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

Product ID: 311242

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



Image:

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-DMP-167KVA-SLZ-LT-DF-A6-BF-CZ-2C6-M1 1PH Pad Mount Transformer

Transformer Type: Pad Mounted, Compartmental-Type, ANSI Type I
Transformer Configuration: Liquid Filled Pad Mounted
Transformer Feed Type: Loop Feed
Phase: Single Phase
Capacity: 167 KVA
Primary Voltage: 13800V
Primary Phasor: Delta, w/ Center Tapped
Primary BIL: 110 KV
Secondary Voltage: 120/240V (L-N-L)
Secondary Phasor: Dual Winding, Single Phase
Secondary BIL: 10 KV
Frequency: 60 Hz
Temperature Rise: 65°C
Cooling Class: KNAN; Self-Cooled
Forced Air (Fans): None
Tap Changer: 5-Position Tap Changer
Tap Qty: (2) FCAN & (2) FCBN
Tap %: 2.5%
Impedance: 1.0-4.5% Typical
Primary Connection Type: Dead Front
Primary Termination: 15kV, 200A Load break elbow # LE215DD00T, bushing wells w/ bushing well inserts installed, bushings removable, supplied with removable stud. Size for 4/0 AWG Cable

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
Penta-head Entry Assembly
Non-PCB Insulating Fluid
Tamper Proof Housing
Side Opening Doors

Efficiency: 99.1%
No Load Loss (in watts): +/- 455W
Full Load Loss (in watts): +/- 1,833W
Total Loss (in watts): +/- 2,288W

Primary Connection Qty: (4)
Primary Parking Stand Qty: (4) Welded Brackets for Installing Accessory Parking Stand Bushings
Primary Grounding Provisions: (1) Grounding lug, accepts #6 to 250MCM copper
Primary Over Current Protection (OCP): (4) Bayonet Type Expulsion Fuses In Series With Partial Range Current Limiting Fuses
Primary Over Current Protection Method: Weak-Link Expulsion Fuses, Current Limiting Fuses
Primary Over Current Protection Holder: Bayonet Fuse Holder w/ Drip Shield
Primary Surge Arrestors: Included, (3) High Voltage Elbow Surge Arrestors, Cooper P/N: 3238018C18M
Primary Surge Arrestor Voltage Rating: 18 kV Class
Primary Surge Arrestor MCOV Rating: 15.3 kVrms
Secondary Connection Type: Live Front
Secondary Connections: NEMA 4-Hole Spade Terminals
Secondary Connection Qty: (3)
Secondary Grounding Provisions: (1) Grounding lug, accepts #6 to 250MCM copper
Load Break Switch: (3) 2-Position Load Break Switch, Feed-thru Config, 200A
Efficiency: Meet DOE 2016, 10 CFR Part 431 Standards
Insulation Fluid: FR-3 Insulating Fluid, Non-PCB
Fluid Capacity: 80.67 Gallons
Liquid Level Indicator: Analog Gauge
Temperature Indicator: Analog Gauge
Pressure/Vacuum Indicator: Analog Gauge
Pressure Relief Device: N/A
Pressure Relief Valve: Included, Pull Tab
Fill Valve: N/A
Drain Valve: N/A
Front: Dead Front Primary, Live Front Secondary
Winding Material: Copper
Ambient Temperature Range: -11.7°C to +34.4°C
Altitude: 3300ft (1000 meters) Above Sea Level
Humidity: 76% (Summer) / 59% (Winter)
Sound Level: 55 dBA, Complies to NEMA TR1
Seismic Rating: Moderate, Complies with IEEE 693 Standard
Tank Material: Coated Steel
Cabinet Material: Coated Steel
Base Platform Material: Coated Steel
Enclosure Rating: NEMA 3R
Housing Type: Tamper Resistant w/ Side Opening Doors & (2) Parking Stands
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: 55.12"-W x 45.67"-D x 33.07"-H
Weight: 2,976.19 lbs
*Please note that numbers are approximate and subject to change

Special Orders - 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 MT-PML-R7-1P-DMP-167KVA-SLZ-LT-DF-A6-BF-CZ-2C6-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 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 167 kVA, the industrial transformer features a primary voltage of single-phase 13800V Delta w/ Center Tapped and a secondary voltage of single-phase center tapped 120/240V (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 threaded stud connectors on the secondary side. Equipped with copper windings, this transformer consists of one coil and two core loops.

The MT-PML-R7-1P-DMP-167KVA-SLZ-LT-DF-A6-BF-CZ-2C6-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-DMP-167KVA-SLZ-LT-DF-A6-BF-CZ-2C6-M1 features FR-3 insulation fluid. We offer transformers with biodegradable oil fluid, if needed.

Gauges: The following gauges are included with the system: liquid level and pressure/vacuum gauges. Standard liquid level and pressure/vacuum gauges are analog, manual reading types. These gauges do not have auxiliary contacts.

Fault Pressure Devices: A pressure relief valve is included with this unit. The included pressure relief valve features automatic action.

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 surge arresters.

Load Break Switch: This transformer is equipped with three independently operated 2-position load break switches on the primary side. One is for the transformer, one is for the secondary A lines, and one is for the secondary B lines.

Valves: The MT-PML-R7-1P-DMP-167KVA-SLZ-LT-DF-A6-BF-CZ-2C6-M1 is equipped with a fill valve, drain plug with sample 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.

Enclosure: The enclosure and tank on the MT-PML-R7-1P-DMP-167KVA-SLZ-LT-DF-A6-BF-CZ-2C6-M1 is constructed from steel for corrosion and rust resistance. The enclosure is equipped with side opening doors and a pair of parking stands.

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-DMP-167KVA-SLZ-LT-DF-A6-BF-CZ-2C6-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.

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

Frequently Asked Questions (FAQ)

There are no Faqs

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



Image:

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



Image:

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



Image:

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



Image:

Product ID: 311242

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **Operations Manual**(https://www.larsonelectronics.com//images/product/Manual/311242.PDF)
- **HigResPic1**(https://www.larsonelectronics.com//images/product/HigResPic1/311242.JPG)
- **HigResPic2**(https://www.larsonelectronics.com//images/product/HigResPic2/311242.JPG)
- **HigResPic3**(https://www.larsonelectronics.com//images/product/HigResPic3/311242.JPG)
- **HigResPic4**(https://www.larsonelectronics.com//images/product/HigResPic4/311242.JPG)
- **HigResPic5**(https://www.larsonelectronics.com//images/product/HigResPic5/311242.JPG)
- **HigResPic6**(https://www.larsonelectronics.com//images/product/HigResPic6/311242.JPG)
- **HigResPic7**(https://www.larsonelectronics.com//images/product/HigResPic7/311242.JPG)
- **Video1**(https://www.youtube.com/watch?v=mpt7J5hdJp8)
- **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)