Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664

MPD-MODS-SM-3P-4W-362KV-2000A-EF-BM-NC-GO-DEB-M1

Motor Operated Air Break Disconnect Switch, 2000 Amp, 362kV, 3-Pole, Double End Break, Group Operated, Outdoor Substation Rated

Product ID: 338833



Image: MPD-MODS-SM-3P-4W-362KV-2000A-EF-BM-NC-GO-DEB-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-MODS-SM-3P-4W-362KV-2000A-EF-BM-NC-GO-DEB-M1 Motor Operated Air Break Disconnect Switch

Unit Type: Service Entrance Motor Operated Air Break Disconnect Switch, Double End Break
Line-In: N/A (customer provided)
Line-In Cord Cap: N/A (customer provided)
Line-In Connections: NEMA Pad, 4-Hole, 1¾" Spacing
Line-In Orientation: Horizontal Bus Connection
Nominal Voltage: 345 kV AC Delta or Wye
Rated Votage: 362 kV
BIL: 1300 kV
Phase: 3-Phase
Configuration: 3-Pole, Single Throw, Group Operated, Double End Break
Frequency: 60 Hz (60-Cycles)
Insulators Per Pole: 3 (Station Post, suitable for 362kV class)
Protection Method: Arc horns included
Protection Type: Outdoor Air Insulated, Braidless Design
Protection Fuses:
Protection Ampacity: 2000A
Mains Rating (Amps): 2000A
Momentary Current Rating: 170 kA Peak
Short-Time Withstand (3 sec): 63 kA RMS
Disconnect Means: Motor Operated, Group Operated
Motor Voltage: 125 VDC nominal (90–130 VDC operating range)
Motor Torque: Minimum 20,000 in-lbs

Ratings

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
Made in the USA

Features

Corona-free design
Arc horns included
High-strength insulators
Low RIV performance

Includes: Crank handle for manual override, 14 auxiliary contacts (7 NO / 7 NC), Local push button control (Open/Close), Mechanical operation counter, Interlock to disable motor during manual operation, Decoupler for testing and maintenance, Adjustable stops (open/close), Anti-condensation heater (120/240V AC)
Neutral Connection: Grounded structure with 4/0 copper flexible braid
Operating Mechanism: Heavy-duty galvanized steel linkage system including interphase rods, vertical shafts, and bearings; fully adjustable for synchronized operation across all poles
Manual Override: Integrated crank-type manual operation
Orientation: Horizontal Double End Break
Line-Out: N/A (customer provided)
Line-Out Cord Cap: N/A (customer provided)
Line-Out Connection: NEMA Pad, 4-Hole
Line-Out Orientation: Horizontal Bus
Form Factor: Open Core Substation Configuration (No Enclosure)
Live Parts Material: Copper or aluminum alloy, silver-to-silver contact surfaces
Bearings: Maintenance-free, permanently lubricated
Terminal Pads: NEMA standard, 4-hole configuration
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
Mounting Type: Structure Mounted
Mounting Height: Per project substation design requirements
Base: Hot-dip galvanized structural steel base
Ambient Temperature: -40°C to +50°C
Wind Rating: 90 MPH
Ice Loading: ¾ inch radial ice
Enclosure Type: Open Core (No Enclosure)
Dimensions: Custom (based on structure and phase spacing)
Weight: Approximately 6,000-9,000 lbs
Shipping Dimensions: -
Shipping Weight: -
***Note**: Motor-operated double end break switches are designed for EHV transmission and utility substation applications, providing visible isolation, high reliability, and superior electrical performance under severe environmental conditions. The switch features a 1300kV BIL rating and is suitable for 345kV transmission systems.*

Special Orders - Special Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
Fax: 1-903-765-7664
E-mail: sales@larsonelectronics.com

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.

All grounding shall comply with state and local codes and meet the minimum requirements of the National Electronic Code section 250

Made in the USA

The Larson Electronics MPD-MODS-SM-3P-4W-362KV-2000A-EF-BM-NC-GO-DEB-M1 Motor Operated Air Break Disconnect Switch is designed for reliable, safe and convenient isolation of extra-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 operating at up to 362 kV.

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

The MPD-MODS-SM-3P-4W-362KV-2000A-EF-BM-NC-GO-DEB-M1 air disconnect switch

provides a safe and dependable method for isolating energized equipment in transmission and substation applications. Compatible with three-phase 362 kV AC systems, this unit features a motor-operated mechanism with manual override capability. The switch carries a continuous current rating of 2000 amps, with a 63 kA short-time withstand rating (3 seconds) and a peak momentary withstand current rating of 170 kA. Designed as a 3-pole, single throw, group-operated system, the unit 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, with a 125V DC motor (90–130V DC operating range) delivering high torque for dependable switching under load conditions, including ice loading up to ¾ inch. 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 station post insulators rated at 1300 kV BIL. 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 extra-high-voltage applications.

