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MPD-LES-ABS-3P3W-22-15KV-600A-14K-FX-PM-BE-FUS-CU-N3R-LF-WSP-M1

Low Profile Enclosed Switchgear, Air Break Switch/Fuse Combination, 3-Ph 3-Wire, 2 Switch/2 Fuse Ways, 15kV, 600A, 14kA, Fixed, Pad-Mounted, Bottom Entry, Fused, Copper, NEMA 3R, Live Front, wFeat, Model 1

Product ID: 339560

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

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-ABS-3P3W-22-15KV-600A-14K-FX-PM-BE-FUS-CU-N3R-LF-WSP-M1 Low Profile Enclosed Switchgear
Unit Type: Air Break Switch/Fuse Combination, Live Front
Configuration: 3-Phase, 3-Wire, 4-Way (2 Switch Ways, 2 Fuse Ways)

Nominal Voltage: 12.47kV, Maximum Design Voltage: 15.5kV

BIL: 95kV

Frequency: 60Hz

Continuous Current (Main Bus & Switches): 600A

Short-Circuit Interrupting Capacity: 14,000A RMS Symmetrical

Short-Time Withstand (1-Second): 14,000A RMS Symmetrical
Peak Withstand Current: 36,400A

Mounting Style: Fixed Type, Pad-Mounted

Cable Entry: Bottom Entry

Enclosure Type: NEMA 3R, Outdoor
Front Type: Live Front
Bus Material: Copper

Switch Ways
Quantity: Two (2), 600A, 3-Pole, Group-Operated
Quick-Make, Quick-Break Mechanism, Independent of Operator Handle Speed
Externally Accessible, Flush-Mounted Manual Operating-Hub Pocket per Way
Stamped/Engraved OPEN and CLOSED Position Indicators
Hinged, Pad-Lockable Pocket Cover with Tamper-Resistant Penta-Head Security Bolt
No Mechanical Key (Kirk Key) Interlocking — Independent Operational Access

Fuse Ways
Quantity: Two (2), 200A, Single-Pole, Hookstick-Operated
Heavy-Duty Fuse Mountings with Integrated Interrupters
Compatible with S&C SM-4Z or SML-20 Power Fuses (or Approved Equivalents), No Specialized Adapters

Made in the USA

Features of Every Assembly
Live Front Construction — Directly Accessible, Visible Gap/Ground Indication
12-Gauge Galvanized Steel Enclosure, ANSI C57.12.28 Tamper-Resistant
Multi-Stage Baked Epoxy/Polyurethane Finish, Munsell 7.0GY3.29/1.5 Olive Green
Air-Insulated Design — No Liquid or Gas Dielectric
SCADA-Ready Provisions (Auxiliary Contacts, Motor Operator Mounts)

Ratings & Approvals
Designed in accordance with ANSI C57.12.28, IEEE C37.74, IEEE C37.60/IEC 62271-111
Wholly manufactured, assembled, and tested in North America
95kV BIL fully coordinated across all internal components

Construction

12-Gauge Galvanized Steel Enclosure Shell, Doors, and Roof
Dual-Purpose Front Barriers, Fiberglass-Reinforced Polyester, Slide-Track Isolation
Impact-Resistant Viewing Windows on All Doors
600A Compartment Terminations: Cycloaliphatic Epoxy or Porcelain Standoff Insulators, 2-Hole NEMA Terminal Pads

Compartment Clearances

Cable Termination Height: Minimum 26" from Enclosure Base to Lowest Terminal Pad Centerline
Optional 12" Base Spacer Available (Termination Height to 38")
Phase-to-Phase Air Clearance: Minimum 6.0"
Phase-to-Ground Air Clearance: Minimum 5.0"
Door-to-Component Clearance: Minimum 8"

Footprint (Automation-Ready Class)

Maximum Enclosure Width: 76"
Maximum Enclosure Depth: 68"
Baseline Enclosure Height: 53"
Universal Foundation Interface — Compatible with Prefabricated Composite/Fiberglass or Cast Concrete Pads
Anchoring Tolerance: ±0.5"

Automation & SCADA Provisions

Factory-Installed Mechanical Linkages, Mounting Brackets, Quick-Disconnect Pins for Future 24VDC Motor Operators
Auxiliary Switch Contacts per Switching Way: Minimum 2 NO / 2 NC, Wired to Internal Terminal Block
Dedicated Low-Voltage Control Compartment: Minimum 12"W × 12"H × 6"D
Minimum 1" Internal Isolated Raceway/Conduit Sleeve, HV Mechanism to LV Control Space

Dimensions & Shipping

Overall Dimensions: Within 76"W × 68"D × 53"H (baseline)

Approximate Weight: TBD

Shipping Dimensions: TBD

Shipping Weight: TBD

Shipping

FOB Destination, Freight Prepaid and Allowed
Bidder retains title/risk/insurance until delivery inspected and signed for at Utility yard
Heavy-duty wooden shipping skids, factory-sealed, forklift/line-truck compatible
Permanent factory-welded/bolted lifting eyes for field rigging

Special Features

Automation-Ready Design (Future Motor Operator Compatible)
Dedicated Folding Operating Handles, One per 600A Switching Way
Touch-Up Paint: (2) Aerosol Cans, Matching Finish, per Unit
Spare Parts Kit: Fuses, Canister Parts, Auxiliary SCADA Pins
Required Safety Signage per Section 6 (Exterior Hazard, Interior Danger, Backfeed Warnings, Phase/Way Markings)

Special Orders – Special Requirements

Contact us for special requirements
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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.

