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: 305345

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-ATX-R7-1P-DMD-4MVA-SMP-LT-DF-A6-CMF-CZ-1ZZ-M1 Pad Mount Autotransformer

Phase: Single Phase
Capacity (Continuous, Self Cooled, 55°C): 4 MVA (4,000 KVA)
Capacity (2-Hours, Self Cooled, 80°C, 100% load): 6 MVA (6,000 KVA)
Capacity (1-Min., Self Cooled, 65°C, 100% load): 12 MVA (12,000 KVA)
Capacity (15-Sec., Self Cooled, 100% load): 20 MVA (20,000 KVA)
Primary Voltage: 27600V
Primary BIL: 150 kV
Secondary Voltage: 13800V
Secondary BIL: 95 kV
Frequency: 60 Hz
Temperature Rise: 55/65°C
Impedance: 2.3% (At 4 MVA)
Low Frequency Withstand Voltage (1-Min.): 50 KV rms
Short Circuit Mechanical Withstand Capability: Included
Winding Features: Cylindrical winding of continuous wire, disc-type winding throughout, Suitable bracing to withstand axial and radial forces due to repetitive faults, and unequal currents in each winding
Core Features: Suitably braced to withstand numerous short-circuit impacts without an increase of core loss or exciting current.
Leads Features: Adequately braced
Neutral Lead Features: Adequate for twice line current
Forced Air (Fans): Included, (2) cooling fans which may be mounted alongside the

Ratings

Complies with ANSI / IEEE #C57.12.25
Pentahead Entry Assembly

radiators to provide cross draught whichever is more space efficient. Each fan is hooked to the control box with an oil temperature sensitive switch. Fans operate based upon top oil temperature and are not operated continuously. Each fan is 1/6 Hp, single-phase, 14-inch diameter blade, 1,725 rpm with a 230-volt power supply
Tap Changer: 5-position Tap Changer, (2) +/- 2.5% Taps Above, (2) +/- 2.5% Taps Below
Primary Bushing: 150 KV BIL, 400 A, Porcelain type with copper 4-hole NEMA pad terminals. Installed inside a full-length air terminal chamber (bottom entry) for insulated shielded cable termination
Secondary Connections: Standard Spade Connectors
Efficiency: Meet DOE 2016 Standard
Insulation Fluid: Mineral Oil
Fluid Capacity: -
Cooling Class: ONAN/ONAF
Liquid Level Gauge: Analog
Temperature Gauge: Analog, dial-type w/ alarm contact
Pressure/Vacuum Gauge: Analog
Pressure Relief Device: Included
Sudden Pressure Relay: Included
Fill Valve: Included
Drain Valve w/ Sampler: Included
Surge Arrestors: N/A
Protection Fuses: N/A
Load Break Switch: N/A
Front: Dead Front Primary, Live Front Secondary
Feed: Loop
Winding Material: Copper
Nameplate Material: 304 Stainless steel
Ambient Temperature Rating: -
Sound Level: -
Enclosure Rating: NEMA 3R
Housing: Coated Steel, Tamper Resistant w/ Padlockable Lift-up Lid
Paint Type: ANSI dark blue gray No. 24
Mounting: Pad Mount
Conduit Opening: -
Dimensions: TBD
Weight: +/- 1,150 lb

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-ATX-R7-1P-DMD-4MVA-SMP-LT-DF-A6-CMF-CZ-1ZZ-M1 Industrial Pad Mount Autotransformer 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 4 MVA, the industrial transformer features a primary voltage of single-phase 27600V Delta and a secondary voltage of single-phase 13800V. 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 autotransformer 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-ATX-R7-1P-DMD-4MVA-SMP-LT-DF-A6-CMF-CZ-1ZZ-M1 is air cooled and fan cooled. This unit features a 55/65°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-ATX-R7-1P-DMD-4MVA-SMP-LT-DF-A6-CMF-CZ-1ZZ-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: This transformer features an automatic action fault pressure device. Fault pressure devices are used to detect high rates of pressure rise within the tank.

Rapid Rise Relay: There is a rapid rise relay 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 is not equipped with surge arresters. 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-ATX-R7-1P-DMD-4MVA-SMP-LT-DF-A6-CMF-CZ-1ZZ-M1 is not equipped with a load break switch.

Valves: The MT-PML-ATX-R7-1P-DMD-4MVA-SMP-LT-DF-A6-CMF-CZ-1ZZ-M1 is equipped with a fill valve and drain valve with sampler port.

Protection Fuses: This autotransformer is not equipped with bayonet protection fuses. 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 system can be pad mounted on concrete pads.

