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MPD-DS-BM-NFDS-1P-1W-110KV-1000A-EF-BM-NC-GO-HB

Manual Operated Air Break Neutral Disconnect Switch, 1000 Amp, 110kV AC, Single-Pole, Outdoor Rated, Horizontal Break, Single-Pole Operated

Product ID: 332426



Image: MPD-DS-BM-NFDS-1P-1W-110KV-1000A-EF-BM-NC-GO-HB

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-BM-NFDS-1P-1W-110KV-1000A-EF-BM-NC-GO-HB Manual Operated Air Break Neutral Disconnect Switch	Ratings
Unit Type: Outdoor High Voltage Manual Operated Air Break Neutral Disconnect Switch, Horizontal Break	ANSI / IEEE C37.30
Line-In: N/A (customer provided)	ANSI / IEEE C37.32
Line-In Cord Cap: N/A (customer provided)	ANSI / IEEE C37.34
Line-In Connections: Terminal Lugs, Accepts 750MCM-1/0	IEC 62271-102
Line-In Orientation: Top Feed	Made in the USA
Rated Voltage: 110 kV	
Highest System Voltage (Um): 126 kV	
BIL: 550 kV (Typical for 123 kV Class)	
Phase: Single-Pole (Neutral Disconnector)	
Configuration: Single-Pole, Single Conductor	
Frequency: 50 Hz	
Continuous Current Rating: 1000A	
Frequency: 50 Hz	
Short-Time Withstand Current (3 sec): 25 kA (typical, configurable)	
Peak Withstand Current: 63 kA (typical)	
Insulation Material: Porcelain or Polymer (Customer Specified)	
Insulators Per Pole: 2–3 (Substation Type)	
Creepage Distance: Suitable for 110 kV Outdoor Service	
Altitude Rating: < 1000 meters above sea level	
Ambient Temperature Range: -40°C to +40°C	

Seismic Withstand: Minimum MSK-64 Scale 6
Disconnect Means: Manually Operated, Visible Blade
Manual Operating Mechanism:
- Lever or pipe-operated mechanism
- Padlockable in open and closed positions
- Mechanical position indicators (OPEN/CLOSED)
- Designed for operation under light ice conditions

Live Parts Material: Hard-drawn high conductivity aluminum or copper
Contacts:
- Silver-to-silver contact surfaces
- Reverse loop or jaw-type design
- Magnetic blow-on contact pressure
- Wiping contact action

Neutral Grounding: Groundable Neutral Provision (Optional Grounding Blade)
Live Parts Material: Hard drawn or extruded (preferred); castings x-ray certified free of porosity/cracks
Terminal Pads: NEMA 4-hole pattern, tinned copper or aluminum
Bearings: Maintenance-free, permanently lubricated, weather-protected
Mounting: Hot-dip galvanized steel base structure
Door: (1) Left Hinged Door w/ Pad Lockable Handle
Structure Material: Galvanized structural steel
Finish: Corrosion-resistant outdoor finish
Dimensions: 120" L x 24" W x 72" H
Weight: 1,000 lbs
Shipping Dimensions: -
Shipping Weight: -
***Note**: To close the contact, prime the switch first with the lever and then push the button. To open the contact, push the button. It requires a minimum of 600V AC.*

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-BM-NFDS-1P-1W-110KV-1000A-EF-BM-NC-GO-HB Power Distribution Manual Operated Air Break Neutral Disconnect Switch is designed for reliable, safe and visible isolation of transformer neutral connections in high-voltage substations and utility installations. Designed for base-mounted outdoor installations, this single-pole neutral disconnector features a horizontal break visible blade and galvanized steel support structure suitable for 110 kV systems.

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

The MPD-DS-BM-NFDS-1P-1W-110KV-1000A-EF-BM-NC-GO-HB neutral disconnect switch provides a safe and dependable method for isolating transformer neutral grounding systems during maintenance and servicing. Compatible with 110 kV (126 kV maximum system voltage) at 50 Hz, this 1P1W air break switch carries a continuous current rating of 1000 amps. The unit features silver-plated, high-conductivity contacts with wiping action to ensure reliable electrical performance. A visible horizontal break blade confirms open or closed status for operator safety. Optional provisions for a grounding blade are available for enhanced system protection.

Operation: The neutral disconnector features a manual lever or pipe-operated mechanism designed for smooth operation under standard outdoor environmental conditions. The mechanism includes mechanical position indicators and is padlockable in both open and closed positions. The visible blade design ensures positive isolation verification during maintenance procedures.

Structure Design: This high-voltage disconnect switch is mounted on a hot-dip galvanized steel base structure engineered for outdoor substation environments. The insulators are available in porcelain or polymer construction and are rated for outdoor service at altitudes up to 1000 meters above sea level. The assembly is designed to withstand seismic conditions of MSK-64 scale 6 or greater.

