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

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
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MPD-CPB-7.2MVAR-13800V-OR-M1

Outdoor Station Capacitor Bank, 13.8kV Nominal Voltage, 3-Phase, Wye-Ungrounded, Fused, Open-Rack Construction, Symmetric Two-Step Switched (3.6/7.2MVAR)

Product ID: 342010

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



Image: MPD-CPB-7.2MVAR-13800V-OR-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-7.2MVAR-13800V-OR-M1 Outdoor Station Capacitor Bank
Unit Type: Outdoor Station Capacitor Bank, Fused, Wye-Ungrounded, Open-Rack Construction

Made in the USA

Configuration: 3-Phase, Two-Step Switched, Symmetric
Bank Rating: 3.6MVAR (Switched Step) / 7.2MVAR (Full-Bank)
Nominal System Voltage: 13.8kV
Frequency: 60Hz

Features of Every Assembly
Individually Fused Capacitor Units, External Fuse Links
Elevating Support Structure Included
Insulated Base Mounting
Bracket Provisions for Neutral Potential Device
Open-Rack, Outdoor-Rated Construction

Capacitor Unit Ratings (Qty 24)
Individual Unit Rating: 300kVAR, 7.96kV
Total Unit Capacity: 24 Units, (1) Rack, 3-Phase (8 Units per Phase)
Switching Arrangement: Group A — 4 Units per Phase (Switched, 3.6MVAR Step); Group B — 4 Units per Phase (Switched Together with Group A for Full 7.2MVAR)
Fuse Links: 40kA Interrupting Rating, External, per Unit

Capacitor Unit Construction
Dielectric: Polypropylene Film
Impregnant: Synthetic Impregnation Fluid
Discharge Resistor: Built-In
Container Material: Ferritic Stainless Steel, 1.5mm

Container Finish: Grey, Munsell 5BG 7/0.4 / ANSI 70
Bushings: Porcelain, Standard Grey
Terminals: M16 x 2.0, Nickel-Coated Brass Clamps

Support Structure

Elevating Structure: (1), for Rack-Mounted Capacitor Units

Base Insulators: Included
Neutral Potential Device: Bracket Provisions Only (device not furnished unless specified)

Ratings & Approvals

Designed in accordance with applicable ANSI/IEEE standards for shunt power capacitors

Dimensions & Shipping

Overall Dimensions: 180 in W × 96 in D × 108 in H (estimated)
Approximate Weight: 6,500 lbs (estimated)
Shipping Dimensions: TBD
Shipping Weight: TBD

Shipping

Shipped on skid or crated
Final shipping configuration subject to approved design

Special Features

Symmetric Two-Step Switched Bank, Individually Fused Units, Elevating Support Structure, Open-Rack Construction

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 one-line diagram.

Made in the USA

The Larson Electronics MPD-CPB-7.2MVAR-13800V-OR-M1 Outdoor Station Capacitor Bank is designed for reliable, safe, and convenient power factor correction and voltage support at industrial and utility power sites. This 13.8kV, three-phase, wye-ungrounded capacitor bank is individually fused, open-rack construction, and configured as a symmetric two-step switched bank, providing 3.6MVAR at the switched step and 7.2MVAR at full-bank operation.

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

The **MPD-CPB-7.2MVAR-13800V-OR-M1** capacitor bank provides a safe and reliable method of reactive power compensation for industrial and utility power distribution systems. Compatible with 13.8kV nominal systems, the bank is arranged as a single three-phase rack totaling 24 capacitor units, with 8 units per phase, mounted on an elevating support structure with insulated base mounting, suitable for outdoor open-rack installation.

Capacitor Unit Ratings: Each individual capacitor unit is rated 300kVAR at 7.96kV, consistent with a wye-ungrounded connection at 13.8kV nominal system voltage. Each unit is individually protected by an external fuse link rated 40kA interrupting.

Support Structure: The bank includes one elevating support structure for rack-mounted capacitor units, with insulated base insulators. Bracket provisions are included for a neutral potential device; the device itself is not furnished unless specified separately.

Special Features: Symmetric two-step switched bank configuration, individually fused capacitor units, elevating support structure, and open-rack outdoor construction.

Ratings & Approvals: The capacitor bank is designed in accordance with applicable ANSI/IEEE standards for shunt power capacitors.

Applications: Power factor correction, voltage support, and reactive power compensation for industrial and utility power distribution systems.

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.

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.

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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