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MT-SSVT-R7-3P-DMP-300KVA-YT-CC-A6-BM-CZ-1ZZ-M1

300 KVA Station Service Voltage Transformer, 13800V Delta Primary, 208/120 Wye-N Secondary, Oil-filled, Copper, Tap Changer

Product ID: 310986

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



Image: MT-SSVT-R7-3P-DMP-300KVA-YT-CC-A6-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-SSVT-R7-3P-DMP-300KVA-YT-CC-A6-BM-CZ-1ZZ-M1 Station Service Voltage Transformer

Transformer Type: Station Service Voltage Transformer, Conventional Type
Transformer Configuration: Liquid Filled
Transformer Polarity Type: Subtractive
Phase: Three Phase
Capacity: 300 KVA
Primary Voltage: 13800V
Primary Phasor: Delta
Primary Voltage Class: 15 kV
Primary BIL: 110 kV
Secondary Voltage: 208U/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
Tap Changer: 5-Position Tap Changer w/ External Operating Handle
Tap Qty: (2) FCAN Above, (2) FCBN Below

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
Lifting Lugs Included
Non-PCB Insulating Fluid
Efficiency: TBD
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

Note: *Losses offered are typical only, not guaranteed*

Tap %: 2.5%
Tap Changer Switch Location: Side of Tank Body
Impedance: 4.0-7.0% Typical
Primary Connection Type: Live Bushing Lug
Primary Termination: Porcelain High Voltage Bushings
Primary Connection Qty: (3)
Secondary Connection Type: Live Bushing Lug
Secondary Termination: Tin Plated Bronze Terminals
Secondary Connection Qty: (4)
Secondary Neutral Connection: Secondary X0 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) Lug w/ Grounding Strap, Tank Grounding Lug
Transformer Protection: N/A
Load Break Switch: N/A
Auxiliary Control Voltage: 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 Capacity*: TBD
Fluid Weight*: TBD
Liquid Level Indicator: Included
Liquid Temperature Indicator: Included
Pressure/Vacuum Indicator: Included
Pressure Relief Device: Included, Automatic Action, with trip contacts
Fault Indicator: N/A
Fill Valve: 1/2" NPT Port w/ Removable Bolt
Drain Valve: 1/2" NPT Port w/Sampling valve
Winding Material: Copper
Ambient Temperature Rating: -30°C to +40°C
Relative Humidity: 95%
Icing Load: 1.97"
Wind Speed Rating: 90 mph (cont.)
Sound Level: 51 dBA
Elevation Level: 3300ft (1000 meters) Above Sea Level
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: ANSI 61 Light Grey
Conduit Entry: N/A
Mounting: Double Hanger Bracket
Mounting: Pad Mounted
Lifting Lugs: Included
Dimensions*: TBD
Tank Diameter*: TBD
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
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The MT-SSVT-R7-3P-DMP-300KVA-YT-CC-A6-BM-CZ-1ZZ-M1 Station Service Voltage 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 300 KVA, the industrial transformer features a primary voltage of 13800V 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 outdoor distribution. This voltage transformer features porcelain high-voltage, three bushings on the primary side and four bushings on the secondary side. Equipped with Copper windings and a grain oriented steel core, this voltage transformer consists of one coil and two core loops

The MT-SSVT-R7-3P-DMP-300KVA-YT-CC-A6-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-SSVT-R7-3P-DMP-300KVA-YT-CC-A6-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: There are liquid level gauge, temperature and pressure/vacuum gauges. 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 lightning arresters. Mounting provisions for installing customer provided lightning arrestor on the H1, H2 and H3 primary terminal are included for installing arresters in-field.

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

Benefits: The MT-SSVT-R7-3P-DMP-300KVA-YT-CC-A6-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.

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

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/310986.JPG)
- **Video1**(https://www.youtube.com/watch?v=rrNaoWova7o)
- **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)
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