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MT-UPM-R7-1P-GMR-25KVA-SLZ-BB-D6-BM-CZ-1ZZ-M1

25 KVA Overhead Distribution Transformer, Pole Mount - 12470Y/7200 Grounded Wye Primary, 120/240V Secondary, Mineral Oil, Copper, ONAN, Light Grey

Product ID: 316316

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



Image: MT-UPM-R7-1P-GMR-25KVA-SLZ-BB-D6-BM-CZ-1ZZ-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-UPM-R7-1P-GMR-25KVA-SLZ-BB-D6-BM-CZ-1ZZ-M1 Pole Mount Overhead Transformer

Transformer Type: Overhead Distribution Transformer, Conventional Type
Transformer Configuration: Liquid Filled Pole Mounted
Transformer Polarity Type: Additive
Phase: Single Phase
Capacity: 25 KVA
Primary Voltage: 12470Y/7200
Primary Voltage Switch: N/A
Primary Voltage Class: 15 kV Class
Primary Phasor: Grounded Wye
Primary BIL: 95 kV
Secondary Voltage: 120/240V (L-N-L)
Secondary Voltage Class: 1.2 kV Class
Secondary Phasor: Dual Windings, Single Phase
Secondary BIL: 30 KV
Frequency: 60 Hz
Temperature Rise: 65°C
Insulation Rating: Class E Insulation - 120°C, 248°F
Forced Air (Fans): None
Cooling Class: ONAN; Self-Cooled

Ratings

Meets/Exceeds DOE 2016 Efficiency Ratings
Complies with ANSI / IEEE #C57.12.00
Complies with ANSI / IEEE #C57.12.20
Complies with ANSI / IEEE #C57.12.28
Complies with ANSI / IEEE #C57.12.31
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: 98.70%
Based on transformer operating at 50% of nameplate base kVA.

Load Losses Based on 85°C Reference Temp.
No Load Loss (in watts): +/- 104W
Full Load Loss (in watts): +/- 377W
Total Load Loss (in watts): +/- 481W
Note: *Losses offered are typical only, not guaranteed*

Tap Changer: 5-Position Tap Changer
Tap Qty: (4) FCBN Below Taps
Tap %: 2.5%
Tap Changer Switch Location: HV Side
Impedance (@ 85°C): 1.8%
Primary Connection Type: Live Bushing Lug
Primary Termination: Porcelain High Voltage Bushings w/ Eyebolt Lugs, Accommodate with #8-#2
Primary Connection Qty: (2)
Primary Lightning Arrestors: N/A
Primary Lightning Mounting Provision: Mounting Provisions for Installing Lightning Arrestors on H1 and H2 Primary Terminals
Primary Lightning Arrestors Voltage Rating: N/A
Primary Lightning Arrestors MCOV Rating: N/A
Secondary Connection Type: Polymer Terminals, Accommodate with #6-#4/0
Secondary Connections: Eyebolt Lugs
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
Terminals: Tin Plated Primary and Secondary - Accepts Copper or Aluminum Connections
Grounding Provisions: (1) 1/2”-13 UNC Tapped Lug w/ Grounding Strap under X2 Bushing, (1) Cover Band to Tank Ground 1/2”-13 UNC Tapped Lug, (1) Tank Grounding Lug on Side of Tank
Transformer Protection: N/A
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*: 11 Gallons
Fluid Weight*: 99.21 lbs
Liquid Level Indicator: Internal In-Tank Oil Level Line
Temperature Indicator: N/A
Pressure/Vacuum Indicator: N/A
Pressure Relief Device: Included, Automatic Action
Fault Indicator: N/A
Oil Level Marking: Internal
Fill Valve: Included
Drain Valve: 1/2" NPT Port w/ Removable Bolt
Winding Material: Copper
Ambient Temperature Rating: 40°C
Sound Level: 48 dBA
Elevation Level: N/A
Core Material: Grain Oriented Steel
Tank Material: Coated Steel
Housing Material: Coated Steel w/ Corrosion Resistant Cover Band, Removable Top Cover
Hardware Material: Stainless Steel Hardware
Paint Type: Weatherproof and UV Resistant Epoxy Coating and Undercoating
Finish Color: Munsell™ 5BG 7.0/0.4 Light Grey (ANSI #70)
Mounting: Single Hanger Bracket
Mounting: Pole Mount via Hangar Bracket
Lifting Lugs: Included
Dimensions*: 21.65"-W x 24.8"-D x 40.16"-H
Tank Diameter*: 17.72" OD
Dry Weight*: 198.41 lbs
Total Weight (Liquid Filled)*: 470 lbs
*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: 1-903-765-7664
E-mail: sales@larsonelectronics.com

