

MT-HV-CT-BP-R7-1P-230KV-2000.5-C5P-C400-60HZ-OL-OD-M1

230 KV Current Transformer, Bar Primary Type, 2000:5 Ratio, C400 Relaying Accuracy Class, 5P Protection Accuracy Class, Grey

Product ID: 338299

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-230KV-2000.5-C5P-C400-60HZ-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-CT-BP-R7-1P-230KV-2000.5-C5P-C400-60HZ-OL-OD-M1 Current Transformer

Unit Type: Current Transformer, Bar Primary Type, Oil Filled

Phase: Single Phase

Nominal Service Operating Voltage: 230 kV

Voltage Tolerance: $\pm 10\%$

Voltage Class: 245 kV rms

Power frequency withstand voltage at 60 Hz, 1 min.: 425 kV rms

Voltage BIL: 1050 KVpeak

Radio Influence Test Voltage and Limits: 156 kV / 2500 μ V

Frequency: 60 Hz

Current Ratio: 2000:5

Protection Accuracy Class: 5P

IEEE Relaying Accuracy Class: C400

Accuracy limit factor (ALF): 20

Knee point voltage: 200V

Continuous Thermal Current Rating Factor (@ 30°C): 2.0

Continuous Thermal Current Rating Factor (at 55°C): TBD

Short Time Thermal Current Rating (3 Sec.): 50 kA

Short Time Dynamic Current Rating: 125 k/sec.

Ratings

Meets IEEE C57.13 Standard

Meets ANSI C12.11 Standard

Non-corroding Nameplate

Outdoor Service

Testing

Complete Standard Routine Test

Complete Standard Type Test

Continuity Test of All Circuits

Insulation Test of All Wiring, Devices and Components

Functionality Test of All Control Circuits and Automation with Simulation of External Circuits and Equipment

BIL Test

Heat Run Test

Continuity Tests and Hi-Pot Voltage at 1,500 V for One Minute on all Control, Current and Protection Wiring

Witness Testing

Creepage Distance (Phase-to-Phase): 31 mm/kV
Creepage Distance (Phase-to-Ground): 54 mm/kV
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.
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: (1)
Secondary Terminal Quantity: (6)
Secondary Cores: (6)
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 Lugs: Included
Grounding Lugs: Included, Two NEMA 2 Hole Grounding Lugs on the Support Stand
Winding Material: Copper
Temperature Rise: 55°C
Service Condition: Outdoor
Ambient Temperature Rating: -40°C to +40°C
Seismic Zone: 0.405 Sa (0.2), 0.22 Sa (0.5), 0.112 Sa (1.0), 0.055 Sa (2.0), 0.015 Sa (5.0), 0.006 Sa (10.0), 0.259 PGA, 0.184 PGV
Relative Humidity: Up to 95%
Pollution Level: IV - Very Heavy
Area Classification: Non hazardous location
Ice load: 45 mm
Color: ANSI 70 light gray
Mount: Horizontal, Vertical or Suspended Position
Cantilever Strength: 2500 N
Total Weight (Approximate): -
Base Plate Material: -
Base Plate Dimensions: -
Total Dimensions: 42"-W x 150"-H; 36" x 36" Base Footprint
Weight: 4,200 Lbs

* These numbers are approximates and are subject to change

CSA Certification Label

Special Orders - Special Requirements

Contact us for special requirements

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The MT-HV-CT-BP-R7-1P-230KV-2000.5-C5P-C400-60HZ-OL-OD-M1 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 230 kV and a 2000:5 current ratio at 60 Hz. The system has heavy-duty windings for high strength and thermal/electrical conductivity.

Primary Connections: The transformer has standard terminals for primary connections.

Secondary Connections: The current transformer is equipped with a terminal block protected by a removable cover.

Benefits: The MT-HV-CT-BP-R7-1P-230KV-2000.5-C5P-C400-60HZ-OL-OD-M1 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.



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/HigResPic1/338299.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>)
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