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MPD-EMC-R7-3P-GMR-15KV-YT-600.5CT-N3R-M2

15 kV Electrical Metering Cabinet, Combinations (CT/PT) - 3-Phase - Dry Type - Pad Mount, Outdoor Service

Product ID: 335679



Image: MPD-EMC-R7-3P-GMR-15KV-YT-600.5CT-N3R-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.

MPD-EMC-R7-3P-GMR-15KV-YT-600.5CT-N3R-M2 Electrical Metering Cabinet Combinations (CT/PT)

Unit Type: Electrical Metering Cabinet (EMC)
Unit Configuration: Combinations Current & Voltage Transformer (CT/PT), Dry Type
Rated Frequency: 60 Hz
Phase: Three Phase

CT Specifications:

Quantity: (3)

Rated Voltage: 15 kV
BIL: 110 kV
Current Ratio: 600:5
CT Design Form: Wound
Accuracy Class: 0.15S Class
Continuous Thermal Current Rating Factor (RF): 1.5
Shorting Device: Included, Manual
Terminals: Suitable to terminate #14 through #4 copper wire
Secondary Terminal Cover: Included, sealable

PT Specifications:

Ratings

Complies with ANSI / IEEE C57.13
Complies with ANSI / IEEE C57.13.6
Meets/Exceeds IEEE C57.12.28
Meets IEEE 386

Warranty

Failure of any component due to defective design, material, or workmanship within 12 months of energization or 18 months from delivery, whichever occurs first, shall be repaired or replaced at no cost.

Quantity: (3)

Primary Voltage: 7,200V (for 12,470Y/7,200V system)

Primary Voltage Class: 15 KV

Primary BIL: 110 kV

Secondary Voltage: 120V

Voltage Ratio: 7200:120
Accuracy Class: 0.15 Class

Thermal Burden: 1500 VA @ 30°C

Primary Protection: Primary fuse mounted on each PT

BIL: 110 kV BIL

Main Bus Rating: 600A continuous

Bus Bracing: 20 kA symmetrical / 28 kA asymmetrical

Bus Material: Copper

Jumpers: Fused jumpers from main bus to CTs and VTs, Insulated for 15 kV

Dead-Front Terminations: 600A, 15kV Rated, 95 kV BIL Separable Dead-Break Integral Bushings, Elastimold #K650S1

Dead-Front Bushings Per Phase: One (1) 600A Dead-Break Bushing Well

Radial Feed: One (1) 600A Dead-break connection per phase

Test Switch Type: 10-pole, reversed potentials, ST terminals, Lexan cover

Test Switch Location: Right interior wall of CT/PT compartment

CT Wiring: #10 AWG solid copper

VT Wiring: #12 AWG solid copper

Color Coding: VA Orange, VB Blue, VC Yellow, VN White, CT-A Black, CT-B Brown, CT-C Red, CTR Gray

Terminal Order: VA, VB, VC, VN, CTR-A, CT-A, CTR-B, CT-B, CTR-C, CT-C

Meter Socket: External mounting provision per EUSERC 339

Continuous Thermal Current Rating Limit Factor (rf): 1.5

Minimum clearances measured from live part to bare metal:
- Phase-to-Ground: 6.0 inches minimum
- Phase-to-Phase: 7.5 inches minimum
Additional stationary barriers provided to allow reduced clearance of 3.0 inches from barrier to live parts.

Meter Socket: External mounting provision per EUSERC 339

Grounding Bosses: Four (4) total, 1/2-13NC tapped holes, 7/16" deep, two per compartment; accepts #6 solid to #2/0 stranded copper.

Compartment Layout: Separate CT/PT and cable termination compartments, located on opposite sides of enclosure.

Phase To Ground Compartment Barriers: Red Reinforced Polyester

Fault Venting: Tamper-proof stainless screened vents rated for 10kA, 15 cycles.

Winding Material: Copper

Service Condition: Outdoor

Roof: Domed or sloped to prevent standing water

Base: Sealed bottom to prevent access to animals and foliage, Screened drain vents provided for drainage in case of flooding

Altitude: N/A

Ambient Temperature Rating: N/A

Door Safety: Internal door safety barrier

Hardware Materials: Stainless Steel

Terminator Parking Stands: Welded stainless steel, quantity suitable for number of bushings provided

Enclosure Class: NEMA 3R Weatherproof, Aluminum

Nameplate Materials: Corrosion Resistant Stainless Steel w/ Stainless Steel Screws or Rivets For CT & VT

Markings: Manufacturer Name, Manufacturer Serial Number, Nominal Operating Voltage, Rated Current, BIL, Equipment Manufacture Date, One-line diagram showing CT and PT ratios

Paint Color: Munsell™ 7GY 3.29/1.5 Bell Green

Mounting Provisions: Pad Mount

Lifting Provisions: Included

Spare Parts: three (3) spare primary fuses for the PTs.

Dimensions: 31.5" x 78.7" x 31.5"

Weight: 661.4 lbs

Special Orders- Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

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Fax: 1-903-765-7664

E-mail: sales@larsonelectronics.com

The MPD-EMC-R7-3P-GMR-15KV-YT-600.5CT-N3R-M2 Electrical Metering Cabinet from Larson Electronics is designed for power utility applications in outdoor locations. The low operating costs, low heat emissions and low cost of ownership make this transformer an ideal solution for metering, high voltage system control and more. This cabinet is compatible with pad mounting installations.

Cabinet Features: The MPD-EMC-R7-3P-GMR-15KV-YT-600.5CT-N3R-M2 is rated for 15 kV, 60 Hz. The system has heavy-duty windings for high strength and thermal/electrical conductivity.

Insulation Fluid: The MPD-EMC-R7-3P-GMR-15KV-YT-600.5CT-N3R-M2 is a dry type.

Primary Connections: The cabinet has 600A load break bushings for primary connections. The terminal conducting surface is horizontal. The current transfer point is tinned or silver plated.

Secondary Connections: This CT/PT have accessible terminal blocks 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 MPD-EMC-R7-3P-GMR-15KV-YT-600.5CT-N3R-M2 is pad mounted.

Benefits: The MPD-EMC-R7-3P-GMR-15KV-YT-600.5CT-N3R-M2 cabinet 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.

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Frequently Asked Questions (FAQ)

There are no Faqs