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MT-HV-CT-BP-R7-1P-115KV-600.5-Z-C400-60HZ-OL-OD-M2

115 kV Current Transformer, Bar Primary Type, 600:5 Ratio, C400 Relaying Accuracy Class, Light Gray

Product ID: 340059

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



Image: MT-HV-CT-BP-R7-1P-115KV-600.5-Z-C400-60HZ-OL-OD-M2

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-CT-BP-R7-1P-115KV-600.5-Z-C400-60HZ-OL-OD-M2 Current Transformer

Unit Type: Current Transformer, Bar Primary Type, Oil Filled
Phase: Single Phase
Max. System Voltage: 115 kV
Voltage BIL: 550 KV
Frequency: 60 Hz
Current Ratio: 600:5
Strike Distance: -
Creepage Distance: -
IEEE Metering Accuracy Class: N/A
IEEE Relaying Accuracy Class: C400
Continuous Thermal Current Rating Factor (@ 30°C): 2.0
Continuous Thermal Current Rating Factor (at 55°C): TBD
Short Time Thermal Current Rating (1 Sec.): 63 kA
Short Time Dynamic Current Rating: 170 kA Peak
Power-Frequency Withstand Voltage: 185 kV (Wet) / 230 kV (Dry)
Primary Bushing: Wet process porcelain, Munsell 5BG 7.0/0.4, ANSI No. 70 Light Gray
Primary Terminal: NEMA 4-inch, 4-hole copper pad terminal. The terminal conducting surface is horizontal. The current transfer point is silver plated.

Ratings

Meets IEEE C57.13 Standard
Meets BPA Specification 22-07
Stainless Steel Nameplate with IEEE 693-2018 Seismic Identification Plate
Outdoor Service

Testing

Tested in accordance with IEEE C57.13

Primary Bar Width: -

Primary Bar Thickness: -

Primary Terminal Quantity: (2)

Grounding Pads: (2) NEMA 2-hole ground pads. One ground pad is located near the secondary junction box. The holes in the ground pads are threaded for 1/2"-13 UNC bolts. The threads are protected with a rust inhibitor and with flanged cups of a non-corrosive material press fitted into threaded openings

Secondary Terminals: Terminated on a terminal block mounted in an easily accessible, weatherproof, metal junction box

Secondary Junction Box: Included, adjacent to and adjoin the transformer base housing. The junction box includes a large access door and provision for entry of three conduits (1.5 inch maximum diameter)

Secondary Windings: (4)

Secondary Terminal Quantity: (8)

Secondary Cores: (4)

Core Material: Grain oriented silicon steel laminations

Insulation Medium: Oil Filled, Non-PCB Fluid

Oil Capacity: ≤ 55 Gallons

Oil Level Gauge: Included

Oil Fill Plug: Included

Oil Drain: Included

Lifting Provisions: Included

Winding Material: Copper

Temperature Rise: 55°C

Service Condition: Outdoor

Ambient Temperature Rating: 30°C

Seismic Qualification: IEEE 693-2018 High Level

Color: Munsell™ 5BG 7.0/0.4 Light Gray (ANSI No. 70)

Mount: Base Mounted

Catilever Strength: -

Total Weight (Approximate): 1,850 lbs

Base Plate Material: -

Base Plate Dimensions: -

Total Dimensions (Approximate): 34" W x 32" D x 98" H

Special Orders - Special Requirements

Contact us for special requirements

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The MT-HV-CT-BP-R7-1P-115KV-600.5-Z-C400-60HZ-OL-OD-M2 Current Transformer from Larson Electronics facilitates power distribution in outdoor locations and is designed for power utility applications. The low operating costs, low heat emissions and low cost of ownership make this transformer an ideal solution for metering, protective relaying, high voltage system control and more.

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

Transformer Features: The current transformer is rated for 115kV with a 600:5A current ratio at 60Hz and incorporates four (4) independent relaying cores with IEEE C400 relaying accuracy. Constructed with heavy-duty copper windings and a hermetically sealed oil-filled insulation system, the transformer provides excellent dielectric strength, superior thermal performance, and dependable long-term reliability. The unit complies with IEEE C57.13 and BPA Specification 22-07, and is qualified to IEEE 693-2018 High Seismic Level requirements with a seismic identification plate.

Primary Connections: The transformer is equipped with NEMA four-hole copper pad primary terminals with silver-plated current transfer surfaces and dual NEMA two-hole grounding pads for secure installation in outdoor utility substations and transmission facilities.

Secondary Connections: The current transformer is furnished with a weatherproof secondary terminal compartment containing four independent secondary cores terminated on corrosion-resistant terminal blocks for protective relaying, monitoring, and maintenance access.

Benefits: The MT-HV-CT-BP-R7-1P-115KV-600.5-Z-C400-60HZ-OL-OD-M2 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: 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

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/340059.JPG)
- **Video1**(https://www.youtube.com/watch?v=4-JEyYeYcn8)
- **ISO 9001 Certification**(http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF)
- **Business Certificate**(https://www.larsonelectronics.com/images/pdfdocs/w9.PDF)
- **Shipping Time Map**(https://www.larsonelectronics.com/images/product/ShippingTimeMap/ShippingTimeMap.pdf)