Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

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MPD-CPB-2MVAR-11000V-N1-M1

2 MVAR Pad Mount Capacitor Bank – 11 kV, 3-Phase, 50 Hz, (4) 500 kVAR Stages, 40 kA/1 Sec, NEMA 1/IP41 Indoor, Bell Green, w/ Vacuum Load Break Switches, Series Reactors, PT & APFC Controller

Product ID: 332809

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



Image: MPD-CPB-2MVAR-11000V-N1-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-CPB-2MVAR-11000KV-N1-M1 MV Pad Mount Capacitor Bank

Unit Type: MV Pad Mount Capacitor Bank
Phase: Three Phase
Wire: Four Wire
Rated Frequency: 50 Hz
Nominal Voltage Rating: 11 kV
Total Bank Rating: 2 MVAR
Stage Configuration: (4) Stages – 500 kVAR Each
Short-Time Withstand: 40 kA for 1 Second
Minimum Live-Part Protection: IP20 (All Capacitors, Reactors, Surge Arresters, RCTs and CTs Fully Shrouded to Prevent Access to Live Parts)
Load Break Switch: Included, (3) Joslyn Vacuum Load Break Switches Type VSV For Both Manual and Automatic Operation, w/ (1) Auxiliary Contact and (5) Pins in the Connector
Load Break Switch Rating: 600A Cont. and Load Break Current (600AF/100AT), 150 kV BIL, 25 kA Make and Latch Asymmetrical Current, 10000 OFF and 10000 ON Lifetime Switching Operations
Potential Transformer: Included, 12000-120 V, 1500 VA Rating, 100:1 Ratio, w/ (2) 1 A Primary Fuses (ABB Type CLE-PT, 6777C452 G08), 50 Hz
Current Limiting Fuse: Included, 8.3 kV Rating, Cooper Type NXC
Series Reactors: Included, For Harmonic Mitigation and Inrush Current Limitation

Ratings

CSA Certified
UL Listed
Enclosure IP41 (Indoor) – IEC 60529
IP55 Available for Outdoor Installations
Two Years Of Warranty
Made in the USA

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APFC Controller: Microprocessor-Based Automatic Power Factor Controller with Auto & Manual Control Modes, Auto-Adaptive Switching Logic to Minimize Capacitor Switching and Monitor VAR and Power Factor Profiles, w/ LCD Display, Replaceable Battery, RS-232 Interface, SCADA Capability, 24-Hour Voltage and Temperature Profiling, Temperature Sensor and Expanded Memory
Capacitor Units: 12 kV Class, 11 kV System Rated, 500 kVAR per Stage, Synthetic Insulation Film Dielectric, ANSI #70 Light Grey
Operating Temperature: -40°C to +45°C
Humidity: 90%
Seismic Zone: Low, Complies with IEEE 693
Wind Load: TBD
Snow Load: TBD
Altitude: TBD
Lifting: Top four lifting points and bottom forklift holes are both available
Door: (3) Hinged Doors w/ Pad Lockable Handle
Enclosure Material: 304 Stainless Steel
Enclosure Coating System: Primed with 3 mils of a polyamide epoxy Amercoat 385 and finished with 3 mils of an Amershield polyurethane
Enclosure Finish: Munsell™ 7GY 3.29/1.5 Bell Green
Enclosure Type: NEMA 1 (Indoor), Free Standing, Totally Enclosed, Minimum IP41
Mount: Free Standing
Pad Dimensions: 72" x 94"
Dimensions: 51.2"-W x 70.87"-D x 102.36"-H
Weight: 3,747.86 lbs
Shipping Dimensions: TBD
Shipping Weight: TBD
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
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
Fax: 1-903-765-7664
E-mail: sales@larsonelectronics.com

All grounding shall comply with state and local codes and meet the minimum requirements of the National Electronic Code section 250

The MPD-CPB-2MVAR-11000V-N1-M1 is an automatically/manually switched, pad-mounted power factor correction device designed for medium voltage applications requiring precise maintenance of target power factor in industrial and utility installations. This 11 kV, three-phase, 50 Hz capacitor bank features a total rating of 2 MVAR arranged in four 500 kVAR stages. The unit includes series reactors for harmonic mitigation, vacuum load break switches for safe switching operations, and a microprocessor-based automatic power factor controller with both automatic and manual operating modes.

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

Capacitor Bank Features: The MPD-CPB-2MVAR-11000V-N1-M1 is a Medium Voltage Three-Phase Pad Mount Capacitor Bank, 11 kV, 2 MVAR, 50 Hz, configured with (4) 500 kVAR stages and rated for 40 kA short-time withstand (1 second). The enclosure is free standing, totally enclosed, rated IP41 for indoor installations (IP55 available for outdoor applications), and all live components are shrouded to provide minimum IP20 protection against accidental contact. Included components consist of vacuum load break switches, current limiting fuses, potential transformer, series reactors, and a microprocessor-based APFC controller with SCADA capability.

Benefits: The MPD-CPB-2MVAR-11000V-N1-M1 from Larson Electronics meets or exceeds applicable standards for the United States and Canada, ensuring reliable power factor correction, reduced system losses, improved voltage regulation, and extended equipment life. This results in lower operating costs and improved overall system efficiency throughout the life of the capacitor bank.

Safety: The MPD-CPB-2MVAR-11000V-N1-M1 is an automatic capacitor bank which means that it provides operators with an increased level of protection against electric shock and injury. A capacitor bank can also suppress electrical noise in sensitive devices and transfer power between two circuits which must not be connected.

Applications: Power Factor Correction, Industrial Facilities, Utility Substations, Manufacturing Plants, Large Commercial Installations.

Larson Electronics is a manufacturer and as such can build stationary and portable transformer systems to your specifications. Although we carry several models of power distribution transformer systems, we can deliver custom ordered units almost as quickly as our prebuilt units. If this model does not meet your needs, please contact us at 1-800-369-6671 or sales@larsonelectronics.com to discuss your specific requirements.

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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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