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

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664

## MT-SSVT-R7-1P-GEXD-167KVA-SLT-AE-A6-BM-CZ-1ZZ-M1

# 167 KVA Station Service Voltage Transformer, 345000Y/207000 Grounded Wye Primary, 240/480V Secondary, Oil-filled, Copper, 8100 ft

**Product ID: 337715**

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



Image: MT-SSVT-R7-1P-GEXD-167KVA-SLT-AE-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-R7-1P-GEXD-167KVA-SLT-AE-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:** Single Phase
**Capacity:** 167 KVA
**Primary Voltage:** 345000Y/207000
**Primary Phasor:** Grounded Wye
**Maximum Operating Voltage:** 379.5 kV
**Primary Lightning Impulse Voltage (BIL):** 1300 kV
**Secondary Voltage:** 240/480V (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
**Cooling Class:** ONAN; Self-Cooled
**Tap Changer:** 5-position Tap Changer
**Tap Qty:** (2) FCAN Above Taps, (2) FCBN Below Taps

**Ratings**

Meets/Exceeds DOE 2016 Efficiency Ratings
Complies with ANSI / IEEE #C57.12.00 and C57.12.01
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, C57.19.01, C57.13.3
Complies with ASTM D3487
Complies with IEEE 693

**Tap %:** 2.5%
**Tap Changer Switch Location:** High Voltage (HV) Front Compartment
**Impedance:** 6.0-9.0% Typical
**Primary Connection Type:** Live Bushing Lug
**Primary Termination:** Porcelain High Voltage Bushing, NEMA 4-Hole Flat Pad, ANSI #70 Gray
**Primary Connection Qty:** (1)
**Primary Neutral Connection:** Included
**Primary Surge Arresters:** Included, MCOV 115%
**Secondary Connection Type:** Live Bushing Lug
**Secondary Connections:** Live Bushing Lugs equipped with (4) 2 inches conduit knockouts, bottom only.
**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 Pad:** Consists of a NEMA 2-hole flat pad suitable mechanically and electrically for use with copper conductors and equipped with a flat-to-cable connector suitable for 1/0-750 MCM stranded copper cable.
**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 Type II, Non-PCB
**Temperature Indicator:** N/A
**Pressure/Vacuum Indicator:** N/A
**Pressure Relief Device:** Included, Automatic Action
**Fault Indicator:** N/A
**Fill Valve:** 1/2" NPT Port w/ Removable Bolt
**Drain Valve:** 1/2" NPT Port w/ Removable Bolt
**Winding Material:** Copper
**Ambient Temperature Rating:** -40°C to +50°C
**Sound Level:** 51 dBA
**Elevation Level:** 8100 ft Above Sea Level
**Seismic:** High Seismic Withstand Rating (Complies to IEEE 693)
**Min. Basic Wind Speed:** 90 mph
**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:** Light Grey (ANSI #70)
**Mounting:** Base Mount
**Lifting Lugs:** Included
**Dimensions*:** 58.19"-W x 52.6"-D x 156.38"-H (1478mm x 1336mm x 3972mm)
**Oil Weight*:** 650 kg (1433 lbs)
**Total Weight (Liquid Filled)*:** 3150 kg (6945 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-SSVT-R7-1P-GEXD-167KVA-SLT-AE-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 make this transformer ideal for a wide range of applications and businesses. This power distribution system is designed for base**

**mount on pad or pole installations and use.**

**Transformer Features:** With a transformer rating of 167 kVA, the industrial transformer features a primary voltage of 345000Y/207000 Grounded Wye and a secondary voltage of single-phase 240/480V (L-N-L). This transformer connects to a three phase electrical grid system to provide single phase low voltage power for indoor distribution. This voltage transformer features porcelain high-voltage, single bushing on the primary side and three 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-R7-1P-GEXD-167KVA-SLT-AE-A6-BM-CZ-1ZZ-M1 is air cooled and does not have fans or mounting provisions 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-R7-1P-GEXD-167KVA-SLT-AE-A6-BM-CZ-1ZZ-M1 features mineral oil (Type II) non-PCB insulation fluid. Internal marking is available for proper oil level monitoring. We offer transformers with FR-3 oil fluid, if needed.

**Gauges:** There is an oil level gauge in this transformer. We can add temperature and pressure/vacuum gauges at an additional cost. Standard liquid level, temperature and pressure/vacuum gauges are analog, manual reading types.

**Valves:** The MT-SSVT-R7-1P-GEXD-167KVA-SLT-AE-A6-BM-CZ-1ZZ-M1 is equipped with a pressure relief valve, fill valve, and drain valve with a sampler port.

**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 equipped with one lightning arrester mounted on H1 primary terminal.

**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 outdoor applications

**Benefits:** The MT-SSVT-R7-1P-GEXD-167KVA-SLT-AE-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/HigResPic1/337715.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 )
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