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## MPD-DS.NGRX-PM-FDS-3P-4W-15KV-200A-EF-BM-N3R-GO-VB

# Fused Disconnect Switch – 200 Amp, 15kV AC, 3-Pole 4-Wire, Pad-Mounted, Gang-Operated, Visible Blade w/ Viewing Window, 95kV BIL, NEMA 3R, W/ 200A Fuses, Aluminum Enclosure, w/ 50A Neutral Grounding Resistor

**Product ID: 338099**

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



Image: MPD-DS.NGRX-PM-FDS-3P-4W-15KV-200A-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.NGRX-PM-FDS-3P-4W-15KV-200A-EF-BM-N3R-GO-VB Disconnect Switch - Fused Disconnect**

**Unit Type:** Pad-Mounted Fused Disconnect Switch, Gang Operated, Visible Break w/ Viewing Window, w/ 50A Neutral Grounding Resistor

**Line-In:** N/A (customer provided)

**Line-In Cord Cap:** N/A (customer provided)
**Line-In Connections:** Terminal Lugs, Accepts 500MCM–1/0 CU/AL
**Line-In Orientation:** Bottom Feed
**Nominal Voltage:** 15 kV Class (for 13.8 kV systems), 3 Phase
**Rated Voltage:** 15.5 kV AC
**BIL:** 95 kV
**No. of Poles:** (3)
**Wiring Configuration:** 4-Wire
**Phase:** 3-Phase
**Mains Rating:** 200A
**Short circuit-current:** 16 kA rms sym., 1 sec *(minimum; configurable up to 25 kA)*
**Rated peak withstand current:** 40 kA peak
**Insulator Type:** Polymer (Light Grey, High-Strength, Lightweight)
**HV Terminal Connection:** NEMA 2-Hole or 4-Hole Pad (AL/CU)

**Ratings**

NRTL Listed Service Equipment

Designed to **IEEE C37.20 / IEEE C37.30 (Medium Voltage Switchgear Standards)**
NEMA 3R Rated for Indoor and Outdoor Use
25 Years Minimum Useful Life

**Made in the USA**

**Grounding Terminal Connection:** NEMA 2-Holes
**Terminal Mechanical Loading:** Designed for cable terminations per IEEE C37.30 requirements
**Key interlock provision:** Included (Optional)
**Grounding rotating devices motorized and manual shafts:** Included, NEMA 2-holes connection
**Protection Method:** Internal Fused Protection
**Protection Type:** Fused
**Protection Fuses:** 200A, 15 kV Class
**Protection Ampacity:** 200A
**Surge Arresters:** (3) Distribution Class MOV
**Arrester Voltage Rating:** 19 kV
**MCOV:** 19 kV
**Disconnect Means:** Manual via External Handle (Quick-Make/Quick-Break)
**Line-Out:** N/A (customer provided)
**Line-Out Cord Cap:** N/A (customer provided)
**Line-Out Connection:** Terminal Lugs, Accepts 500MCM–1/0 CU/AL
**Line-Out Orientation:** Bottom Feed
**Form Factor:** Skid-Mounted / Frame-Mounted Compact Enclosure w/ Lockable Door
**Observation Window:** UV-Resistant, Impact-Resistant Polycarbonate Viewing Window, Rated for 15kV Class Equipment, Providing Safe Visible Blade Verification Without Opening the Enclosure (Dead-Front Design)
**Door:** (1) Front Hinged Door w/ Utility Padlock Provision & Safety Interlock
**Ambient Operating Temperature Range:** -40°C to +50°C
**Elevation (Altitude):** 3300ft (1000 meters) Above Sea Level
**IEEE 693 Seismic Performance Level:** Moderate
**Mounting:** Pad Mount
**Enclosure Material:** Stainless Steel
**Enclosure Finish:** ANSI 61 Grey
**Enclosure Type:** NEMA 3R Ventilated
**Dimensions:** 44"D x 58"W x 98"H
**Weight:** 4,200 Lbs

