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## MT-PML-R7-1P-GMF-10KVA-SQ-LT-DF-A5-BM-AZ-2B4-M1

# 10 KVA Pad Mount Transformer - 24940Y/14400 Grounded Wye Primary, 230V Secondary, Mineral Oil /ONAN, Aluminum, Bell Green

**Product ID: 322763**



Image: MT-PML-R7-1P-GMF-10KVA-SQ-LT-DF-A5-BM-AZ-2B4-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-GMF-10KVA-SQ-LT-DF-A5-BM-AZ-2B4-M1 1PH Pad Mount Transformer**

**Transformer Type:** Pad Mounted, Compartmental-Type
**Transformer Configuration:** Liquid Filled Pad Mounted
**Transformer Feed Type:** Loop Feed
**Transformer Polarity Type:** Subtractive
**Phase:** Single Phase
**Capacity:** 10 kVA
**Vector Group:** II6
**Primary Voltage:** 24940Y/14400
**Primary Phasor:** Grounded Wye
**Primary BIL:** 125 kV
**Secondary Voltage:** 230V (L-N)
**Secondary Phasor:** Single Winding, Single Phase
**Secondary BIL:** 30 KV
**Frequency:** 50 Hz
**Temperature Rise:** 65°C

**Cooling Class:** ONAN; Self-Cooled

**Forced Air (Fans):** None
**Tap Changer:** 5-Position No-Load Tap Changer w/ External Operating Handle
**Tap Qty:** (2) FCAN Above, (2) FCBN Below
**Tap %:** 2.5%
**Tap Changer Switch Location:** HV Side
**Impedance:** 1.0-4.5% Typical
**Primary Connection Type:** Dead Front
**Primary Termination:** Standoff Well Bushings w/ Removable Studs, 200A Load Break

**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 C57.12.70
Complies with ANSI / IEEE C57 12.28
Complies with ANSI / IEEE C57 12.38
Complies with ASTM D3487
Non-PCB Insulating Fluid
Penta-head Entry Assembly
High-Fire Point Natural Ester Insulating Fluid
Lift Up Pad lockable Lid
Tamper Proof Housing

**Efficiency:** 98.30%
*Based on transformer operating at 50% of nameplate base kVA.*

**Load Losses Based on 85°C Reference Temp.**
**No Load Loss (in watts)*:** 47W
**Load Loss (in watts)*:** 156W
**Total Load Loss (in watts)*:** 203W
***Note:** Losses offered are typical only, not guaranteed*

Elbows w/ Inserts
**Primary Connection Qty:** (2) Primary Connections w/ (1) Standoff Brackets for Parked Elbows
**Primary Surge Arrestors:** Included, (1) High Voltage Elbow Surge Arrestors
**Primary Surge Arrestor Voltage Rating:** 24 kV Class
**Primary Surge Arrestor MCOV Rating:** 19.5 kVrms
**Primary Overcurrent Protection (OCP):** Bayonet Fusess
**Primary Overcurrent Protection Method:** Fused
**Primary Overcurrent Protection Holder:** Bayonet Fuse Holder w/ Drip Shield
**Primary Grounding Provisions:** (1) Grounding lug, accepts #2 copper
**Secondary Connection Type:** Live Font
**Secondary Connections:** 5/8" x 11" One-Piece Epoxy Bushings w/ 1-1/2" Long Copper Threaded Studs, Externally Clamped, w/ NEMA Spade Terminals, 4-Hole Spade, Externally Clamped, Accepts up to (4) Single Lug connections with (1) cables per side of Spade connector
**Secondary Connection Qty:** (2)
**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:** 4-Position Load Break Switch
**Load Break Switch Qty:** (1)
**Load Break Switch Location:** High Voltage (HV) Front Compartment
**Efficiency:** Meets DOE 2016 Standard
**K-Factor Rating (Harmonic Mitigation):** K-1 (Standard)
**Pulse Drive Rating:** N/A
**Insulation Fluid:** Mineral Oil - Non PCB Fluid
**Fluid Capacity*:** 35.44 Gallons
**Fluid Weight*:** 319.66 lbs
**Liquid Level Indicator:** N/A
**Temperature Indicator:** N/A
**Pressure/Vacuum Indicator:** N/A
**Pressure Relief Device:** Automatic Action, Cracking Pressure @ 10 PSIG, Releasing Pressure @ 8 PSIG, Flow @ 15 PSIG (50 SCFM) @ 14.7 PSGI
**Fill Valve:** 1/2" NPT Port w/ Removable Bolt
**Fill Valve Location:** Front Compartment
**Drain Valve:** 1/2" NPT Port w/ Removable Bolt (No Sampler)
**Drain Valve Location:** Front Compartment
**Winding Material:** Aluminum
**Ambient Temperature Rating:** 40°C
**Sound Level:** 48 dBA
**Elevation (Altitude):** 3300ft (1000 meters) Above Sea Level
**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
**Compartment Base Wireway Dimensions*:** 33.5"-L x 21"-D
**Compartment Cabinet Depth:** 19"-D
**Dimensions*:** 33.86"-W x 37.4"-D x 25.2"-H
**Dry Weight (w/o Oil)*:** 165.34 lbs
**Total Weight (Liquid Filled)*:** 648.15 lbs
*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-GMF-10KVA-SQ-LT-DF-A5-BM-AZ-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 make 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 10 kVA, the industrial transformer features a primary voltage of single-phase 24940Y/14400 Grounded Wye and a secondary voltage of single-phase 230V (L-N). 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 pad mount transformer features primary well bushings and standard spade connectors on the secondary side. Equipped with aluminum windings, this transformer consists of one coil and two core loops.

