Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

MT-PMUT-R7-1P-GMQ-75KVA-SLZ-AZ-Z6-AM-CS-1C2-M1

75 KVA Submersible Distribution Transformer, Vault Mount, 13200Y/7620 Grounded Wye Primary, 240/120V Secondary, Mineral Oil, Copper, 304L Stainless Steel, ONAN, Light Grey

Product ID: 306780



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-R7-1P-GMQ-75KVA-SLZ-AZ-Z6-AM-CS-1C2-M1 Submersible Vault Distribution Transformer

Transformer Type: Submersible Vault Distribution Transformer
Transformer Configuration: Underground Vault Installation, Suitable for Temporary Submersion
Transformer Polarity Type: Additive
Phase: Single Phase
Capacity: 75 KVA
Primary Voltage: 13200Y/7620
Primary Voltage Switch: N/A
Primary Voltage Class: 15 kV Class
Primary Phasor: Grounded Wye
Primary BIL: 95 kV
Secondary Voltage: 240/120V (L-N-L)
Secondary Voltage Class: 1.2 kV Class
Secondary Phasor: Dual Winding Single Phase
Secondary BIL: 30 KV
Frequency: 60 Hz
Temperature Rise: 55°C
Insulation Rating: Class E Insulation - 120°C, 248°F
Forced Air (Fans): None
Cooling Class: ONAN; Self-Cooled
Tap Changer: N/A
Tap Qty: N/A
Tap %: N/A
Tap Changer Switch Location: N/A
Impedance: 1.0-4.5% Typical, 1.86-2.27% Target
Primary Connection Type: Load Break Bushing

Ratings

Meets/Exceeds DOE 2016 Efficiency Ratings
Complies with ANSI / IEEE #C57.12.00
Complies with ANSI / IEEE #C57.12.23
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): +/- 247W
Full Load Loss (in watts): +/- 845W
Total Load Loss (in watts): +/- 1,092W

Note: Losses offered are typical only, not guaranteed

Primary Bushing Rating: 8.3/14.4 kV Max. Continuous Voltage, 95 kV BIL, 200A, Load Break, IEEE 386 Color Red

Primary Bushing Arrangement: Top Mounted

Primary Termination: Externally Clamped Well Bushings w/ Removable Studs, 200A Load Break Elbows w/ Inserts
Primary Connection Qty: (1) Primary Connection for Use w/ Elbow Connectors
Primary Neutral Connection: Primary HO Neutral Internally Bonded to Tank
Primary Parking Stand Qty: (1) Welded Brackets for Installing Accessory Parking Stand Bushings
Primary Surge Arrestors: N/A
Primary Surge Arrestor Voltage Rating: N/A
Primary Surge Arrestor MCOV Rating: N/A
Primary Over Current Protection (OCP): Cooper Power Systems internally mounted 8.3kV rated under-oil full range current limiting (ELSP 80 A: Part # CBUC08030C100) & Cooper Power Systems medium voltage (8.3 kV) Magnex interrupter with indicator and low-oil safety float (P/N: MX1AE1SYE18)
Secondary Connection Type: Live Copper Studs
Secondary Connections: Lead Wire Cables, 2/0 AWG Copper Wire, 14" Length
Secondary Connection Qty: (3)
Secondary Connection Arrangement: Top Mounted at 5.5 to 7.5 inch center to center spacing
Secondary Neutral Connection: Secondary X2 Neutral Grounded to Tank via 1/2"-13 UNC Tapped Hole, 7/16" Deep Bung & Copper Ground Strap
Terminals: Tin Plated Primary and Secondary - Accepts Copper or Aluminum Connections
Grounding Pads: (2) ½" - 13 SST ground pads on the side of the tank below primary bushing 7" from top and 7" from base
Load Break Switch: 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 - Non PCB Fluid
Fluid Capacity*: TBD
Fluid Weight*: TBD
Liquid Level Indicator: Included, 304L Stainless Steel, Top Mounted, HLG-1065-316
Temperature Indicator: N/A
Pressure/Vacuum Indicator: N/A
Pressure Relief Device: Included, Automatic Action, 304L Stainless Steel, Top Mounted, Heartland HPV-1400
Fault Indicator: N/A
Oil Level Marking: Internal
Fill Valve: N/A (Tank Filled via Removable Lid)
Drain Valve: N/A
Winding Material: Copper
Ambient Temperature Rating: 40°C
Sound Level: 55 dBA
Elevation Level: N/A
Core Material: Grain Oriented Silicon Steel
Tank Material: 304L Stainless Steel
Housing Material: 304L Stainless Steel Steel w/ Corrosion Resistant Cover Band, Removable Top Cover
Hardware Material: 304L Stainless Steel Hardware

