Larson Electronics LLC
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MPD-DS-FS-FDS-3P-4W-480V-1200A-EF-BM-N3R-TD

Fused Disconnect Switch, 1200 Amp, 480V 3PH AC, 3-Pole 4-Wire, (3) Class L Time Delay Fuses, NEMA 3R

Product ID: 285249

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



Image: MPD-DS-FS-FDS-3P-4W-480V-1200A-EF-BM-N3R-TD

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-FDS-3P-4W-480V-1200A-EF-BM-N3R-TD Disconnect Switch - Fused Disconnect

Unit Type: Service Entrance Fused Disconnect Switch
Line-In: N/A (customer provided)
Line-In Cord Cap: N/A (customer provided)
Line-In Connections: Terminal Lugs, Accepts 500 to 750MCM-1/0

Line-In Orientation: Bottom Feed

Voltage (V): 480V AC Delta or Wye
Phase (PH): 3-Phase
Frequency (Hz): 60 Hz (60-Cycles)
Protection Method: Fused, Class L Type Fuse
Protection Type: Time Delay Fuse
Protection Fuses: (3) Fuses, Included
Protection Ampacity: 1200A
Mains Rating (Amps): 1200A
Interrupting Rating: 28 kA @ 480V AC
Disconnect Means: Manual via Handle
Neutral Connection: Insulated Groundable Neutral Kit with Bonding Strap
Line-Out: N/A (customer provided)
Line-Out Cord Cap: N/A (customer provided)

Ratings

NRTL Listed Service Equipment
NRTL Listed to UL 891 Dead Front Switch Boards
NEMA 3R Rated for Indoor and Outdoor Use
Made in the USA
Insulated Groundable Neutral Kit with Bonding Strap (For 4-wire service)

Line-Out Connection: Terminal Lugs, Accepts 500 to 750MCM-1/0
Line-Out Orientation: Bottom Feed
Internal Ground Bus: Bare Copper shall be minimum of 2 inches by 1/4 inch, and shall extend throughout the length of the enclosure, with Qty Eight (8) #6 – 250MCM.
Form Factor: Rectangular, Slim-profile Enclosure w/ Lockable Door
Door: (1) Left Hinged Door w/ Pad Lockable Handle
Enclosure Material: 11GA Sheet Steel
Enclosure Finish: ANSI 49 Grey
Enclosure Type: NEMA 3R Ventilated
External Hardware: Stainless Steel
Dimensions: 36"-W x 36"-D x 90"-H
Weight: 800 lbs
Shipping Dimensions: 58"-W x 44"-L x 98"-H
Shipping Weight: 850 lbs
Includes lugs for 6 conductors for 750MCM
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-FDS-3P-4W-480V-1200A-EF-BM-N3R-TD Power Distribution Disconnect Switch is designed for reliable, safe and convenient power distribution at industrial work sites. This fused disconnect includes three 1200-amp 480V rated Class L fuses. Designed for floor mounting installations, the bottom feed disconnect switch is protected by a NEMA 3R rated, steel enclosure with a ventilated design.

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

The MPD-DS-FS-FDS-3P-4W-480V-1200A-EF-BM-N3R-TD service entrance disconnect switch provides a safe and reliable way for operators in industrial settings to tap into and utilize power sources independently of the work area. Compatible with three-phase 480V AC Delta or Wye, the disconnect switch features a manual operating handle. This bottom feed disconnect carries a 28 kA at 480V AC interrupt rating. The switchgear comes with and accepts three 1200-amp 480V rated Class L time delay fuses. An insulated groundable neutral kit with bond strap is included for neutral connections.

Operation: The dead front disconnect switch features a locking door. The door provides access to a permanently attached operating handle, which is used for manually disconnecting or connecting power. A dead front cover protects operators from the fuses for safety. Operators can inspect the fuses through the dead front via a vented cover. Removing the dead front allows access to the fuses.

Time Delay vs. Fast Acting Fuses Two of the most common types of fuses found in power distribution equipment are time delay and fast acting fuses.

> **Time Delay:** Time delay fuses are tripped once overcurrent heat builds up enough to melt the fuse element over a period of time. That period of time varies between different time delay fuses depending on the application. Time delay fuses decrease the chances of false tripping. During startup, many components require a large current for a very short amount of time. In other words, a time delay fuse disconnects the circuit only

when the overcurrent persists in the line.

Fast Acting: Fast acting fuses are tripped immediately upon sensing an overcurrent or short circuit in the line. They are ideal for electronics, components, or systems that cannot withstand sudden changes in current. A fast acting fuse will not withstand a temporary overload such as one that occurs during the startup process.

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: 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 is free stand, full height on floors and flat surfaces.

Customization: The MPD-DS-FS-FDS-3P-4W-480V-1200A-EF-BM-N3R-TD can be customized to meet specific operating and power requirements. Example of customizations include:

• Making the fused 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 down stream

• Adding powering meters

Applications: This switchgear is suitable for indoor/outdoor use and applications including, but not limited to, 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):

- **Operations Manual**(https://www.larsonelectronics.com/images/product/Manual/285249.PDF)
- **Wiring Diagram**(https://www.larsonelectronics.com/images/product/WiringDiagram/285249.PDF)
- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/285249.JPG)
- **HigResPic2**(https://www.larsonelectronics.com/images/product/HigResPic2/285249.JPG)
- **HigResPic3**(https://www.larsonelectronics.com/images/product/HigResPic3/285249.JPG)
- **HigResPic4**(https://www.larsonelectronics.com/images/product/HigResPic4/285249.JPG)
- **HigResPic5**(https://www.larsonelectronics.com/images/product/HigResPic5/285249.JPG)
- **HigResPic6**(https://www.larsonelectronics.com/images/product/HigResPic6/285249.JPG)
- **HigResPic7**(https://www.larsonelectronics.com/images/product/HigResPic7/285249.JPG)
- **HigResPic8**(https://www.larsonelectronics.com/images/product/HigResPic8/285249.JPG)
- **HigResPic9**(https://www.larsonelectronics.com/images/product/HigResPic9/285249.JPG)
- **Video1**(https://www.youtube.com/watch?v=xIv_A7b7jcU)
- **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)