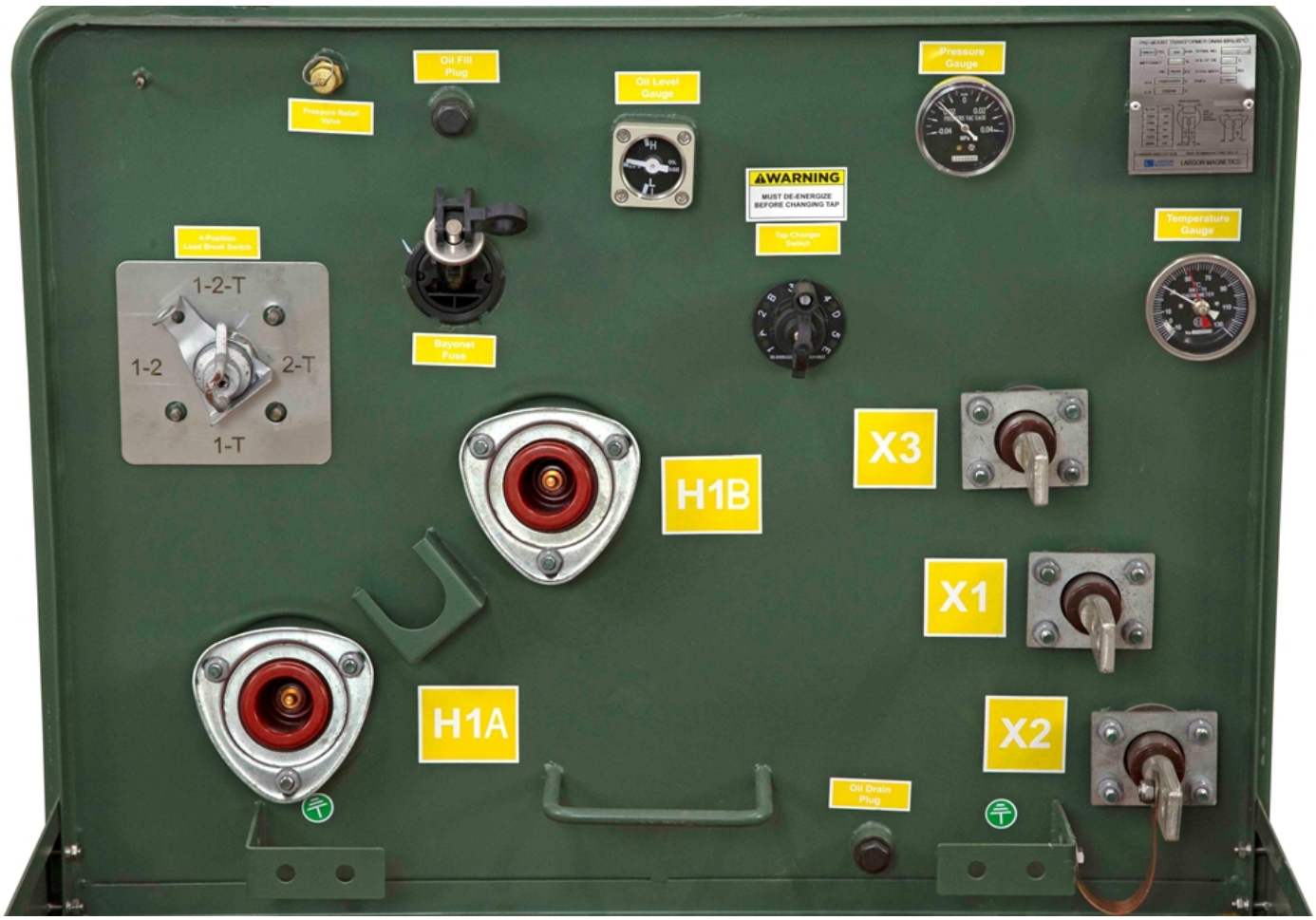



Image:



Image:

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664



Image:

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664

**Product ID: 313532**

**Export Control Classification Number (ECCN):** EAR99

Links (Click on the below items to view):

- **Operations Manual**( https://www.larsonelectronics.com//images/product/Manual/313532.PDF )
- **HigResPic1**( https://www.larsonelectronics.com//images/product/HigResPic1/313532.JPG )
- **HigResPic2**( https://www.larsonelectronics.com//images/product/HigResPic2/313532.JPG )
- **HigResPic3**( https://www.larsonelectronics.com//images/product/HigResPic3/313532.JPG )
- **HigResPic4**( https://www.larsonelectronics.com//images/product/HigResPic4/313532.JPG )
- **HigResPic5**( https://www.larsonelectronics.com//images/product/HigResPic5/313532.JPG )
- **Video1**( https://www.youtube.com/watch?v=e8n6aQZ2CNY )
- **Video2**( https://www.youtube.com/watch?v=YBY4x0CofvU )
- **Video3**( https://www.youtube.com/watch?v=mN2qPmdLwW4 )
- **ISO 9001 Certification**( http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF )
- **Business Certificate**( https://www.larsonelectronics.com/images/pdfdocs/w9.PDF )
- **Shipping Time Map**( https://www.larsonelectronics.com/images/product/ShippingTimeMap/ShippingTimeMap.pdf )