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

MT-PML-R7-3P-GMR-45KVA-YE-LT-DF-A6-BM-CS-2C4-M1

45 KVA Pad Mount Transformer - 12470Y/7200 Grounded Wye Primary, 480Y/277 Wye-N Secondary - Copper, 304 Stainless Steel, ONAN/Bell Green

Product ID: 317421



Image: MT-PML-R7-3P-GMR-45KVA-YE-LT-DF-A6-BM-CS-2C4-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-R7-3P-GMR-45KVA-YE-LT-DF-A6-BM-CS-2C4-M1 Pad Mount Transformer	Ratings
Transformer Type: Pad Mounted, Compartmental-Type	Meets/Exceeds DOE 2016 Efficiency Ratings
Transformer Configuration: Liquid Filled Pad Mounted	Meets/Exceeds CSA Efficiency Ratings
Transformer Feed Type: Loop Feed	Complies with ANSI / IEEE C57.12.00
Operation: Step-Down Operation (Not Approved for Step-Up)	Complies with ANSI / IEEE C57 12.28
Phase: Three Phase	Complies with ANSI / IEEE C57 12.29
Capacity: 45 KVA	Complies with ANSI / IEEE C57 12.34
Vector Group: YNyn0	Complies with ANSI / IEEE C57 12.35
Primary Voltage: 12470Y/7200	Complies with ANSI / IEEE C57.12.70
Primary Voltage Switch: N/A	Complies with ANSI / IEEE C57.12.110
Primary Voltage Class: 15 kV Class	Complies with ANSI / IEEE C57.12.131
Primary Phasor: Grounded Wye	Complies with ANSI / IEEE C62.11
Primary BIL: 95 KV	Complies with ANSI / IEEE C62.22
Secondary Voltage: 480Y/277	Complies with ANSI / IEEE 386

Secondary Voltage Class: 1.2 kV Class	Complies with ANSI / IEEE C2
Secondary Phasor: Wye-N	Complies with ANSI / IEEE C37.47
Secondary BIL: 30 KV	Complies with ANSI Z535.4
Frequency: 60 Hz	Complies with ASTM D3487
Temperature Rise: 65°C	Complies with ASTM D6871
Insulation Rating: Class E Insulation - 120°C, 248°F	Complies with NEMA 260-1996
Cooling Class: ONAN; Self-Cooled	Complies with 10 CFR Part 431
Forced Air (Fans): None	Complies with CSA C2.1-06
Tap Changer: 5-position De-energized Tap Changer	Complies with CSA C50
Tap Qty: (2) FCAN Above Taps, (2) FCBN Below Taps	Complies with CSA C88
Tap %: 2.5%	Complies with CSA C88.1
Tap Changer Switch Rating: 200-Amp, 15 kV	Complies with CSA C88-16
Tap Changer Switch Location: High Voltage (HV) [Left Side] Front Compartment	Complies with CSA C227.4
Impedance: 1.0-4.5% Typical	Complies with CSA C227.5
Primary Connection Type: Dead Front	Complies with CSA C802-3
Primary Termination Arrangement: V Terminal Arrangement	Complies with CSA C802.1
Primary Termination: Externally Clamped Well Bushings w/ Removable Studs, 200A Load Break Elbows w/ Inserts	
Primary Connection Qty: (6) Primary Connections for use w/ Elbow Connectors	**Features**
Primary Parking Stand Qty: (6) Welded Brackets for Installing Accessory Parking Stand Bushings	Penta-head Bolt Entry Assembly
Primary Bushing Rating: 15 kV Class, 95 kV BIL, 200A, Load Break, IEEE 386 Color Red	High-Fire Point Insulating Fluid
Primary Neutral Connection: Primary H0 Neutral Internally Bonded to Tank	Non-PCB Insulating Fluid
Primary Surge Arrestors: Included, (3) High Voltage Elbow Surge Arrestors	Tamper Proof Housing
Primary Surge Arrestor Voltage Rating: 15 kV Class Elbow Arrestor	Hinged Front Compartment Doors, Pad Lockable
Primary Surge Arrestor MCOV Rating: 12.7 kVrms	NEMA 3R Wiring Compartment
Primary Overcurrent Protection (OCP): Bayonet Expulsion Fuses in series w/ Partial-Range Current-Limiting Fuses, 50 kA Fault Current	Hot Stick Included, HV Door Mount
Primary Overcurrent Protection Method: Fused, Oil-Immersed	
Primary Overcurrent Protection Holder: Bayonet Fuse Holder w/ Flapper Valve and External Drip Shield	**Efficiency %:** 98.50%
Primary Grounding Provisions: (1) Ground Pad with NEMA 2-hole Configuration	*Based on transformer operating at 50% of nameplate base kVA.*
Secondary Connection Type: Live	

