Larson Electronics LLC
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MPD-EMC-R7-3P-DXT-15KV-YW-1200.5CT-N3R

15 kV Electrical Metering Cabinet, Combination (CT/PT) – 1200A – 3-Phase – Pad Mount, Dead Front – Outdoor Service

Product ID: 345940

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



Image: MPD-EMC-R7-3P-DXT-15KV-YW-1200.5CT-N3R

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-DXT-15KV-YW-1200.5CT-N3R Electrical Metering Cabinet, Combinations (CT/PT)

Made in the USA

Unit Type: Electrical Metering Cabinet (EMC), Combination Current & Voltage Transformer, Dry Type

Unit Configuration: Combination Current & Voltage Transformer (CT/PT), Primary Metering & Load Break Switch Cabinet, Dry Type
Rated Frequency: 60 Hz, Phase: Three-Phase, Wire: Three-Wire
System Voltage: 12.47kV Nominal, 15kV Voltage Class
Continuous Current: 1200A

CT Specifications
Quantity: (3), Rated Voltage: 15 kV
Current Ratio: 1200:5
Metering Accuracy Class: 0.3B0.9, Relaying Accuracy Class: C100

PT Specifications
Quantity: (3), Primary Voltage Class: 15kV
Secondary Voltage: 120V, Connection: Line-Ground

Primary Connections & Switching

Features of Every Assembly

12-Gauge Galvanneal Steel Construction
Silver-Plated Copper Bus Bars
GPO-3 Compartment & Phase Barriers
Stainless Steel Parking Stands, Munsell Green Powder-Coated Finish

Ratings & Approvals
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

Input: (3) Line-Side Bushings; Output: (3) Load-Side Bushings — 15kV, 1200A
Load Break Switch: (1), 15kV, 1200A, 40kA, Side-Mounted Direct-Drive Operating Handle

Protection & Auxiliary Equipment
(3) Distribution-Class Surge Arresters, 15kV Class
(1) 240VAC, 30A, 3-Pole NEMA 3R Safety Switch
(3) 600V, 5A Fuse Units (auxiliary/control circuits)
(3) Thermostatically Controlled Strip Heaters, 500W

Metering & Construction
Power Quality/Revenue Meter: Not Included; Terminal Blocks/Metering Connections Provided
Insulating Material: Air, Dry Type
Ground Pads Included on CT/PT Sides
Enclosure: NEMA 3R Weatherproof, 12-Gauge Steel, Munsell 7GY 3.29/1.5 Green
Hardware: Stainless Steel; Nameplate: Corrosion-Resistant Stainless Steel

Dimensions & Shipping
Overall Dimensions: 144"W × 60"D × 72"H (estimate)
Approximate Weight: 3,800 lbs (estimate)
Shipping Dimensions: TBD
Shipping Weight: TBD

Shipping
Shipped on pallet or skid
Final shipping configuration subject to approved design

Special Orders – Special 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

Customer Compliance
Final arrangements, sizes, ratings, settings, configuration, and installation details will be finalized during detailed engineering review and customer approval prior to release for manufacture.

Larson Electronics manufactures a wide variety of custom power distribution systems. The pictures displayed for this unit are a general representation of form factor and may not accurately represent this exact configuration in every detail due to being custom builds. The specifics for this configuration are listed in the specification table and one-line diagram.

Made in the USA

The MPD-EMC-R7-3P-DXT-15KV-YW-1200.5CT-N3R Electrical Metering Cabinet from Larson Electronics is a 15kV class primary metering and switching enclosure designed for utility and medium-voltage power distribution systems. This 1200A, three-phase, four-wire cabinet provides accurate primary metering through integrated current transformers (CTs) and potential transformers (PTs), while incorporating a 15kV class load-break switch for isolation and switching. Built for pad-mounted outdoor installations, this dead-front cabinet provides protected access to the metering equipment and line/load-side medium-voltage connections.

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

The unit is rated for a 12.47kV nominal system voltage and 15kV voltage class, with 1200A continuous current. The unit features three (3) 15kV class current transformers at a 1200:5

ratio with 0.3B0.9 metering accuracy and C100 relaying accuracy, as well as three (3) 15kV class potential transformers with a 120V secondary, line-ground connection. The cabinet is constructed of 12-gauge galvanneal steel with a NEMA 3R weatherproof enclosure, silver-plated copper bus bars, GPO-3 compartment and phase barriers, stainless steel parking stands, and a Munsell green powder-coated finish.

Insulation Fluid
The unit is a dry type and utilizes air insulation.

Primary Connections
The cabinet is equipped with three (3) line-side and three (3) load-side bushings, with one line-side and one load-side bushing per phase, rated for 15kV class, 1200A.

Load Break Switch
The unit is equipped with one (1) 15kV class, 1200A load-break switch with a side-mounted direct-drive operating handle.

Protection and Auxiliary Equipment
The cabinet includes three (3) distribution-class surge arresters rated for 15kV class, one (1) 240VAC, 30A, 3-pole NEMA 3R safety switch, three (3) 600V, 5A fuse units, and three (3) thermostatically controlled strip heaters rated at 500W.

Metering
The unit provides integrated CT and PT primary metering provisions. A revenue or power quality meter is not included. All incoming and outgoing wiring and terminations are supplied by others.

Mount
The unit is pad-mounted and designed for outdoor installation.

Additional Features
The enclosure includes screened tamper-proof louvers, warning and safety labels, and a pad-lockable door handle with a hex head bolt. Standard factory production testing is included.

Applications
Electric power distribution, utility metering, revenue metering, medium-voltage distribution systems, substations.

Customer Compliance
This equipment is offered per the specifications and ratings detailed herein. Minor refinements to arrangement, dimensions, and installation details may be made during detailed engineering review to ensure proper fit, code compliance, and manufacturability, with any such refinements confirmed prior to manufacture.

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=1Xn7rv5MXz0)
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