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MT-SSVT-R7-1P-DRD-75KVA-SLZ-BB-A6-BM-CZ-1ZZ-M1

75 KVA Station Service Voltage Transformer, 43800V Delta Primary, 120/240V Secondary, Mineral Oil, Copper, Light Grey

Product ID: 340157



Image: MT-SSVT-R7-1P-DRD-75KVA-SLZ-BB-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-DRD-75KVA-SLZ-BB-A6-BM-CZ-1ZZ-M1 Station Service Voltage Transformer

Transformer Type: Station Service Voltage Transformer
Transformer Configuration: Liquid Filled
Transformer Polarity Type: Subtractive
Phase: Single Phase
Capacity: 75 KVA
Nominal System Voltage Rating: 43800V
Primary Phasor: Delta (Line-to-Line Connection)
Maximum System Voltage: 46 kV
Primary BIL: 250 kV
Secondary Voltage: 120/240 (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 De-energized Tap Changer
Tap Qty: (2) FCAN Above Taps, (2) FCBN Below Taps
Tap %: 2.5%
Impedance: 10%
Primary Connection Type: Draw Lead Threaded Stud Terminals
Primary Winding Termination: Porcelain High-Voltage Bushing
Primary Connection Qty: (2)

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%
Based on transformer operating at 50% of nameplate base kVA.
Load Losses Based on 85°C Reference Temp.
No Load Loss (in watts): +/- 273W
Full Load Loss (in watts): +/- 1,105W
Note: Losses offered are typical only, not guaranteed

Factory Tests:

Induced voltage test, dry and wet
Lightning Impulse test
Switching impulse test
Mechanical test
External RIV

Primary Lightning Arrestors: N/A
Primary Lightning Mounting Provision: Mounting Provisions for Installing Lightning Arresters on H1 & H2 Primary Terminals
Primary Lightning Arrestors Voltage Rating: N/A
Primary Lightning Arrestors MCOV Rating: N/A
Secondary Connection Type: Brought out through Terminal Box
Secondary Connection Qty: (2)
Secondary Neutral Connection: NEMA 4-Hole Pads
Secondary Conduit Entry: Terminal box sized for two (2) 4-inch conduits
Terminals: Tin Plated Copper
Secondary Junction Box: Included
Tank Grounding Provisions: Bolted Ground Lug (#1/0 AWG to #350 kcmil Copper)
Primary Protection: External Protection by Utility, Not Integrated
Secondary Protection: External, Not Included
Load Break Switch: N/A
Efficiency Standard(s): ANSI / IEEE Compliant
K-Factor Rating (Harmonic Mitigation): K-1 (Standard)
Pulse Drive Rating: N/A
Insulation Fluid: Mineral Oil, Type II, Non-PCB
Liquid Level Indicator: Included
Temperature Indicator: Optional
Pressure/Vacuum Indicator: Optional
Pressure Relief Device: Included
Vacuum Valve: Included, 1"
Fill Valve: Included, 1" Oil Filling Plug
Drain Valve: Included 1" with Sampling Port
Winding Material: Copper
Ambient Temperature Rating: -30°C to +50°C
Seismic Rating: Seismic Site Class B
Sound Level: 51 dBA
Elevation Level: 752 ft Above Sea Level
Core Material: Grain Oriented Steel
Tank Material: Coated Steel
Housing Material: Weatherproof Steel Tank
Hardware Material: 304 Stainless Steel
Paint Type: Weatherproof Outdoor Coating
Finish Color: ANSI 70 Light Grey
Mounting: Double Hanger Bracket
Mounting: Substation Structure Mount
Lifting Lugs: Included
Dimensions*: 53.15"-W x 51.02"-D x 118.92"-H
Tank Diameter*: 47.24"-W x 33.5"-D
Dry Weight*: 4150 lbs
Total Weight (Liquid Filled)*: 5280 lb
*Please note that numbers are approximate and subject to change

Temperature rise test

Short time mechanical and thermal rating test

Internal arc classification test

Special Orders - Special Requirements
Contact us for special requirements
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The MT-SSVT-R7-1P-DRD-75KVA-SLZ-BB-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 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 75 kVA, the industrial transformer features a nominal primary voltage of 43800V Delta and a secondary voltage of single-phase

120/240V (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, dual bushings 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-DRD-75KVA-SLZ-BB-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-R7-1P-DRD-75KVA-SLZ-BB-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, 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 is a rapid rise relay 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 arrestors on the H1 and H2 primary terminals are included for installing arresters in-field.

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-DRD-75KVA-SLZ-BB-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