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MPD-MES-ACB-3P4W-1.6-480V-2000A-65K-DO-PM-BEBE-ATS.BPI-CU-N3R

2000A Metal-Enclosed Switchgear with Integrated Automatic Transfer Switch and Bypass, Main + Generator Backfeed + 4 Feeders + Spare Feeder, 480V 3PH, Draw-Out, Pad-Mounted, NEMA 3R

Product ID: 342058

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



Image: MPD-MES-ACB-3P4W-1.6-480V-2000A-65K-DO-PM-BEBE-ATS.BPI-CU-N3R

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-MES-ACB-3P4W-1.6-480V-2000A-65K-DO-PM-BEBE-ATS.BPI-CU-N3R Metal-Enclosed Switchgear with Integrated ATS

Made in the USA

Unit Type: Low-Voltage Metal-Enclosed Switchgear, Draw-Out, Pad-Mounted Outdoor, with Integrated ATS

Configuration: 3-Phase, 4-Wire
Frequency: 60Hz
Nominal Voltage: 480Vac
Main Bus Rating: 2000A (Horizontal, Vertical, and Neutral)
Bus Material: Tin-Plated Copper
Minimum Interrupting Rating at 480V: 65kA
Minimum Short-Time Rating at 480V: 65kA

Bus Bracing: 65kA Minimum

Bus Density: ≤1000 Amps/in²
Neutral Bus: 100% of Phase Rating
Ground Bus: Continuous, 50% of Phase Rating
Enclosure: NEMA 3R, Non-Walk-In, Pad-Mounted Outdoor
Ambient Rating: -40°C to +40°C, 30°C Max 24-Hr Average, <1000m Altitude
Mounting Style: Pad-Mounted

Main Breaker

Features of Every Vertical Section
Welded Structural Steel Base Frame
Front Breaker Doors and Covers Free of Ventilation Openings
Front External Doors Padlockable with 3-Point Latches
Internal Compartment Doors with ¼-Turn Latches
Rear Doors, 3-Point Latching with Padlocking Provisions
Enclosure Finish: ANSI 61 Gray
Closed-Door Draw-Out Mechanism (Through-the-Door Drawout)
Cable Supports Provided

Ratings & Approvals
Designed to Applicable IEEE, ANSI, and NEMA Standards
UL Listed (or Equivalent NRTL Certification)
Factory Tested per ANSI C37.50 and ANSI C37.51

Poles: 3, Type: Draw-Out
Frame: 2000A Minimum, Plug: 2000A
Protection: LSIG (LT 0.9/1800A, Band 14; ST 8/16000A, Band 0.2; Inst. Pickup 12/24000A; GF Pickup B/300A, Band 0.3), Neutral Protection
Interlocked with Generator Backfeed Breaker (Prevents Simultaneous Rack-In)

Generator Backfeed Breaker
Poles: 3, Type: Draw-Out
Frame: 2000A Minimum, Plug: 2000A
Protection: LSIG (Same Settings as Main Breaker)
Interlocked with Main Breaker (Prevents Simultaneous Rack-In)

Feeder Breakers (Qty 4) + Spare Feeder Breaker (Qty 1)
Poles: 3, Type: Draw-Out, Each
Frame: 1600A Minimum, Plug: 1000A, Each
Protection: LSIG (LT 1/1000A, Band 25; ST 8/8000A, Band 0.1; Inst. Pickup 12/12000A; GF Pickup B/300A, Band 0.3), Each
Spare Feeder Breaker: Fully Equipped, Installed with All Accompanying Hardware and Bus

Integrated Automatic Transfer Switch with Bypass
Current Rating: 2000A, Interrupt Rating: 65kA
Draw-Out ATS and Draw-Out Bypass (Maintenance Without Interrupting Power)
UL 1008 Listed, Manual and Automatic Operating Modes

Bus System
(2) 2000A Tin-Plated Copper Bus Bars, 65kA Braced
Continuous Ground Bus, Copper, 50% of Phase Rating

Options (Exercisable, Quoted Separately)
Arc-Resistant Enclosure
200% Neutral Bus

Metering & Instrumentation
Local Metering Installed
Remote Metering Provisions, Ethernet Communication Option
Test Switches on Metering Circuitry
Monitors All Phase-to-Neutral and Phase-to-Phase Voltages, Current on All Phases and Neutral
Control Power Transformer, Sized for All Instrumentation and Heater Loads

Space Heaters
Electric Strip Heaters, 240Vac, 100W Each
Operated at 120Vac via Internal CPT
Disconnecting Means Provided for All Heaters

Interlocks & Safety
Frame Size/Interrupting Rating Mismatch Interlock (Prevents Incorrect Breaker Insertion)
Door Interlock (Door Opens Only in Disconnected Position)
Positive Mechanical Interlock (Racking Only in Open Position)
Closing Interlock (Connected or Test Position Only)
Isolation Barriers on Main Breaker (Line/Load Separation)
Shutters on All Draw-Out Compartments
Three Breaker Positions: Connected, Test, Disconnected

Control Wiring
Continuous, Terminal-Block Terminated Both Ends
14 AWG Minimum, Stranded SIS, Sleeve-Type Wire Markers

