

MPD-MT-DS-3P3W-1-38KV-2000A-FX-SM-BUS-NOP-N3-M1

Unit Substation / Distribution Substation, Disconnect Switch, 3-Ph, 3-Wire, Single Unit, 38kV, 2000A, Structure Mounted, No Protection Package, NEMA 3

Product ID: 338958

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



Image: MPD-MT-DS-3P3W-1-38KV-2000A-FX-SM-BUS-NOP-N3-M1

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-MT-DS-3P3W-1-38KV-2000A-FX-SM-BUS-NOP-N3-WOSP-M1 Substation

Disconnect Switch

Unit Type: Unit Substation / Distribution Substation, Disconnect Switch

Configuration: 3-Phase, 3-Wire

Assembly Type: Single Unit

Voltage Class: 38kV Class (34.5kV Nominal System)

Frequency: 60Hz

BIL Rating: Per Manufacturer Standard for 38kV Class Equipment

Continuous Current Rating: 2000A

Mounting Style: Fixed Type

Mounting Configuration: Structure Mounted

Connection Type: Bus Connection

Protection Package: None

Operating Mechanism Enclosure: NEMA 3

Switch Configuration: Vertical Break Disconnect

Structural Material: Hot-Dip Galvanized Steel

Disconnect Switch Package

Three-Pole Air Break Disconnect Switch

Made in the USA

Features of Every Assembly

Suitable for Utility and Substation Applications

Visible Isolation for Maintenance and Safety

Service Rated Construction

Outdoor Utility Duty Design

Suitable for Utility Switching Applications

Ratings & Approvals

Designed in accordance with applicable ANSI, IEEE, NEC, and NEMA standards

Suitable for Outdoor Utility Installations

All grounding shall comply with applicable state and local codes and NEC requirements

Vertical Break Configuration
Group Operated Mechanism
Visible Open Isolation
Single Throw Design
Manual Operating Mechanism
Padlockable Open Position
Padlockable Closed Position
Positive Open and Closed Stops
Interphase Linkage Included

Current Carrying Components

Utility Grade Contact System
Utility Grade Current Carrying Components
High Conductivity Contact Construction
Suitable for 2000A Continuous Service

Mechanical Construction

Hot-Dip Galvanized Steel Base
Hot-Dip Galvanized Steel Linkages
Corrosion Resistant Hardware
Adjustable Operating Linkage
Utility Duty Construction

Insulation System

High Strength Station Post Insulators
Outdoor Air Insulated Construction
Utility Grade Insulation System
Suitable for 38kV Class Applications

Operating Mechanism Enclosure

NEMA 3 Steel Enclosure
Weather Resistant Construction
Lockable Access Door
Operating Handle Assembly
Linkage Adjustment Access
Maintenance Access Provisions

Environmental Construction

Suitable for Outdoor Utility Service
Open-Air Substation Design
Structure Mounted Configuration
Service Entrance Isolation Applications

Special Features

Service Rated Disconnect Switch
Vertical Break Configuration
Visible Isolation
Utility Duty Construction
NEMA 3 Operating Mechanism Enclosure
Structure Mounted Design
Non-Fused Configuration

Special Orders - Special Requirements

Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
E-mail: sales@larsonelectronics.com

Final BIL rating, insulator selection, short-time withstand rating, momentary current rating, operating linkage configuration, mounting arrangement, bus pad configuration, operating mechanism details, and utility-specific requirements shall be determined during detailed engineering review and customer approval.

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 applicable drawings.

Made in the USA

The Larson Electronics **MPD-MT-DS-3P3W-1-38KV-2000A-FX-SM-BUS-NOP-N3-M1** Substation Disconnect Switch provides medium-voltage circuit isolation and switching capability for utility, industrial, and distribution substation applications. This unit consists of a three-pole air break disconnect switch assembly designed for installation on utility structures and substation frameworks. Designed for operation on 38kV class, three-phase, three-wire systems, the assembly is rated 2000A continuous current and incorporates visible air-gap isolation, group-operated manual controls, and a NEMA 3 operating mechanism enclosure to provide reliable outdoor switching and isolation capability.

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

The Larson Electronics **MPD-MT-DS-3P3W-1-38KV-2000A-FX-SM-BUS-NOP-N3-M1** is engineered for utility and substation applications requiring visible circuit isolation, system sectionalizing, and maintenance switching operations. The assembly utilizes a vertical break air disconnect design with group-operated linkage to provide dependable switching performance and clear visual confirmation of switch position. The structure-mounted design allows installation in substations, utility yards, and outdoor power distribution facilities while providing long-term reliability in demanding service environments.

