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MT-PMUT-R106-3P-DMQ-750KVA-YT-FC-A6-BM-CS-ZCZ-M1

750 KVA 3-Phase Submersible Distribution Transformer, Vault Mount, 13200V Delta Primary, 208Y/120 Wye-N Secondary, Mineral Oil, Copper, 304L Stainless Steel, ONAN, Tap Changer, Light Grey

Product ID: 309644



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-PMUT-R106-3P-DMQ-750KVA-YT-FC-A6-BM-CS-ZCZ-M1 Submersible Vault Distribution Transformer

Transformer Type: Submersible Vault Distribution Transformer
Transformer Configuration: Underground Vault Installation, Suitable for Temporary Submersion
Transformer Feed Type: Loop Feed
Operation: Step-Down Operation (Not Approved for Step-Up)
Phase: Three Phase
Capacity: 750 KVA
Vector Group: Dd0
Primary Voltage: 13200V
Primary Voltage Switch: N/A
Primary Voltage Class: 15 kV Class
Primary Phasor: Delta
Primary BIL: 95 kV
Secondary Voltage: 208Y/120

Secondary Voltage Class: 1.2 kV Class

Secondary Phasor: Wye-N
Secondary BIL: 30 KV
Frequency: 60 Hz
Temperature Rise: 65°C
Insulation Rating: Class E Insulation - 120°C, 248°F
Cooling Class: ONAN; Self-Cooled
Forced Air (Fans): None
Tap Changer: 5-position Tap Changer, Hot Stick Operated
Tap Qty: (2) FCAN Above Taps, (2) FCBN Below Taps
Tap %: 2.5%

Ratings

Meets/Exceeds DOE 2016 Efficiency Ratings

Meets/Exceeds CSA Efficiency Ratings

Complies with ANSI / IEEE #C57.12.00
Complies with ANSI / IEEE #C57.12.24
Complies with ANSI / IEEE #C57.12.31
Complies with ANSI / IEEE #C57.12.32
Complies with ANSI / IEEE C57.12.70
Complies with ANSI / IEEE C57.12.80
Complies with ASTM D3487
Non-PCB Insulating Fluid
Lifting Lugs Included

Efficiency: 99.20%
Based on transformer operating at 50% of nameplate base kVA.

Load Losses Based on 85°C Reference Temp.
No Load Loss (in watts): TBD
Full Load Loss (in watts): TBD
Total Load Loss (in watts): TBD

Total Losses at 55°C LL Temp.& 20°C NL Temp.
Total Load Loss (in watts) at 50%: TBD
Note: Losses offered are typical only, not guaranteed

Tap Changer Switch Rating: 600-Amp, 15 kV
Tap Changer Switch Location: High Voltage (HV) [Left Side] Front Compartment
Impedance: 1.2-6.0% Typical, 5.75% Target
Primary Connection Type: Dead Front
Primary Termination Arrangement: Inline Terminal Arrangement
Primary Termination: Externally Clamped Integral Bushings w/ Removable Studs, 600A Dead Break Elbows
Primary Connection Qty: (6) Primary Connections for use w/ Elbow Connectors
Primary Parking Stand Qty: (6) Welded Brackets for Installing Accessory Parking Stand Bushings
Primary Bushing Rating: 15 kV Class, 95 kV BIL, 600A, Load Break, IEEE 386 Color Brown
Primary Neutral Connection: N/A
Primary Surge Arrestors: N/A
Primary Surge Arrestor Voltage Rating: N/A
Primary Surge Arrestor MCOV Rating: N/A
Primary Surge Arrestor Mounting Provision: (3) Mounting Provision (with threaded hole) for Installing a Lightning Arrestor On H1, H2, H3 Primary Terminals
Primary Over Current Protection (OCP): (3) Drywell current limiting fuse canisters with current limiting fuses and one spare fuse
Primary Over Current Protection Method: Fused
Primary Over Current Protection Holder: N/A
Primary Grounding Provisions: (1) NEMA Ground Bar attached to tank via (2) Welded Ground Bungs in HV Cabinet
Secondary Connection Type: Live Front
Secondary Termination Arrangement: Inline Terminal Arrangement
Secondary Connections: NEMA Spade Terminals, 4-Hole Spade, Externally Clamped, Accepts up to (4) Double Lug connections with (2) cables per side of Spade connector, Homac 125 series # FTU1- 4N with 4 outlets.
Secondary Connection Qty: (4) Externally Clamped One-Piece Epoxy Bushings Copper Threaded Studs
Secondary Connection Supports: N/A
Secondary Over Current Protection (OCP): N/A
Secondary Neutral Connection: Included
Secondary Grounding Provisions: (1) NEMA Ground Bar attached to tank via (2) Welded Ground Bungs in LV Cabinet
Metering Current Transformer (CT): N/A
Metering Panel: N/A
Auxiliary Control Panel : N/A
Load Break Switch: N/A
Load Break Switch Qty: N/A
Load Break Switch Rating: N/A
Load Break Switch Location: N/A
Efficiency Standard(s): Meets DOE 2016 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*: TBD
Fluid (Oil) Weight*: TBD
Liquid Level Indicator: Internal In-Tank Oil Level Line
Temperature Indicator: Included, Dial type thermometer
Pressure/Vacuum Indicator: Included
Pressure Relief Device: Included, IFD, Orca, 10PSI-A
Fault Indicator: N/A
Gas Sampler Valve: N/A
Fill Valve: 1" NPT Port w/ Removable Bolt Plug
Fill Valve Location: Top Lid
Drain Valve: 1" NPT Port w/ Removable Bolt Plug
Drain Valve Location: Top Lid
Winding Material: Copper
Winding Polarization Index: 2.0, Complies with ANSI C57.125-2015
Ambient Temperature Rating: 40°C
Ambient Operating Temperature Range: 0°C to +50°C
Sound Level: 58 dBA, Complies with NEMA TR-1
Elevation (Altitude): 3300ft (1000 meters) Above Sea Level
Core Material: Grain Oriented Silicon Steel
Tank Material: 304L Stainless Steel
Cabinet Material: 304L Stainless Steel
Base Platform Material: 304L Stainless Steel
Portability: Lifting Lugs, Provisions for Jacking Under Base, w/ Base Construction Suitable for Using Rollers or Skidding