Front

Secondary Termination Arrangement: Staggered Terminal Arrangement

Secondary Connections: NEMA Spade Terminals, 8-Hole Spade, Externally Clamped, Accepts up to (8) Double Lug connections with (4) cables per side of Spade connector

Secondary Connection Qty: (4) Externally Clamped One-Piece Epoxy Bushings Copper Threaded Studs

Secondary Connection Supports: N/A

Secondary Overcurrent Protection (OCP): N/A

Secondary Neutral Connection: Secondary X0 Neutral Grounded to Tank via 1/2"-13 UNC Tapped Hole, 7/16" Deep Bung & Copper Ground Strap

Secondary Grounding Provisions: (1) Ground Pad with NEMA 2-hole Configuration

Metering Current Transformer (CT): N/A

Metering Panel: N/A

Auxiliary Control Panel: N/A

Load Break Switch: 4-Position Load Break Switch, Gang Operated

Load Break Switch Qty: (1)

Load Break Switch Rating: 200-Amp, 15 kV

Load Break Switch Location: High Voltage (HV) 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 Insulating Fluid, Non-PCB Fluid

Fluid (Oil) Capacity*: 70 Gallons

Fluid (Oil) Weight*: 539 lbs

Liquid Level Indicator: Analog Dial 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: Included, Schrader Valve

Fill Valve: 1" NPT Port w/ Removable Bolt Plug

Fill Valve Location: Front Compartment

Load Losses Based on 85°C Reference Temp.

No Load Loss (in watts): +/- 114W

Full Load Loss (in watts) at 100%: +/- 570W

Total Load Loss (in watts) at 100%: +/- 684W

Total Losses at 55°C LL Temp.& 20°C NL Temp.

Total Load Loss (in watts) at 50%: +/- 248W

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

Drain Valve: 1" NPT Port w/ 5/8" NPT Sampler Valve	Dissolved Gas Analysis
Drain Valve Location: Front Compartment	
Pressure Relief Valve: Included	**Shipping:**
Winding Material: Copper	Shipped on pallet on open flatbed Palletized on Wooden Pallet w/ Skid Pockets
Ambient Temperature Rating: 40°C	
Ambient Operating Temperature Range: -40°C to +40°C (-50°F to +104°F)	Pallet Skid Facing Outward Sides of Truck
Sound Level: 48 dBA	***Note:** Crated shipping in lieu of palletizing can be done upon request for an additional fee*
Elevation (Altitude): 3300ft (1000 meters) Above Sea Level	
Core Material: Grain Oriented Steel	
Tank Material: 304 Stainless Steel	
Cabinet Material: 304 Stainless Steel	
Base Platform Material: 304 Stainless Steel	
Hardware Material: 304 Stainless Steel	
Portability: Lifting lugs, provisions for jacking under base, w/ base construction suitable for using rollers or skidding	
Housing Type: Compartmental Air-Filled Cabinet w/ Locking Doors, HV Compartment Left, LV Compartment Right, Steel Barrier Separation, HV Door Spring-Loaded Release Pin in LV Compartment	
Enclosure Rating: NEMA 3R Weatherproof Wiring Cabinet, Sealed Tank	
Seismic Rating: Yes	
Paint Type: Weatherproof and UV Resistant Epoxy Coating and Undercoating	
Finish Color: Munsell™ 7.0 GY 3.29/1.5 Bell Green	
Mounting: Pad Mounted	
Conduit Opening: Bottom Feed Underground Entry/Exit	
HV Compartment Base Wireway Dimensions*: 20"-W x 5"-W	
LV Compartment Base Wireway Dimensions*: 16"-W x 5"-D	
MV/LV Compartment Cabinet Depth*: 18"-D	**Special Orders - Special Requirements**
Tank Cover Access Handhole: N/A	Contact us for special requirements
Dimensions*: 68"-W x 39"-D x 50"-H	**Toll Free:** 1-800-369-6671
Dry Weight (w/o Oil)*: 663 lbs	**Intl:** 1-903-270-1187
Total Weight (Liquid Filled)*: 1,701 lbs	**Fax:** 1-903-765-7664
*Please note that numbers are approximate and subject to change	**E-mail:** sales@larsonelectronics.com

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Frequently Asked Questions (FAQ)

There are no Faqs