Larson Electronics LLC
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MPD-MDS-CB-440V-3P-3200A-N3R-M1

3200A Sub-Switchboard w/ 3200A Withdrawable Air Circuit Breaker – 440V AC, 3PH 4W, 50Hz – Outdoor Weatherproof, HDG Steel Enclosure

Product ID: 331203

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



Image: MPD-MDS-CB-440V-3P-3200A-N3R-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-MDS-CB-440V-3P-3200A-N3R-M1 Industrial Switchboard

Unit Type: Industrial Low Voltage Sub-Switchboard with Main Air Circuit Breaker
Bus Max Amp Rating: 3200 Amps
Input: Bottom Entry, Cable Termination
Fuses: N/A
Receptacles: N/A
Bus Voltage Rating: 440V AC, 3-Phase, 4-Wire, 50Hz
Wiring Configuration: 4-Wire
Poles: 4-Poles
Bus Max Available Fault Current (RMS): 100 kA @ 440V AC (Main Incomer)
Incomer Main Circuit Breaker Rating: 3200A / 3200AF Withdrawable Air Circuit Breaker, EKIP LI Trip Unit, LOTO Facilities, Door Safety Interlock, Safety Shutters
Incomer Current Transformer: Included, Class 1 (Metering), Class 10P5 (Protection) Maker: SES
Main Breaker Type: Withdrawable ACB
Earth Fault & Overcurrent Protection: Provided via Dedicated Protection Relay
Protection Relay: ABB REJ 601 – Earth Fault & Overcurrent
Control & Protection MCBs: 6 Amp, 10 kA Rated, Maker: Hager
Power / Energy Meter: Digital Power Meter (V, A, kW, kWh) – PM8240 Equivalent
kWh Meter: Electromechanical Rotating Disc Type, 50Hz
Incoming Voltage Indication: Panel Mounted Voltmeter, 0–600V AC

Ratings/Features

Outdoor Type, Weatherproof

Outgoing Indication: LED Indicator Lamps
Outgoing(s):
- (3) × 800A, 4-Pole MCCB
70kA @ 440V AC, Handle Operated, LOTO Facilities
- (2) × 630A, 4-Pole MCCB
70kA @ 440V AC, Handle Operated, LOTO Facilities
- (1) × 250A, 4-Pole MCCB
Handle Operated, LOTO Facilities
Outgoing Arrangement: Form 3B Internal Segregation, Extended Copper Bars for Outgoing Cable Termination
Protection: Long Time and Instantaneous via ACB Trip Unit; Earth Fault & Overcurrent via ABB REJ 601 Relay
Display: N/A
Control & Protection MCBs: 6A, 10kA Rated
Aux Contacts: Provided (as required for protection, metering, and indication)
Ground Bus: Copper Ground Bus Provided
Terminal Blocks: Included
Panel Exhaust Fans: Included – 4 Sets, 204 × 204 mm Fan with Filter Unit, Thermostatically Controlled, Installed at Top, Left, and Right Ends
Contact Wear Indication: Visual
Ground Bus: Copper Ground Bus Provided, Bonded to Enclosure Frame
Ground Lug: Provided
Bus Material: Copper
Bus Rating: 3200A Continuous
Busbar Configuration: 1 Set – 3200A Copper Busbar System for Bottom Entry Cables
Internal Wiring Scope: Complete factory wiring of all MCCBs, control & protection MCBs, CTs, protection relay, meters, indication lamps, panel exhaust fans, and busbars
Enclosure Material: Hot-Dip Galvanized (HDG) Steel, 3.0 mm Thickness
Finish: Powder Coated
Connection Type: Cable
Phase Wire Range: TBD
Enclosure Type/Rating: Outdoor Type, Weatherproof
Enclosure Paint Color: Grey
Lifting Arrangement: Lifting Eyes Provided, Bracket with 2" Iron Bar Connected to Main Frame, Minimum Lifting Eye ID: 50 mm
Mounting Type: Floor Mounted
Entry Point: Bottom Cable Entry
Connection Type: Cable Termination
Dimensions: 31"W x 79"H x 28"D
Weight: 1,763.7 Lbs
Warranty: 1 Year – Components and Workmanship
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
Intl: 1-903-270-1187
Toll Free: 1-800-369-6671
Fax: 1-903-765-7664
E-mail: sales@larsonelectronics.com

The MPD-MDS-CB-440V-3P-3200A-N3R-M1 from Larson Electronics is an Industrial Low Voltage Sub-Switchboard with Main Air Circuit Breaker for power distribution systems. This 3,200-amp rated power distribution unit is compatible with three-phase 440V AC, 4-wire, 50Hz systems. Designed for outdoor installations, the switchboard is housed in a heavy-duty hot-dip galvanized steel enclosure with a powder-coated grey finish and weatherproof construction.

The MPD-MDS-CB-440V-3P-3200A-N3R-M1 is designed for reliable power distribution in industrial

facilities. This four-wire unit operates at 440V AC, three-phase, 50Hz and features a 3200-amp copper busbar system. The switchboard is equipped with a 3200A withdrawable air circuit breaker with EKIP LI trip unit, safety shutters, door safety interlock, and lock-out/tag-out facilities. The main incomer is rated for 100 kA RMS short-circuit withstand at 440V AC. Earth fault and overcurrent protection are provided via an ABB REJ 601 protection relay. Metering includes a multifunction power meter equivalent to PM8240, a rotating disc kWh meter (50Hz), and a panel-mounted voltmeter with 0–600V range.

Outgoing feeders consist of molded case circuit breakers including (3) 800A 4-pole MCCBs rated 70 kA at 440V AC, (2) 630A 4-pole MCCBs rated 70 kA at 440V AC, and (1) 250A 4-pole MCCB, all handle operated with LOTO facilities. The outgoing sections are arranged in Form 3B internal segregation with extended copper bars for outgoing cable termination.

Thermal management is provided by four exhaust fan and filter assemblies, each measuring 204 × 204 mm, thermostatically controlled and installed at the top and both left and right ends of the enclosure. The system includes copper grounding provisions bonded to the enclosure frame, lifting eyes with reinforced bracket and 2-inch iron bar connection to the main frame, and bottom cable entry for incoming and outgoing connections.

Wiring: he MPD-MDS-CB-440V-3P-3200A-N3R-M1 is designed for bottom cable entry with cable termination to copper busbars and molded case circuit breakers.

Mount: The MPD-MDS-CB-440V-3P-3200A-N3R-M1 is floor-mounted and intended for outdoor industrial installations.

Applications: Industrial power distribution systems, sub-switchboard installations, and facilities requiring high-capacity low-voltage power distribution with withdrawable main circuit breaker protection.

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

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