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MPD-EMC-R7-3P-DMR-15KV-YT-50.5CT-N3R-M2

15 kV Electrical Metering Cabinet, Combination CT/PT, 3-Phase, Dry Type – ACUVIM II Power & Energy Meter – Pad Mount, Outdoor Service

Product ID: 342087



Image: MPD-EMC-R7-3P-DMR-15KV-YT-50.5CT-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-DMR-15KV-YT-50.5CT-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, 3 Wire

Metering Device: ACUVIM II Series Advanced Power & Energy Meter | ANSI C12.20 Class 0.2 Accuracy
Meter Functions: Voltage, Current, Power, Energy, Frequency, Power Factor, Harmonics Monitoring

CT Specifications:

Type: Split Core, Revenue Grade, Outdoor Rated

Quantity: (3)

Rated Voltage: 15 kV
Current Ratio: 50:5
CT Accuracy Class: 0.3

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:

Type: Revenue Grade, Outdoor Rated

Quantity: (3)

Primary Voltage: 12,470V Delta (L-L)

Primary Voltage Class: 15 KV

Secondary Voltage: 208V

Voltage Ratio: 60:1
PT Accuracy Class: 0.3

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: 200A Separable Load-Break Bushings

Dead-Front Bushings Per Phase: One (1) 200A Load-Break Bushing Well

Radial Feed: One (1) 200A load-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

Dead-Front Bushings Per Phase: (1) 200A Load-Break Bushing Well

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

Metering Device: ACUVIM II Series Advanced Power & Energy Meter

Meter Display: Backlit LCD multifunction display

Meter Communication Ports: RS-485 / Ethernet

Metering Parameters: kW, kVAR, kVA, PF, Voltage, Current, Frequency, kWh, THD

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: 59.06"-W x 49.21"-D x 59.06"-H
Weight: 661.4 lbs

Special Orders- Requirements
Contact us for special requirements
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The MPD-EMC-R7-3P-DMR-15KV-YT-50.5CT-N3R-M2 Electrical Metering Cabinet from Larson Electronics is designed for utility-grade power monitoring and metering applications in outdoor and industrial locations. This heavy-duty EMC integrates combination current transformers (CTs), voltage transformers (PTs), and an ACUVIM II Series advanced power and energy meter for accurate electrical system monitoring, energy measurement, and power quality analysis. The cabinet is compatible with medium voltage power distribution systems and 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-DMR-15KV-YT-50.5CT-N3R-M2 is rated for 15 kV, 60 Hz, three-phase operation. The system features dry-type CT/PT construction with copper buswork and dead-front separable load-break terminations. The integrated ACUVIM II Series Power & Energy Meter provides multifunction monitoring of voltage, current, power, energy consumption, frequency, power factor, demand, and harmonic distortion parameters with revenue-grade accuracy.

Metering System: The ACUVIM II Series advanced multifunction meter supports real-time monitoring and data acquisition for utility and industrial applications. The metering device offers Ethernet and RS-485 communication capabilities with support for Modbus RTU/TCP protocols for integration into SCADA, BMS, and remote monitoring systems.

Insulation System: The MPD-EMC-R7-3P-DMR-15KV-YT-50.5CT-N3R-M2 utilizes dry-type insulated CT/PT components for reliable medium voltage metering applications. The system is engineered for low maintenance operation and long service life in demanding outdoor environments.

Primary Connections: The cabinet features 200A separable load-break bushings and fused jumpers insulated for 15 kV service. The primary conducting surfaces are designed for reliable medium voltage operation with high mechanical and thermal strength.

Secondary Connections: The CT/PT assembly provides accessible terminal blocks and test switch provisions for simplified testing and maintenance procedures. Secondary wiring utilizes solid copper conductors with industry-standard color coding for accurate field identification and installation.

Mount: The MPD-EMC-R7-3P-DMR-15KV-YT-50.5CT-N3R-M2 is pad mounted and constructed with a NEMA 3R weatherproof aluminum enclosure suitable for outdoor service conditions.

Benefits: The MPD-EMC-R7-3P-DMR-15KV-YT-50.5CT-N3R-M2 Electrical Metering Cabinet provides accurate revenue-grade electrical monitoring for utilities, substations, industrial facilities, and power distribution systems. The integrated ACUVIM II metering platform enables improved energy management, power quality analysis, system diagnostics, and reduced operational costs through advanced monitoring capabilities.

Applications: Utility metering, electrical substations, medium voltage distribution systems, industrial power monitoring, power quality analysis, SCADA integration, energy management systems, utility power generation, power grids, and high voltage system control applications.

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