Larson Electronics LLC
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MPD-MES-VCB-3P3W-14-6KV-630A-16K-DO-FM-BE-R.M.-CU-IP21-DF-M1

Metal Enclosed Switchgear, Vacuum Circuit Breaker, 3P3W, 1 In/ 4 Out, 6kV Class, 630A, Draw-Out, Arc-Resistant Type 2B, IP21, Dead Front, Model 1

Product ID: 339808

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



Image: MPD-MES-VCB-3P3W-14-6KV-630A-16K-DO-FM-BE-R.M.-CU-IP21-DF-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-MES-VCB-3P3W-14-6KV-630A-16K-DO-FM-BE-R.M.-CU-IP21-DF-M1 Metal Enclosed Switchgear

Unit Type: Metal Enclosed Switchgear, Vacuum Circuit Breaker, Arc-Resistant Type 2B

Configuration: 3-Phase, 3-Wire
Assembly Type: 1 Incoming Feeder Panel / 4 Outgoing (3 Feeder Panels + 1 UPS Auxiliary Cabinet)
Voltage Class: 6kV
Main Bus Rating: 630A
Short Circuit Rating: 16kA
Mounting Style: Draw-Out Type
Mounting Configuration: Floor Mounted
Protection & Monitoring: Relay + Meter Package
Bus Material: Copper
Enclosure Type: IP21
Front Type: Dead Front

Incoming Feeder Panel (Qty 1)

Made in the USA

Features of Every Assembly

Draw-Out Vacuum Circuit Breaker Construction
Metal Enclosed Dead Front Construction
Front-Accessible Compartments
IP21 Rated Enclosure, Metal Partitions Between Compartments
Arc-Resistant Type 2B Construction
Non-Conventional Instrumentation — Current Sensors and Voltage Dividers per Feeder
Integrated Protection Relays and Automation, Each Panel
Overvoltage Protection, Each Panel
Arc Fault Protection, Each Panel

Ratings & Approvals

Designed and Tested in accordance with IEC 62271-200, Metal-Enclosed Switchgear and Controlgear for Rated

Vacuum Circuit Breaker, Draw-Out, 630A Continuous, 16kA

Current Sensor and Voltage Divider Instrumentation
Overvoltage Protection
Arc Fault Protection
Protection Relays and Automation

Outgoing Feeder Panels (Qty 3)
Vacuum Circuit Breaker, Draw-Out, per Feeder
Current Sensor and Voltage Divider Instrumentation, per Feeder
Overvoltage Protection, per Feeder
Arc Fault Protection, per Feeder
Protection Relays and Automation, per Feeder

UPS Auxiliary Cabinet (Qty 1)
Uninterruptible Power Supply, 0.75kW Rated Power
Provides Continuous Control Power to Protection Relays, Breaker Trip/Close Coils, and Automation During Loss of Main Source

Protection & Relay Configuration
Digital Protection Relays, Each Feeder — Current Sensor and Voltage Divider Inputs
Overvoltage and Arc Fault Detection Functions, Each Panel
Automation and Communications Provisions, Each Panel

Arc-Resistant Construction
Type 2B Construction — Reinforced Front, Rear, and Side Panels with Pressure-Relief Venting
Reinforced Barriers Between Adjacent Compartments

Bus System
630A Copper Main Bus
Copper Ground Bus
Metal Partitions Between All Compartments

Construction
Metal Enclosed Construction, Dead Front Design
IP21 Rated Enclosure
Floor Mounted Assembly, Bottom Entry Cable Configuration

Dimensions & Shipping
Panel Dimensions: 32 in W × 79 in D × 91 in H (estimated)
Overall Lineup Dimensions: 158 in W × 79 in D × 91 in H (estimated, 5 panels total: 1 incoming, 3 outgoing, 1 UPS)
Approximate Weight: 8,500 lbs (estimated)
Shipping Dimensions: TBD
Shipping Weight: TBD

Special Features
Arc-Resistant Type 2B Construction, Non-Conventional Instrumentation (Current Sensor/Voltage Divider), UPS-Backed Control Power, IP21 Enclosure

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 applicable drawings.

Voltages Above 1kV and up to and including 52kV
All grounding shall comply with applicable local and international electrical codes

Shipping
Shipped on pallet or skid
Crated shipment available upon request
Final shipping configuration subject to approved design

Special Orders – Special Requirements

Contact us for special requirements

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Made in the USA

The Larson Electronics MPD-MES-VCB-3P3W-14-6KV-630A-16K-DO-FM-BE-R.M.-CU-IP21-DF-M1 Metal Enclosed Switchgear is a custom-engineered medium-voltage switchgear assembly designed to provide switching, protection, and power distribution for industrial applications at 6kV. This assembly incorporates draw-out vacuum circuit breaker construction, a 630A copper main bus, a 16kA short-circuit rating, integrated protection and metering provisions, and a dead front IP21-rated enclosure with arc-resistant Type 2B construction.

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

The **MPD-MES-VCB-3P3W-14-6KV-630A-16K-DO-FM-BE-R.M.-CU-IP21-DF-M1** is engineered as a centralized medium-voltage switching and protection hub, combining draw-out vacuum circuit breaker technology, non-conventional current sensor and voltage divider instrumentation, integrated protection relays and automation, and UPS-backed control power into a single coordinated five-panel lineup consisting of one incoming feeder panel, three outgoing feeder panels, and one UPS auxiliary cabinet.

Incoming Feeder Panel:
The incoming feeder panel incorporates a draw-out vacuum circuit breaker rated 630A continuous with a 16kA short-circuit rating, current sensor and voltage divider instrumentation, overvoltage protection, arc fault protection, and integrated protection relays and automation.

