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MPD-EMC-R7-3P-DXT-35KV-YW-400.5CT-N3R-M2

35 kV Electrical Metering Cabinet, Combinations (CT/PT) - 600A - 3-Phase - Pad Mount, Dead Front - Outdoor Service - w/ SEL-735

Product ID: 345722



Image: MPD-EMC-R7-3P-DXT-35KV-YW-400.5CT-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-DXT-35KV-YW-400.5CT-N3R-M2 Electrical Metering Cabinet Combinations (CT/PT)

Unit Type: Electrical Metering Cabinet (EMC)

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: 34,500V Delta

BIL: 150 kV

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)

Rated Voltage: 35 kV

Current Ratio: 400:5

Metering Accuracy Class: 0.3B0.9

Relaying Accuracy Class: C100

Burden Rating: B0.9

PT Specifications:

Quantity: (3)

Primary Voltage: 34,500V

Primary Voltage Class: 35 KV

Primary BIL: 200 kV

Secondary Voltage: 120V

Secondary Voltage Class: 1.2 KV

Voltage Ratio: 175/300

Thermal: N/A

Connection: Line-Ground

Metering Accuracy Class: 0.3WXMY

Input Configuration: (3) Line-Side Bushings

Output Configuration: (3) Load-Side Bushings

Power Quality and Revenue Meter: Included, SEL-735

Insulating Material: Air, Dry Type

Meter Socket: N/A, Terminal Blocks / Metering Connections Provided

Ground Pads: Included in CT/PT Sides

Phase To Ground Compartment Barriers: GPO-3

Winding Material: N/A

Service Condition: Outdoor

Bus Bar Material: Silver-Plated Copper

Altitude: 3,300 ft. Maximum Standard

Ambient Temperature Rating: -40°C to +40°C

Hardware Materials: Stainless Steel

Enclosure Color: Munsell™ 7GY 3.29/1.5 Green

Enclosure Material: 12 gauge Steel (Standard)

Enclosure Class: NEMA 3R Weatherproof

Nameplate Materials: Corrosion-Resistant Stainless Steel
Paint Color: Munsell™ 7GY 3.29/1.5 Bell Green
Mounting Provisions: Pad Mount
Lifting Provisions: Included
Elbow Centerline Height: ~14" – 16" off ground
Dimensions: 72" H × 150" W × 72" D
Weight:

Special Orders- Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
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E-mail: sales@larsonelectronics.com

The MPD-EMC-R7-3P-DXT-35KV-YW-400.5CT-N3R-M2 Electrical Metering Cabinet from Larson Electronics is a 35 kV primary metering and switching enclosure designed for utility and medium-voltage power distribution systems. This 600A, three-phase cabinet provides accurate primary metering through integrated current transformers (CTs) and potential transformers (PTs), while incorporating a 35 kV 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*

Cabinet Features: The MPD-EMC-R7-3P-DXT-35KV-YW-400.5CT-N3R-M2 is rated for a 34.5 kV nominal system voltage, 35 kV voltage class, 150 kV BIL and 600A continuous current. The unit features three (3) 35 kV, 400:5 current transformers with 0.3B0.9 metering

accuracy and C100 relaying accuracy, as well as three (3) 35 kV potential transformers with a 175/300:1 ratio and 0.3WXMY metering accuracy. 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 MPD-EMC-R7-3P-DXT-35KV-YW-400.5CT-N3R-M2 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. The bushings are rated for 35 kV, 150 kV BIL and 600A.

Load Break Switch: The MPD-EMC-R7-3P-DXT-35KV-YW-400.5CT-N3R-M2 is equipped with one (1) 35 kV, 600A, 40 kA load-break switch with a side-mounted direct-drive operating handle.

Protection and Auxiliary Equipment: The cabinet includes three (3) 30 kV MCOV distribution-class surge arresters, one (1) 240 VAC, 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 MPD-EMC-R7-3P-DXT-35KV-YW-400.5CT-N3R-M2 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 MPD-EMC-R7-3P-DXT-35KV-YW-400.5CT-N3R-M2 is pad-mounted and designed for outdoor installation. The cabinet dimensions are 72" high by 150" wide by 72" deep.

Benefits: The MPD-EMC-R7-3P-DXT-35KV-YW-400.5CT-N3R-M2 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.

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, renewable energy facilities, wind farms, utility power generation and high-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