Disconnect Switch Package:

The assembly incorporates a three-pole air break disconnect switch utilizing a vertical break configuration. The switch is designed as a single-throw device and incorporates a group-operated mechanism to simultaneously operate all three phases. Visible open isolation is provided to allow maintenance personnel to verify circuit de-energization. The switch includes padlockable open and closed positions, positive open and closed stops, interphase linkage, and a manual operating mechanism suitable for outdoor utility service.

Current Carrying Components:

The disconnect switch incorporates a utility-grade contact system and current-carrying components designed for continuous 2000A service. High-conductivity contact construction is utilized to provide reliable current transfer and dependable operation in utility and substation environments.

Insulation System:

The assembly utilizes high-strength station post insulators together with an outdoor air-insulated design. The insulation system is suitable for 38kV class applications and provides dependable dielectric performance for utility switching and isolation requirements.

Mechanical Construction:

The disconnect switch assembly incorporates a hot-dip galvanized steel base structure together with galvanized operating linkages and corrosion-resistant hardware. Adjustable linkage provisions are included to facilitate proper installation and operating alignment. The

overall construction is intended for utility-duty outdoor service applications.

Operating Mechanism Enclosure:

The switch operating mechanism is housed within a NEMA 3 steel enclosure suitable for outdoor service. The enclosure incorporates weather-resistant construction, a lockable access door, operating handle assembly, linkage adjustment access, and maintenance access provisions. The enclosure protects operating components from environmental exposure while maintaining accessibility for inspection and servicing.

Electrical Ratings:

The assembly is designed for operation on 38kV class, three-phase, three-wire systems operating at 60Hz. The disconnect switch incorporates a 2000A continuous current rating and is intended for utility switching and visible isolation applications. Final insulation and withstand ratings shall be determined during detailed engineering review and manufacturer selection.

Assembly Construction:

The switch is furnished as a complete structure-mounted disconnect switch assembly incorporating the vertical break disconnect switch, station post insulators, operating mechanism, interphase linkage, operating mechanism enclosure, and associated mounting provisions. The integrated design provides a complete solution for medium-voltage switching and isolation applications.

Environmental Construction:

The assembly is designed for outdoor utility service and open-air substation applications. The structure-mounted configuration is suitable for utility distribution systems, service entrance isolation applications, and other medium-voltage switching requirements.

Construction:

The disconnect switch assembly incorporates outdoor air-insulated construction utilizing galvanized steel structural components, utility-grade insulators, corrosion-resistant hardware, and weather-resistant operating mechanisms. The structure-mounted configuration is designed for installation within substations and utility distribution facilities while maintaining accessibility for operation and maintenance.

Features/Ratings:

This substation disconnect switch assembly is configured as a three-phase, three-wire, single-unit vertical break disconnect switch rated 38kV class and 2000A continuous current. Major features include visible open isolation, group-operated switching, utility-grade current-carrying components, hot-dip galvanized steel construction, station post insulators, NEMA 3 operating mechanism enclosure, bus connection provisions, and structure-mounted installation.

Special Features:

Special features include service-rated disconnect switch construction, vertical break configuration, visible isolation capability, utility-duty design, structure-mounted installation, non-fused configuration, and NEMA 3 operating mechanism enclosure. These features support reliable switching and isolation performance in utility and substation environments.

Ratings & Approvals:

The disconnect switch is designed in accordance with applicable ANSI, IEEE, NEC, and

NEMA standards and is suitable for outdoor utility and substation applications. The operating mechanism enclosure incorporates NEMA 3 environmental protection. All grounding provisions shall comply with applicable state and local codes together with NEC requirements.

Final BIL rating, insulator selection, short-time withstand rating, momentary current rating, operating linkage configuration, mounting arrangement, bus pad configuration, operating mechanism details, and utility-specific requirements shall be determined during detailed engineering review and customer approval. Additional customer-specific requirements and accessory equipment may be incorporated as required by the final approved project documentation.

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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):

- **Single Line Diagram (One-Line Diagram)**(<https://www.larsonelectronics.com/images/product/Online/338958.PDF>)
- **HigResPic1**(<https://www.larsonelectronics.com/images/product/HigResPic1/338958.JPG>)
- **HigResPic2**(<https://www.larsonelectronics.com/images/product/HigResPic2/338958.JPG>)
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