Larson Electronics LLC
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Product ID: 341879

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-MODS-VM-NFDS-3P-3W-145KV-1200A-DF-VB-GO-N3R Motor Operated Disconnect Switch

Unit Type: Motor Operated Disconnect Switch (MODS), Gang Operated, Vertical Break
Line-In: N/A (customer provided)
Line-In Cord Cap: N/A (customer provided)
Line-In Connections: TBD
Line-In Orientation: Bottom Feed
System Grounding: Effective
Rated Maximum Voltage: 145 kV
Rated Continuous Current: 1200A
Rated Short-Time Current: 44 kA
Rated Withstand Current: 114 kA Peak
Full Wave Withstand: 650 kV Peak
Power Frequency Withstand (1 minute dry): 335 kV rms
Power Frequency Withstand (10 second wet): 275 kV rms
RIV Limit, at 1 MHz: 500 µV
Phase: Three Phase
Frequency (Hz): 60 Hz
Operating Mechanism, Control Voltage: Motor Operated, w/ Manual Operated Capability
Control Voltage: Heater/Lights/GFCI Outlet 120 VAC
Motor Operation Voltage: 125 VDC
Arcing Horns: Included

Ratings

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

Insulators:

Basic Impulse Insulation Level (BIL): 650 BIL

Minimum Leakage Distance: 132 in
Technical Reference: TR-288
Cantilever Strength: 1450 lbs
Housing: Porcelain

Main Switch Configuration:

Type: Vertical Break
Mounting Orientation: Vertical
Mounting Height (centerline of switch): 27'-6" (centerline of switch)
Pole Spacing: 12'-0"
Manual Operator Type: Worm Gear
Motor Operator: Included
Motor Operator Control Voltage: 125 kV

Line-Out: N/A (customer provided)
Line-Out Cord Cap: N/A (customer provided)
Line-Out Connection: TBD
Line-Out Orientation: Bottom Feed
Operating mechanism auxiliary contacts: Included
Heaters: Included, 120 VAC, 1-Phase
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 40°C
ASCE Risk Category: II
Seismic Category: Ss: 0.068, S1: 0.036
Wind Speed Rating: 137 mph
Rainfall, in (NOAA 25 yr-24hr): 10.01
Snow Load: 7.0 lbs/ft2
Ice: 0.77 inch
Contamination: Low
Area Classification: Not Classified
Enclosure Material: 11GA Sheet Steel
Enclosure Finish: ANSI 49 Grey
Enclosure Type: NEMA 3R
Mounting Orientation: Vertical
Dimensions: 93" T x 36.5" W x 41" D
Weight: 1870 lbs (850 kg)
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: 1-903-765-7664
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 MPD-MODS-VM-NFDS-3P-3W-145KV-1200A-DF-VB-GO-N3R from Larson Electronics is a high-voltage Motor Operated Disconnect Switch (MODS) designed to provide safe, visible isolation for transmission-level electrical systems. This 145 kV, 1200-amp, 3-phase, 3-pole vertical-break disconnector is engineered for reliable switching operations in substations, utility facilities, and industrial power distribution yards. The unit is mounted vertically and protected by a NEMA 3R rated enclosure, making it suitable for both indoor and outdoor installations.

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

The MPD-MODS-VM-NFDS-3P-3W-145KV-1200A-DF-VB-GO-N3R MODS features a motor-operated mechanism with manual override, allowing operators to remotely or manually open and close the switch for maintenance isolation, equipment protection, or reconfiguration of high-voltage circuits. Rated for 145 kV system class with a 650 kV BIL, this non-loadbreak disconnector provides visible open-gap isolation and complies with ANSI C37.30, C37.32 and C37.34.

Operation: The motorized operating mechanism is powered by 125 VDC, enabling smooth and controlled switching. A permanently mounted manual handle provides backup operation during power loss. The mechanism enclosure includes heaters, auxiliary contacts, pad-lockable access doors, and a viewing window (if specified). Heavy-duty porcelain insulators and galvanized structural components ensure long-term outdoor durability.

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 and outdoor locations.

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 vertically.

Customization: The MPD-MODS-VM-NFDS-3P-3W-145KV-1200A-DF-VB-GO-N3R 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 downstream

• Adding power meters

Applications: This sdisconnect switch 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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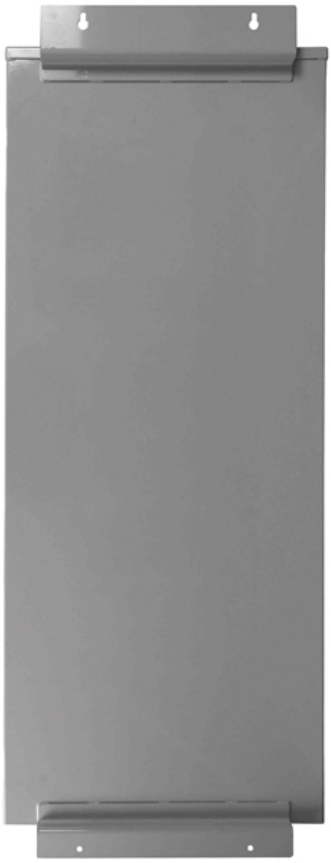


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Export Control Classification Number (ECCN): EAR99

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