

## **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**

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



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

### **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

**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  
**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](mailto: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.

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](mailto:sales@larsonelectronics.com) for more information about our custom options tailored to meet your specific industry needs.



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## Frequently Asked Questions (FAQ)

There are no Faqs



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**Export Control Classification Number (ECCN):** EAR99

Links (Click on the below items to view):

- **Operations Manual**( <https://www.larsonelectronics.com/images/product/Manual/326555.PDF> )
- **HigResPic1**( <https://www.larsonelectronics.com/images/product/HigResPic1/326555.JPG> )
- **HigResPic2**( <https://www.larsonelectronics.com/images/product/HigResPic2/326555.JPG> )
- **HigResPic3**( <https://www.larsonelectronics.com/images/product/HigResPic3/326555.JPG> )
- **HigResPic4**( <https://www.larsonelectronics.com/images/product/HigResPic4/326555.JPG> )
- **HigResPic5**( <https://www.larsonelectronics.com/images/product/HigResPic5/326555.JPG> )
- **HigResPic6**( <https://www.larsonelectronics.com/images/product/HigResPic6/326555.JPG> )
- **HigResPic7**( <https://www.larsonelectronics.com/images/product/HigResPic7/326555.JPG> )
- **HigResPic8**( <https://www.larsonelectronics.com/images/product/HigResPic8/326555.JPG> )
- **HigResPic9**( <https://www.larsonelectronics.com/images/product/HigResPic9/326555.JPG> )
- **HigResPic10**( <https://www.larsonelectronics.com/images/product/HigResPic10/326555.JPG> )
- **Video1**( <https://www.youtube.com/watch?v=KrYyBuAWe8Y> )
- **Video2**( <https://www.youtube.com/watch?v=s1JxqtpYmB0> )
- **ISO 9001 Certification**( <http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF> )
- **Business Certificate**( <https://www.larsonelectronics.com/images/pdfdocs/w9.PDF> )
- **Shipping Time Map**( <https://www.larsonelectronics.com/images/product/ShippingTimeMap/ShippingTimeMap.pdf> )