The MT-UPM-R7-1P-GMR-25KVA-SLZ-BB-D6-BM-CZ-1ZZ-M1 Overhead Distribution Transformer from Larson Electronics offers powerful, reliable and efficient power distribution in 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. This power distribution system is designed for overhead, pole mount installations and use. The MT-UPM-R7-1P-GMR-25KVA-SLZ-BB-D6-BM-CZ-1ZZ-M1 is equipped with a 5-position tap changer.

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

Transformer Features: With a transformer rating of 25 kVA, the industrial transformer features a primary voltage of single-phase 12470Y/7200 Grounded Wye and a secondary voltage of single-phase 120/240V (L-N-L). This pole mount transformer features porcelain high-voltage, dual bushings on the primary side and three bushings on the secondary side. Equipped with copper windings and a grain oriented steel core, this single-phase 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-UPM-R7-1P-GMR-25KVA-SLZ-BB-D6-BM-CZ-1ZZ-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 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-UPM-R7-1P-GMR-25KVA-SLZ-BB-D6-BM-CZ-1ZZ-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: The following gauges are included with the system:

• Liquid level indicator - internal line

These gauges do not have auxiliary contacts.

Pressure Relief Device: A pressure relief device is equipped 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 doesn't come with a lightning arrester on the primary terminals.

Lightning arrestors Designed for over-voltage and transient voltage protection, the components prevent damage caused by lightning, internal switching or voltage surges. We can offer models without high elbow surge arresters that have mounting provisions for customer-provided surge arresters.

Load Breaker Switch: The MT-UPM-R7-1P-GMR-25KVA-SLZ-BB-D6-BM-CZ-1ZZ-M1 does

not have a load breaker switch.

Valves: The MT-UPM-R7-1P-GMR-25KVA-SLZ-BB-D6-BM-CZ-1ZZ-M1 is not equipped with a fill valve and drain valve with sampler port.

Protection Fuses: This transformer does not contain fuses or circuit breakers. 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 and outdoor applications. Equipped with hangar brackets and lifting lugs, this overhead power distribution system can be mounted on poles.

Benefits: The MT-UPM-R7-1P-GMR-25KVA-SLZ-BB-D6-BM-CZ-1ZZ-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.

We offer completely self protected (CSP) pole mount overhead transformers at an additional cost.

Applications: General purposes, industrial sites, electrical rooms, public locations, 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)

There are no Faqs

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Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **Operations Manual**(https://www.larsonelectronics.com/images/product/Manual/316316.PDF)
- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/316316.JPG)
- **HigResPic2**(https://www.larsonelectronics.com/images/product/HigResPic2/316316.JPG)
- **HigResPic3**(https://www.larsonelectronics.com/images/product/HigResPic3/316316.JPG)
- **HigResPic4**(https://www.larsonelectronics.com/images/product/HigResPic4/316316.JPG)
- **HigResPic5**(https://www.larsonelectronics.com/images/product/HigResPic5/316316.JPG)
- **HigResPic6**(https://www.larsonelectronics.com/images/product/HigResPic6/316316.JPG)
- **HigResPic7**(https://www.larsonelectronics.com/images/product/HigResPic7/316316.JPG)
- **HigResPic8**(https://www.larsonelectronics.com/images/product/HigResPic8/316316.JPG)
- **Video1**(https://www.youtube.com/watch?v=GPRqYY_mJNI)
- **Video2**(https://www.youtube.com/watch?v=oZDa7R7XEZ0)
- **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)