Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664

MPD-EMC-R7-3P-DMR-15KV-SW-300.5CT-N3R-M1

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

Product ID: 333753

Image: MPD-EMC-R7-3P-DMR-15KV-SW-300.5CT-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-DMR-15KV-SW-300.5CT-N3R-M1 Electrical Metering Cabinet Combinations (CT/PT)

Unit Type: Pole Mounted Primary Metering Assembly
Unit Configuration: Combinations Current & Voltage Transformer (CT/PT), Dry Type
Rated Frequency: 60 Hz
Phase: Three Phase
Wiring Configuration: 4-Wire

Ratings

Complies with ANSI / IEEE C57.13
Complies with ANSI / IEEE C57.13.6
Meets/Exceeds IEEE C37.41 / IEEE C62.11

CT Specifications:

Quantity: (3)
Rated Voltage: 15 kV
Current Ratio: 300:5
CT Design Form: Wound
Accuracy Class: 0.3 Class
Continuous Thermal Current Rating Factor (rf): 1.5
Short-Time Thermal Rating: 25 kA / 1 sec
Short-Time Mechanical Rating: 62.5 kA peak

Secondary Terminals:

- Provided with a manual shorting device
- Suitable for terminating #14 through #4 AWG copper conductors
- Sealable protective cover provided

PT Specifications:

Quantity: (3)

Primary Voltage: 12470V Delta

Primary Voltage Class: 15 KV

Secondary Voltage: 120V

Voltage Ratio: 104:1

Accuracy Class: 0.3 Class

Thermal Burden: 500 VA @ 30°C

Primary Protection: External fused cutout protection

BIL: 110 kV BIL

Primary Protection: Pole-mounted fused cutout, 100A

Surge Protection: Polymer-housed lightning arresters, 10.2 kV MCOV

Test Switch Type: 10-pole test switch with shorting capability

Test Switch Location: Meter enclosure

CT Wiring: #10 AWG copper

VT Wiring: #12 AWG copper

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

Meter: Provision for external revenue meter (SEL-735 or equivalent)

Meter Mounting: NEMA 3R weatherproof enclosure

Insulation Medium: Dry Type (Epoxy Resin Encapsulated)

Primary Connections: Overhead line connections via porcelain/polymer bushings

Dead-Front Terminations: N/A (open-air pole configuration)

Bus System: 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

Grounding: Bonded to pole grounding system with ground conductor

Grounding Points: Two (2) ground lugs provided

Service Condition: Outdoor

Altitude: ≤ 3,300 ft

Ambient Temperature Range: -40°C to +65°C

Humidity: 0–100% Non-condensing

Winding Material: Copper

Hardware Materials: Galvanized Steel / Stainless Steel

Enclosure Class: NEMA 3R, Outdoor

Nameplate Materials: Corrosion Resistant Stainless Steel

Fused Cutout: 15 kV, 100 A, drop-out type

Lightning Arresters: Distribution class MOV type

Metering Accuracy: Revenue Grade (ANSI C12.20 Class 0.2 capable system)

Mounting Structure: Pole-mounted crossarm / bracket assembly
Mounting Provisions: Pole Mount
Lifting Provisions: Included
Conduits: 1-1/4" PVC-coated rigid galvanized steel (RGS)
Dimensions:
Weight:

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-DMR-15KV-SW-300.5CT-N3R-M1 Primary Metering Assembly 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 assembly an ideal solution for revenue metering, power monitoring and medium voltage system control. This unit is compatible with pole mounting installations.

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

Assembly Features: The MPD-EMC-R7-3P-DMR-15KV-SW-300.5CT-N3R-M1 is rated for 15 kV, 60 Hz. The system includes metering-class current transformers and potential transformers, along with a fused cutout and surge arresters for protection. The assembly has heavy-duty windings for high strength and thermal/electrical conductivity.

Insulation Fluid: The MPD-EMC-R7-3P-DMR-15KV-SW-300.5CT-N3R-M1 is a dry type.

Primary Connections: The assembly features overhead line connections using porcelain or polymer bushings with industry standard terminals. The terminal conducting surface is designed for reliable current transfer and is tinned or silver plated.

Secondary Connections: This CT/PT assembly has accessible terminal blocks for secondary connections. The terminal block is protected by a weatherproof, metal junction box and features a large access door. Operators can access multiple conduit openings for completing connections.

Mount: The MPD-EMC-R7-3P-DMR-15KV-SW-300.5CT-N3R-M1 is pole mounted.

Benefits: The MPD-EMC-R7-3P-DMR-15KV-SW-300.5CT-N3R-M1 assembly offers many benefits to consumers. This system provides accurate revenue-grade metering and improved system visibility while maintaining high efficiency. Higher efficiency not only extends the life of the equipment, but also turns into cost savings for owners in the form of lower energy losses and decreased cost of ownership.

Applications: Electric power distribution, utilities, utility power generation, power grids, substations, revenue metering, power monitoring, and medium voltage system control.

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