Larson Electronics LLC
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Product ID: 342380

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



Image:

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-PM-NFDS-3P-3W-12KV-1200A-DF-BM-N1-FA Non-Fused Disconnect Switch **Made in the USA**
Unit Type: Service Entrance Non-Fused Disconnect Switch

Line-In: N/A (customer provided)
Line-In Connections: TBD
Line-In Orientation: Bottom Feed
Voltage Class: 15kV
System Voltage: 12kV
Current Rating: 1200A
Phase/Wire: Three Phase, Three Wire
Frequency: 60Hz
Operation: Gang Operated, Visible-Break, Load-Break
Short Circuit Withstand: 25kA (1 Sec)
BIL (1.2 × 50µs): 95kV
Line-Out: N/A (customer provided)
Line-Out Connection: TBD
Line-Out Orientation: Bottom Feed
Surge Arresters: Included
Surge Arresters Rated Voltage: 18kV rms
Surge Arresters MCOV Rating: 15.3kV rms

Features of Every Assembly
NRTL Listed Service Equipment
NRTL Listed to UL 98 Dead Front Switchboards
NEMA 1 Rated for Indoor Use
Visible-Break, Load-Break, Gang-Operated Switching
Pad-Lockable Doors
Key-Interlocked with Metering/VT Compartment Door
Surge Arrester Package Included

Metering Provisions
CT/PT Instrumentation: Utility-Supplied (Not Included)
Metering Cabinet: Included, 12kV, NEMA 3R, Lockable, Terminal Blocks and Wiring Provisions for Utility-Furnished CT/PT

CT Terminal Block: Included, Shorting Type, per Utility Metering Standard
VT Terminal Block: Included, Separate from CT Terminal Block, per Utility Metering Standard
Internal Jumper Cabling: Medium-Voltage Rated, Connecting Switch Output to VT Compartment

Interlock
Disconnect Switch Key-Interlocked with Metering/VT Compartment Door

Construction

Phase Poles Securely Affixed to a Base Frame

Termination Pads: 4-Hole NEMA Configuration
External Metal Parts: Hot Dipped Galvanized per ASTM Standards
Support Frame Ground Studs: One per Phase, Line-In and Line-Out Sides (Two Sets Total)
Operating Handles: Padlockable, Standard Height Above Grade
Operating Mechanism Auxiliary Contacts: Included
Operating Rods Material: Hot Dipped Galvanized
Rod Grounding: Grounding Straps for #4/0 AWG Cu
Altitude: 3300ft Above Sea Level
Operating Temperature Range: 0°C to 50°C
Enclosure Material: 11GA Sheet Steel
Enclosure Finish: ANSI 49 Grey
Enclosure Type: NEMA 1
Mount: Pad Mount

Ratings & Approvals
Designed in accordance with ANSI C37.30, C37.32, C37.34
NRTL Listed Service Equipment
NRTL Listed to UL 98 Dead Front Switchboards
All grounding shall comply with applicable state and local codes and NEC Section 250

Dimensions & Shipping
Overall Dimensions: 72 in H × 48 in W × 36 in D (estimated)
Approximate Weight: 1,200 lbs (estimated)
Shipping Dimensions: TBD
Shipping Weight: TBD

Shipping
Shipped on pallet or skid
Crated shipment available upon request
Final shipping configuration subject to approved design

Special Features
Visible-Break/Load-Break Switching, Key-Interlocked Metering Compartment, Dedicated CT/VT Terminal Blocks, Surge Arrester Package, Hot Dipped Galvanized Hardware, Pad-Mounted

Special Orders – Special Requirements

Contact us for special requirements

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Customer Compliance
Final arrangements, sizes, ratings, settings, configuration, and installation details will be finalized during detailed engineering review and customer approval prior to release for manufacture.

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.

Made in the USA

The Larson Electronics MPD-DS-PM-NFDS-3P-3W-12KV-1200A-DF-BM-N1-FA Non-Fused Disconnect Switch is designed for reliable, safe, and convenient power distribution and metering at industrial and utility-interconnected power sites. Rated for 1200A at 12kV system voltage, the unit combines a visible-break, load-break, gang-

operated disconnect switch with metering terminal provisions for a solar net generation output metering (NGOM) application, housed in a pad-mounted NEMA 1 rated steel enclosure.