Made in the USA

The Larson Electronics MPD-LES-ABS-3P3W-22-15KV-600A-14K-FX-PM-BE-FUS-CU-N3R-LF-WSP-M1 Low Profile Enclosed Switchgear is designed to provide dependable, automation-ready medium-voltage sectionalizing and overcurrent protection for 15kV class distribution systems. This live-front, air-insulated switchgear combines two 600A

group-operated air break switch ways with two 200A hookstick-operated fuse ways in a single pad-mounted assembly, housed within a NEMA 3R outdoor enclosure.

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

The **MPD-LES-ABS-3P3W-22-15KV-600A-14K-FX-PM-BE-FUS-CU-N3R-LF-WSP-M1** is engineered for manual, three-phase sectionalizing and overcurrent protection on 15kV class systems. Compatible with 12.47kV nominal, 15.5kV maximum design voltage, the switchgear provides 600A continuous current on the main bus and switches, with a 14,000A RMS symmetrical short-circuit interrupting and short-time withstand rating, and a 36,400A peak withstand current.

Switching & Protection:
Two 600A, 3-pole, group-operated air break switch ways provide quick-make, quick-break switching independent of operator handle speed. Two 200A fuse ways, hookstick-operated with integrated interrupters, provide overcurrent protection compatible with standard S&C SM-4Z or SML-20 power fuses without specialized adapters. Each switching way is equipped with an externally accessible, flush-mounted manual operating-hub pocket, isolated from the high-voltage cable compartment, featuring stamped OPEN/CLOSED position indicators and a pad-lockable, tamper-resistant penta-head security cover. No mechanical key interlocking is employed — each compartment permits independent operational access.

Live-Front Construction:
Components are directly accessible and readily visible during operation, allowing operating status to be confirmed through visible gaps and grounds without opening sealed compartments. Dual-purpose front barriers of fiberglass-reinforced polyester guard live components and mechanically isolate the main bus during servicing. Impact-resistant viewing windows are provided on all doors.

Enclosure Design:
The switchgear is housed in a 12-gauge galvanized steel enclosure conforming to ANSI C57.12.28 tamper-resistance standards, finished with a multi-stage baked epoxy/polyurethane coating in Munsell 7.0GY3.29/1.5 Olive Green. The enclosure is air-insulated throughout, with no liquid or gas dielectric medium used in any compartment.

Terminations & Clearances:
600A compartments are equipped with cycloaliphatic epoxy or porcelain standoff insulators with 2-hole NEMA terminal pads. Cable termination height is a minimum of 26 inches from the enclosure base to the lowest terminal pad centerline, with an optional 12-inch base spacer available to increase termination height to 38 inches. Electrical air clearances are maintained at a minimum of 6.0 inches phase-to-phase and 5.0 inches phase-to-ground, with a minimum 8-inch clearance between live components and the fully closed exterior door.

Automation & SCADA Readiness:
All switching mechanisms are factory-equipped with mechanical linkages, mounting brackets, and quick-disconnect pins to permit future field installation of 24VDC motor operators without welding or de-energizing the main bus. Each switching way includes factory-installed auxiliary switch contacts (minimum 2 NO/2 NC) wired to an internal terminal block.

Foundation Compatibility:
The enclosure features a flat, uniform, open-bottom base engineered for direct compatibility with standard prefabricated composite/fiberglass or cast concrete utility pads, with anchoring geometry tolerant of a minimum ±0.5-inch alignment variance.

Special Features:
Each unit includes one dedicated, factory-stowed, heavy-duty folding insulated operating handle per 600A switching way, stored within the pad-lockable operating pocket. Two aerosol cans of matching touch-up paint and a complete spare parts kit (fuses, canister parts, and auxiliary SCADA pins) are furnished with each unit. Required exterior and interior safety signage, phase identification, way numbering, and a permanent schematic diagram plaque are provided per standard utility safety labeling requirements.

Ratings & Approvals:
The switchgear is designed in accordance with ANSI C57.12.28, IEEE C37.74, and IEEE C37.60/IEC 62271-111 standards, wholly manufactured, assembled, and tested in North America. The 95kV BIL rating is fully coordinated across all internal components.

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

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **Single Line Diagram (One-Line Diagram)**(https://www.larsonelectronics.com/images/product/Oneline/339560.PDF)
- **ISO 9001 Certification**(http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF)
- **Business Certificate**(https://www.larsonelectronics.com/images/pdfdocs/w9.PDF)
- **Shipping Time Map**(https://www.larsonelectronics.com/images/product/ShippingTimeMap/ShippingTimeMap.pdf)