Test Provisions
Grace Test Points (R-3MT-1K-KIT), Main and Generator Backfeed Cubicles

Nameplate
Material: Stainless Steel
Includes: Manufacturer Name/Address, ID Reference, Rated Frequency, Continuous Current, Short-Time Withstand, Momentary Withstand, Date of Manufacture

Handling
Designed for Shock/Vibration During Handling and Shipping
Lift Points Provided (Rated for Total Unit Weight)
Rolling, Jacking, and Skidding Provisions
Certified Lifting Means for Breaker Removal

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

Dimensions & Shipping
Overall Dimensions: 240 in W × 90 in D × 96 in H (estimated)
Approximate Weight: 9,500 lbs (estimated)
Shipping Dimensions: TBD
Shipping Weight: TBD

Special Orders – Special Requirements
Contact us for special requirements
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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 applicable drawings.

Made in the USA

The MPD-MES-ACB-3P4W-1.6-480V-2000A-65K-DO-PM-BEBE-ATS.BPI-CU-N3R from Larson Electronics is a Low-Voltage Metal-Enclosed Switchgear Lineup with Integrated Automatic Transfer Switch, designed for reliable, safe power distribution and source transfer for mission-critical applications. This assembly is rated 2000A continuous, 480V three-phase, four-wire, and is suitable for pad-mounted outdoor operation.

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

The **MPD-MES-ACB-3P4W-1.6-480V-2000A-65K-DO-PM-BEBE-ATS.BPI-CU-N3R** provides comprehensive power distribution, source transfer, and metering in a single outdoor-rated lineup. The assembly includes a draw-out main breaker, a draw-out generator backfeed breaker, four draw-out feeder breakers, one fully-equipped spare feeder breaker, and an integrated automatic transfer switch with draw-out bypass — all rated to a minimum 65kA interrupting and short-time withstand capacity at 480V.

Main and Generator Backfeed Breakers

Two 3-pole, draw-out breakers, each with a minimum 2000A frame and 2000A plug, provide LSIG (long-time, short-time, instantaneous, ground fault) protection with neutral protection.

Built-in interlocks prevent both breakers from being racked in simultaneously.

Feeder Breakers
Four 3-pole, draw-out feeder breakers, each with a minimum 1600A frame and 1000A plug, provide LSIG protection. A fifth, fully-equipped spare feeder breaker with all accompanying hardware and bus is installed in any unused cubicle.

Integrated Automatic Transfer Switch with Bypass
A 2000A, 65kA-rated automatic transfer switch is integrated into the lineup, with both the ATS and its bypass switch built as draw-out elements to allow maintenance without interrupting power to the switchgear. The ATS is UL 1008 listed and supports both manual and automatic operating modes.

Bus System
The assembly utilizes tin-plated copper bus throughout, rated 2000A horizontal, vertical, and neutral, with a continuous ground bus rated at 50% of phase rating and a neutral bus rated at 100% of phase rating (200% neutral available as an exercisable option). All bus is braced to a minimum 65kA and does not exceed 1000 amps per square inch.

Metering & Instrumentation
Local metering is installed with remote metering provisions, including an Ethernet communication option. The meter monitors all phase-to-neutral and phase-to-phase voltages and current on all phases and neutral. Test switches are installed on the metering circuitry, and a control power transformer is sized to power all instrumentation and heater loads.

Space Heaters
Electric strip heaters (240Vac, 100W each), operated at 120Vac via an internal control power transformer, prevent moisture condensation within the enclosure. A disconnecting means is provided for all heaters.

Enclosure Design
The switchgear is housed in a NEMA 3R rated, non-walk-in outdoor enclosure with a welded structural steel base frame and ANSI 61 gray finish. Front breaker doors are free of ventilation openings and padlockable with 3-point latches; internal compartment doors use ¼-turn latches; rear doors are 3-point latching with padlocking provisions. Closed-door draw-out mechanisms allow breaker racking through the door. Cable supports are provided, and barriers isolate the rear cable area from the main bus area.

Interlocks & Safety
The assembly includes interlocks preventing incorrect breaker frame/rating insertion, door interlocks limiting access to the disconnected position, positive mechanical racking interlocks, closing interlocks, isolation barriers on the main breaker, and shutters on all draw-out compartments. Breakers provide three positions: connected, test, and disconnected.

Nameplate
A stainless steel nameplate includes manufacturer name and address, identification reference, rated frequency, rated continuous current, rated short-time withstand current, rated momentary withstand current, and date of manufacture.

Handling
The switchgear is designed to withstand shock and vibration during handling and shipping, with rated lift points, rolling/jacking/skidding provisions, and a certified lifting means for breaker removal.

Certification
Designed and manufactured in accordance with applicable IEEE, ANSI, and NEMA standards. Factory tested in conformance with ANSI C37.50 and ANSI C37.51.

Special Features: Integrated Draw-Out ATS with Draw-Out Bypass, Full LSIG Protection on All Breakers, Local and Remote Metering, Space Heaters, Non-Walk-In Outdoor Pad-Mounted Enclosure, Stainless Steel Nameplate

Ratings & Approvals: Designed to Applicable IEEE, ANSI, and NEMA Standards; UL Listed (or Equivalent NRTL Certification); Factory Tested per ANSI C37.50/C37.51

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.

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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