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-HM-3P-4W-123KV-3000A-EF-BM-NC-GO-VB-M1

Motor Operated Air Break Disconnect Switch with Grounding Switch, 3000 Amp, 123kV 3PH AC, 3-Pole, Horizontal Mount, Low Bus, Outdoor, Vertical Break, Group Operated

Product ID: 331422



Image: MPD-MODS-HM-3P-4W-123KV-3000A-EF-BM-NC-GO-VB-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-HM-NFDS-3P-4W-123KV-3000A-EF-BM-NC-GO-VB-M1 Motor Operated Air Break Disconnect Switch

Unit Type: Motor-Operated High-Voltage Air Break Disconnect Switch with Integral Grounding Switch, Vertical Break
Line-In: N/A (customer provided)
Line-In Cord Cap: N/A (customer provided)
Line-In Connections: Flat terminal pads, NEMA 4-hole pattern
Line-In Orientation: Low Bus Configuration
Rated Voltage: 123 kV AC
BIL: 550 kV
Phase: 3-Phase
Configuration: 3-Pole, 4-Wire
Frequency: 60 Hz (60-Cycles)
Insulators Per Pole: As required for 123 kV rated, compatible with ANSI station post insulators rated 550 kV BIL
Protection Method:
Protection Type:
Protection Fuses:
Protection Ampacity: 3000A
Mains Rating (Amps): 3000A
Momentary Current Rating: 63 kA
Disconnect Means: Motor Operated, Gang Operated (Three-Phase Simultaneous Operation)
Motor Operating Mechanism: Electric motor operator with manual override, Includes limit switches and auxiliary contacts, Designed for local and remote operation

Ratings

Complies with Entergy SD1501
Complies with IEEE C37.30.1
Complies with IEEE C37.30.2
Complies with NEMA SG-6
Outdoor Use
Made in the USA

Features

Corona-free design
Arc horns included
High-strength insulators
RIV levels must match insulator ratings (open/closed positions)

Switch Type: Vertical Break, Air Break

Bus Arrangement: High Bus

Switching Height / Bus Height: 18 ft Bus Height (per substation layout and approved drawings)
Live Parts Material: Hard-drawn or extruded copper; castings x-ray certified free of porosity or cracks
Neutral Connection: N/A
Line-Out: N/A (customer provided)
Line-Out Cord Cap: N/A (customer provided)
Line-Out Connection: Flat terminal pads, NEMA 4-hole pattern
Line-Out Orientation: High Bus Configuration
Form Factor: Rectangular, Slim-profile Enclosure w/ Lockable Door
Live Parts Material: Hard drawn or extruded (preferred); castings x-ray certified free of porosity/cracks

Bearings: Ball type, heavy-duty, maintenance-free, Factory-lubricated and weather-sealed

Terminal Pads: High-conductivity copper or copper alloy, Flat machined top and bottom, NEMA 4-hole drilling pattern
Contacts: Reverse loop, self-wiping design, Silver-to-silver contact surfaces, Spring-maintained contact pressure, Flexible braids not permitted in current path
Mounting Arrangement: Horizontal Mount on Customer-Supplied Steel Structure

Corona Performance: Corona-free at 110% rated voltage, RIV ≤ 300 microvolts

Ice & Wind Rating: Operable with ¾" radial ice, Rated for hurricane wind velocity up to 150 mph

Grounding: Integral grounding switch provided

Interlocking: Mechanical interlock prevents grounding switch operation unless main disconnect switch is in the OPEN position
Enclosure Material:
Enclosure Finish:
Enclosure Type:
Dimensions:
Weight:
Shipping Dimensions: -
Shipping Weight: -

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-HM-3P-4W-123KV-3000A-EF-BM-NC-GO-VB-M1 Motor Operated Air Break Disconnect Switch with Grounding Switch is designed for reliable, safe, and visible isolation of high-voltage circuits in outdoor transmission and substation applications. This air-insulated disconnect switch is a vertical-break, group-operated device intended for horizontal mounting on customer-supplied steel structures and configured for a low bus arrangement.

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

The MPD-MODS-HM-3P-4W-123KV-3000A-EF-BM-NC-GO-VB-M1 provides a safe and reliable means of isolating equipment in 123 kV transmission systems once the circuit has been de-energized by upstream protective devices. Rated 3000 amps continuous with a 550 kV BIL, this motor-operated air-break disconnect switch is designed for use in outdoor substations and switchyards where a visible open air gap and integral grounding capability are

required for maintenance and safety procedures.

Operation: The disconnect switch features a ground-level, manual, gang-operated mechanism that simultaneously operates all three phases. The vertical-break blade design provides a clear visible indication of the OPEN and CLOSED positions. The operating mechanism is designed for single-person operation and is capable of reliable performance under adverse conditions, including ¾" radial ice accumulation.

Construction Design: The disconnect switch utilizes air-insulated construction with high-conductivity copper current-carrying components and silver-to-silver contact surfaces. The reverse-loop, self-wiping contact design ensures consistent contact pressure and low resistance. The switch is compatible with ANSI station post insulators rated for 123 kV and 550 kV BIL, supplied per project requirements. All structural components are hot-dip galvanized for corrosion resistance in outdoor environments.