The MT-PML-R7-1P-GMF-10KVA-SQ-LT-DF-A5-BM-AZ-2B4-M1 is air cooled and does not have fans or mounting provisions for fans. This unit features a 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:** This transformer features non-PCB mineral oil insulation fluid. We offer transformers with biodegradable cooling fluid, if needed.

**Gauges:** This transformer does not feature temperature gauge, oil level gauge, or pressure/vacuum gauge.

**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 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-R7-1P-GMF-10KVA-SQ-LT-DF-A5-BM-AZ-2B4-M1 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-GMF-10KVA-SQ-LT-DF-A5-BM-AZ-2B4-M1 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, upstream 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-GMF-10KVA-SQ-LT-DF-A5-BM-AZ-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.

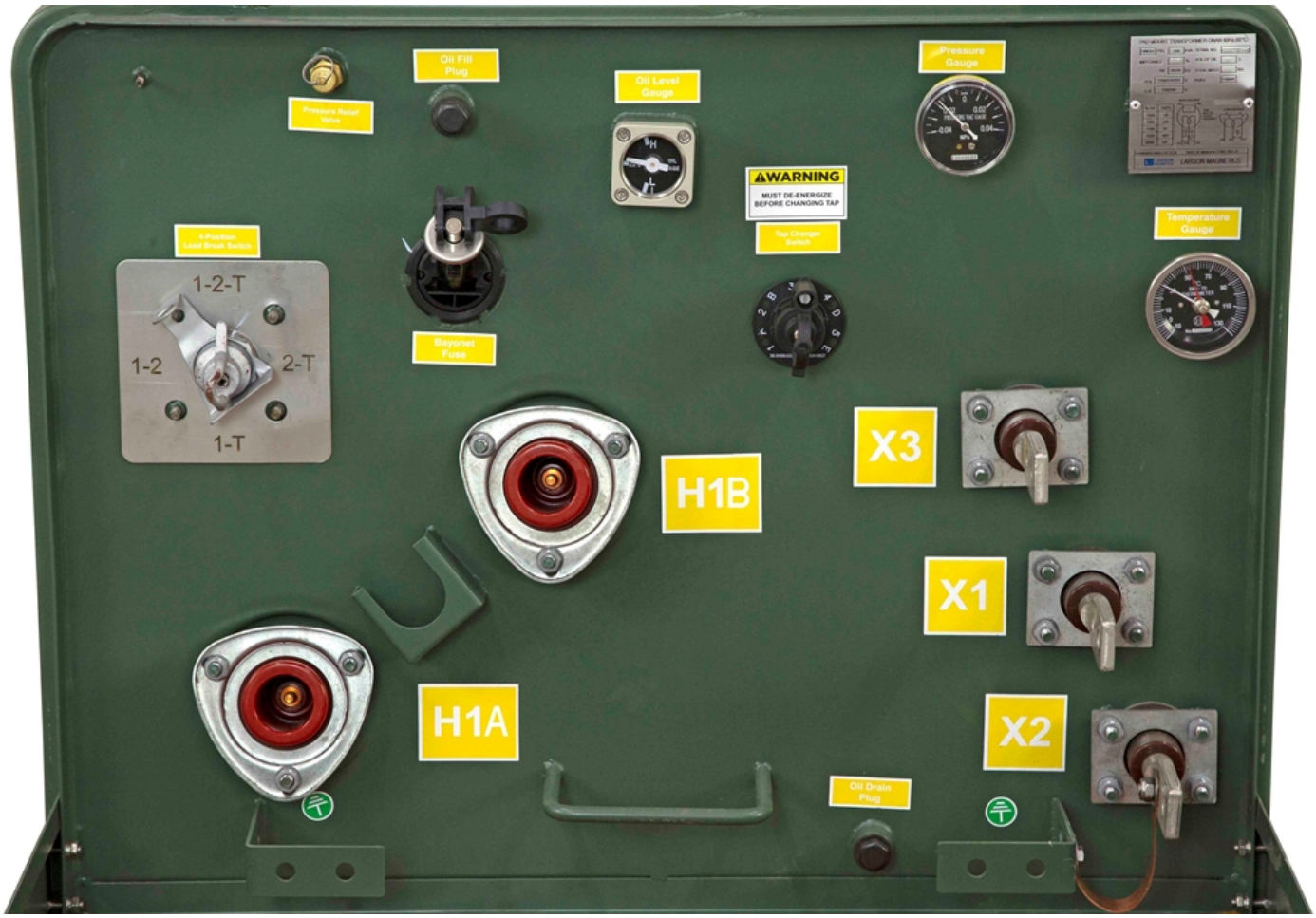
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# Frequently Asked Questions (FAQ)

There are no Faqs