

MPD-CPB-50KVAR-480V-N4X-M4

50 KVAR Automatic Capacitor Bank - 480V Nominal Voltage, 3-Phase, NEMA 4X, Grey, w/ SPD

Product ID: 325698

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



Image: MPD-CPB-50KVAR-480V-N4X-M4

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-50KVAR-480KV-N4X-M4 LV Automatic Capacitor Bank

Unit Type: LV Automatic Capacitor Bank

Phase: Three Phase

Pole: Three Pole

Nominal Voltage Rating: 480V

Maximum Continuous Voltage: 800 V

Rated impulse withstand voltage: 8 kV

Capacitor Bank Rating: 50 KVAR

Step x KVAR: 2 x 25 KVAR

Rated Frequency: 60 Hz

Rated Short-Time Withstand Current: $\leq 2.83 \times \text{Rated Current}$

Network Pollution Level: Polluted

Harmonic Pollution Rate: 25-50 %

Total Harmonic Distortion of Voltage: 4-7 %

Tuning Factor: 2.7

Tuning Frequency: 135 Hz

Capacitance Tolerance: - 5 % to 10 %

Surge Protection Device: Included

Surge Protection Device Type: Type 2, UL 1449 4th Edition compliant

Surge Protection Device Rating: 20 kA nominal discharge current (In), 65 kV maximum surge current (Imax)/Phase

Ratings

CSA Certified

EAC Certified

CE Certified

ASEFA Certified

RoHS

NEMA 4X Rated for Indoor/Outdoor Use

Made in the USA

Surge Protection Device Connection Method: Connected across all three phase conductors and to ground (L-L-G) to protect against both line-to-line and line-to-ground surges

Surge Protection Device Quantity: (1) Three-phase SPD module is installed per capacitor bank panel. This configuration provides full system protection without requiring separate single-phase devices

Harmonic Filter: Included, to mitigate the harmonics from the external circuit (It does not create harmonics)

Indication Lights: Included, For On/Off and Fuse Blown, indoor

Self-Healing Capacitors: Included

Internal Voltage Transformer: Included, 480/277 V - 630 VA

Available Functions: GenSet shedding contact, Alarm contact

Main Incomer Protection: N/A

Step Protection Type: Overload (Harmonic control from PFC controller), and Short-circuit (Fuse)

Operating Temperature: -5°C to +45°C

Humidity: 0-95%

Seismic Zone: Low, Complies with IEEE 693

Altitude: ≤ 6,600ft Above Sea Level

Lifting: Top four lifting points

Door: (1) Hinged Door w/ Pad Lockable Handle

Accessibility For Operation: Front

Cable Entry/Exit: Bottom

Enclosure Material: Galvanized Steel

Enclosure Finish: RAL 7035, Grey

Enclosure Type: NEMA 4X

Mount: Floor Mounted

Dimensions: 23.6"-L × 23.6"-W × 78.7"-H

Weight: 397 lbs

Shipping Dimensions: -

Shipping Weight: -

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-50KVAR-480V-N4X-M4 is an automatically switched, floor-mounted, power factor correction-capable device designed for low-voltage applications in installations requiring precise maintenance of target power factor in a very small footprint. The unit includes cleared fuse indicator lights and manual on/off switching easily accessible on the front cover. A built-in controller (with optional communication capabilities) controls banks of contactor-connected capacitors.

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

Capacitor Bank Features: The MPD-CPB-50KVAR-480V-N4X-M4 is a Low Voltage Three-Phase Automatic Capacitor Bank, 480V, 60 Hz, 50 kVAR, floor-mounted

Benefits: The MPD-CPB-50KVAR-480V-N4X-M4 from Larson Electronics meets or exceeds efficiency standards for the United States and Canada. This results in an overall lower cost of ownership throughout the life of the capacitor bank.

Safety: The MPD-CPB-50KVAR-480V-N4X-M4 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 that must not be connected.

Applications: Power Factor Correction.

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.



Frequently Asked Questions (FAQ)

There are no Fags



Image: MPD-CPB-50KVAR-480V-N4X-M4



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Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **HigResPic1**(<https://www.larsonelectronics.com/images/product/HigResPic1/325698.JPG>)
- **HigResPic2**(<https://www.larsonelectronics.com/images/product/HigResPic2/325698.JPG>)
- **HigResPic3**(<https://www.larsonelectronics.com/images/product/HigResPic3/325698.JPG>)
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