

MPD-DS-FS-3P-3W-69KV-3000A-EF-BM-N3R-GO-VB

Manual Operated Air Break Disconnect Switch, 3000 Amp, 69kV 3PH AC, 3-Pole 3-Wire, Horizontally Mounted, NEMA 3R, Vertical Break, Group Operated

Product ID: 328037

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



Image: MPD-DS-FS-3P-3W-69KV-3000A-EF-BM-N3R-GO-VB

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-FS-3P-4W-69KV-3000A-EF-BM-N3R-GO-VB Manual Operated Air Break Disconnect Switch

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

Line-In: N/A (customer provided)

Line-In Cord Cap: N/A (customer provided)

Line-In Connections: (3) NEMA 4-Hole Terminal Pads per Phase, Contact Surface Both Sides

Line-In Orientation: Horizontal Mount

Rated Voltage: 69 kV

BIL: 350 kV

Phase: 3-Phase

Configuration: 3-Pole, 3-Wire

Frequency: 60 Hz (60-Cycles)

Insulators Per Pole: 3

Protection Method:

Protection Type:

Protection Fuses:

Protection Ampacity: 3000A

Mains Rating (Amps): 3000A

Momentary Current Rating: 40 kA Asymmetrical

Ratings

NRTL Listed Service Equipment

NRTL Listed to UL 891 Dead Front Switchboards

NEMA 3R Rated

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

RIV levels must match insulator ratings (open/closed positions)

Disconnect Means: Manually Operated, Gang Operated

Manual Operating Mechanism: Operable under ¾" radial ice without excessive stress, Includes all mechanical components (piping, gears, levers, etc.), Clamp & set screw used on interphase rod, Padlockable in open and closed positions, Indicators: Open: Green background, white text, Closed: Red background, white text, Pipe sizes: o 1½" IPS vertical pipe, 1" IPS minimum interphase pipe, Includes 400 A braided flexible connection to steel structure (vendor supplied)

Neutral Connection: N/A

Line-Out: N/A (customer provided)

Line-Out Cord Cap: N/A (customer provided)

Line-Out Connection: (3) NEMA 4-Hole Terminal Pads per Phase, Contact Surface Both Sides

Line-Out Orientation: Horizontal Mount

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, (maintenance-free, permanently lubricated), Factory-adjusted, Water/dust ingress protected, Outboard bearings small contact area, wear-resistant

Terminal Pads: Ductile, high-conductivity material, machined top and bottom, NEMA 4-hole pattern

Contacts: Reverse loop design for magnetic short-circuit pressure boost, Silver-to-silver contact surface (≥1 mil) plating, Stainless steel coil spring-backed, insulated from current path, Wiping action on hinge/break-jaw; shunts not allowed, Rotary motion stop ensures consistent pressure regardless of operating speed

Mounting Height: Horizontally Mounted

Break Type: Vertical Break

Phase Spacing: 60"

Door: N/A

Enclosure Material: Hot-Dip Galvanized Structural Steel

Enclosure Finish: Outdoor HV Finish

Enclosure Type: NEMA 3R Open-Air Rated

Dimensions: Approx. 120"-L x 80"-W x 110"-H

Weight: 4500 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

Toll Free: 1-800-369-6671

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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-FS-3P-3W-69KV-3000A-EF-BM-N3R-GO-VB Manual Operated Air Break Disconnect Switch is designed for reliable, safe, and convenient high-voltage switching in substation and utility power systems. Engineered for horizontal-mount installations, this open-air disconnect switch features a vertical break design with group-operated linkage for synchronized pole operation. The unit is supported by a NEMA 3R outdoor-rated structural steel assembly and includes nine high-strength station post insulators for stable operation at 69 kV.

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

The MPD-DS-FS-3P-3W-69KV-3000A-EF-BM-N3R-GO-VB high-voltage disconnect switch provides operators a safe and dependable means to isolate circuits and equipment in transmission-class environments. Compatible with three-phase 69 kV AC systems, this manually operated switch carries a 3000-amp continuous rating, 350 kV BIL, and 40 kA asymmetrical momentary rating. Each phase includes three NEMA 4-hole terminal pads with contact surfaces on both sides, ensuring robust conductor connections. The assembly incorporates nine station post insulators, offering superior insulation spacing and mechanical strength for high-voltage applications.

Operation: This vertical break, group-operated switch is controlled through a manually operated handle connected to a synchronized operating mechanism. The system provides clear open and closed visual indication, with provisions for padlocking to enhance safety during maintenance procedures.

Structural Design: The disconnect switch is supported by a hot-dip galvanized steel frame built for permanent outdoor service. A NEMA 3R outdoor rating ensures long-term performance against moisture, rain, and environmental contaminants. The open-air design promotes natural cooling and reliable dielectric performance under high-voltage conditions.

Certification: This high-voltage air-break disconnect switch is built in accordance with ANSI C37.30, ANSI C37.32, and IEEE standards governing high-voltage switches and insulators.

Mount: This disconnect is intended for horizontal mounting on structures or foundations typical of substation installations.

Customization: The MPD-DS-FS-3P-3W-69KV-3000A-EF-BM-N3R-GO-VB 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 high-voltage switching assembly is suitable for use in utility substations, transmission and distribution systems, industrial substations, plant power systems, switchyards, and other environments requiring reliable visible-break isolation.

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 Faqs



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Export Control Classification Number (ECCN): EAR99

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