Larson Electronics LLC
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Product ID: 342007

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-FM-CB-3P-4W-1.7-415.240V-1000A-35K-LSI-DF-TE-N3R Main + Sub-Breaker Distribution Panel
Unit Type: Enclosed Circuit Breaker Distribution Panel, Main + Multi-Sub-Breaker Assembly with Integrated SPD

Made in the USA

Configuration: 3-Phase, 4-Wire

Voltage: 415/240V AC

Bus Rating: 1000A

Neutral Rating: 1000A

Short Circuit Rating: 35 kAIC

Bus Material: Copper
Minimum Bus Space: 30
Enclosure Type: NEMA 3R
Mount: Floor Mount, Top Entry
Line-In Connections: Terminal Lugs, Mechanical ≥ (3) #4/0-400kcmil
Neutral Terminals: Mechanical ≥ (3) #4/0-400kcmil

Main Breaker
Poles: 3
Rating: 1000A
Trip Unit: LSI (Long-Time, Short-Time, Instantaneous)
Device Type: Main Breaker, Top Cable Entry

Features of Every Assembly
Fully Assembled — Breakers, Neutral, and Ground Bar Kits Installed Within Enclosure
Through-Door Rotary Handle, Each Breaker
Externally-Visible LED Indicator Lamps for System Functionality
Enclosure Inaccessible to Unqualified Persons (Lockable Door)
Direct Connections: L-N, L-G, L-L, N-G

Ratings & Approvals
NRTL Listed Service Equipment
NRTL Listed Circuit Breaker
UL 1449 Compliant
NEMA 3R Rated for Indoor and Outdoor Use

Sub-Breakers
(3) 100A Sub-Breakers, 3-Pole Each
(3) 200A Sub-Breakers, 3-Pole Each
(1) 20A Sub-Breaker, 3-Pole

Integrated Surge Protection Device (SPD)
Minimum SPD Rating: 100kA
UL 1449 Compliant
Nominal Discharge Current Test: 15 Impulses, UL 8/20µs, 20kA
Electric Noise Attenuation: 35dB
Surge Event Counter Included
4-20 mA Signal Provision Included

Dimensions & Shipping
Overall Dimensions: 72"H × 48"W × 30"D (estimated)
Approximate Weight: 950 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 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, 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 applicable drawings.

Made in the USA

The MPD-DS-FM-CB-3P-4W-1.7-415.240V-1000A-35K-LSI-DF-TE-N3R from Larson Electronics is a Main + Sub-Breaker Distribution Panel with Integrated Surge Protection Device, designed for reliable, safe, and convenient overload and short circuit protection at industrial work sites. Designed for floor-mounted installations with top cable entry, the panel is protected by a NEMA 3R rated steel enclosure and is fully assembled, with breakers, neutral, ground bar kits, and the integrated SPD installed within the enclosure.

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

The **MPD-DS-FM-CB-3P-4W-1.7-415.240V-1000A-35K-LSI-DF-TE-N3R** provides a safe and reliable way for operators in industrial settings to utilize protection against short circuits and overloads. Compatible with 415/240V AC, 3-phase, 4-wire service, this panel combines a 1000A Main Breaker with seven sub-breakers — three 100A, three 200A, and one 20A, each 3-pole — providing a total of eight overcurrent protective devices within a single assembly. This assembly carries a 35 kAIC interrupting rating and features a copper bus system with a minimum of 30 bus spaces and mechanical terminals sized for (3) #4/0-400kcmil conductors

on both main and neutral connections.

Main Breaker
A 3-pole, 1000A Main Breaker with LSI trip unit and top cable entry serves as the primary service disconnect for the assembly.

Sub-Breakers
The panel includes three 100A, three 200A, and one 20A sub-breaker, each 3-pole, providing branch-level overcurrent protection downstream of the main.

Integrated Surge Protection Device
The panel incorporates a built-in surge protection device rated a minimum of 100kA, UL 1449 compliant. The SPD is tested to a nominal discharge current of 15 impulses at UL 8/20µs, 20kA, and provides electric noise attenuation of 35dB. A surge event counter records instances of surge activity, and a 4-20 mA signal provision is included for remote monitoring integration.

Operation
The panel features lockable doors providing access to permanently attached through-door rotary handles for each breaker, allowing manual on/off operation without opening the door and supporting lockout/tagout procedures. Externally-visible LED indicator lamps display system functionality at a glance.

Enclosure Design
The panel is protected by a steel enclosure with a NEMA 3R rating, providing protection against rain and outdoor environmental exposure for indoor or outdoor use. The enclosure is designed to remain inaccessible to unqualified persons.

Certification
This panel is NRTL listed for service equipment, NRTL listed as a circuit breaker enclosure, and UL 1449 compliant.

Connections
Direct connections are provided for L-N, L-G, L-L, and N-G configurations.

Mount
Operators can mount the panel on the floor, with top cable entry.

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.

Customization
The **MPD-DS-FM-CB-3P-4W-1.7-415.240V-1000A-35K-LSI-DF-TE-N3R** can be customized to meet specific operating and power requirements. Examples of customizations 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 meters

Special Features
Main + Multi-Sub-Breaker Assembly (8 Total Devices), Integrated Surge Protection Device, LSI Trip Unit (Main), UL 1449 Compliant, NEMA 3R Rated Enclosure, Copper Bus System

Ratings & Approvals
NRTL Listed Service Equipment, NRTL Listed Circuit Breaker, UL 1449 Compliant, NEMA 3R Rated for Indoor and Outdoor Use

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.

Applications: Suitable for indoor/outdoor use, including 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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Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **HigResPic1**(https://www.larsonelectronics.com//images/product/HigResPic1/342007.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)