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MT-PML-R7-1P-GMR-50KVA-SLZ-LT-DF-A6-BM-CZ-1B2-M1

50 kVA Single-Phase Pad Mount Transformer – 12470Y/7200 Grounded Wye Primary, 120/240V Secondary – Mineral Oil, Copper Windings, Coated Steel Tank, Bayonet Fuse, Type 1

Product ID: 344693

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



Image: MT-PML-R7-1P-GMR-50KVA-SLZ-LT-DF-A6-BM-CZ-1B2-M1

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-R7-1P-GMR-50KVA-SLZ-LT-DF-A6-BM-CZ-1B2-M1 Single-Phase Pad Mount Transformer

Transformer Type: Distribution Transformer, Pad Mounted
Transformer Configuration: Liquid Filled Pad Mounted
Transformer Feed Type: Loop Feed
Operation: Step-Down
Polarity: Additive
Phase: Single Phase
Capacity: 50 kVA
Vector Group: N/A
Primary Voltage: 12470Y/7200V, Grounded Wye
Primary Voltage Switch: N/A
Primary Voltage Class: 15 kV Class
Primary Phasor: N/A
Primary BIL: 95 kV
Secondary Voltage: 120/240V
Secondary Voltage Class: 600V Class
Secondary Phasor: N/A
Secondary BIL: 10 kV
Frequency: 60 Hz

Ratings

Meets/Exceeds DOE 2016 Efficiency Ratings
Complies with ANSI/IEEE C57.12.70
Complies with ANSI/IEEE C57.12.00
UL Listed

Features

Ground Pad and LV Ground Strap
Pressure Relief Valve
Oil Fill, Oil Drain w/ Sampling Device, Oil Level Sight Gauge
Thermometer (No Alarm Contact)
HV Standoff Bracket (Stainless Steel)
Nameplate
Pentahead Door Bolt (Stainless Steel), Pad Lockable
.625"-11 Lifting Boss Provision
Ground Connectors Equipped
Mounting Cleats Equipped
200A Dead-Front Bushing Wells w/ Load-Break Inserts

Temperature Rise: 65°C
Insulation Rating: Class A Insulation – 105°C, 221°F
Cooling Class: ONAN; Self-Cooled
Forced Air (Fans): N/A (Self-Cooled, No Fans)
Radiator Bank Type: N/A (Tank-Cooled, No External Radiator)
Tap Changer: (4) 2.5% Taps, 2AN 2BN
Tap Qty: (2) Above Taps, (2) Below Taps
Tap %: 2.5% Taps
Tap Changer Switch Rating: De-Energized/Off-Load Rated, Cap Wrench Handle Operated
Tap Changer Switch Location: High Voltage (HV) Side
Impedance: 4.5% (To be confirmed)
Earthing System: Body Ground Only
Primary Connection Type: Dead Front, Bushing Well Termination
Primary Termination Arrangement: Dead-Front, 200A Bushing Wells w/ Load-Break Inserts
Primary Termination: 200A Class Bushing Wells
Primary Connection Qty: (1) Primary HV Connection
Primary Bushing Rating: 15 kV Class, 200A Bushing Well Rating
Primary Neutral Connection: Grounded
Primary Surge Arrestors: Not Included
Primary Surge Arrestor Voltage Rating: N/A
Primary Surge Arrestor MCOV Rating: N/A
Primary Overcurrent Protection (OCP): Bayonet Fuse, in Series w/ Isolation Link and Dripshield
Primary Overcurrent Protection Method: Bayonet-Type Fuse Protection
Primary Overcurrent Protection Holder: Bayonet Fuse Holder, Internal
Primary Grounding Provisions: Ground Pad, Ground Strap
Secondary Connection Type: Dead Front, Spade Termination
Secondary Termination Arrangement: Dead-Front, Spade-Type LV Bushings
Secondary Connections: Spade 5/8"-4 In-Line, Copper
Secondary Connection Qty: (4) In-Line Spade Bushings
Secondary Over Current Protection (OCP): N/A
Secondary Neutral Connection: Center-Tap Grounded
Secondary Grounding Provisions: LV Ground Strap, Ground Pad
Metering Current Transformer (CT): N/A
Metering Panel: N/A
Auxiliary Control Panel: N/A
Space Heaters: N/A
Load Break Switch: Open-Close Loadbreak Switch
Load Break Switch Qty: (1)
Load Break Switch Location: Primary Compartment
Efficiency Standard(s): Meets DOE 2016 Efficiency Ratings
K-Factor Rating: K-1 (Standard)
Pulse Drive Rating: N/A
Insulation Fluid: Mineral Oil
Fluid (Oil) Capacity: 35 Gallons (estimated)
Fluid (Oil) Weight: TBD
Oil Level Indicator: Analog Sight Gauge
Oil Temperature Indicator: Analog Dial Gauge, No Alarm Contacts
Winding Temperature Indicator: N/A
Pressure/Vacuum Indicator: N/A
Pressure Relief Device: Included
Rapid Rise Relay: N/A
Gas Sampler Valve: N/A
Fill Valve: Included
Oil Drain Valve: Included w/ Sampling Device
Drain Valve Location: Front Compartment
Winding Material: Copper

