Larson Electronics LLC
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MT-HV-CCVT-R7-A11-GXN-245KV-SX.LM-C0.3WXYZZZ-Z-60HZ-OL-OD-M1

245 kV High Voltage Coupling Capacitor Voltage Transformer – 230000Y/138000 V Primary – 115 V / 69 V Secondary – 1200/2000:1:1 Ratio – 0.3 ZZ Accuracy – Single Phase

Product ID: 332034

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-GXN-245KV-SX.LM-C0.3WXYZZZ-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-GXN-245KV-SX.LM-C0.3WXYZZZ-Z-60HZ-OL-OD-M1 Coupling Capacitor Voltage Transformer

Type: High Voltage Coupling Capacitor Voltage Transformer (HV-CCVT)
Phase: Single Phase
Frequency: 60 Hz
Primary Voltage Rating: 230000Y / 138000 V
Maximum System Voltage: 245 KV
Primary Voltage BIL Rating (1.2/50 µs): 1050 kV
Secondary Voltage Rating: 115 V / 69 V (each winding)
Winding Ratio: 1200 / 2000 : 1 : 1
Number of Secondary Windings: (2) identical tapped windings
Optional Third Winding: Available (Accuracy Class 1.2 Y)
Overvoltage Factor (1 min.): 1.4
Design Capacitances: 5000 pF
Capacitance Configuration: Capacitor divider (C1 + C2)
No. Of Coupling Capacitors: (2)
Minimum Creepage Distance: 230 inches
Accuracy Class: 0.3 ZZ (W, X, M, Y, Z burdens)
Maximum Thermal Output: 1000 VA
Secondary Short-Circuit Withstand: 1 second at maximum system voltage without

Approvals/Ratings

ANSI C93.1, IEEE C57.13, IEEE C57.12.30

damage

Ferro-resonance Performance: Non-sustained, damped within 0.5 seconds

Insulation & Fluids: Oil-impregnated film/paper dielectric insulation utilizing PCB-free synthetic or mineral oil in the capacitor unit and mineral transformer oil in the electromagnetic unit, with isolated oil systems.

Partial Discharge: ≤ 10 pC at 1.2 × maximum system voltage

Bushing Material: Composite polymeric silicone rubber (porcelain only if specifically approved)

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

Wind / Ice Speed: 150 mph wind or 1-inch ice with 40 mph wind

Operating Temperature: -40°C to +45°C

High Voltage Terminal: 4-hole NEMA aluminum terminal pad (tin-plated or bare aluminum)

Grounding Terminal: Single ground terminal suitable for 4/0 AWG stranded copper

Secondary Termination: Terminal blocks located inside low-voltage terminal box

Secondary terminal box: Weatherproof enclosure with (3) × 1.5" conduit knockouts (one on each side and one at bottom)

External Insulator Material: Composite polymeric silicone rubber

Insulator Color: ANSI 70 Light Gray

Oil Level Gauge: Included

Fill Plug: Included

Drain Valve: Included, equipped with sampling device.

Voltage Grading Rings: Supplied as required

Lifting Provisions: Four (4) lifting holes for 4-point sling

Base Housing Material: Steel

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

Mounting: Floor/Base Mounting

Dimensions: 195" H x 31.5" L x 27" W (Base)

Total Weight: 2,320 lbs

Special Orders - Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

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The MT-HV-CCVT-R7-A11-GXN-245KV-SX.LM-C0.3WXYZZZ-Z-60HZ-OL-OD-M1 from Larson Electronics is a 245 kV single-phase High Voltage Coupling Capacitor Voltage Transformer (CCVT) designed for accurate voltage measurement and protection applications in high-voltage transmission and substation environments. This CCVT features a 1200/2000:1:1 winding ratio and is rated for operation on 245 kV systems, providing reliable secondary outputs of 115 V / 69 V for metering, protective relaying, and power line carrier (PLC) applications.

Transformer Features: With a primary voltage rating of 230000Y/138000 V and a BIL rating of 1050 kV, the MT-HV-CCVT-R7-A11-GXN-245KV-SX.LM-C0.3WXYZZZ-Z-60HZ-OL-OD-M1 is engineered in accordance with ANSI C93.1 and IEEE C57.13 standards. The unit incorporates an oil-impregnated film/paper dielectric capacitor divider with a minimum capacitance of 5000 pF and an electromagnetic unit designed for stable performance across all standard burdens. The CCVT delivers 0.3 ZZ accuracy with a 1000 VA thermal burden, ensuring precise voltage transformation for protection and metering circuits. Composite polymeric silicone rubber insulation provides excellent environmental performance, while ferro-resonance suppression ensures non-sustained oscillations with rapid damping.

This CCVT is suitable for floor or base mounting and is designed for outdoor operation with an operating temperature range of -40°C to +45°C. The robust construction includes a steel base housing, weatherproof low-voltage terminal box with multiple conduit entry provisions, and corrosion-resistant external hardware for long-term service reliability.

Applications: High-Voltage Substations, Transmission Systems, Voltage Monitoring,

Protective Relaying, Metering Circuits, and Power Line Carrier (PLC) 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

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Export Control Classification Number (ECCN): EAR99

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