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MPD-MODS-SM-3P-4W-69KV-2000A-EF-BM-NC-GO-DEB

Group-Operated Motor Operated Air Break Disconnect Switch, Double End Break, 69kV, 2000A, Polymer Insulators

Product ID: 342507



Image: MPD-MODS-SM-3P-4W-69KV-2000A-EF-BM-NC-GO-DEB

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-MODS-SM-3P-4W-69KV-2000A-EF-BM-NC-GO-DEB Motor Operated Air Break Disconnect Switch

Unit Type: Group-Operated Motor Operated Air Break Disconnect Switch, Double End Break

Made in the USA

Configuration: 3-Phase, 4-Wire
Application: Substation Isolation, Group-Operated Double Side Break Disconnect
Nominal Voltage: 69 kV AC
Rated Voltage: 69 kV
BIL: 350 kV
Frequency: 60 Hz (60-Cycles)
Main Bus Continuous Current: 2000A
Momentary Current Rating: 170 kA Peak
Short-Time Withstand (3 sec): 63 kA RMS
Mounting Style: Structure Mounted
Line-In/Line-Out Connections: NEMA Pad, 4-Hole, 1¾" Spacing, Horizontal Bus
Insulators Per Pole: Polymer
Protection & Monitoring: Arc Horns, Mechanical Position Indicators, Auxiliary Contacts
Additional Controls: Local Push Button (Open/Close), Mechanical Operation Counter, SCADA-Ready Auxiliary Contacts

Features of Every Assembly
Corona-Free Design
Arc Horns Included
Polymer (Composite) Insulators
Low RIV (Radio Influence Voltage) Performance
High-Strength Insulator Construction

Ratings & Approvals
NRTL Listed Service Equipment
NRTL Listed to ANSI/IEEE C37 Standards
Complies with ANSI C37.30
Complies with ANSI C37.32
Complies with ANSI C37.34

Complies with NEMA SG-6

Switch Package
Quantity: One (1) 3-Pole, Single Throw, Group-Operated, Double End Break Switch (structure mounted)
Motor Operated Mechanism, 125 VDC Nominal (90-130 VDC Operating Range), Minimum 20,000 in-lbs Torque

Manual Crank Handle for Emergency Override, with Interlock to Disable Motor During Manual Operation
14 Auxiliary Contacts (7 NO / 7 NC)
Decoupler for Testing and Maintenance
Adjustable Stops (Open/Close)
Anti-Condensation Heater (120/240V AC)

Operating Mechanism
Heavy-Duty Galvanized Steel Linkage System (Interphase Rods, Vertical Shafts, Bearings), Fully Adjustable for Synchronized Multi-Pole Operation
Maintenance-Free, Permanently Lubricated Bearings

Construction
Live Parts: Copper or Aluminum Alloy, Silver-to-Silver Contact Surfaces
Contacts: Silver-Plated, High-Pressure Contact Design with Magnetic Blow-Off Characteristics
Blades: Tubular Aluminum Construction with Counterbalance and Ice-Breaking Capability
Fasteners: Stainless Steel, Corrosion-Resistant
Base: Hot-Dip Galvanized Structural Steel Base
Form Factor: Open Core Substation Configuration (No Enclosure)
Neutral/Grounding: Grounded Structure with 4/0 Copper Flexible Braid
Ambient Temperature: -40°C to +50°C
Wind Rating: 90 MPH
Ice Loading: ¾ inch Radial Ice

Dimensions & Shipping

Overall Dimensions: 16 ft W x 10 ft L x 9 ft H (estimated)

Approximate Weight: 1,500 lbs per set (estimated)

Shipping Dimensions: TBD
Shipping Weight: TBD

Shipping
Shipped via specialized freight/flatbed, typical for structure-mounted substation switchgear
Crated/braced shipment per standard EHV switch handling practices
Final shipping configuration subject to approved design

Special Features
Polymer Insulators, Corrosion-Free Braidless Design, SCADA-Ready Auxiliary Contacts

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 one-line diagram.

Made in the USA

The Larson Electronics MPD-MODS-SM-3P-4W-69KV-2000A-EF-BM-NC-GO-DEB Motor Operated Air Break Disconnect Switch is designed for reliable, safe, and convenient isolation of high-voltage power in utility transmission and substation environments. This structure-mounted, double end break disconnect switch is engineered for outdoor installations and features an open-core design suitable for high-voltage transmission and distribution systems.

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

The disconnect switch provides a safe and dependable method for isolating energized

equipment in transmission and substation applications. The unit features a motor-operated mechanism with manual override capability, configured as a 3-pole, single throw, group-operated system. The switch includes arc horns for controlled switching operations and is built with silver-plated contact surfaces for reliable conductivity and long service life.

Operation: The motor-operated mechanism allows for remote and local operation, delivering high torque for dependable switching under load conditions, including seasonal ice loading. A manual crank handle is included for emergency operation, along with interlocks to prevent simultaneous manual and motor actuation. The system also includes auxiliary contacts, mechanical position indicators, and adjustable stops for precise operation.

