Larson Electronics LLC
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Product ID: 341297

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-CSW-SF6-3P3W-1-38KV-1200A-40K-FX-PED-M1 Circuit Switcher
Unit Type: SF6 Gas-Insulated Outdoor Circuit Breaker

Configuration: 3-Phase, 3-Wire, Outdoor, Dead Tank or Live Tank per Design
Nominal Voltage: 38kV, Rated Maximum Voltage: 38kV Class

BIL: 170kV (standard ANSI C37.06 rating for 38kV class)

Power Frequency Withstand: 80kV (1-minute, per ANSI C37.06)

Continuous Current Rating: 1200A
Short Circuit Rating: 40kA Symmetrical (assumed — not customer-stated)
Rated Momentary/Closing-Latching Current: 104kA Peak (calculated at standard 2.6× symmetrical factor per ANSI C37.06 — not independently confirmed)
Interrupting Time: 3-cycle nominal (standard for this class)

Mounting Style: Fixed Type, Pedestal-Mounted, Outdoor

Bushings: Porcelain
Construction: Oilless
Operating Mechanism: Stored-Energy Type (spring or pneumatic per manufacturer standard design)

Control Cabinet

Weatherproof, Gasket-Sealed Enclosure

Made in the USA

Features of Every Assembly
Weatherproof Outdoor Enclosure
Anti-Condensation Space Heater, Thermostatically Controlled
SF6 Gas Density Monitor / Pressure Gauge, All Three Phases
Low-Pressure Alarm and Lockout Provisions
Surge Arresters, MOV Type, Sized per Voltage Class

Infrared (IR) Viewing Windows / Ports

Local Open/Closed Position Indication
ANSI #70 Light Gray Enclosure Finish (standard outdoor apparatus finish)
Nameplates: Engraved Melamine Plastic per ASTM D709

Ratings & Approvals

Designed and tested in accordance with applicable ANSI/IEEE C37.04, C37.06, and C37.09 standards
Interrupting Medium: SF6 Gas (vacuum construction not applicable)
Mechanism: Mechanically and Electrically Trip-Free

Auxiliary Switches, Operation Counter, Local/Remote Control Provisions

Frame and Non-Current-Carrying Metal Parts Bonded to Ground

(standard industry requirement)
NRTL Listed Outdoor Circuit Breaker Assembly
All grounding shall comply with applicable state and local codes and NEC requirements

Protection & Relay Configuration

Integral Breaker Function: ANSI Device 52 (AC Circuit Breaker)
Protective Relaying: Customer/Utility-Furnished — breaker provides trip coil interface only; relay package outside this scope unless otherwise specified

Dimensions & Shipping

Overall Dimensions: 108 in W × 72 in D × 108 in H (estimated)
Approximate Weight: 3,800 lbs (estimated)
Shipping Dimensions: TBD
Shipping Weight: TBD

Shipping

Shipped on pallet or skid
Crated shipment available upon request
Final shipping configuration subject to approved design

Special Features

No special features specified beyond base breaker configuration

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

Customer Compliance

Final arrangements, sizes, ratings, and construction details will be finalized during detailed engineering review and customer approval prior to release for manufacture.

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-CSW-SF6-3P3W-1-38KV-1200A-40K-FX-PED-M1 Circuit Switcher is designed to provide reliable outdoor circuit interruption and protection for medium voltage substation applications. This assembly consists of an SF6 gas-insulated, three-pole, oilless interrupter with porcelain bushings, a weatherproof control cabinet, and a fixed, pedestal-mounted outdoor construction. Designed for operation on 38kV, three-phase, three-wire systems, the unit is rated for 1200A continuous current with a minimum interrupting rating of 40kAIC, providing a dependable outdoor switching solution for substation service.

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

The **MPD-CSW-SF6-3P3W-1-38KV-1200A-40K-FX-PED-M1** is engineered as an outdoor SF6 gas circuit breaker for substation applications requiring dependable interruption of load and fault current at the 38kV voltage class. The assembly incorporates a stored-energy operating mechanism, oilless SF6 interrupter construction, porcelain bushings, and a weatherproof control cabinet within a fixed, pedestal-mounted outdoor structure suitable for substation installation.

Interrupter Package

The interrupter package incorporates three individual SF6 gas-insulated poles, oilless

construction, rated 1200A continuous current with a minimum interrupting rating of 40kAIC symmetrical. The unit is designed to a rated momentary/closing-latching current consistent with standard ANSI momentary duty factors for this interrupting class, and provides a nominal 3-cycle interrupting time typical of outdoor SF6 breakers of this rating.

Control Cabinet
The control cabinet is a weatherproof, gasket-sealed enclosure housing auxiliary switches, an operation counter, and local/remote control provisions. A thermostatically controlled space heater is included to manage internal condensation, and the frame and non-current-carrying metal parts are bonded to a continuous ground connection.

SF6 Gas Insulation System
The breaker incorporates SF6 gas density monitoring and pressure gauges at all three phases, with low-pressure alarm and lockout provisions to protect against operation below safe insulating levels.

Protection & Relay Configuration
The breaker provides an integral ANSI Device 52 (AC circuit breaker) function with a trip coil interface. Protective relaying is customer/utility-furnished; a dedicated relay package is outside the scope of this offer unless otherwise specified.

Construction
The enclosure and support structure are finished in ANSI #70 light gray, standard for outdoor apparatus of this type. Bushings are porcelain, and construction is oilless throughout. Surge arresters, MOV type, sized per voltage class, and infrared viewing windows are provided for routine thermographic inspection. Nameplates are engraved melamine plastic per ASTM D709.

Special Features
No special features are specified beyond the base breaker configuration described above.

Ratings & Approvals
The circuit switcher is designed and tested in accordance with applicable ANSI/IEEE C37.04, C37.06, and C37.09 standards. The interrupting medium is SF6 gas; vacuum construction is not applicable to this offer. The mechanism is mechanically and electrically trip-free, consistent with standard industry requirements. All grounding provisions shall comply with applicable state and local electrical codes together with NEC requirements.

Customer Compliance
The final arrangements, sizes, ratings, and construction details of this equipment will be established in accordance with detailed engineering review and customer approval prior to manufacture.

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.

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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Links (Click on the below items to view):

- **HigResPic1**(https://www.larsonelectronics.com//images/product/HigResPic1/341297.JPG)
- **Video1**(https://www.youtube.com/watch?v=aOJY5E9e33I)
- **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)