Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

MPD-DS-WML-FDS-3P-4W-480Y.277V-1600A-DF-BM-N3R-FA

Fused Disconnect Switch, 1600 Amp, 480Y/277V 3PH AC, 3-Pole 4-Wire, (3) Class L Fast Acting Fuses, Wall Mount, NEMA 3R, w/ Arc Suppression

Product ID: 311690



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-WML-FDS-3P-4W-480Y.277V-1600A-DF-BM-N3R-FA 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: TBD
Line-In Orientation: Bottom Feed
Voltage Class: 480V AC
Current Rating: 1600
System Voltage: 480V AC
Phase: Three Phase Delta or Wye
Frequency (Hz): 60 Hz
Protection Method: Fused, Class L Type Fuse
Protection Type: Fast Acting Fuse
Protection Fuses: (3) Fuses, Included
Operation: Motor & Manual, Gang Operated, Center Break
Motor Operation Voltage: 120VAC / 125VDC
ARC Suppression: Complete with ARC horns (arc restrictor)
Creepage: 168.5 inches
Short Circuit Withstand: 100 kA (1 Sec)
BIL (1.2 x 50µs): 650kV
Withstand Voltage (1 min, dry): 335kV rms
Withstand Voltage (10 sec, wet): 275kV rms
Line-Out: N/A (customer provided)
Line-Out Cord Cap: N/A (customer provided)
Line-Out Connection: TBD
Line-Out Orientation: Bottom Feed
Construction: Phase poles to be securely affixed to a base of frame
Bearings: Heavy duty stainless steel bearing enclosed in weather proof aluminum

Ratings

NRTL Listed Service Equipment
NRTL Listed to UL 98 Dead Front Switch Boards
NEMA 3R Rated for Indoor/Outdoor Use
ANSI C37.30, C37.32
ANSI C37.34
Made in the USA

alloy housing
Termination Pads: 4 Hole NEMA configuration
ACSR termination Lugs: 477 MCM, BURNDY CAT #NAR36A-4N (for each pad)
Lug Afiixing Hardware : 2"-13NC, Durium Bolts, Washers & Nuts
External Metal Parts: Hot Dipped Galvanized per ASTM standards
Support Frame Ground Lugs: Suitable for #4/0 AWG Cu
Operating Handles: 31.5 inches above grade
Operating mechanism auxiliary contacts: Included
Pad-lockable Doors: Included
Operating Rods Material: Hot Dipped Galvanized
Rod Grounding: Grounding Straps for #4/0 AWG CU to be supplied
Altitude: 3300ft Above Sea Level
Operating Temperature Range: 0°C to 50°C
Environment: Trace amounts of H2S, SO2 , and coke dust
Enclosure Material: 11GA Sheet Steel
Enclosure Finish: ANSI 49 Grey
Enclosure Type: NEMA 3R
Mount: Horizontal, parallel
Dimensions: 68.13"L x 26"W x 16.16"D
Weight: 280 Lbs
Shipping Dimensions: TBD
Shipping Weight: TBD

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: 1-903-498-3364
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 MPD-DS-WML-FDS-3P-4W-480Y.277V-1600A-DF-BM-N3R-FA from Larson Electronics is a Power Distribution Fused Disconnect Switch that is designed for reliable, safe, and convenient power distribution at industrial work sites. Designed for wall mounting installations, the disconnect switch is protected by three 1600A class L fuses and 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-WML-FDS-3P-4W-480Y.277V-1600A-DF-BM-N3R-FA 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 3-pole, 4-wire disconnect carries a 40,000 AIC RMS @ 480V AC interrupt rating and is equipped with a solid neutral.

Operation: The dead front fused 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.

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. This rating allows the non fused disconnect to be used in indoor.

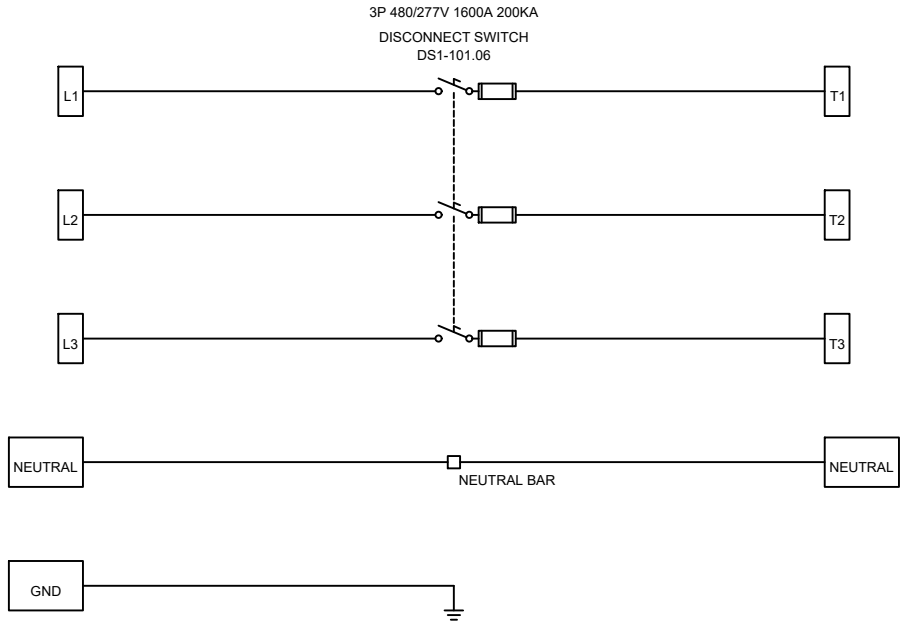
Certification: This disconnect switch is NRTL listed to UL 98 dead front switchboards and NRTL listed for service equipment.