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

The **MPD-DS-PM-NFDS-3P-3W-12KV-1200A-DF-BM-N1-FA** service entrance disconnect switch provides a safe and reliable way for operators to isolate and de-energize power sources independently of the work area. Compatible with three-phase, three-wire 12kV AC systems, the disconnect switch features a manual gang-operated handle providing visible-break and load-break switching across all three poles.

Operation: The dead front disconnect switch features a locking door providing access to a permanently attached operating handle, used for manually connecting or disconnecting power. The switch mechanism is visible-break and load-break, gang-operated across all three poles, with operating mechanism auxiliary contacts included for status indication.

Metering Provisions: The unit includes a lockable NEMA 1 metering cabinet furnishing terminal blocks and wiring provisions for utility-furnished current and potential transformers. CT/PT instrumentation itself is supplied and installed by the utility, not included with this equipment. A dedicated shorting-type terminal block is provided for CT circuits, and a separate terminal block is provided for VT circuits, each per standard utility metering practice. Internal medium-voltage rated jumper cabling connects the switch output to the VT compartment.

Interlock: The disconnect switch is key-interlocked with the metering/VT compartment door, preventing switch operation while the metering compartment is open.

Surge Protection: Surge arresters are included, rated 18kV rms with a 15.3kV rms MCOV rating.

Construction: The phase poles are securely affixed to a base frame, with termination pads in a 4-hole NEMA configuration. External metal parts are hot dipped galvanized per ASTM standards. Support frame ground studs are provided one per phase on both the line-in and line-out sides of the switch. Operating rods are hot dipped galvanized, with grounding straps for #4/0 AWG copper supplied.

Enclosure Design: The disconnect switch is protected by an 11-gauge sheet steel enclosure with ANSI 49 grey finish. A ventilated design promotes natural cooling and improves performance. The enclosure is NEMA 1 rated, allowing indoor use, and rated for an altitude of 3300ft above sea level and an operating temperature range of 0°C to 50°C.

Certification: This disconnect switch is designed in accordance with ANSI C37.30, C37.32, and C37.34, NRTL listed to UL 98 dead front switchboards, and NRTL listed for service equipment.

Mount: The service entrance disconnect switch is pad mounted.

Dimensions & Shipping: The assembly has estimated overall dimensions of 72 in H × 48 in

W × 36 in D (estimated) and an estimated weight of 1,200 lbs (estimated). Shipping dimensions and shipping weight are TBD, pending final packaging and crating decisions.

Applications: This disconnect switch is suitable for indoor use and applications including, but not limited to, utility interconnection metering, solar generation net metering, power distribution, plant maintenance, and industrial facilities.

Customer Compliance: The final arrangements, sizes, ratings, settings, configuration, and installation details of this equipment will be established in accordance with detailed engineering review, applicable project documentation, and customer approval prior to manufacture.

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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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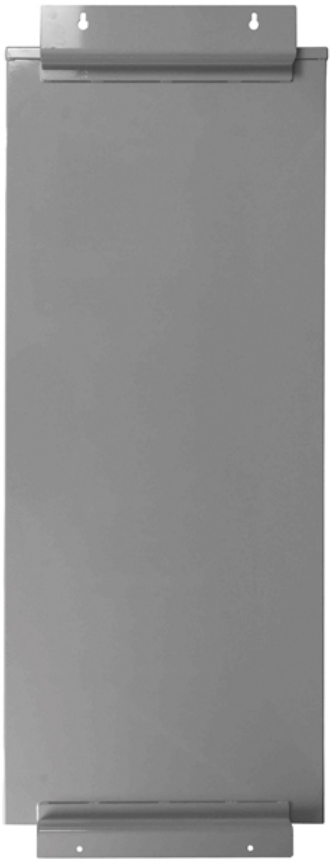


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Export Control Classification Number (ECCN): EAR99

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