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MT-PSET-CCPT-R7-1P-GVQ-145KV-700.1200.1VT-500.5CT-N3R-M1

145 kV High Voltage Instrument Transformer, Combinations (Current Voltage Transformer) - 3-Phase - Pole Mount, Outdoor Service, ONAN

Product ID: 310465

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-PSET-CCPT-R7-1P-GVQ-145KV-700.1200.1VT-500.5CT-N3R-M1 Combinations Current Voltage Transformer

Unit Type: High Voltage Instrument Transformer
Unit Configuration: Combinations Current Voltage Transformer (CCVT), Liquid Insulated
Configuration Available: 1 VT, 1 CT
Phase: Single Phase
Frequency: 60 Hz
System Voltage: 138 kV
Max. System Voltage: 145 kV
System BIL: 650 kV
Overvoltage Factor (1 Min.): 1.4

Ratings

Complies with ANSI / IEEE C57.13
Complies with ANSI / IEEE C57.13.6
Complies with ANSI / IEEE C57.13.2
Complies with ANSI / IEEE C57.13.5

Current Transformer:

Current Ratio: 500:5
CT Type: Inductive
Metering Accuracy Class/Burden: 0.15 B-1.8
Continuous Thermal Current Rating Limit Factor (@ 30°C): 4.0
Short-time Thermal Current Rating: -
Short-time Mechanical Current Rating: -
Relaying Accuracy Class: -
Minimum Creepage Distance: 120 inches

Voltage Transformer:

Primary Voltage: 80.5 kV

Secondary Voltage: 115V x 67.08V

Voltage Ratio: 700/1200:1
VT Type: Inductive
Accuracy Class/Burden: 0.15 WXYZ
Rated Voltage Factor: -

Thermal Burden Rating: 3000 VA Total, 1500 VA Per Winding

Insulating Material: NYNAS NYTRO LYRA X Insulation Fluid

Oil Capacity: 105.63 Gallons

Primary Bushing: Porcelain (Munsell 5BG 7.0/0.4, ANSI No. 70 Light Gray), w/ NEMA 4-Hole aluminum pads
Secondary Wiring: 10 AWG THHN/THWN wire enclosed in 1" flexible, liquid-tight, armored conduit

Secondary Cabinet Type: Junction Box, NEMA 3R Rating

Ground Pads: (2) Threaded NEMA 2-hole Ground Pads for 1/2"-13 UNC Bolts

Ground Pad Thread Protection: Rust Inhibitor w/ Flanged Cups of Non-corrosive Material Press Fitted into Threaded Openings

Primary Winding Rating: 650 kV BIL

Secondary Winding: (2) Contains Marked Ratio

Winding Material: Copper

Service Condition: Outdoor

Altitude: 7000ft

Ambient Temperature Range: -20°C to +45$_{o}$C

Hardware Materials: Stainless Steel

Nameplate Materials: Corrosion Resistant Stainless Steel w/ Stainless Steel Screws or Rivets For CT & VT
Paint Color: Munsell 5BG 7.0/0.4, ANSI No. 70 Light Gray

Mounting Provisions: Pole Mount, Mounted On aluminum Plate

Lifting Provisions: Included

Dimensions: 40.94"-W, 31.7"-D, 159.45"-H

Weight: 2094.39 Lbs

Special Orders- Requirements

Contact us for special requirements

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The MT-PSET-CCPT-R7-1P-GVQ-145KV-700.1200.1VT-500.5CT-N3R-M1 High Voltage Instrument Transformer (Current Voltage Transformer) from Larson Electronics is designed for power utility applications in outdoor locations. The low operating costs, low heat emissions and low cost of ownership makes this transformer an ideal solution for metering, high voltage system control and more. This transformer is compatible with pedestal mounting installations.
PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO POWER DISTRIBUTION PANELS, TRANSFORMERS, OR SUBSTATIONS*
Transformer Features: The MT-PSET-CCPT-R7-1P-GVQ-145KV-700.1200.1VT-500.5CT-N3R-M1 is rated for 145 kV, 60 Hz. The system has heavy-duty windings for high strength and thermal/electrical conductivity.
Insulation Fluid: The MT-PSET-CCPT-R7-1P-GVQ-145KV-700.1200.1VT-500.5CT-N3R-M1 is liquid insulated by NYNAS NYTRO LYRA X insulation fluid (ONAN) .
Primary Connections: The transformer has NEMA 4-inch, 2-hole aluminum pad terminals for primary connections. The terminal conducting surface is horizontal. The current transfer point is tinned or silver plated.
Secondary Connections: This current transformer has an accessible terminal block for secondary connections. The terminal block is protected by a weatherproof, metal junction box located on the transformer base housing and features a large access door. Operators can access three 1.5" openings for completing connections.
Mount: The MT-PSET-CCPT-R7-1P-GVQ-145KV-700.1200.1VT-500.5CT-N3R-M1 is Pole Mounted on aluminum frame.

Benefits: The MT-PSET-CCPT-R7-1P-GVQ-145KV-700.1200.1VT-500.5CT-N3R-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, utility power generation, power grids, substations, metering, high voltage system control 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)