

MPD-DS-FS-NFDS-3P-4W-5KV-2000A-EF-BM-N3R

Non-Fused Disconnect Switch, 2000 Amp, 5kV 3PH AC, 3-Pole 4-Wire, NEMA 3R

Product ID: 326555



Image: MPD-DS-FS-NFDS-3P-4W-5KV-2000A-EF-BM-N3R

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-NFDS-3P-4W-5KV-2000A-EF-BM-N3R Disconnect Switch - Non-Fused

Disconnect

Unit Type: Medium-Voltage Non-Fused Disconnect / Isolation Switch

Line-In: N/A (customer provided)

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

Line-In Connections: Terminal Lugs, Accepts 750MCM-1/0

Line-In Orientation: Bottom Feed

Nominal Voltage (V): 5 kV AC Class

System Voltage (V): 4.16 kV AC, 3-Phase

Phase (PH): 3-Phase

Frequency (Hz): 60 Hz (60-Cycles)

Protection Method: N/A

Protection Type: N/A

Protection Fuses: N/A

Protection Ampacity: 2000A

Mains Rating (Amps): 2000A

Interrupting Rating: 38 kA RMS Sym. @ 5 kV

Basic Insulation Level (BIL): 60 kV Impulse Withstand

Disconnect Means: Manual handle, mechanically interlocked; solenoid interlock prevents operation unless "no-current" signal (VFD permissive) is received

Neutral Connection: Insulated Groundable Neutral Kit with Bonding Strap

Line-Out: N/A (customer provided)

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

Line-Out Connection: Terminal Lugs, Accepts 750MCM-1/0

Line-Out Orientation: Bottom Feed

Phase Barriers: Included

Ratings

NRTL Listed Service Equipment

NRTL Listed to ANSI/IEEE C37.20.4 – Medium Voltage Switchgear

NEMA 3R Rated for Indoor and Outdoor Use

UL 347 / ANSI C37 series

Made in the USA



Special Options: Solenoid interlock with external "no current" permissive from VFD (N.O. contact input); Kirk key provision; Padlockable handle

Form Factor: Rectangular, Slim-profile Enclosure w/ Lockable Door

Door: Left-hinged, padlockable handle, interlocked with switch mechanism

Enclosure Material: 11GA Sheet Steel

Enclosure Finish: ANSI 49 Grey

Enclosure Type: NEMA 3R Ventilated

Dimensions: 43"-W x 36"-D x 94"-H

Weight: 800 lbs

Shipping Dimensions: 42"-W x 60"-D x 90"-H

Shipping Weight: 2,100 Lbs

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.

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

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-NFDS-3P-4W-5KV-2000A-EF-BM-N3R Power Distribution Disconnect Switch is designed for reliable, safe, and convenient medium-voltage isolation at industrial and utility work sites. This non-fused disconnect switch, rated for 2000 amps at 5 kV class (4.16 kV system), provides a durable means of manually isolating power to motors, VFDs, and switchgear. Designed for floor-mounting installations, the bottom-feed disconnect switch is protected by a NEMA 3R-rated, steel enclosure with a ventilated design for outdoor service.

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

The MPD-DS-FS-NFDS-3P-4W-5KV-2000A-EF-BM-N3R medium-voltage disconnect switch offers a safe and reliable way for operators to isolate electrical circuits in 4.16 kV, 3-phase AC systems. The non-fused configuration provides isolation only—overcurrent protection is handled upstream. A manual operating handle allows safe local operation, while a solenoid-based electrical interlock ensures the door or handle cannot be opened until an external "no-current" signal from an upstream VFD or breaker is received. The switch is equipped with a Kirk key provision, padlockable handle, and phase barrier kit for additional operator safety.

Operation: The dead-front disconnect switch features a padlockable, left-hinged door with a mechanical interlock. The operating handle provides positive manual control of the internal contacts. A solenoid interlock prevents handle or door operation unless the external permissive signal is active, ensuring zero-energy access for maintenance.

Enclosure Design: The disconnect switch is protected by an 11GA sheet steel enclosure with ANSI 49 grey finish. A ventilated design promotes natural cooling and improves performance. The enclosure is NEMA 3R rated for protection against water, moisture and debris. This rating allows the fused disconnect to be used in indoor and outdoor areas.

Certification: Built in accordance with ANSI C37.20.4, ANSI C37.22, IEEE C37.71, and UL 347 standards for medium-voltage switchgear.

Mount: Operators can mount the disconnect on floors or flat concrete surfaces using standard anchor points.

Customization: The MPD-DS-FS-NFDS-3P-4W-5KV-2000A-EF-BM-N3R can be customized to meet specific operating and power requirements. Example of customizations include:

- Adding auxiliary contacts (2 NO / 2 NC) for remote position indication
- Integrating motor-operated mechanism for remote control
- Including grounding switch for maintenance safety
- Providing stainless-steel or powder-coated enclosure options
- Custom control voltages for solenoid interlock (24 VDC, 120 VAC, etc.)

Applications: This switchgear is suitable for medium-voltage power distribution, motor control isolation, VFD bypass systems, plant maintenance, utility substations, and industrial outdoor installations requiring secure electrical isolation at 4.16 kV.

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Frequently Asked Questions (FAQ)

There are no Faqs