Standard Compliance: This high-voltage air break disconnect switch is designed and manufactured in accordance with IEEE C37.30.1, IEEE C37.30.2, and applicable utility substation standards for non-interrupting isolation devices.

Mount: The MPD-MODS-HM-3P-4W-123KV-3000A-EF-BM-NC-GO-VB-M1 is designed for horizontal mounting on customer-supplied steel structures with a nominal 18 ft bus height, per substation layout and approved drawings.

Customization: The MPD-MODS-HM-3P-4W-123KV-3000A-EF-BM-NC-GO-VB-M1 can be customized to meet specific operating and power requirements. Example of customizations include:

• Making the disconnect portable and certified to NRTL UL 1640 for portable equipment

• Adding single-pole camlock connectors for quick connections

• Adding heaters for cold environments

• Aiding alarm relays for trip notification downstream

• Adding power meters

Applications: This disconnect switch is suitable for outdoor transmission substations and switchyards, including line isolation, breaker isolation, transformer isolation, and bus sectionalizing where a non-load-interrupting, visible disconnecting means is required.

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.

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



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



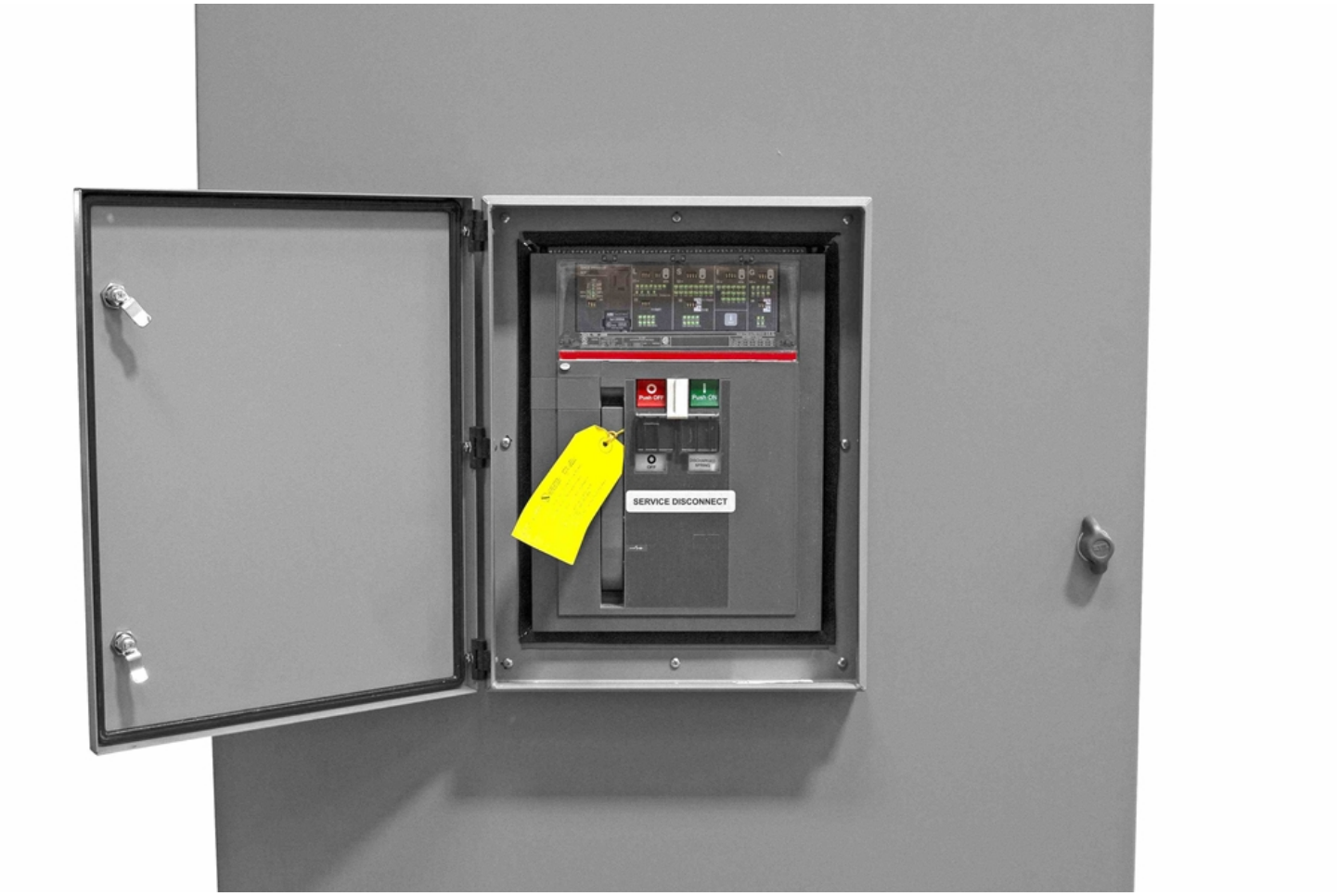
Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

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



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



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

Frequently Asked Questions (FAQ)

There are no Faqs