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MPD-LES-VFI-3P3W-31-15KV-600A-32K-BE-PM-MET-REM-CU-N3R-DF

Pad-Mount Solid Dielectric Switchgear, 4-Way Configuration (3x600A + 1x200A), 15kV Class, 600A, 32kA, Dead Front, w/ Integrated Automation Cabinet

Product ID: 341929



Image: MPD-LES-VFI-3P3W-31-15KV-600A-32K-BE-PM-MET-REM-CU-N3R-DF

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-LES-VFI-3P3W-31-15KV-600A-32K-BE-PM-MET-REM-CU-N3R-DF Pad-Mount Solid Dielectric Switchgear

Unit Type: Pad-Mount Solid Dielectric Switchgear, Vacuum Fault Interrupter, 4-Way Single-Sided

Way Configuration: 3× 600A, 3-Phase, Gang-Operated, Solid-Dielectric Insulated VFI + 1× 200A, Single-Phase Operated, Solid-Dielectric Insulated VFI

Voltage Rating: 15kV Nominal, 17.5kV Maximum Design

Frequency: 60Hz

BIL Impulse: 95kV

AC Withstand Voltage (1 Min): 34kV
DC Withstand Voltage (15 Min): 53kV
Mechanical Operations Rating: 2000

600A Way Ratings (Qty 3)
Continuous Current: 600A
Load Interrupting Current: 600A
Capacitive Switching: 10A
Asymmetrical Momentary / 3-Op Fault Close: 32kA
Symmetrical 1-Second Rating: 20kA

200A Way Ratings (Qty 1)

Sourced per Approved Manufacturer List

Features of Every Assembly

Dead Front Construction, All Terminations Operated from Front
304 Stainless Steel Cabinet, Compartment Doors, Sill, and Base
Quick-Make/Quick-Break Switching, Independent of Handle Speed
3-Point Latching Door with APU-Standard Padlock Provisions
Padlockable Operating Handles, Open and Closed Positions
Visible Open Port, Each Switch Way
Integrated Automation Cabinet, 304 Stainless Steel, Weatherproof

Continuous Current: 200A
Load Interrupting Current: 200A
Asymmetrical Momentary / 3-Op Fault Close: 20kA
Symmetrical 1-Second Rating: 12.5kA

Protection & Relay Configuration
Automation Platform: SEL 487 (or shorter lead time equivalent), Rack-Mounted Relay/Automation Unit
Per-Phase Current Transformers: Bushing-Type, Internal CT Shorting Scheme, Submersible Connector to Automation Cabinet, 500:1 or 600:1 Ratio
Per-Phase Voltage Sensors: 3P Accuracy Class Minimum
Remote/Local Selector Switches (4), Open/Close Pushbuttons (8), FT-1 CT Shorting Test Switches (4), FT-1 Potential Test Switches, Operate/Test Switch

Switch Module Sourcing
Vacuum Fault Interrupter Modules: ABB/Elastimold (e.g., ABB VBM Series), Eaton (e.g., Eaton Cooper Power VFI Series), or G&W (e.g., G&W Viper-ST)

Automation Cabinet
Construction: 304 Stainless Steel, Weatherproof, 3-Point Latching, APU-Standard Padlock Provisions
Mounting: Either Side of Switch Cabinet or Stand-Alone (50-ft Extension Cable Set Available)
Auxiliary Power: 120VAC Input/Output, Door Alarm Switch, Internal Fan and Heater
Battery Backup: Minimum 4 Hours Full Operation
Network Provisions: Space/Power/Wiring for Cisco IE3500-8T3X-A Industrial Ethernet Switch (Customer-Supplied/Installed), Minimum 2 Fiber Optic Entrance/Exit Locations

Grounding
Ground Ring Bus: 250 kcmil Bare Stranded Medium Hard Drawn Copper, Continuous, Around Cabinet Interior Circumference
All Switch Ground Pads, Bolted Panels, and Exposed Metal Parts Bonded to Ground Ring

Construction

Load-Break Parking Stands: Adjacent to Each 200A and 600A Bushing

Lifting Lugs: Appropriately Sized for Assembled Switchgear

High Voltage Bushings: Equipped with Protective Shipping Caps
Nameplates: Manufacturer's Name/Catalog/Serial, Date of Manufacture, Continuous/Load-Break/Momentary Ratings, Fault Interrupting Ratings, Max Voltage, BIL, Total Weight, Three-Line Diagram; Bushing Designation Nameplates; Way Cable Nameplates ("Way #, 200 AMP/12.5 kA" or "Way #, 600 AMP/20 kA")

