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MT-HV-CVT-R7-A11-GXK-138KV-SX.LM-C0.15WXMYZ-Z-60HZ-OL-OD-M1

138 kV High Voltage Capacitor Voltage Transformer – 138000Y/79670V Grounded Wye Primary, 115/120V Secondary, 700/1200:1 Ratio, Class 0.15WXMYZ, 650kV BIL, Porcelain Insulator, Outdoor

Product ID: 338845

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-CVT-R7-A11-GXK-138KV-SX.LM-C0.15WXMYZ-Z-60HZ-OL-OD-High Voltage Capacitor Voltage Transformer

Type: High Voltage Capacitor Voltage Transformer (HV-CVT)

Phase: Single Phase

Frequency: 60 Hz

Primary Voltage Rating: 138000Y/80000 Grounded Wye

Maximum System Voltage: 145 KV

Primary Voltage BIL Rating: 650 KV

Power Frequency Withstand Voltage: 275 kV

Primary Min. Creepage Distance: 176.9 in Minimum

Secondary Voltage: 115/120V, Single Phase

Number of Secondary Windings: 1

Voltage Ratio: 700/1200:1

VT Accuracy Class: 0.15

Burden Designation: WXMYZ

Thermal Burden Rating: 3000 VA Total

Rated Overvoltage Factor: 1.2 Continuous, 1.73 for 1 Minute

Creepage distance: TBD

Insulation Fluid: Oil-impregnated paper dielectric (Non-PCB)

Insulation Medium: Oil Filled

Bushing Material: Porcelain

Bushing Painting: Munsell™ 5BG 7.0/0.4 Light Grey (ANSI #70)

Primary Bushing Insulator Material: High Strength Electrical Porcelain

Hydrophobic Surface: N/A

Primary Termination: NEMA 4-Hole Aluminum Pad Terminal

Secondary Termination: Secondary winding connections terminated on terminal blocks within weatherproof secondary terminal box

Secondary terminal box: Outdoor Rated, NEMA 3R Weatherproof Enclosure

Grounding Pads: Two (2) NEMA 2-Hole Ground Pads, Threaded 1/2"-13 UNC Bolt Pattern

Coupling Capacitor Assembly: Integral Capacitor Divider Unit

Capacitor Neutral Terminal: Included

Electromagnetic Unit (EMU): Oil Filled Electromagnetic Voltage Transformer Unit

Ferroresonance Suppression: Included

EMU Secondary Termination: Terminal Block Assembly

Oil Level Gauge: Included

Approvals/Ratings

ANSI / IEEE C57.13, ANSI / IEEE C93.1

Fill Plug: Included
Drain Valve: Included, equipped with Sampling device.
Heater: Optional, 120/240 VAC, 1-Phase
Lifting Provisions: Four (4) Lifting Eyes Included
Base Housing Material: Steel
Winding Material: Copper
Elevation: Up to 3300 Feet (1000 Meters) Without Derating
Humidity Range: 0-100%
Operating Temperature Range: -40°C to +45°C
Housing Painting: Munsell™ 5BG 7.0/0.4 Light Grey (ANSI #70)
Mounting: Pedestal / Station Structure Mount
Dimensions:
Total Weight:

Special Orders - Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
E-mail: sales@larsonelectronics.com

The MT-HV-CVT-R7-A11-GXK-138KV-SX.LM-C0.15WXMYZ-Z-60HZ-OL-OD-M1 from Larson Electronics is a 138kV Single Phase High Voltage Capacitor Voltage Transformer (CVT) that is powerful, reliable, and innovatively designed for utility substation, transmission, and distribution applications. Rated for a maximum system voltage of 145kV with a 650kV BIL, this unit provides highly accurate voltage measurement for revenue metering, monitoring, and control of high-voltage power systems.

Transformer Features: The MT-HV-CVT-R7-A11-GXK-138KV-SX.LM-C0.15WXMYZ-Z-60HZ-OL-OD-M1 is a single-phase oil-filled capacitor voltage transformer designed for 138000Y/79670V grounded wye systems operating at 60Hz. This unit features a 700/1200:1 voltage ratio with a 115/120V secondary output and ANSI 0.15 WXMYZ metering accuracy, making it suitable for precision metering and supervisory applications. The integrated capacitor divider and electromagnetic unit are engineered to provide stable voltage transformation, excellent transient response, and reliable long-term performance under demanding utility operating conditions.

Featuring rugged and innovative construction, this unit utilizes a high-quality oil-filled insulation system with non-PCB dielectric fluid for superior dielectric strength and long service life. The transformer incorporates a weather-resistant outdoor design with corrosion-resistant steel components, stainless steel hardware, and a NEMA 3R rated secondary terminal enclosure. The primary terminal utilizes a NEMA 4-hole pad connection, while integrated grounding provisions, lifting eyes, oil level indication, and maintenance features simplify installation and operation in substation environments.

Due to its robust structural design and high insulation capability, the MT-HV-CVT-R7-A11-GXK-138KV-SX.LM-C0.15WXMYZ-Z-60HZ-OL-OD-M1 is ideal for outdoor utility service where dependable voltage measurement is required. The unit is designed for operation at elevations up to 3,300 feet and ambient temperatures ranging from -40°C to +45°C, ensuring reliable performance in harsh environmental conditions.

Applications: Revenue Metering, Voltage Monitoring, Utility Substations, Transmission Systems, Distribution Networks, SCADA Systems, Protective Control Circuits, Renewable Energy Facilities, Industrial Power Systems

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