Outgoing Feeder Panels:
Three outgoing feeder panels, each incorporating a draw-out vacuum circuit breaker, current sensor and voltage divider instrumentation, overvoltage protection, arc fault protection, and integrated protection relays and automation, matching the incoming panel's protection philosophy on a per-feeder basis.

UPS Auxiliary Cabinet:
One UPS auxiliary cabinet rated 0.75kW, providing continuous control power to protection relays, breaker trip/close coils, and automation equipment during any interruption of the main source, ensuring protection and control functions remain active independent of switchgear energization status.

Protection & Relay Configuration:
Digital protection relays are provided on each feeder, receiving inputs from current sensor and voltage divider instrumentation rather than conventional current and potential transformers. Overvoltage and arc fault detection functions are provided on every panel, with automation and communications provisions throughout the lineup.

Arc-Resistant Construction:
The assembly incorporates Type 2B arc-resistant construction, with reinforced front, rear, and side panels together with pressure-relief venting to contain and direct internal arcing fault energy away from personnel, and reinforced barriers between adjacent compartments to limit fault propagation across the lineup.

Bus System:
The assembly utilizes a 630A copper main bus together with a continuous copper ground bus and metal partitions between all compartments.

Construction:
The enclosure is metal enclosed with dead front construction, rated IP21, floor-mounted, with bottom entry cable configuration throughout.

Ratings & Approvals:
The switchgear is designed and tested in accordance with IEC 62271-200, Metal-Enclosed Switchgear and Controlgear for Rated Voltages Above 1kV and up to and including 52kV. All grounding provisions comply with applicable local and international electrical codes.

Larson Electronics manufactures a wide variety of custom medium-voltage power distribution systems. Images shown are representative only and may not depict the exact configuration supplied. Final construction shall conform to the approved drawings, specifications, and customer requirements.

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

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Frequently Asked Questions (FAQ)

There are no Faqs

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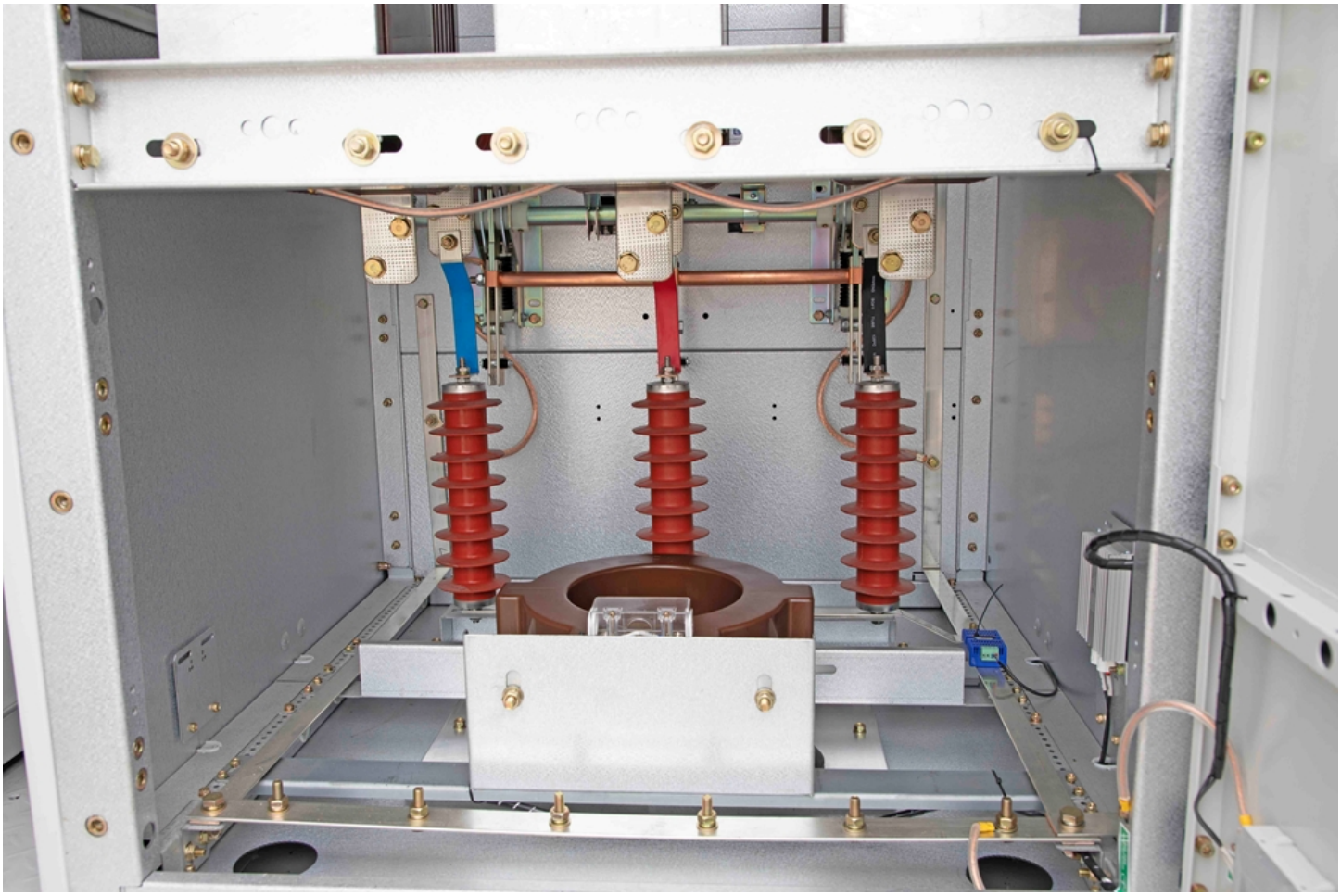


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Export Control Classification Number (ECCN): EAR99

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