**Neutral Grounding Resistor Specs:**
**System Voltage:** 13.8 kV
**Rated Voltage:** 8 kV (L-N)
**Voltage BIL:** 95 kV
**Current Rating:** 50 A
**Frequency:** 60 Hz
**Rated Resistance (@ 30°C):** 160Ω
**Rated Time:** 10 Sec.
**Resistor Material:** Stainless Steel Grid
**Temperature Rise:** 760°C
**Temperature Coefficient:** ±350ppm/K
**Installation:** Indoor/Outdoor
**Current Transformer:** Included, 50:5 Ratio, 600V Rated, C10 Accuracy Class
**Terminal:** Porcelain bushing, Line-side terminal to receive an insulated cable, and station ground side terminal. Can be on the top, side or bottom of the enclosure.
**Supports:** Highly quality porcelain insulators and stainless steel frame
**Cooling:** Natural air cooling
**Temperature Range:** -10□ to +40□
**Relative Humidity:** 95-100%
**Altitude:** 3,300ft (1000m) Above sea Level
**Seismic Design:** Meets IEEE 693-2018
**Sound Level:** Meets NEMA ST-20 Standards, IEC 60076
**Mounting:** Freestanding
**Enclosure Rating:** NEMA 12, suitable for indoor/outdoor installation
**Enclosure Material:** Stainless Steel
**Enclosure Finish:** Paint, RAL7035, w/ Shorting Block

**Vibration Management:** Included, Anti-Vibration Frame System, w/ perimeter frame, upper diagonal isolators, lower tension rods and pendulum support and w/ vertical load damper
**Hardware Material:** Galvanized steel
**Cable Entry:** Bottom, w/ Gland Plate
**Enclosure Dimensions*:** 35.43"D x 70.87"W x 66.93"H
**Weight*:** 2,204.62 lbs
**Shipping Dimensions*:** TBD
**Shipping Weight*:** TBD
*These numbers are approximates and are subject to changes
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
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*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.NGRX-PM-FDS-3P-4W-15KV-200A-EF-BM-N3R-GO-VB Power Distribution Disconnect Switch is designed for reliable, safe and convenient medium voltage isolation at industrial facilities and utility interconnection points. This fused, gang-operated visible blade disconnect is designed for pad-mounted installations and is protected by a NEMA 3R rated steel enclosure for indoor and outdoor use.**

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

The MPD-DS.NGRX-PM-FDS-3P-4W-15KV-200A-EF-BM-N3R-GO-VB service entrance disconnect switch provides a safe and dependable means of isolating 15kV class power systems. Rated for 15kV AC with a 95kV BIL and a continuous current rating of 200 amps, this pad-mounted disconnect features a three-pole, four-wire configuration with a manually operated, quick-make/quick-break external handle. The gang-operated visible blade mechanism provides a clear air gap for positive visual confirmation of isolation during maintenance and service operations.

**Operation:** This disconnect switch features a lockable front door with utility padlock provisions on the external operating handle for lock-open and lock-closed positions. The manual handle simultaneously opens and closes all three phases to prevent single phasing. A dead-front barrier enhances operator safety, and removal of the barrier allows full access to the switch assembly for inspection and maintenance.

**Enclosure Design:** The disconnect switch is housed in an 11GA sheet steel enclosure with ANSI 61 grey finish. The NEMA 3R rated design protects internal components from rain, sleet, and environmental contaminants, making the unit suitable for outdoor pad-mounted utility and industrial applications.

**Certification:** This disconnect switch is NRTL listed to UL 891 dead front switchboards and NRTL listed for service equipment.

**Mount:** Operators can mount the service entrance disconnect on the pad.

**Customization:** The MPD-DS.NGRX-PM-FDS-3P-4W-15KV-200A-EF-BM-N3R-GO-VB can be customized to meet specific operating and power requirements. Example of customizations

include:

• Making the fused disconnect portable and certified for portable equipment

• Adding single pad camlock connectors for quick connections

• Adding heaters for cold environments

• Aiding alarm relays for trip notification downstream

• Adding power meters

**Applications:** This disconnect switch is suitable for indoor/outdoor use and applications including, but not limited to, solar equipment, construction sites, plant maintenance, plant turnarounds, hazardous location operations, shows, exhibits, and shipyard operations.

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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# 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):

- **Dimensional Drawing 2D**( https://www.larsonelectronics.com/images/product/DimensionalDrawing/338099.PDF )
- **Electrical Nameplate Diagram**( https://www.larsonelectronics.com/images/product/Nameplate/338099.PDF )
- **STEP File (3D CAD Model)**( https://www.larsonelectronics.com/images/product/Step/338099.ZIP )
- **HigResPic1**( https://www.larsonelectronics.com/images/product/HigResPic1/338099.JPG )
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