Certification: This disconnect switch is designed and manufactured in accordance with ANSI / IEEE C37.30, C37.32 and C37.34 standards for high-voltage air switches.

Mount: Operators can mount the neutral disconnect on a concrete foundation using the integrated galvanized steel base structure.

Customization: The MPD-DS-BM-NFDS-1P-1W-110KV-1000A-EF-BM-NC-GO-HB can be customized to meet specific substation and utility requirements. Examples of customizations include:

• Addition of grounding blade assembly

• Increased BIL ratings (up to 650 kV if required)

• Motor-operated mechanism upgrade

• Special creepage distance for polluted environments

• Stainless steel hardware for corrosive environments

Applications: This switch is suitable for outdoor high-voltage substations and applications including transformer neutral isolation, grounding resistor isolation, utility switching stations, power plants, and transmission facilities.

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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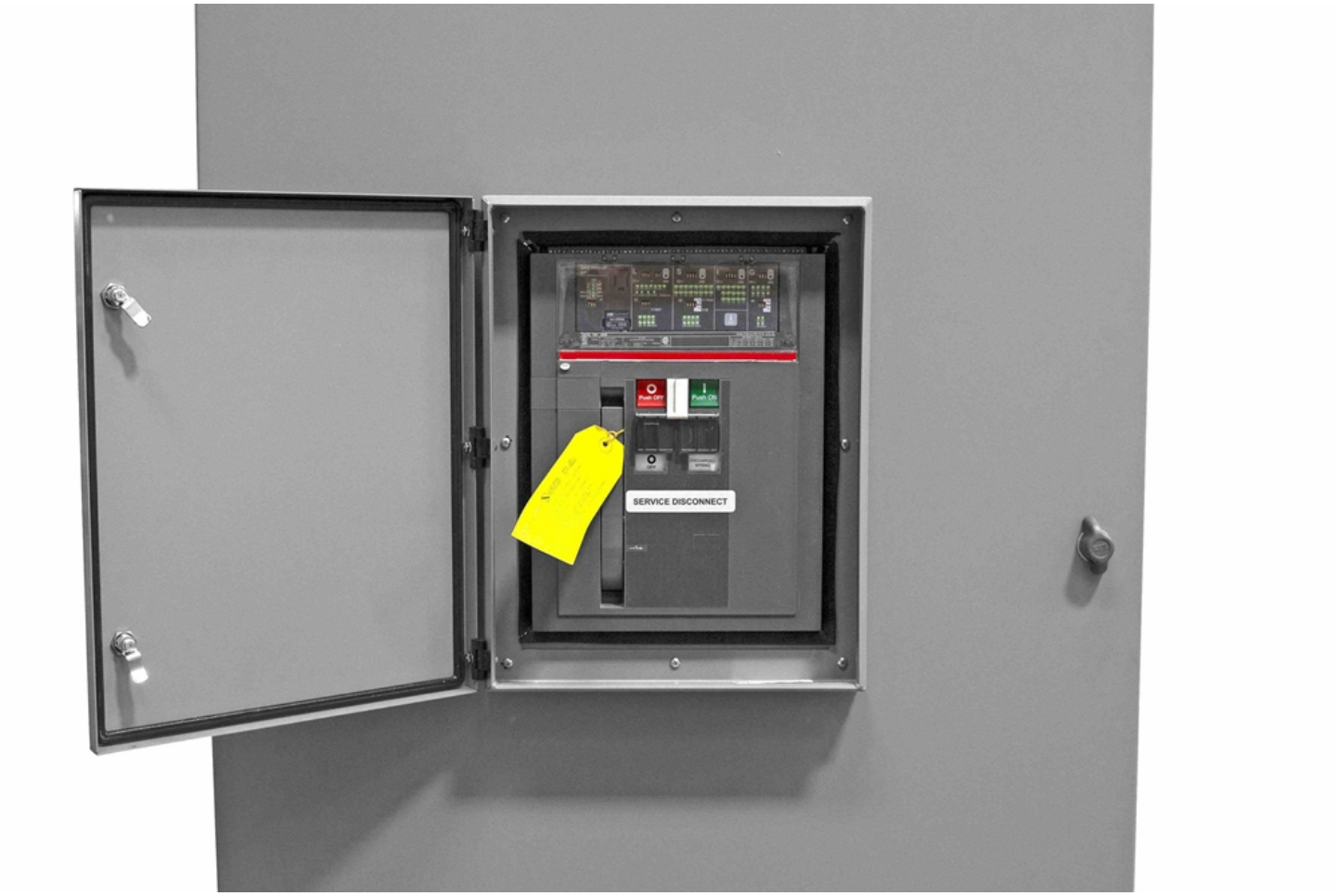
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Frequently Asked Questions (FAQ)

There are no Faqs