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MT-PML-R7-1P-GMA-167KVA-SLZ-RT-DF-A6-BM-CZ-1C4-M1

167 KVA Pad Mount Transformer, 34500Y/19920 Grounded Wye Primary, 240/120V Secondary - Copper, ONAN/Bell Green

Product ID: 315523

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-GMA-167KVA-SLZ-RT-DF-A6-BM-CZ-1C4-M1 Pad Mount Transformer	Ratings
Transformer Type: Pad Mounted, Compartmental-Type II	Meets/Exceeds DOE 2016 Efficiency Ratings
Transformer Configuration: Liquid Filled Pad Mounted	Meets/Exceeds CSA Efficiency Ratings
Transformer Feed Type: Radial Feed	Complies with ANSI / IEEE C57.12.00
Transformer Polariry: Additive	Complies with ANSI / IEEE C57.12.131
Phase: Single Phase (Connects to 3-Phase electrical grid)	Complies with ANSI / IEEE C57.12.25
Capacity: 167 KVA	Complies with ANSI / IEEE C57 12.28
Vector Group: II6	Complies with ANSI / IEEE C57 12.29
Primary Voltage: 34500Y/19920	Complies with ANSI / IEEE C57 12.35
Primary Voltage Switch: N/A	Complies with ANSI / IEEE C57 12.38
Primary Voltage Class: 35 kV Class	Complies with ANSI / IEEE C57.12.70
Primary Phasor: Grounded Wye	Complies with ANSI / IEEE C57.12.110
Primary BIL: 200 KV	Complies with ANSI / IEEE C37.47
Secondary Voltage: 240/120V	Complies with ANSI / IEEE C62.11
Secondary Voltage Class: 1.2 kV Class	Complies with ANSI / IEEE C62.22
Secondary Phasor: Dual Windings, Single Phase	Complies with ANSI / IEEE 386
Secondary BIL: 30 KV	Complies with ANSI / IEEE C2
Withstand Capability per unit of base current (symmetrical): 35	Complies with ANSI / IEEE C57.12.21
Frequency: 60 Hz	Complies with CSA C802.3
Temperature Rise: 65°C	Complies with ANSI Z535.4
Insulation Rating: Class E Insulation - 120°C, 248°F	Complies with ASTM D3487
Cooling Class: ONAN; Self-Cooled	Complies with ASTM D6871
Forced Air (Fans): None	Complies with NEMA 260-1996
Tap Changer: 5-Position De-energized Tap Changer	Complies with 10 CFR Part 431
Tap Qty: (2) FCAN Above Taps, (2) FCBN Below Taps	Complies with CSA C2.1-06
Tap %: 2.5%	Complies with CSA C50

Tap Changer Switch Rating: 300A, 35 kV
Tap Changer Switch Location: H.V Side
Impedance: 1.0-4.5%
Primary Connection Type: Dead Front
Primary Termination Arrangement: ANSI Type II Arrangement
Primary Termination: Externally Clamped Well Bushing, w/ Removable Studs, 200A Load Break Elbow w/ Inserts
Primary Connection Qty: (1) Primary Connection for use w/ Elbow Connector
Primary Parking Stand Qty: (1) Welded Bracket for Installing Accessory Parking Stand Bushings
Primary Bushing Rating: 35 kV Class, 200 kV BIL, 200A, Load Break, IEEE 386 Color Red
Primary Surge Arrestors: Provisions Only
Primary Surge Arrestor Voltage Rating: N/A
Primary Surge Arrestor MCOV Rating: N/A
Primary Over Current Protection (OCP): Bayonet, fault-sensing fuses with internally mounted partial range current limiting fuses
Primary Over Current Protection Method: Fused, Oil-Immersed
Primary Over Current Protection Holder: Bayonet Fuse Holder w/ Flapper Valve and External Drip Shield
Primary Neutral Connection: Primary Neutral Internally Bonded to Tank
Primary Grounding Provisions: (1) Welded Ground Steel Pad, 1/2”-13 UNC Tapped Hole, 7/16” Deep Bung & Copper Ground Strap
Secondary Connection Type: Live Font
Secondary Termination Arrangement: ANSI Type II Arrangement
Secondary Terminal: High temperature epoxy insulated and be of integral (one piece) construction
Secondary Connections: Bi-metallic for use with either copper or aluminum conductors, w/ 1”-14 studs, capable of handling six (6) number 10 AWG through 500 MCM conductors, CMC/ESP RLSS500-6I
Secondary Over Current Protection (OCP): N/A
Secondary Connection Qty: (3)
Secondary Neutral Connection: Secondary X2 Neutral Grounded to Tank via 1/2”-13 UNC Tapped Hole, 7/16” Deep Bung & Copper Ground Strap
Secondary Grounding Provisions: (1) Welded Ground Steel Pad, 1/2”-13 UNC Tapped Hole, 7/16” Deep Bung & Copper Ground Strap
Metering Current Transformer (CT): N/A
Metering Panel: N/A
Auxiliary Control Panel : N/A
Load Break Switch: 4-Postion LBOR, Hot Stick Operable
Load Break Switch Qty: 1
Load Break Switch Rating: 200-Amp, 35 kV
Load Break Switch Location: Front Compartment
Efficiency Standard(s): Meets DOE 2016 Standards, Meets CSA Standards Meets ANSI/IEEE Standards
K-Factor Rating (Harmonic Mitigation): K-1 (Standard)
Pulse Drive Rating: N/A
Insulation Fluid: Mineral Oil, Type II, Non-PCB Fluid
Fluid (Oil) Capacity*: 112.44 Gallons
Fluid (Oil) Weight*: 1014.11 Lbs
Liquid Level Indicator: Analog Gauge
Temperature Indicator: Analog Dial Gauge
Pressure/Vacuum Indicator: Analog Dial Gauge
Pressure Relief Device: Included, Automatic Action
Fault Indicator: N/A
Gas Sampler Valve: N/A
Fill Valve: 1/2" NPT w/ Removable Bolt Plug
Fill Valve Location: Front Compartment
Drain Valve: 1/2" NPT w/ Removable Bolt Plug, w/o Sampler Valve
Drain Valve Location: Front Compartment
Winding Material: Copper
Ambient Temperature Rating: 40°C
Ambient Operating Temperature Range: -8°C to +40°C (-18.4°F to +103.9°F)
Sound Level: 55 dBA
Seismic Zone: Zone 0
Elevation (Altitude): 495ft Above Sea Level or Below
Core Material: Grain Oriented Steel
Tank Material: Coated Steel
Cabinet Material: Coated Steel

