Larson Electronics LLC
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Product ID: 344113

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-DS-WML-CB-3P-4W-480.277V-1600A-65K-DF-BM-4X-SS-ARMS Enclosed Circuit Breaker Disconnect
Unit Type: Enclosed Circuit Breaker w/ Through-Door Rotary Handle

Made in the USA

Voltage: 480/277V AC, Delta or Wye, 3-Phase, 4-Wire, 60Hz
Mains Rating: 1600A, Breaker Frame Size: 1600 AF, 100% Rated

Interrupting Rating: 65 kAIC @ 480/277V AC

Service Entrance Rated

Protection Method: Electronic Trip Unit — Long-Time/Short-Time/Instantaneous/Ground-Fault (LSIG) Functions
Protection Type: LSIG Trip Unit (ships with breaker)
Line-In Connections: Terminal Lugs, Accepts 750MCM–1/0; Bottom Feed
Line-Out Connection: Terminal Lugs; Bottom Feed
Disconnect Means: Manual via Thru-Door Rotary Handle

Features of Every Assembly
Rectangular, Slim-Profile Enclosure w/ Lockable Door
(1) Left-Hinged Door w/ Pad-Lockable Handle & Thru-Door Rotary Handle
Door provides lockout/tagout access to the rotary handle without opening the enclosure

Enclosure Design
Enclosure Material: Stainless Steel
Enclosure Type: NEMA 4X, Outdoor/Washdown-Rated
Mount: Wall Mount
Provides protection against falling dirt, rain, sleet, snow, windblown dust, splashing water, corrosion, hose-directed water, and washdown environments

Ratings & Approvals
NRTL Listed Service Equipment
NRTL Listed Circuit Breaker

Dimensions & Shipping

Shipping

Overall Dimensions: 92"H × 36.5"W × 28.5"D (estimate)
Approximate Weight: 755 lbs (estimate)
Shipping Dimensions: TBD
Shipping Weight: TBD

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

Special Feature — Arc Flash Reduction Maintenance System (ARMS)
Front-accessible maintenance-mode switch on the trip unit; temporarily lowers instantaneous/short-time pickup during maintenance work to reduce arc-flash incident energy exposure to personnel

Special Orders – Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671
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Customer Compliance
Final arrangements, sizes, ratings, settings, configuration, and installation 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 one-line diagram.

Made in the USA

The MPD-DS-WML-CB-3P-4W-480.277V-1600A-65K-DF-BM-4X-SS-ARMS from Larson Electronics is an Enclosed Circuit Breaker Disconnect w/ Through-Door Rotary Handle designed for reliable, safe, and convenient overload and short-circuit protection at industrial and outdoor work sites. Designed for wall-mounting installations, the enclosed circuit breaker is housed in a NEMA 4X rated, stainless steel enclosure suited for harsh, washdown, and corrosive environments.

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

This 1600A, 100%-rated enclosed circuit breaker provides a safe and reliable way for operators to protect against short circuits and overloads. Compatible with three-phase, four-wire 480/277V AC service, the unit features a through-door rotary handle and carries a 65 kAIC interrupting rating at 480/277V AC. The breaker is service-entrance rated and equipped with a Larson-supplied electronic trip unit providing Long-Time, Short-Time, Instantaneous, and Ground-Fault (LSIG) protection functions.

Operation
The enclosed circuit breaker features a locking door that provides access to a permanently attached rotary operating handle, used for manually turning the circuit breaker on or off without opening the door. The thru-door handle allows for lockout/tagout operations.

Arc Flash Reduction Maintenance System (ARMS)
The unit's electronic trip unit is equipped with a front-accessible Arc Flash Reduction Maintenance System. When activated for maintenance work, the ARMS switch temporarily lowers the instantaneous and/or short-time pickup settings on the trip unit, reducing arc-flash incident energy exposure to personnel working on or near the equipment. The system is intended for use only during maintenance activities and is returned to normal protection

settings for regular service.

Enclosure Design
The enclosed circuit breaker disconnect is protected from the elements via a NEMA 4X stainless steel enclosure with a gasketed, hinged, locking door. This enclosure provides protection against falling dirt, rain, sleet, snow, windblown dust, splashing water, hose-directed water, corrosion, and washdown environments, making it suitable for outdoor and harsh industrial locations. This unit is compatible with wall-mounting installations.

Circuit Protection Types
There are several options available when it comes to overload and short circuit protection. Three of the most common types are fused disconnects, enclosed circuit breakers, and non-fused disconnects. A fused disconnect combines a switch to disconnect the circuit and a fuse that shuts the circuit down in the event of a problem such as an overload or short circuit. In the event that the fuse is activated, it must be replaced in order to restore power. A non-fused disconnect lacks the fuses of a fused disconnect, but otherwise operates in the same way.

A circuit breaker combines the function of a switch and overcurrent disconnect into one device. If maintenance, repairs, or inspections need to be done on the circuit or connected equipment, a circuit breaker can be manually turned off. When a short circuit or overload is detected, an electromagnet turns the circuit breaker off automatically. It must then simply be turned back on to restore power once the issue has been corrected. An enclosed circuit breaker provides an extra layer of protection from the elements and other environmental conditions as well as additional safety for personnel. A certified electrician can provide advice on which type of circuit protection is best for any specific circumstance.

Mount
Operators can mount the enclosed circuit breaker on walls.