LV Spade Bushings, 5/8"-4 In-Line, Copper

Factory Tests
Voltage Ratio Error Test
Short-Circuit Impedance Test
Load Loss (Wattage) Test
No-Load Loss (Wattage) Test
Insulation Resistance Test
Winding Resistance Test

Elevation (Altitude): Sea Level
Wind Speed Rating: TBD
Average Humidity: TBD
Core Material: Grain Oriented Steel
Tank Material: Coated Steel
Cabinet Material: Coated Steel
Base Platform Material: Coated Steel
Portability: .625"-11 Lifting Boss Provision
Housing Type: Metal Casing, Liquid Filled, Pad-Mounted
Convenience Power Receptacle: N/A
Seismic Rating: TBD
Paint Type: Weatherproof, UV-Resistant Epoxy Coating
Finish Color: Munsell Green #7GY 3.29/1.5
Mounting: Pad-Mounted w/ Mounting Cleats
Conduit Opening: Bottom
Tank Cover Access Handhole: N/A
Dimensions: 33 in W × 32 in D × 24 in H (estimated)
Dry Weight (w/o Oil): TBD
Total Weight (Liquid Filled): 800 lbs (estimated)

Shipping
Shipped on Pallet or Skid
Crated Shipment Available Upon Request

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 Larson Electronics MT-PML-R7-1P-GMR-50KVA-SLZ-LT-DF-A6-BM-CZ-1B2-M1 industrial pad mount transformer offers powerful, reliable, and efficient power distribution in indoor, outdoor, and public locations. Low operating costs, low heat emissions, and a low cost of ownership make this transformer ideal for a wide range of applications and businesses. Its 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 50 kVA, this industrial transformer features a primary voltage of single-phase 12470Y/7200 Grounded Wye and a secondary voltage of single-phase 120/240V (L-N-L). The unit has a primary loop feed and dead-front primary connections. 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.

This unit is self-cooled (ONAN) and does not require fans or external radiator banks. It features a 65°C temperature rise for reduced heat waste, increased reliability, and longer service life, and meets DOE 2016 efficiency standards. The combination of low temperature rise and high efficiency makes this unit suitable for use in electrical rooms, underground vaults, and similar locations, in addition to outdoor areas.

Insulation Fluid: This transformer features mineral oil cooling fluid (ONAN). Larson

Electronics also offers transformers with biodegradable or FR-3 fluids, if needed.

Gauges: The following gauges are included with the system: liquid level and temperature gauges. Standard gauges are analog, manual reading types without auxiliary contacts.

Fault Pressure Devices: This transformer features an automatic-action fault pressure relief device, used to protect the tank against high rates of internal pressure rise.

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

Surge Arresters: This configuration does not include surge arresters. Designed for over-voltage and transient voltage protection, these components prevent damage caused by lightning, internal switching, or voltage surges. Larson Electronics can offer this unit with high elbow surge arresters added, if needed.

Load Break Switch: This unit is equipped with an open-close loadbreak switch on the primary side, providing manual isolation and sectionalizing capability within the loop-feed circuit.

Valves: The unit is equipped with a fill valve and a drain valve with a sampler port.

Protection Fuses: This transformer contains bayonet protection fuses on the primary side, installed in series with an isolation link and dripshield.

Mount: The heavy-duty enclosure makes this unit suitable for both indoor and outdoor applications. This power distribution system is pad mounted on concrete pads via integral mounting cleats.

Benefits: This pad mount transformer offers significant benefits, including energy savings and environmental benefits. Higher efficiency not only extends the life of the transformer, but also translates 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, commercial and municipal utility distribution, public locations, and more.

Customer Compliance: The final arrangements, sizes, ratings, settings, configuration, and installation details of this equipment will be established in accordance with detailed engineering review, applicable project documentation, and customer approval prior to manufacture.

Larson Electronics manufactures a wide variety of custom power distribution systems. The pictures displayed for this unit are a general representation of form factor and may not accurately represent this exact configuration in every detail due to being custom builds. The specifics for this configuration are listed in the specification table and applicable drawings.

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.