Complies with CSA C88
Complies with CSA C88.1
Complies with CSA C88-16
Complies with CSA C227.3
Complies with CSA C802.1
Complies with CSA C802.2

Features

Penta-head Bolt Entry Assembly
High-Fire Point Insulating Fluid
Non-PCB Insulating Fluid
Tamper Proof Housing
NEMA 3R Wiring Compartment
Lift-Up Pad lockable Lid

Efficiency: 99.10%

Based on transformer operating at 50% of nameplate base kVA.

Load Losses Based on 85°C Reference Temp.

No Load Loss (in watts)*: +/- 455W
Load Loss (in watts)*: +/- 1,833W
Total Load Loss (in watts)*: +/- 2,288W

Note: Losses offered are typical only, not guaranteed

Labeling:
Externally Stencilled (Painted) KVA Rating
Externally Stencilled (Painted) Voltage Rating
External Non-PCB Label
External Warning & Danger Label
External Barcode Label
Internal Busing & Accessory Labeling
Stainless Steel Riveted Nameplate

Factory Tests:
Winding Resistance Test
Insulation Resistance Test
Voltage Ratio Error Test
Short-circuit Impedance Test
No-load Loss (Wattage) Test
Load Loss (Wattage) Test
Induced Voltage Withstand Test
Separate Source Voltage Withstand Test
Pressure Integrity Test

Shipping:
Shipped on pallet on open flatbed
Palletized on Wooden Pallet w/ Skid Pockets
Pallet Skid Facing Outward Sides of Truck
Note: For low quantity purchases, enclosed truck can be requested
Note: Crated shipping in lieu of palletizing can be done upon request for an additional fee

Base Platform Material: Coated Steel
Portability: Lifting lugs
Housing Type: Low Profile Air-Filled Cabinet w/ Locking Hinged Door, HV/LV in Same Compartment, Tamper Resistant, w/ Pad-lockable Lift-up Lid
Enclosure Rating: NEMA 3R Weatherproof Wiring Cabinet, Sealed Tank
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*: 31"-W x 25"-D
Dimensions*: 43.31"-W x 57.09"-D x 43.31"-H
Dry Weight (w/o Oil)*: 1,036.16 Lbs
Total Weight (Liquid Filled)*: 2,535.27 Lbs
*Please note that numbers are approximate and subject to change

