

MPD-DS-HM-NFDS-3P-123KV-3000A-EF-BM-NC-GO-VB-M1

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

Product ID: 331418

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



Image: MPD-DS-HM-NFDS-3P-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-DS-HM-NFDS-3P-123KV-3000A-EF-BM-NC-GO-VB-M1 Manual Operated Air Break Disconnect Switch

Unit Type: Manual Operated High-Voltage Air Break Disconnect 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, Group Operated

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

Ratings

Complies with Entergy SD1501

Complies with IEEE C37.30.1

Complies with IEEE C37.30.2

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)

Disconnect Means: Manually Operated, Gang Operated

Manual Operating Mechanism: Ground-level manual operating handle with vertical operating pipe, Designed for single-person operation (≤ 35 lbs operating force), Operable under $\frac{3}{4}$ " radial ice accumulation, Padlockable in OPEN and CLOSED positions, Clearly visible blade position indication

Switch Type: Vertical Break, Air Break

Bus Arrangement: Low Bus

Switching Height / Bus Height: 18 ft nominal bus height per project requirement

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: Low 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 $\frac{3}{4}$ " radial ice, Rated for hurricane wind velocity up to 150 mph

Grounding: Maintenance ground studs provided on switch base

Enclosure Material:

Enclosure Finish:

Enclosure Type:

Dimensions:

Weight:

Shipping Dimensions: -

Shipping Weight: -

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.

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-DS-HM-NFDS-3P-123KV-3000A-EF-BM-NC-GO-VB-M1 Manual Operated Air Break Disconnect 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-DS-HM-NFDS-3P-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 manual-operated air-break disconnect is designed for use in outdoor substations and switchyards where a visible open air gap is 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 $\frac{3}{4}$ " 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-DS-HM-NFDS-3P-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-DS-HM-NFDS-3P-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.



Frequently Asked Questions (FAQ)

There are no Fags



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Export Control Classification Number (ECCN): EAR99

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