Nameplate Material: 304L Stainless Steel

Paint Type: Weatherproof and UV Resistant Epoxy Coating and Undercoating
Finish Color: ANSI 70 Light Grey
Mounting: Floor Mount
Lifting Lugs: Included
Dimensions*: 21"-W x 29"-D x 28"-H
Dry Weight*: TBD
Total Weight (Liquid Filled)*: TBD

*Please note that numbers are approximate and subject to change

Special Orders - Special Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
Fax: 1-903-498-3364
E-mail: sales@larsonelectronics.com

The MT-PMUT-R7-1P-GMQ-75KVA-SLZ-AZ-Z6-AM-CS-1C2-M1 from Larson Electronics is a 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 75 kVA, this submersible industrial transformer features a primary voltage of 13200Y/7620 Grounded Wye and a secondary voltage of single-phase 240/120V (L-N-L). This transformer connects to a three phase electrical grid system to provide single phase low voltage power for indoor distribution. This transformer features porcelain high-voltage, single load break bushing 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 #SKU is air cooled and does not have fans or mounting provision for fans. This unit features a 55°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-R7-1P-GMQ-75KVA-SLZ-AZ-Z6-AM-CS-1C2-M1 features mineral oil insulation fluid. Internal marking is available for proper oil level monitoring. We offer transformers with FR-3 oil fluid, if needed.

Gauges: There are no gauges on this transformer. We can add liquid level, temperature, and pressure/vacuum gauges at an additional cost. Standard liquid level, temperature, and pressure/vacuum gauges are analog, manual reading types.

Pressure Relief Device: An automatic 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 arrestor.

Valves: The MT-PMUT-R7-1P-GMQ-75KVA-SLZ-AZ-Z6-AM-CS-1C2-M1 is not equipped with fill or drain valves. The transformer can be filled via removing the top lid.

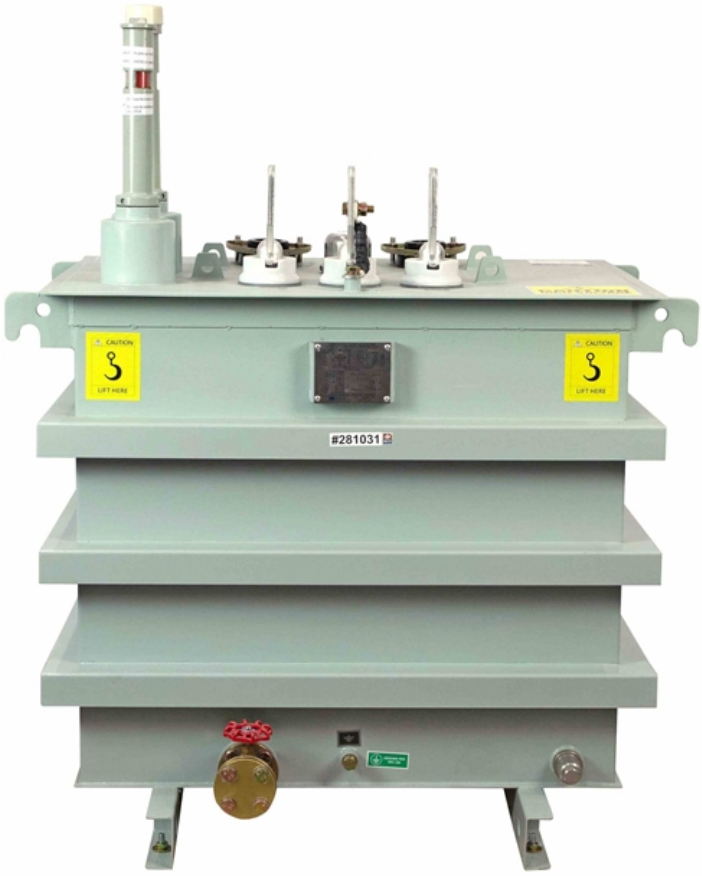
Protection Fuses: This transformer contains fuses. For units without protection fuses, up stream protection is provided. We recommend provisions for protection fuses when possible, as blown fuses may require more frequent oil changes.

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-R7-1P-GMQ-75KVA-SLZ-AZ-Z6-AM-CS-1C2-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.


CAUTION
LIFT HERE
CAUTION
LIFT HERE
#281031


NON-PCBs
H1
H2
LARSON ELECTRONICS
Tapping switch
X1
X3
CAUTION
HIGH VOLTAGE


GROUND PER
NEC 250



Frequently Asked Questions (FAQ)