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MPD-PDC-DCB-1P2W-1.21-1000VDC-4000A-65K-DO-FM-BEBE-TU-N3R-DF-WSP-M2

Power Distribution Center, DC Circuit Breaker Switchgear, 1 Pole, 2 Wire, 1 In/21 Out, 1000VDC, 4000A, 65 kA, Draw-Out Type, Floor-Mounted, Bottom Entry/Bottom Exit, Copper, NEMA 3R, Dead Front, wFeat, Model 2

Product ID: 338461

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



Image: MPD-PDC-DCB-1P2W-1.21-1000VDC-4000A-65K-DO-FM-BEBE-TU-N3R-DF-WSP-M2

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-PDC-DCB-1P2W-1.21-1000VDC-4000A-65K-DO-FM-BEBE-TU-N3R-DF-WSP-M2 DC Switchgear Assembly

Unit Type: DC Circuit Breaker Switchgear
Configuration: 1 Pole, 2 Wire

Assembly Type: 1 In / 21 Out

System Voltage: 1000VDC

Main Bus Rating: 4000A

Interrupt Rating: 65kAIC

Mounting Style: Draw-Out Type
Mounting Configuration: Floor-Mounted

Cable Entry: Bottom Entry / Bottom Exit

Bus Material: Copper
Enclosure: NEMA 3R
Front Type: Dead Front
Protection & Monitoring: Trip Unit

Made in the USA

Features of Every Vertical Section

Draw-Out breaker construction for safe operation and maintenance.

Front-accessible breaker compartments for convenient operation and servicing.

Rear cable access provisions for simplified installation and maintenance.

Safety shutters automatically isolate energized stabs when breakers are withdrawn.

Shipping

Shipped on pallet or skid for industrial equipment transportation.

Crated shipping available upon request for an additional fee.

Protection & Monitoring
Electronic Trip Unit
Protection Functions Per Breaker Manufacturer
Communications Ready (Subject to Customer Requirements)

Electrical Ratings

System Voltage: 1000VDC
Main Bus Rating: 4000A
Interrupt Rating: 65kAIC

Distribution Arrangement (2 SWGR Groups, 11 Vertical Sections, 21 Compartments)
Main Incoming Device Not Specified by Customer
Final Arrangement Subject to Customer Approval (Left to Right, Top then Bottom)
1 x 1600A Breaker Compartment (7B)
4 x 800A Outgoing Feeders (8B, 6B, 4B, 2B)
8 x 400A Outgoing Feeders (11A, 9A, 7A, 5A, 3A, 6A, 4A, 2A)
3 x Future Provision - Busbar Installed (12A, 10A, 8A)
4 x Spaces - Additional Compartments (5B, 3B, 1B, 1A)
3000A Tie Draw-out Breaker (Between SWGR A & SWGR B)
Breaker arrangement interpreted from customer-provided one-line diagram and subject to final engineering review.

Construction
Metal Enclosed Switchgear
Front Accessible Breakers
Rear Cable Access
ANSI 61 Gray Finish

Special Features
Draw-out Breaker Construction
Safety Shutter Protection
Future Expansion Capability
Front Accessible Design
Rear Cable Access
Tie Breaker Configuration
Future Bus Expansion Provisions

Protection functions, breaker ratings, communications, monitoring, metering, control requirements, future provisions, spare compartments, feeder arrangements, tie breaker configuration, certifications, testing requirements, and accessory equipment shall be finalized in accordance with approved customer documentation and final engineering review. One-line arrangements shown herein are based on interpretation of the customer-provided drawings and are subject to customer approval.

Larson Electronics provides 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.

Ratings / Approvals
UL 1558
UL 1066 (Subject to Breaker Manufacturer)
IEEE/ANSI C37 Series
Suitable for Industrial DC Distribution Applications
All grounding shall comply with state and local codes and meet applicable NEC requirements.

Special Orders - Special Requirements
Contact us for special requirements.
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Made in the USA

The Larson Electronics MPD-PDC-DCB-1P2W-1.21-1000VDC-4000A-65K-DO-FM-BEBE-TU-N3R-DF-WSP-M2 DC Switchgear Assembly provides centralized protection, distribution, and system expansion capabilities for high-current industrial DC power

systems. This unit consists of two DC switchgear groups arranged across eleven vertical sections and twenty-one breaker compartments. Designed for industrial DC distribution applications, the assembly is rated 1000VDC, 4000A main bus current, and 65kA interrupting capacity. The switchgear features draw-out circuit breaker construction, electronic trip unit protection, copper bus construction, front-accessible breaker compartments, rear cable access provisions, and a NEMA 3R dead-front enclosure for enhanced safety, maintainability, and reliability.

