Larson Electronics LLC
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Product ID: 297473

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-UPM-R7-1P-GMA-100KVA-SLU-BF-B6-BM-CZ-2Z2-M1 Pole Mount Overhead Transformer

Transformer Type: Overhead Distribution Transformer, Conventional Type
Transformer Configuration: Liquid Filled Pole Mounted
Transformer Polarity Type: Subtractive
Phase: Single Phase
Capacity: 100 KVA
Primary Voltage: 34500GrdY/19920 Grounded Wye (2 Wire)
Primary Voltage Class: 35 kV Class
Primary Phasor: Grounded Wye
Primary BIL: 200 kV
Secondary Voltage: 120/208V (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: 65°C
Forced Air (Fans): None
Cooling Class: ONAN; Self-Cooled
Tap Changer: 5-Position Tap Changer w/ External Operating Handle
Tap Qty: (2) FCAN Above, (2) FCBN Below
Tap %: 2.5%
Impedance: 1.0-4.5% Typical
Primary Connection Type: Live Bushing Lug
Primary Termination: Porcelain High Voltage Bushing

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: 99.00%
No Load Loss (in watts): +/- 273W
Full Load Loss (in watts): +/- 1,105W
Total Load Loss (in watts): +/- 1,378W

Primary Connection Qty: (2)
Secondary Connection Type: Live Bushing Lug
Secondary Connections: Copper Threaded Studs w/ NEMA Spade Terminals, 4-Hole Double Lug H Spade
Secondary Connection Qty: (3)
Terminals: Tin Plated Primary and Secondary - Accepts Copper or Aluminum Connections
Grounding Provisions: (1) 1/2" NPT Lug w/ Grounding Strap, Tank Grounding Lug
Transformer Protection: N/A
Load Break Switch: N/A
Efficiency: Meet DOE 2016 Standard
Insulation Fluid: Mineral Oil - Non PCB Fluid
Fluid Capacity: -
Liquid Level Indicator: Interal Tank Indicator
Temperature Indicator: N/A
Pressure/Vacuum Indicator: N/A
Pressure Relief Device: Included, Automatic Action
Fill Valve: Removable Bolt
Drain Valve: Removable Bolt
Surge Arrestors: Lightning Arrestor on H1 Primary Terminal
Surge Arrestors Voltage Rating: 30 kV
Surge Arrestors MCOV Rating: 24.4 kV
Surge Arrestor Mounting Provision: Mounting Provisions for Installing Lightning Arrestor on H1 Primary Terminal
Winding Material: Copper
Ambient Temperature Rating: 40°C
Sound Level: 51 dBA
Elevation Level: N/A
Core Material: Grain Oriented Steel
Housing Material: Coated Steel w/ Corrosion Resistant Cover Band, Removable Top Cover
Paint Type: Weatherproof and UV Resistant Epoxy Coating and Undercoating
Finish Color: White
Mounting: Double Hanger Bracket
Mounting: Pole Mount via Hangar Brackets
Lifting Lugs: Included
Dimensions: 30.3"-W x 34.3"-D x 51.7"-H
Weight: 1,367 lb

Special Orders - Special Requirements
Contact us for special requirements
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The MT-UPM-R7-1P-GMA-100KVA-SLU-BF-B6-BM-CZ-2Z2-M1 Pole Mount 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 makes this transformer ideal for a wide range of applications and businesses. This power distribution system is designed for overhead, pole mount installations and use.

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

Transformer Features: With a transformer rating of 100 kVA, the industrial transformer features a primary voltage of single-phase 19920/34500Y Grounded Wye (2 wire) and a secondary voltage of single-phase 120/208V (L-L-N). 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 transformer features a 5-position tap changer with +/- 2.5% taps to allow small changes for voltage.

The MT-UPM-R7-1P-GMA-100KVA-SLU-BF-B6-BM-CZ-2Z2-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-GMA-100KVA-SLU-BF-B6-BM-CZ-2Z2-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 comes with a lightning arrestor on the H1 primary terminal. Mounting provisions for installing lightning arrestor on the H2 primary terminal are available. 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-GMA-100KVA-SLU-BF-B6-BM-CZ-2Z2-M1 is equipped with a load break switch. This switch has two positions.

Valves: The MT-UPM-R7-1P-GMA-100KVA-SLU-BF-B6-BM-CZ-2Z2-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, 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 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-GMA-100KVA-SLU-BF-B6-BM-CZ-2Z2-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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Links (Click on the below items to view):

- **Operations Manual**(https://www.larsonelectronics.com//images/product/Manual/297473.PDF)
- **HigResPic1**(https://www.larsonelectronics.com//images/product/HigResPic1/297473.JPG)
- **HigResPic2**(https://www.larsonelectronics.com//images/product/HigResPic2/297473.JPG)
- **HigResPic3**(https://www.larsonelectronics.com//images/product/HigResPic3/297473.JPG)
- **HigResPic4**(https://www.larsonelectronics.com//images/product/HigResPic4/297473.JPG)
- **HigResPic5**(https://www.larsonelectronics.com//images/product/HigResPic5/297473.JPG)
- **Video1**(https://www.youtube.com/watch?v=rrNaoWova7o)
- **Video2**(https://www.youtube.com/watch?v=oZDa7R7XEZ0)
- **Video3**(https://www.youtube.com/watch?v=GPRqYY_mJNI)
- **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)