Larson Electronics LLC
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MPD-EMC-R7-3P-YT-15KV-YT-800.5CT-N3R-M1

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

Product ID: 335579

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



Image: MPD-EMC-R7-3P-YT-15KV-YT-800.5CT-N3R-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.

MPD-EMC-R7-3P-YT-15KV-YT-800.5CT-N3R-M1 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: 208Y/120V
Current Ratio: 800:5
CT Design Form: Wound
Accuracy Class: 0.15S Class

Secondary Terminals:

- Provided with a manual shorting device

Ratings

Complies with ANSI / IEEE C57.13
Complies with ANSI / IEEE C57.13.6
Meets/Exceeds IEEE C57.12.28
Meets IEEE 386 for 200A separable load-break connectors

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.

- Suitable for terminating #14 through #4 AWG copper conductors
- Sealable protective cover provided

PT Specifications:

Quantity: (3)
Primary Voltage: 208Y/120V
Primary Voltage Class: 15 KV
Secondary Voltage: 208Y/120V
Voltage Ratio: As required
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: 800A 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: 800A Separable Dead-Break Bushings
Dead-Front Bushings Per Phase: One (1) 800A Dead-Break Bushing Well
Radial Feed: One (1) 800A 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
Intl: 1-903-270-1187
Fax: 1-903-765-7664
E-mail: sales@larsonelectronics.com

The MPD-EMC-R7-3P-YT-15KV-YT-800.5CT-N3R-M1 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.

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

Cabinet Features: The MPD-EMC-R7-3P-YT-15KV-YT-800.5CT-N3R-M1 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-YT-15KV-YT-800.5CT-N3R-M1 is a dry type.

Primary Connections: The cabinet has NEMA 4-inch, 2-hole copper pad terminals 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-YT-15KV-YT-800.5CT-N3R-M1 is pad mounted.

Benefits: The MPD-EMC-R7-3P-YT-15KV-YT-800.5CT-N3R-M1 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

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Export Control Classification Number (ECCN): EAR99

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- **Video1** (https://www.youtube.com/watch?v=4-JEyYeYcn8)
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