Design: This double end break switch features a rugged open-core construction utilizing high-strength polymer insulators. Live parts are constructed from aluminum alloy or copper with silver-plated contact surfaces, while all structural components are fabricated from hot-dip galvanized steel for maximum corrosion resistance. The tubular blade design provides excellent mechanical strength and smooth operation, while maintenance-free bearings and a braidless, corona-free design optimize long-term performance in high-voltage applications.

Standards: This unit is designed and manufactured in compliance with applicable ANSI/IEEE standards for high-voltage air disconnect switches used in utility transmission systems.

Mount: Operators can mount this disconnect switch directly onto substation steel structures. The structure-mounted design supports horizontal bus configurations and is suitable for transmission substations, switching stations, and utility interconnection facilities requiring visible isolation.

Customization: This disconnect switch can be customized to meet specific substation and utility requirements. Example customizations include:

* Alternate motor voltages and control schemes
* Additional auxiliary contacts and SCADA integration
* Custom mounting configurations and hardware
* Extended environmental protection and coatings
* Utility-specific interlocking and control requirements

Applications: This switch is suitable for outdoor substation use and applications including, but not limited to, electrical transmission systems, utility substations, renewable energy interconnections, switching stations, generation facilities, and industrial high-voltage power distribution systems.

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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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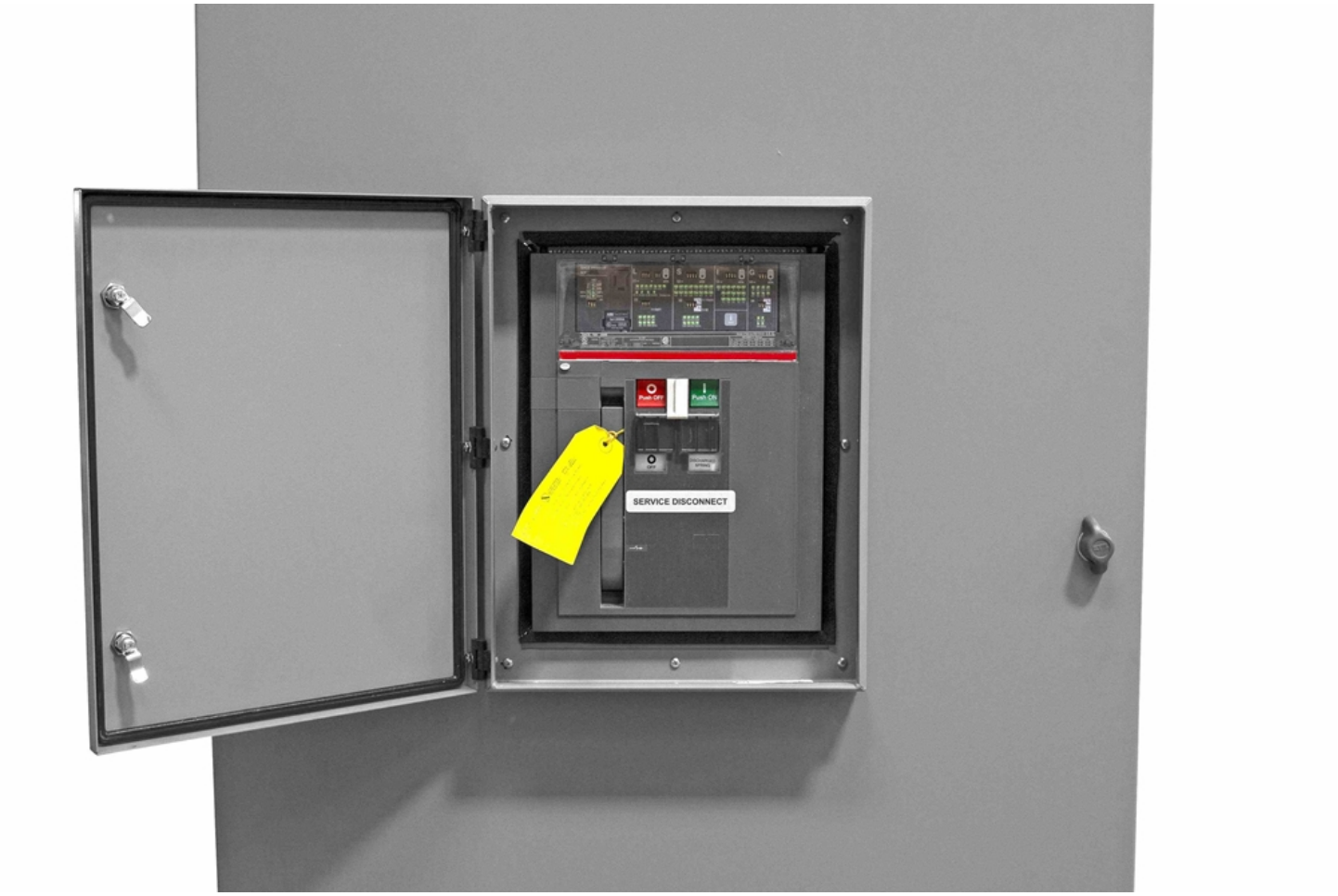

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Frequently Asked Questions (FAQ)

There are no Faqs