Customization
The unit can be customized to meet specific operating and power requirements. Examples of customization include:
Making the enclosed circuit breaker portable and certified to NRTL UL 1640 for portable equipment
* Adding single-pole camlock connectors for quick connections
* Adding heaters for cold environments
* Adding alarm relays for trip notification downstream
* Adding power metering

Applications
This enclosed circuit breaker is suitable for indoor/outdoor use in applications including, but not limited to, construction sites, plant maintenance, plant turnarounds, hazardous location operations, shows, exhibits, and shipyard operations.

Customer Compliance
The final arrangements, sizes, ratings, settings, configuration, and installation details of this equipment will be established in accordance with detailed engineering review, applicable project documentation, 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 one-line diagram.

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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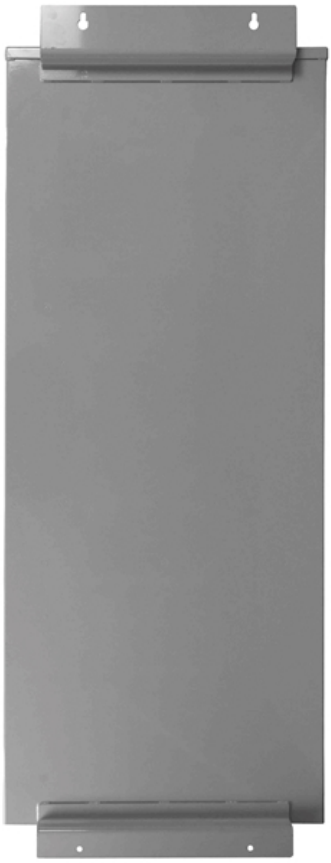


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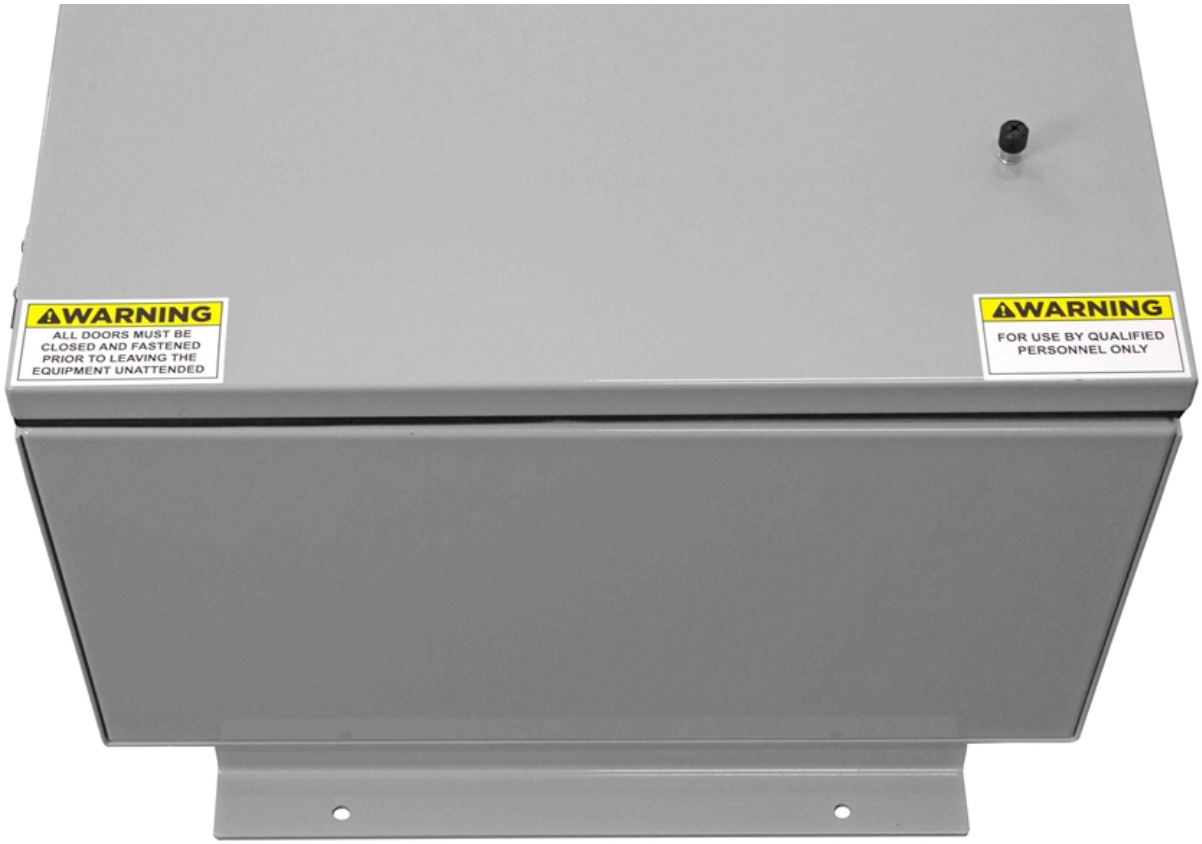


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- **HigResPic5** (https://www.larsonelectronics.com//images/product/HigResPic5/344113.JPG)
- **Video1** (https://www.youtube.com/watch?v=aOJY5E9e33I)
- **ISO 9001 Certification** (http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF)
- **Business Certificate** (https://www.larsonelectronics.com/images/pdfdocs/w9.PDF)
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