Mount: Operators can mount the service entrance disconnect on walls.
Customization: The MPD-DS-WML-FDS-3P-4W-480Y.277V-1600A-DF-BM-N3R-FA can be customized to meet specific operating and power requirements. Example of customizations include:
• Making the non-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.

REV	DESCRIPTION	DATE
A	PRODUCTION RELEASE	12/26/2024

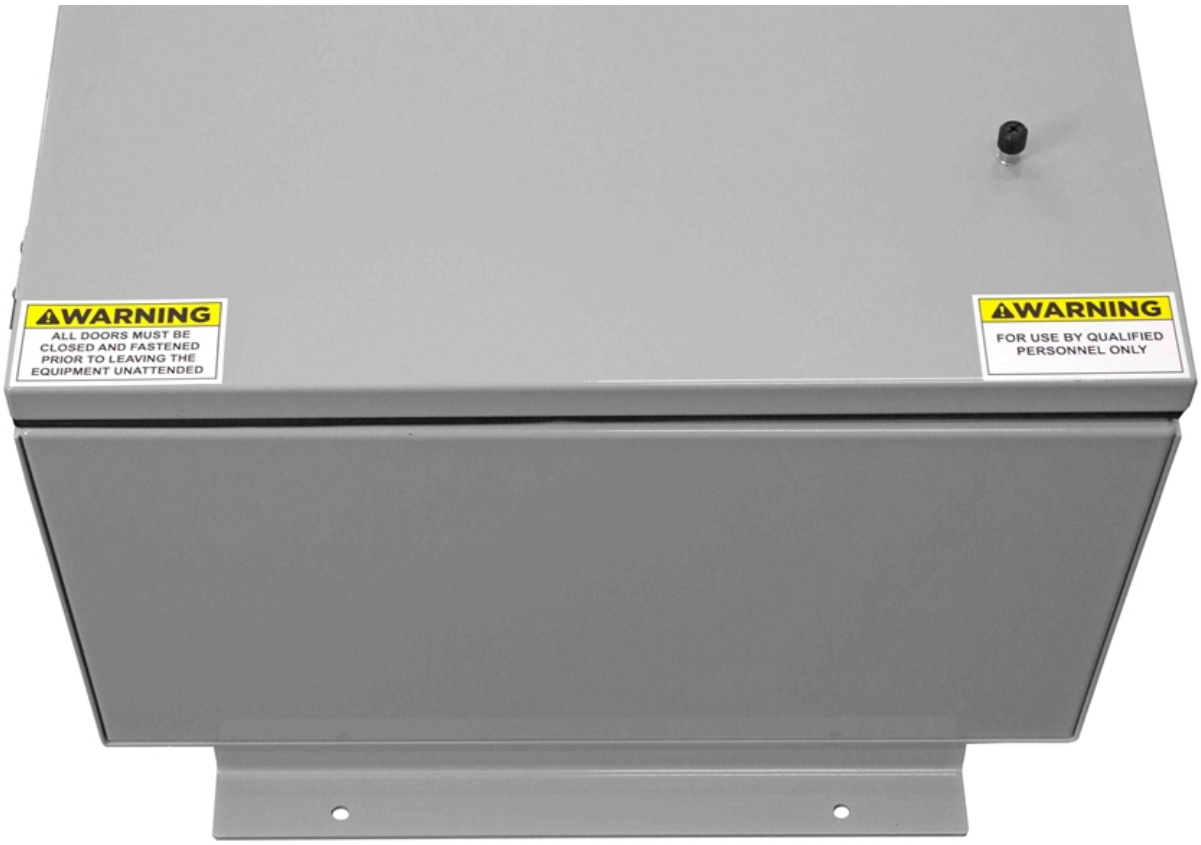
MPD-DS-WML-FDS-3P-4W-480Y.277V-1600A-DF-BM-N3R-FA-M1

LARSON ELECTRONICS®



LARSON ELECTRONICS 9419 E US HWY 175, KEMP, TX 75143	TITLE: MPD-DS-WML-FDS-3P-4W-480Y.277V -1600A-DF-BM-N3R-FA-M1		
	DRAWN BY: S.Desai	DATE: 12/26/2024	REV: A
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WARNING
ALL DOORS MUST BE CLOSED AND FASTENED PRIOR TO LEAVING THE EQUIPMENT UNATTENDED
WARNING
FOR USE BY QUALIFIED PERSONNEL ONLY




LARSON
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NEUTRAL
GROUND POINT
POINT TO COLLAR

Frequently Asked Questions (FAQ)