Ratings & Approvals
Designed in accordance with IEEE/IEC C37.60/62271-111, IEEE C37.74, IEEE C37.75, IEEE 386
Production tested per IEEE C37.60/C37.74 (Circuit Resistance, 60Hz Withstand, Leak, Operating Assurance, Continuity, High Voltage)

Dimensions & Shipping
Overall Dimensions: 102 in W × 48 in D × 60 in H (estimated)
Approximate Weight: 4,000 lbs (estimated)
Shipping Dimensions: TBD
Shipping Weight: TBD

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

Special Features
Independently-Switched 4-Way Configuration, Integrated Automation Cabinet, Remote Operation, Solid-Dielectric Insulation, Copper Ground Ring Bus

Special Orders – Special Requirements

Contact us for special requirements

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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 Larson Electronics MPD-LES-VFI-3P3W-31-15KV-600A-32K-BE-PM-MET-REM-CU-N3R-DF Pad-Mount Solid Dielectric Switchgear is designed for reliable, safe, and convenient medium-voltage power distribution and remote switching at utility and industrial sites. This 4-way, single-sided switchgear features three 600A and one 200A solid-dielectric insulated vacuum fault interrupter ways, housed in a 304 stainless steel pad-mount cabinet with an integrated automation cabinet for remote monitoring and control.

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

The **MPD-LES-VFI-3P3W-31-15KV-600A-32K-BE-PM-MET-REM-CU-N3R-DF** switchgear provides a safe and reliable way for utility operators to switch and isolate medium-voltage circuits at pad-mounted locations. Compatible with 15kV class systems, the switchgear utilizes solid-dielectric insulated, gang-operated vacuum fault interrupters with all terminations operated from the front, and quick-make/quick-break switching independent of handle operating speed.

Way Configuration:
The switchgear consists of three 600A, three-phase, gang-operated ways and one 200A way with single-phase operation. All four ways are independently switched and dead-front constructed for operator safety.

600A Way Ratings:
Each 600A way carries a continuous and load interrupting current of 600A, capacitive switching rated at 10A, an asymmetrical momentary and 3-operation fault close rating of 32kA, and a symmetrical one-second rating of 20kA.

200A Way Ratings:
The 200A way carries a continuous and load interrupting current of 200A, an asymmetrical momentary and 3-operation fault close rating of 20kA, and a symmetrical one-second rating of 12.5kA.

Protection & Relay Configuration:
The switchgear is equipped with an SEL 487 (or shorter lead time equivalent) rack-mounted relay/automation platform. Bushing-type current transformers with an internal shorting scheme and submersible connectors feed the automation cabinet at a 500:1 or 600:1 ratio, and voltage sensors of at least 3P accuracy class are provided on each phase. The automation cabinet includes remote/local selector switches, open/close pushbuttons, CT shorting and potential

test switches, and an operate/test switch for each way.

Switch Module Sourcing:
Vacuum fault interrupter modules are sourced from approved manufacturers, including ABB/Elastimold, Eaton, or G&W.

Automation Cabinet:
A 304 stainless steel, weatherproof automation cabinet is furnished pre-wired and assembled, with provisions to mount on either side of the switch cabinet or stand-alone, and a 50-foot extension cable set available for stand-alone installations. The cabinet includes 120VAC auxiliary input and output, a door alarm switch, internal fan and heater, and battery backup capacity sufficient for a minimum of four hours of full operation.

Grounding:
A ground ring bus consisting of 250 kcmil bare stranded medium hard drawn copper conductor runs continuously around the interior circumference of the pad-mount cabinet. All switch ground pads, bolted cabinet panels, and other exposed metal parts are bonded to this ground ring.

Construction:
Load-break parking stands are installed adjacent to each 200A and 600A bushing. Appropriately sized lifting lugs are provided for the assembled switchgear, and high voltage bushings are equipped with protective shipping caps. Nameplates identify the manufacturer, catalog and serial number, date of manufacture, continuous and load-break ampere ratings, momentary and fault interrupting ratings, maximum voltage rating, BIL rating, total weight, and a three-line diagram. Individual bushing designation nameplates and way cable nameplates indicating amperage and kA rating are provided for each way.

Special Features:
Independently-switched 4-way configuration, integrated automation cabinet, remote operation, solid-dielectric insulation, and a copper ground ring bus.

Ratings & Approvals:
The switchgear is designed in accordance with IEEE/IEC C37.60/62271-111, IEEE C37.74, IEEE C37.75, and IEEE 386, and production tested per IEEE C37.60/C37.74 requirements, including circuit resistance, 60Hz withstand, leak, operating assurance, continuity, and high voltage testing.

Customer Compliance:
The final arrangements, sizes, ratings, settings, configuration, and installation details of this equipment will be established in accordance with detailed engineering review, applicable project documentation, and customer approval prior to 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 applicable drawings.

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