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

The Larson Electronics **MPD-PDC-DCB-1P2W-1.21-1000VDC-4000A-65K-DO-FM-BEBE-TU-N3R-DF-WSP-M2** is engineered to provide dependable DC power distribution and protection for industrial facilities, battery energy storage systems, transportation infrastructure, renewable energy installations, and other critical DC power applications. The assembly utilizes draw-out breaker technology with safety shutter protection to facilitate maintenance and testing while minimizing personnel exposure to energized components. Front-accessible breaker compartments simplify operation and servicing, while rear cable access provisions streamline installation and cable management. The lineup incorporates future expansion provisions and spare compartments to accommodate evolving system requirements.

Protection & Monitoring:
The switchgear incorporates electronic trip unit protection designed to provide dependable circuit protection and fault isolation. Protection functions are provided in accordance with the selected breaker manufacturer's capabilities and settings. The assembly is communications-ready and may be configured to support monitoring, control, and communication functions as required by the final project specifications and customer requirements.

Electrical Ratings:
The assembly is rated for operation on 1000VDC systems and incorporates a 4000A copper main bus structure. The switchgear provides a 65kA interrupting rating and is designed for demanding industrial DC distribution applications requiring high fault-current capability and long-term reliability. The dead-front construction enhances personnel safety while maintaining convenient access for operation and maintenance.

Distribution Arrangement:
The switchgear lineup is arranged as two switchgear groups consisting of eleven vertical sections and twenty-one total compartments. The distribution arrangement includes one 1600A breaker compartment, four 800A outgoing feeder compartments, and eight 400A outgoing feeder compartments. Three future provisions with busbar installed are included to facilitate future expansion, while four additional spare compartments are provided for future equipment additions. A 3000A draw-out tie breaker is installed between Switchgear Group A and Switchgear Group B to provide system flexibility and future operational options. The final arrangement remains subject to customer approval and engineering review.

Tie Breaker Configuration:
The lineup incorporates a 3000A draw-out tie breaker positioned between the two switchgear groups. The tie breaker arrangement provides operational flexibility and future system configuration options while maintaining continuity between switchgear sections. Final tie

breaker functionality and operating philosophy shall be determined during detailed engineering review.

Construction:
The assembly is constructed as metal-enclosed DC switchgear utilizing copper bus conductors throughout the distribution system. The floor-mounted lineup incorporates front-accessible breaker compartments, rear cable access provisions, bottom entry/bottom exit cable routing, and a durable ANSI 61 gray finish. Draw-out breaker construction simplifies maintenance procedures while safety shutters automatically isolate energized stabs whenever breakers are withdrawn from service positions.

Features/Ratings:
This DC switchgear assembly is configured as a one-pole, two-wire distribution system with one incoming source and twenty-one outgoing compartments. The assembly is rated 1000VDC, 4000A main bus current, and 65kA interrupting capacity. Major features include draw-out breaker construction, electronic trip unit protection, communications-ready architecture, front-accessible breaker compartments, rear cable access, safety shutter protection, tie breaker configuration, future bus expansion provisions, copper bus conductors, dead-front construction, and NEMA 3R environmental protection.

Special Features:
Special features include draw-out breaker construction, safety shutter protection, future expansion capability, front-accessible design, rear cable access provisions, tie breaker configuration, and future bus expansion provisions. The modular construction supports future modifications and system growth while maintaining safe operation and simplified maintenance procedures.

Ratings & Approvals:
The switchgear is designed utilizing equipment suitable for compliance with UL 1558, UL 1066 (subject to breaker manufacturer), and applicable IEEE/ANSI C37 series requirements. The assembly is suitable for industrial DC distribution applications and is designed in accordance with applicable industry standards and customer requirements.

Shipping:
The switchgear is shipped on a pallet or skid suitable for industrial equipment transportation. Crated shipping is available upon request for an additional fee.

Additional customer-specific protection schemes, feeder arrangements, breaker ratings, communications protocols, monitoring functions, metering packages, control requirements, certifications, testing requirements, and accessory equipment shall be incorporated as required by the final approved project documentation. Future provisions, spare compartments, breaker quantities, feeder arrangements, and tie breaker configuration are based on interpretation of the customer-provided one-line diagram and remain subject to final customer approval and engineering review.

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

Export Control Classification Number (ECCN): EAR99

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