Larson Electronics LLC
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MT-HV-CCVT-R7-A11-GXF-115KV-SX.LM-C0.3XWYZZZ-Z-60HZ-OL-OD-M1

115 kV High Voltage Coupling Capacitor Voltage Transformer - 115,000Y/66,395V Grounded Wye Primary Voltage, 115/69V Secondary, 0.3XWYZ, ZZ Accuracy Class, Light Gray

Product ID: 340076

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



Image: MT-HV-CCVT-R7-A11-GXF-115KV-SX.LM-C0.3XWYZZZ-Z-60HZ-OL-OD-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-HV-CCVT-R7-A11-GXF-115KV-SX.LM-C0.3XWYZZZ-Z-60HZ-OL-OD-M1 Coupling Capacitor Voltage Transformer

Unit Type: Coupling Capacitor Voltage Transformer, Liquid Filled Type
Phase: Single Phase
Nominal System Voltage: 115000Y/66395 V
Maximum System Voltage: 123 kV
Maximum Operating Voltage (L-G): 72.5 kV
Rated Impulse Withstand Voltage (BIL), Crest: 550 kV
Power Frequency Withstand Voltage, Dry, 1-minute: 230 kV
Power Frequency Withstand Voltage, Wet, 10-Second: 185 kV
Rated Primary Voltage: 115,000Y/66,395 V
Rated Short Time Withstand Current: -
Short-time Mechanical Current Rating: -
Rated Duration of Short Circuit: -
No. of Secondary Windings: (2)
Secondary Voltage (Full Winding): 115V
Secondary Voltage (Tap Winding): 69V
Rated Frequency: 60 Hz
Thermal Rating: 1000 VA
IEEE Accuracy Class: 0.3XWYZ, ZZ

Ratings

Meets IEEE C57.13 Standard
Meets BPA Specification 22-20
Non-corroding Stainless Steel Nameplate
Outdoor Service

Rated Voltage Factor: 1.2 times (cont.), 1.9 times (30 sec.)
Nominal Capacitance: 100 pF
Cooling Class: ONAN
Capacitor Sections: Oil expansion within each capacitor section is compensated by a stainless steel expansion chamber
Primary Terminals: NEMA 4-holes, 5.51 inches x 4.72 inches
Primary Insulation Type: Porcelain
Secondary Windings: Copper wire of electrolytic grade
Secondary Terminals: Secondary terminal studs are suitable for 4C, 12AWG stranded copper cable
Secondary Terminal Box: The base housing is weatherproof and serve as a mounting base for the capacitor sections as well as housing for the electromagnetic components and be of welded construction, NEMA 4X rated
Grounding Terminals: Ground pad NEMA 2-hole for connection of 1/0 to 4/0 copper grounding conductor
Insulation Medium: Mineral Oil, Non-PCB Fluid
Nameplate Material: Stainless Steel
Oil Level Gauge: Included
Pressure Relief Device: Included
Drain Valve: Included
Operation Temperature Range: -50°C to +40°C
Average Temperature Rating (24 hrs): +45°C
Service Condition: Outdoor
Wind Speed Rating: 90 mph
Importance Factor: 1.15
Relative Humidity: 100%
Altitude: 3,300 ft Above Sea Level
Pollution Level: Medium (Class II)
Seismic Qualification: High Level, IEEE 693-2018
Housing Painting: Munsell™ 5BG 7.0/0.4 Light Grey (ANSI #70)
Housing Materials: Porcelain
Creepage Distance: -
Mount: Base Mount, Without Line Carrier or Support Structure
Dimensions (Approximate): -
Weight (Approximate): -

Special Orders - Special Requirements:
Contact us for special requirements
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The MT-HV-CCVT-R7-A11-GXF-115KV-SX.LM-C0.3XWYZZZ-Z-60HZ-OL-OD-M1 Coupling Capacitor Voltage Transformer (CCVT) from Larson Electronics is designed for high-voltage utility substations and outdoor power distribution systems requiring accurate voltage measurement and protective relaying. This oil-filled, single-phase transformer is engineered for reliable operation in demanding environments and complies with BPA Specification 22-20 and IEEE C57.13. Its rugged construction, high dielectric strength, and IEEE 693-2018 High Level seismic qualification make it ideal for electric utilities, transmission networks, and substation applications.

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

Transformer Features: The CCVT is rated for 115,000Y/66,395V grounded wye primary voltage and 115/69V secondary voltage at 60 Hz with a 550 kV BIL insulation level. The transformer utilizes an oil-filled capacitor divider and electromagnetic unit with heavy-duty copper windings for superior thermal and electrical performance. The unit features 0.3XWYZ, ZZ IEEE relaying accuracy class, a porcelain primary insulator (preferred), stainless steel

nameplate, mineral oil insulation, and is base mounted without line carrier coupling equipment or support structures. The transformer is qualified to IEEE 693-2018 High Level seismic requirements and includes the required Seismic Identification Plate.

Primary Connections: The transformer is equipped with NEMA four-hole pad primary terminals suitable for utility substation installations and a NEMA two-hole ground pad for grounding connections.

Secondary Connections: The CCVT is equipped with a weatherproof NEMA 4X secondary terminal enclosure containing a protected terminal block with 115V full winding and 69V tap winding secondary connections for relaying and voltage measurement applications.

Benefits: The MT-HV-CCVT-R7-A11-GXF-115KV-SX.LM-C0.3XWYZZZ-Z-60HZ-OL-OD-M1 provides highly accurate voltage sensing and dependable protective relaying for transmission and distribution systems while minimizing maintenance requirements through its sealed oil-filled construction. The robust design offers excellent long-term reliability, environmental durability, and stable electrical performance under severe outdoor operating conditions.

Applications: Electric power distribution, utilities, protective relaying, utility power generation, power grids, substations, metering, high voltage system control, step down transmission 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

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