Special Orders - Requirements
Contact us for special requirements
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The MT-PML-R7-1P-GMA-167KVA-SLZ-RT-DF-A6-BM-CZ-1C4-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 167 kVA, the industrial transformer features a primary voltage of single-phase 34500Y/19920 Grounded Wye and a secondary voltage of single-phase 240/120V. The unit has a primary loop feed and dead-front primary connections. We also offer systems with radial feed and live front primary/live front secondary 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.
The MT-PML-R7-1P-GMA-167KVA-SLZ-RT-DF-A6-BM-CZ-1C4-M1 is air cooled and does not have fans or mounting provision 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: The MT-PML-R7-1P-GMA-167KVA-SLZ-RT-DF-A6-BM-CZ-1C4-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 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 does not come with surge protection.
Load Breaker Switch: The MT-PML-R7-1P-GMA-167KVA-SLZ-RT-DF-A6-BM-CZ-1C4-M1 is not equipped with a load break switch.
Valves: The MT-PML-R7-1P-GMA-167KVA-SLZ-RT-DF-A6-BM-CZ-1C4-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-GMA-167KVA-SLZ-RT-DF-A6-BM-CZ-1C4-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)

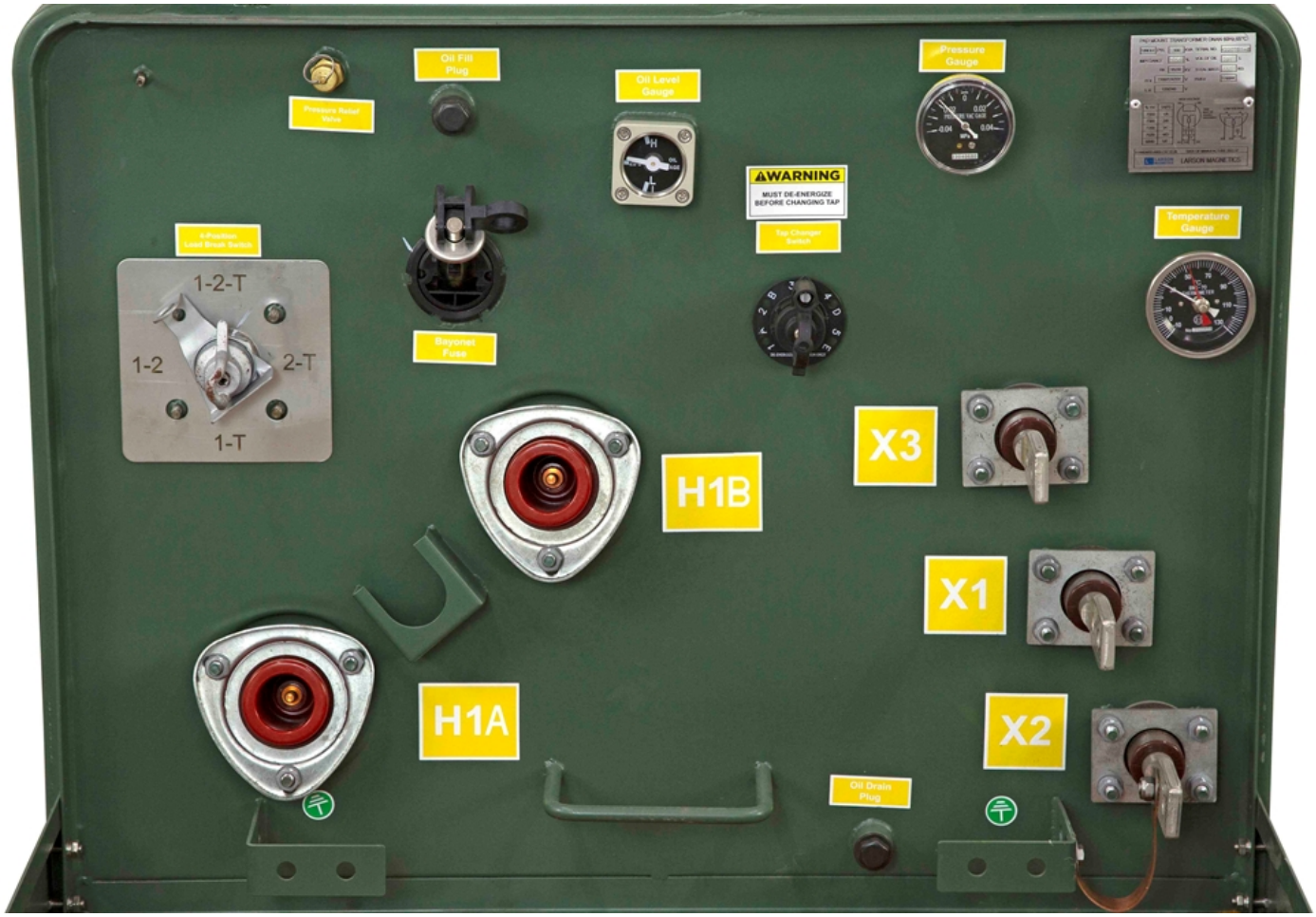
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