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MPD-EMC-R7-3P-DMT-15KV-YT-600.5CT-N3R-M1

15 kV Electrical Metering Cabinet, Combination CT/PT with SEL-735 Meter – 3-Phase, 600A, 600:5 CT Ratio, Dry Type, NEMA 3R, Pad-Mount, Outdoor Service

Product ID: 345511



Image: MPD-EMC-R7-3P-DMT-15KV-YT-600.5CT-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-DMT-15KV-YT-600.5CT-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
Rated Current: 600A
Wiring Configuration: 4-Wire

Ratings

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

CT Specifications:

Quantity: (3)
Type: Bar Primary Type
Rated Voltage: 15 kV
BIL: 110 kV
Current Ratio: 600:5
Accuracy Class: 0.3 B-0.5
Continuous Thermal Rating Factor (@30°C): 2.0
Secondary Terminals: Brass Quick Connector

PT Specifications:

Quantity: (3)
Primary Voltage: 12000V (Line-to-Line)
Primary Voltage Class: 15 kV
Primary BIL: 110 kV
Secondary Voltage: 120V

Secondary Voltage Class: 1.2 kV
Voltage Ratio: 100:1
Thermal Rating (@30°C): 1500 VA
Metering Accuracy Class: 0.3 W, X, M, Y, Z
Voltage Factor Rating: 1.1 (Cont.), 1.25 (30 sec.)
Creepage Distance: 21.2 Inches
Primary Overcurrent Protection (OCP): Fused, 16A

Input Configuration: 600A dead-break elbow connections, bottom-fed primary cables
Output Configuration: 600A dead-break elbow connections
Primary Connection Design: Dead-front construction designed to accept load-break inserts and elbows
Bypass Provisions: Feed-through brackets and parking stands for metering bypass
Power Quality and Revenue Meter: SEL-735, without meter socket, installed in its own cabinet; subject to utility metering requirements
Insulating Material: Air, Dry Type
Ground Pads: Included in CT/PT Sides
Grounding: Ground bus or cable at the bottom of the enclosure for voltage transformer connections
CT/PT Compartment: Supports up to (3) current transformers and (3) voltage transformers
Internal Barriers: Removable barrier in front of instrument transformers; dielectric barriers between phases
Phase Separation: In accordance with applicable industry standards
Winding Material: Copper
Service Condition: Outdoor
Altitude: N/A
Ambient Temperature Rating: N/A
Hardware Materials: Stainless Steel
Enclosure Class: NEMA 3R Weatherproof
Enclosure Construction: Minimum 12-gauge galvanized painted steel, aluminum, or 1/4" nominal thickness fiberglass
Enclosure Standard: ANSI/IEEE C57.12.28
Primary Connections: Dead-front design with load-break inserts and elbows
Door Locking: Three-point locking mechanism with penta-bolt-style lock
Nameplate Materials: Corrosion-resistant stainless steel with stainless steel screws or rivets for CT and VT identification
Paint Color: Munsell™ 7GY 3.29/1.5 Bell Green
Mounting Provisions: Outdoor pad mount; installation on concrete pad or box pad riser
Lifting Provisions: Lifting eyes included
Dimensions: 59.06"W x 49.21"D x 59.06"H
Weight: 1,300 Lbs

Special Orders- Requirements

Contact us for special requirements
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The MPD-EMC-R7-3P-DMT-15KV-YT-600.5CT-N3R-M1 Electrical Metering Cabinet from Larson Electronics is designed for utility metering applications in outdoor locations. This combination current and voltage transformer (CT/PT) cabinet supports revenue metering, electrical system monitoring, and power quality analysis. The outdoor, pad-mounted design provides a dedicated enclosure for medium-voltage metering equipment in utility and power distribution installations.

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

Cabinet Features: The MPD-EMC-R7-3P-DMT-15KV-YT-600.5CT-N3R-M1 is designed for 15 kV-class, three-phase, 4-wire applications operating at 60 Hz, with a 600A primary connection rating and 95 kV BIL. The system includes (3) 600:5 bar-type current transformers

and (3) potential transformers with a 100:1 voltage ratio. The CTs and PTs feature 0.3% metering accuracy. The PTs have a nominal primary voltage of 12,000V line-to-line and a 208Y/120V secondary configuration. An SEL-735 power quality and revenue meter is included in its own cabinet.

Insulation Fluid: The MPD-EMC-R7-3P-DMT-15KV-YT-600.5CT-N3R-M1 utilizes air insulation and a dry-type CT/PT configuration.

Primary Connections: The cabinet utilizes 600A dead-break elbow connections for medium-voltage primary connections. The dead-front design accommodates load-break inserts and elbows, with feed-through brackets and parking stands provided for metering bypass applications.

Secondary Connections: The CT/PT assembly provides secondary metering connections for the revenue meter and power quality monitoring equipment. Ground pads are included on the CT/PT sides, with a ground bus or cable provided at the bottom of the enclosure for potential transformer grounding.

Enclosure: The MPD-EMC-R7-3P-DMT-15KV-YT-600.5CT-N3R-M1 features a NEMA 3R weatherproof enclosure designed for outdoor pad-mounted installations. The enclosure incorporates a removable instrument transformer barrier, dielectric barriers between phases, stainless steel hardware, and a three-point locking mechanism with a penta-bolt-style lock. The enclosure design follows ANSI/IEEE C57.12.28 requirements for pad-mounted equipment enclosure integrity.

Mount: The MPD-EMC-R7-3P-DMT-15KV-YT-600.5CT-N3R-M1 is designed for outdoor pad mounting on a concrete pad or box pad riser.

Benefits: The MPD-EMC-R7-3P-DMT-15KV-YT-600.5CT-N3R-M1 provides a dedicated enclosure for medium-voltage electrical metering, supporting utility revenue measurement, power quality monitoring, and electrical system analysis. Its weather-resistant enclosure and accessible CT/PT compartment support outdoor installation and maintenance.

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