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**MT-PML-R7-1P-GMR-250KVA-SZ-LT-DF-A6-BM-CZ-2B4-M2-6.T48**

# 250 KVA Pad Mount Transformer - 12470Y/7200 Grounded Wye Primary, 240/120V Secondary - MLO Panel, Mineral Oil Fluid/ONAN

**Product ID: 286398**

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



**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-250KVA-SZ-LT-DF-A6-BM-CZ-2B4-M2-6.T48 1-Wire 1PH Pad Mount Transformer**

**Transformer Type: Pad Mounted, Compartmental-Type**
**Transformer Configuration: Liquid Filled Pad Mounted**
**Transformer Feed Type: Loop Feed**
**Phase: Single Phase**
**Capacity: 250**
**Primary Voltage: 12470GrdY/7200**
**Primary Phasor: Grounded Wye**
**Primary BIL: 95 KV**
**Secondary Voltage: 240/120V (L-N-L)**
**Secondary Phasor: Dual Winding Single Phase**
**Secondary BIL: 30 KV**
**Frequency: 60 Hz**
**Temperature Rise: 65°C**
**Cooling Class: ONAN; Self-Cooled**
**Forced Air (Fans): None**
**Tap Changer: 5-Position Tap Changer**
**Tap Qty: (2) FCAN; (2) FCBN**
**Tap %: 2.5%**
**Impedance: 1.5-6.0%**
**Primary Connection Type: Dead Front**
**Primary Termination: Well Bushings, 200A**
**Primary Connection Qty: (2)**
**Primary Parking Stand Qty:** (2) Welded Brackets for Installing Accessory Parking Stand Bushings

**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
Hinged Front Compartment Doors, Pad Lockable

**Efficiency: 99.20%**
**No Load Loss (in watts)*: +/- 683W**
**Load Loss (in watts)*: +/- 2763W**
**Total Load Loss (in watts)*: +/- 3445W**

**Primary Grounding Provisions: (1) Grounding lug, accepts #2 copper**
**Secondary Connection Type: Live Front**
**Secondary Connections: Threaded Stud Terminals**
**Secondary Connection Qty: (3)**
**Secondary Grounding Provisions: (1) Grounding lug, accepts #2 copper**
**Secondary Panel Type: Main Lug Only**
**Secondary Mains Capacity: 600 Amps**
**Secondary Main Breaker Size: N/A**
**Main Breaker Short Circuit Current Rating (SCCR): 65 kAIC**
**Secondary Circuit Count: 12 Ckt: (12) Circuits 200AF**
**Secondary Branch Breakers: (6) 200 Amp 2-pole MCCB [250V]**
**Secondary Branch Breaker Size: 200A 2P Breaker: 250AF**
**Secondary Branch Breaker Type: Molded Case Circuit Breaker (MCCB)**
**Secondary Branch Breaker Short Circuit Current Rating (SCCR): 35 kAIC**
**Transformer Protection: Bayonet Fuse**
**Load Break Switch: (1) 4-Position Load Break Switch**
**Efficiency: Meet DOE 2016 Standard**
**Insulation Fluid: Mineral Oil Insulating Fluid - Non-PCB Fluid**
**Fluid Capacity*: -**
**Liquid Level Indicator: Analog Gauge**
**Temperature Indicator: Analog Gauge**
**Pressure/Vacuum Indicator: Analog Gauge**
**Pressure Relief Device: Included, Automatic Action**
**Fill Valve: Included**
**Drain Valve: Included, w/ Sampler**
**Surge Arresters: High Elbow Surge Arresters on the Primary Side**
**Front: Dead Front Primary, Live Front Secondary**
**Winding Material: Copper**
**Ambient Temperature Rating: 40°C**
**Sound Level: 55 dBA**
**Elevation (Altitude): 3300ft (1000 meters) Above Sea Level**
**Tank Material: Coated Steel**
**Cabinet Material: Coated Steel**
**Base Platform Material: Coated Steel**
**Housing Type: Compartmental Cabinet w/ Doors, HV Compartment Left, LV Compartment Right**
**Paint Type: Munsell Green Paint 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*: 36" x 54" x 39"**
**Weight*: 2,250 lb**
*Please note that numbers are approximate and subject to change

**Special Orders - Special Requirements**
Contact us for special requirements
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**The MT-PML-R7-1P-GMR-250KVA-SZ-LT-DF-A6-BM-CZ-2B4-M2-6.T48 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 250 kVA, the industrial transformer features a primary voltage of single-phase 12470Y/7200 Grounded Wye and a secondary voltage of single-phase 240/120V (L-N-L). 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-R7-1P-GMR-250KVA-SZ-LT-DF-A6-BM-CZ-2B4-M2-6.T48 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-R7-1P-GMR-250KVA-SZ-LT-DF-A6-BM-CZ-2B4-M2-6.T48 features mineral oil insulation fluid. We offer transformers with FR-3 oil fluid, if needed.
**Panel:** This liquid filled pad mount transformer is equipped with a main lug only (MLO) panelboard on the secondary LV compartment. This 600-amp panel is equipped with six 200-amp 2-pole 250V molded case circuit breakers and has a total of 12 circuits.
**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 Break Switch:** The MT-PML-R7-1P-GMR-250KVA-SZ-LT-DF-A6-BM-CZ-2B4-M2-6.T48 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-R7-1P-GMR-250KVA-SZ-LT-DF-A6-BM-CZ-2B4-M2-6.T48 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-R7-1P-GMR-250KVA-SZ-LT-DF-A6-BM-CZ-2B4-M2-6.T48 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.

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# Frequently Asked Questions (FAQ)

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**Harmonized System (HS) Code:** 85043300
**Export Control Classification Number (ECCN):** EAR99

Links (Click on the below items to view):

- ANSI Certificate 1
- ASTM Certificate 1
- Catalog Page - Product Series
- Concrete Pad Dimensional Drawing
- Electrical Nameplate Diagram
- FCC Certificate (Federal Communications Commission, USA)
- MSDS (Material Safety Data Sheet
- Operations Manual
- Wiring Diagram (Oneline)
- HigResPic1
- HigResPic2
- HigResPic3
- HigResPic4
- HigResPic5
- HigResPic6
- HigResPic7
- HigResPic8
- HigResPic9
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- Video1
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- Video3
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map