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Frequently Asked Questions (FAQ)

There are no Faqs

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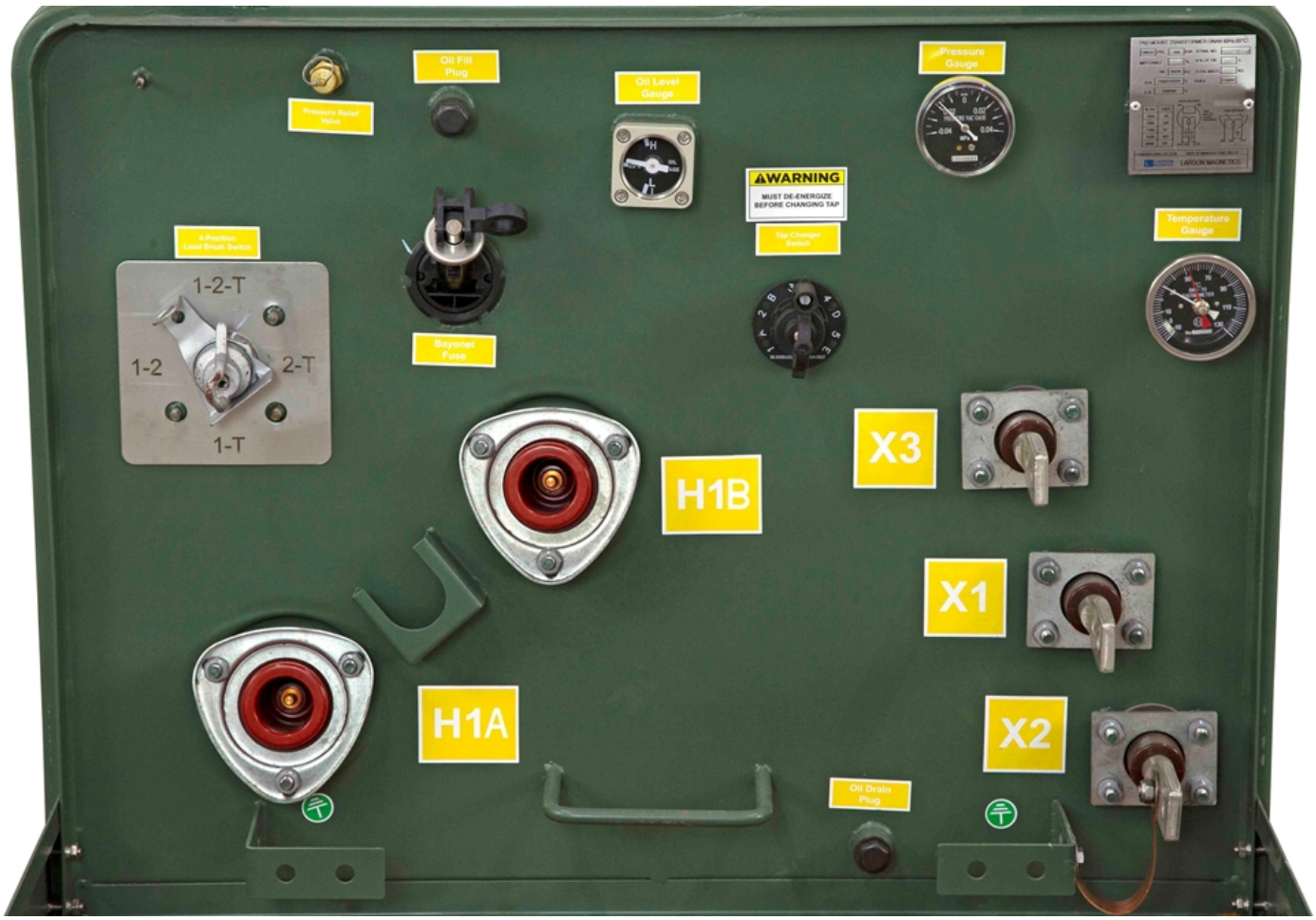


Image: MT-PML-R7-1P-GMR-50KVA-SLZ-LT-DF-A6-BM-CZ-1B2-M1



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Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **Operations Manual**(https://www.larsonelectronics.com/images/product/Manual/344693.PDF)
- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/344693.JPG)
- **HigResPic2**(https://www.larsonelectronics.com/images/product/HigResPic2/344693.JPG)
- **HigResPic3**(https://www.larsonelectronics.com/images/product/HigResPic3/344693.JPG)
- **HigResPic4**(https://www.larsonelectronics.com/images/product/HigResPic4/344693.JPG)
- **HigResPic5**(https://www.larsonelectronics.com/images/product/HigResPic5/344693.JPG)
- **Video1**(https://www.youtube.com/watch?v=mpt7J5hdJp8)
- **Video2**(https://www.youtube.com/watch?v=KIzsyVtvSWM)
- **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)