Standards: This unit is designed and manufactured in compliance with applicable ANSI/IEEE standards, including ANSI C37.30, ANSI C37.32, ANSI C37.34, and other relevant requirements 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: The MPD-MODS-SM-3P-4W-362KV-2000A-EF-BM-NC-GO-DEB-M1 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 extra-high-voltage

power distribution systems.

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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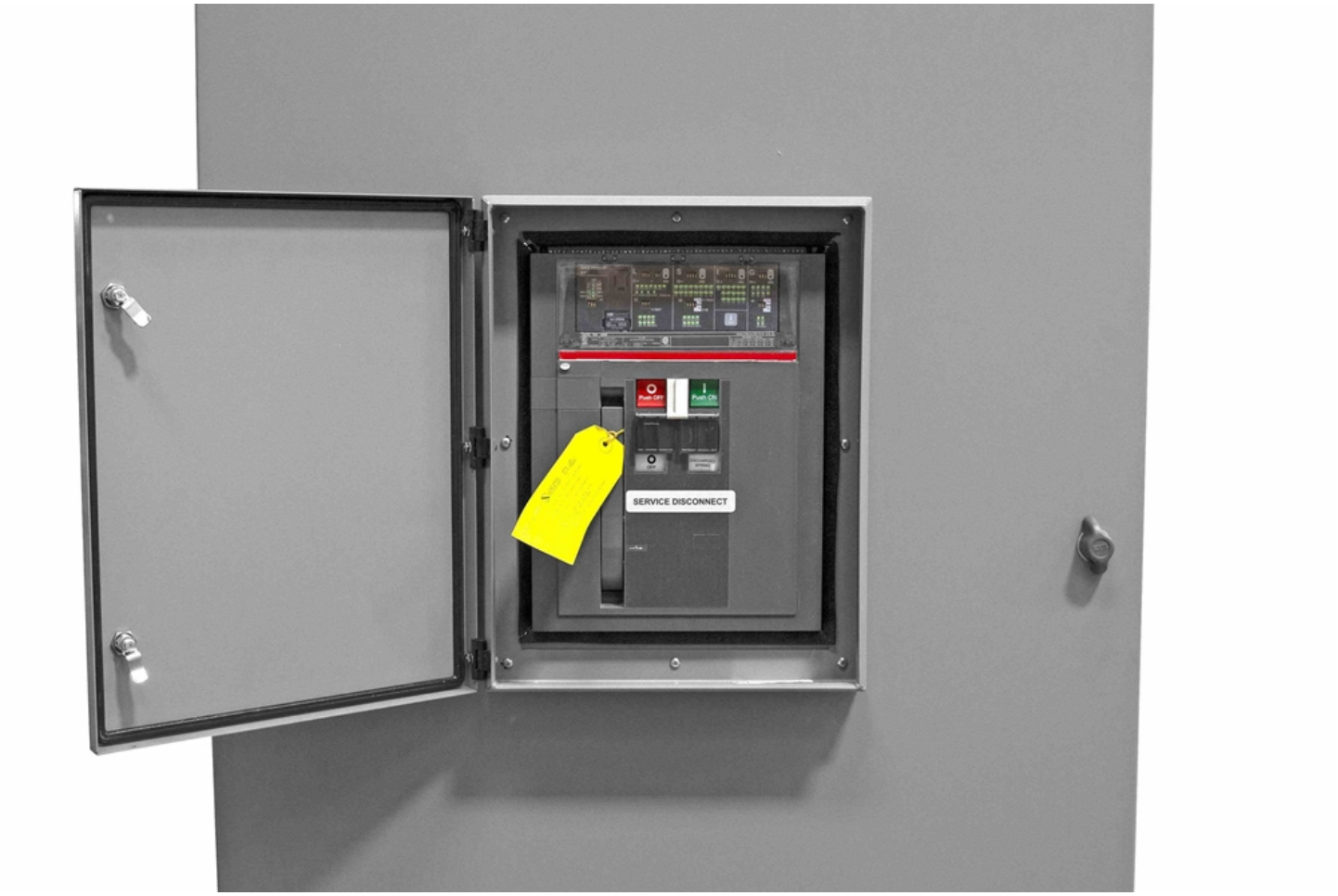

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Frequently Asked Questions (FAQ)

There are no Faqs