Benefits: The MT-PML-ATX-R7-1P-DMD-4MVA-SMP-LT-DF-A6-CMF-CZ-1ZZ-M1 pad mount autotransformer offers many benefits to consumers. This autotransformer provides owners with significant energy savings, as well as offering environmental benefits. Higher efficiency not only extends the life of the autotransformer, 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

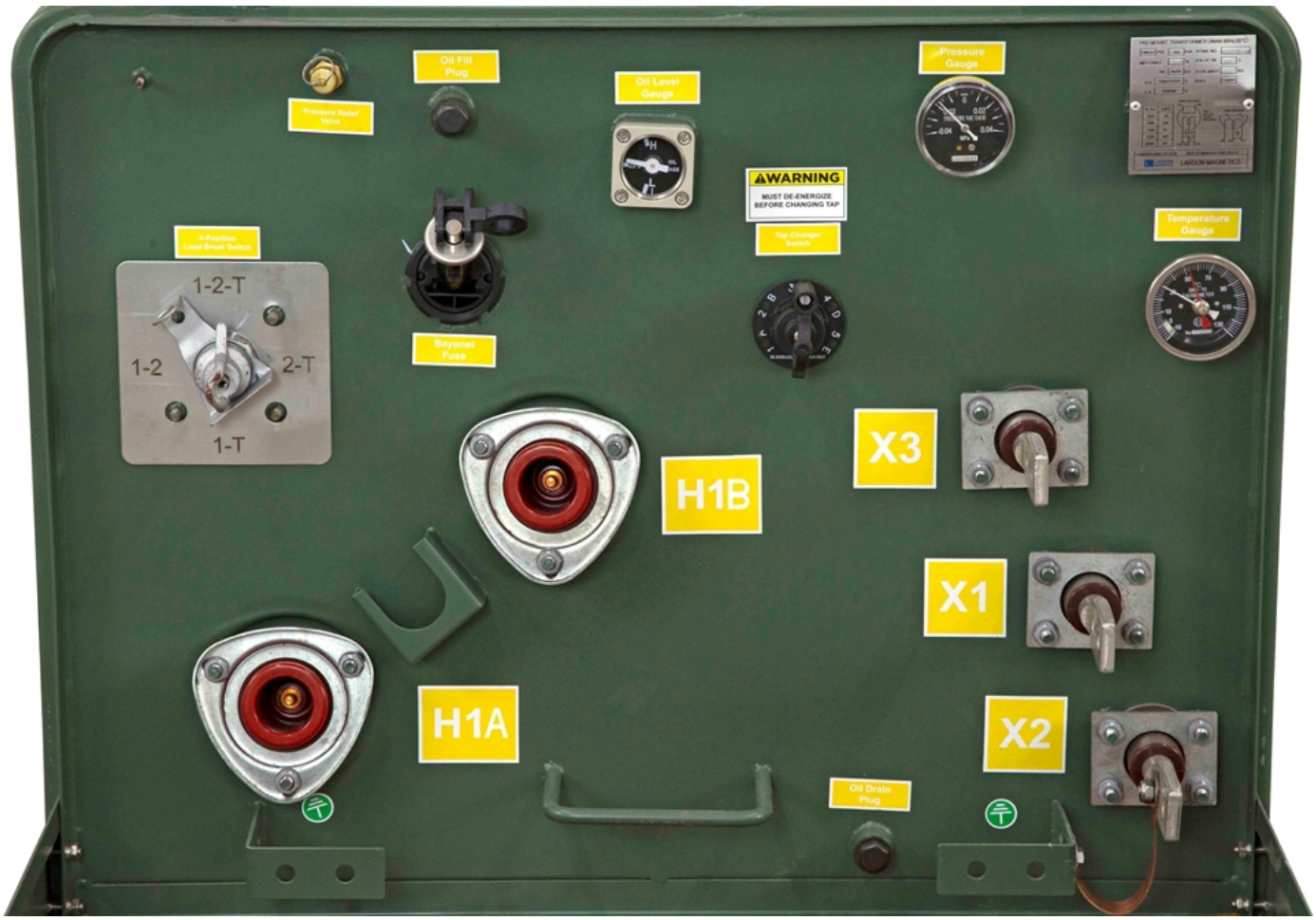


Image:



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:

Product ID: 305345

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **Operations Manual**(https://www.larsonelectronics.com//images/product/Manual/305345.PDF)
- **HigResPic1**(https://www.larsonelectronics.com//images/product/HigResPic1/305345.JPG)
- **HigResPic2**(https://www.larsonelectronics.com//images/product/HigResPic2/305345.JPG)
- **HigResPic3**(https://www.larsonelectronics.com//images/product/HigResPic3/305345.JPG)
- **HigResPic4**(https://www.larsonelectronics.com//images/product/HigResPic4/305345.JPG)
- **HigResPic5**(https://www.larsonelectronics.com//images/product/HigResPic5/305345.JPG)
- **Video1**(https://www.youtube.com/watch?v=e8n6aQZ2CNY)
- **Video2**(https://www.youtube.com/watch?v=YBY4x0CofvU)
- **Video3**(https://www.youtube.com/watch?v=mpt7J5hdJp8)
- **Video4**(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)