Larson Electronics LLC
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MPD-DS-FS-FDS-3P-3W-480V-4000A-EF-BM-N3R-TD

Fused Disconnect Switch, 4000 Amp, 480V 3PH AC, 3-Pole 3-Wire, Service Rated Bolted Pressure Switch, (3) 4000A Class L Time Delay Fuses, NEMA 3R

Product ID: 337589

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-3W-480V-4000A-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-3W-480V-4000A-EF-BM-N3R-TD Disconnect Switch - Fused Disconnect

Unit Type: Service Rated Bolted Pressure Fused Disconnect 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
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: 4000A
Mains Rating (Amps): 4000A
Control Voltage: 120V AC
Interrupting Rating: 200 kA @ 480V AC
Disconnect Means: Manual Operating Handle
Neutral Connection: 3-Wire Configuration (No Neutral)
Line-Out: N/A (customer provided)
Line-Out Cord Cap: N/A (customer provided)

Ratings

Service Entrance Rated
NRTL Listed to UL 891 Dead Front Switch Boards
NEMA 3R Rated for Indoor and Outdoor Use
Electrical Trip with Charge-Before-Close Mechanism
Pringle Bolted Pressure Contact Switch
Made in the USA

Line-Out Connection: Terminal Lugs, Accepts 750MCM-1/0
Line-Out Orientation: Bottom Feed
Control Power Transformer: Included
Ground Fault Protection: Included
Form Factor: Rectangular Enclosure
Enclosure Material: 11GA Sheet Steel
Enclosure Finish: ANSI 49 Grey
Enclosure Type: NEMA 3R
Dimensions: 40"-W x 32"-H x 22.5"-D
Weight: 430 lbs
Shipping Dimensions: 58"-W x 44"-L x 98"-H
Shipping Weight: 850 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-FDS-3P-3W-480V-4000A-EF-BM-N3R-TD Power Distribution Disconnect Switch is designed for reliable, safe and convenient power isolation and distribution at industrial work sites and utility service entrance applications. This service rated fused disconnect includes three 4000-amp Class L time delay fuses and supports 480V AC three-phase systems. Designed for equipment pad or floor mounting installations, the bottom feed disconnect switch 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-FS-FDS-3P-3W-480V-4000A-EF-BM-N3R-TD service entrance disconnect switch provides a safe and reliable means of isolating high-capacity electrical systems in industrial and commercial facilities. Compatible with 480V AC three-phase, three-wire power systems, the disconnect switch features a manually operated bolted pressure contact mechanism with charge-before-close operation. This bottom feed fused disconnect carries a 200 kA at 480V AC interrupt rating for high fault current applications. The unit utilizes three 4000-amp Class L fuses and includes ground fault protection with an integrated control power transformer.

Operation: The service rated disconnect switch features a lockable enclosure with manual operating handle for safe power isolation. The bolted pressure contact design provides secure electrical connections and dependable switching performance in demanding industrial environments. The dead front construction enhances operator safety during operation and maintenance procedures. Bottom feed line and load connections are provided through terminal lugs inside the enclosure.

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 housed in a heavy-duty steel enclosure with industrial gray finish. The NEMA 3R enclosure is designed for indoor and outdoor use and provides protection against rain, sleet and external ice formation. The enclosure features a stand-alone design suitable for equipment pad or floor mounted installations.

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

Mount: Operators can mount the disconnect switch on equipment pads and flat industrial surfaces.

Customization: The MPD-DS-FS-FDS-3P-3W-480V-4000A-EF-BM-N3R-TD can be customized to meet specific operating and power requirements. Example of customizations include:

• Adding portable skids or caster systems
• Adding camlock connectors for temporary power applications
• Adding power monitoring and metering equipment
• Adding auxiliary contacts and alarm relays
• Adding custom enclosure finishes or stainless steel construction
• Adding surge protection devices

Applications: This fused disconnect switch is suitable for industrial facilities, renewable energy systems, utility service entrances, data centers, manufacturing plants, plant maintenance operations, temporary power systems, and heavy-duty commercial power distribution applications.

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

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