

MPD-DS-SM-NFDS-3P-123KV-2000A-EF-BM-NC-GO-VB-M1

Manual Operated Air Break Disconnect Switch, 2000 Amp, 123kV 3PH AC, 3-Pole, Outdoor, Vertical Break, Group Operated

Product ID: 337915

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



Image: MPD-DS-SM-NFDS-3P-123KV-2000A-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-SM-NFDS-3P-123KV-2000A-EF-BM-NC-GO-VB-M1 Manual Operated Air Break Disconnect Switch

Ratings

Unit Type: Manual Operated High-Voltage Air Break Disconnect Switch, Vertical Break
Type: S3CVT

Complies with IEC 62271-102

Complies with IEEE C37.30.1

Operation: Manual Lever Operating Mechanism

Complies with IEEE C37.30.2

Operating Action: Rotate/Turn Handle to Open or Close Switch

Outdoor Use

Line-In: N/A (customer provided)

Made in the USA

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: 50/60 Hz

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: 2000A

Mains Rating (Amps): 2000A

Features

Corona-free design

Arc horns included

High-strength insulators

Visible isolation gap for safety

Suitable for substation applications

Designed for high reliability in harsh outdoor environments

Short-Time Withstand Current: 31 kA, 3 Seconds
Peak Withstand Current: 80 kA
Disconnect Means: Manual Gang Operated
Manual Operating Mechanism: Ground-Level Lever Handle with Mechanical Linkage, Padlockable in OPEN and CLOSED Positions, Clearly Visible Blade Position Indication
Switch Type: Vertical Break, Air Break Disconnect Switch
Bus Arrangement: Low Bus Configuration
Switching Height / Bus Height: Customer Specified
Live Parts Material: Hard-Drawn Copper or Copper Alloy
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: Open-Air Structure Mounted (No Enclosure)
Live Parts Material: Hard drawn or extruded (preferred); castings x-ray certified free of porosity/cracks
Bearings: Heavy Duty, Maintenance-Free, Factory Lubricated Bearings
Terminal Pads: Flat NEMA 4-Hole Terminal Pads
Contacts: Silver-to-Silver Self-Wiping Contacts with Spring Maintained Pressure
Mounting Arrangement: Structure Mounted on Customer-Supplied Steel Structure
Corona Performance: Corona-free at 110% rated voltage
Ice & Wind Rating: Operable Under Ice Conditions and High Wind Loading
Grounding: Ground Pads/Studs Provided on Switch Base
Form Factor: Open-Air Structure Mounted (No Enclosure)
Enclosure Material: Open-Air (No Enclosure)
Enclosure Finish:
Enclosure Type: Open-Air (No Enclosure)
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-SM-NFDS-3P-123KV-2000A-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 structure mounting on customer-supplied steel structures and configured for utility-grade outdoor service.

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

The MPD-DS-SM-NFDS-3P-123KV-2000A-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 2000 amps continuous with a 550 kV BIL, this manual-operated, non-fused 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 dependable field operation under harsh outdoor conditions, including wind, contamination, and 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 self-wiping contact design ensures consistent contact pressure and low resistance. The switch is compatible with high-voltage station post insulators rated for 123 kV and 550 kV BIL. All structural steel components are hot-dip galvanized for corrosion resistance in demanding outdoor environments.

Standard Compliance: This high-voltage air break disconnect switch is designed and manufactured in accordance with IEC 62271-102, IEEE C37.30.1, IEEE C37.30.2, and applicable utility substation standards for non-load-interrupting isolation devices.

Mount: The MPD-DS-SM-NFDS-3P-123KV-2000A-EF-BM-NC-GO-VB-M1 is designed for vertical mounting on customer-supplied steel structures with a nominal 18 ft bus height, per substation layout and approved drawings.

Customization: The MPD-DS-SM-NFDS-3P-123KV-2000A-EF-BM-NC-GO-VB-M1 can be customized to meet specific operating and power requirements. Examples of customizations include:

- Adding a grounding (earthing) switch
- Upgrading to polymer or porcelain insulators
- Adding mechanical or electrical interlocks
- Adding position indication switches or auxiliary contacts
- Motor-operated mechanism upgrade
- Special coatings for coastal or high-corrosion environments

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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