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: Crated shipping in lieu of palletizing can be done upon request for an additional fee

Labels:
NON-PCB Insulating Fluid
"Peligro - Alto Voltaje"

Housing Type: Sealed Tank for Vault Installations
Enclosure Rating: NEMA 3R
Seismic Rating: Yes
Paint Type: Weatherproof and UV Resistant Epoxy Coating and Undercoating
Finish Color: Munsell™ 5BG 7.0/0.4 Light Grey (ANSI #70)
Mounting: Floor Mount
Lifting Lugs: Included
Dimensions*: TBD
Dry Weight*: TBD
Total Weight (Liquid Filled)*: TBD (Not Exceeds (10,000 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-PMUT-R106-3P-DMQ-750KVA-YT-FC-A6-BM-CS-ZCZ-M1 from Larson Electronics is a 3-Phase Submersible Vault Distribution Transformer that offers powerful, reliable, and efficient power distribution in 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. This submersible vault power distribution system is designed for underground installation in concrete vaults where flooding may happen and the transformer may be temporarily submerged.

PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO POWER DISTRIBUTION PANELS, TRANSFORMERS, OR SUBSTATIONS*

Transformer Features: With a transformer rating of 750 KVA, this submersible industrial transformer features a primary voltage of 13200V Delta and a secondary voltage of three-phase 208Y/120 Wye-N. This transformer connects to a three-phase electrical grid system to provide three-phase low voltage power for indoor distribution. This transformer features porcelain high-voltage, six load break bushings on the primary side and three bushings on the secondary side. Equipped with copper windings and a grain oriented steel core, this submersible distribution transformer consists of one coil and two core loops. Tin plated terminals on the primary and secondary side accepts copper or aluminum connections.
The MT-PMUT-R106-3P-DMQ-750KVA-YT-FC-A6-BM-CS-ZCZ-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 submersible design makes this unit suitable for use in concrete vaults where flooding may occur or in other areas where the transformer may be temporarily submerged such as underground.
Insulation Fluid: The MT-PMUT-R106-3P-DMQ-750KVA-YT-FC-A6-BM-CS-ZCZ-M1 features mineral oil insulating fluid. Internal marking is available for proper oil level monitoring. We offer transformers with biodegradable or FR-3 fluids, if needed.
Gauges: There are liquid level, temperature, and pressure/vacuum gauges. Standard liquid level, temperature, and pressure/vacuum gauges are analog, manual reading types.
Pressure Relief Device: A pressure relief device is included with this transformer.
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 is not equipped with high voltage elbow surge arresters. Mounting provisions for installing customer provided lightning arrestor on the H1, H2 and H3 primary terminals are included for installing arresters in-field.
Valves: The MT-PMUT-R106-3P-DMQ-750KVA-YT-FC-A6-BM-CS-ZCZ-M1 is equipped with fill and drain valves. The transformer can be filled via removing the top lid. A drain port w/ bolt plug is equipped.
Protection Fuses: This transformer contains fuses. 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 underground applications such as concrete vaults where flooding may occur. This submersible vault distribution transformer can be floor mounted.
Benefits: The MT-PMUT-R106-3P-DMQ-750KVA-YT-FC-A6-BM-CS-ZCZ-M1 heavy-duty 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: Underground installation applications, such as concrete vaults, where the transformer may be temporarily submerged due to flooding.
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.



Frequently Asked Questions (FAQ)