

ARCO ELECTRIC PRODUCTS

2325 E. MICHIGAN ROAD

SHELBYVILLE, IN 46176

CMC SERIES FIXED PFC CAPACITORS



DESCRIPTION

General

- The CMC Series capacitor design incorporates high quality three phase cells which are vacuum-impregnated metallized polypropylene filled and hermetically sealed in a rugged steel welded case. This series of power factor correction capacitors is suitable for low voltage linear applications

Construction

- The three phase cells which are used in the construction of the power factor banks are drawn steel rectangular cans which are vacuum-impregnated with a dielectric fluid to give added insulation, excellent corona protection, and a moisture barrier. The single and multiple assembly capacitor cell design units come with a manufactured 16 gauge steel weatherproof cover, and they have provision for floor, wall, or ceiling mounting pedestals. The single cell units come equipped with main lug connection, and the multiple assembly units incorporate a copper buss arrangement with a main lug connection.

Capacitor Cell Design

- The dielectric fluid used in the capacitor cells is a green Non-PCB, non-toxic, biodegradable, and Class III combustible fluid.
- Self-healing technology in case of overload, the self-healing properties of the low loss metallized polypropylene will prevent permanent dielectric breakdown.
- Internal Pressure-Sensitive Interrupter which safely removes the capacitor from service at the end-of-life or under heavy fault conditions while still maintaining the integrity of the steel casing.
- Internal resistors discharge voltage is less than 50 volts in less than 1 minute after the cell has electrically been removed from the circuit.

Capacitor Losses

- The capacitor design has a total loss which is less than .5 Watts per kVAR at 60 HZ 25 degrees C.

Phone 317/398-9713

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Fax 317/398-2655

WEBSITE <http://www.arco-electric.com>

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Electrical Characteristics

- 240 VAC, 480 VAC, 600 VAC rated Voltage at 60 HZ
- The three phase capacitor internal connection is Delta.
- Capacitance Tolerance is + or – 15%.
- Overcurrent Tolerance is 135% of rated current continuously.
- Overvoltage Tolerance is 110% of rated voltage
- Standard Operating Temperature is -40 F to +115 F. Operation above 115 F will shorten the capacitor life.

Wiring Cable Insulation

- All internal conductors are insulated stranded copper wire rated at 90 C.

Fuse Protection & Indicator Lights (Optional – Add Suffix Letter “L” to Catalog Number)

- The internal protection fuses are time-delay and rated at 600 VAC with the sizing based upon the nominal amperage rating of the kVAR size in accordance with the National Electric Code requirements.

WARRANTY

- **5-YEAR WARRANTY on the capacitor cells**
- For single phase applications change Prefix Number from 3 to 1 on the Catalog Number.
- For 208 VAC applications divide kVAR size by .75 to find equivalent in 240 VAC rated size.

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SIZES AVAILABLE

kVAR	240 VAC Catalog Number	480 VAC Catalog Number	600 VAC Catalog Number
25	324025CMC	348025CMC	360025CMC
30	324030CMC	348030CMC	360030CMC
50	324050CMC	348050CMC	360050CMC
60	324060CMC	348060CMC	360060CMC
75	324075CMC	348075CMC	360075CMC
90	324090CMC	348090CMC	360090CMC
100	3240100CMC	3480100CMC	3600100CMC
120	3240120CMC	3480120CMC	3600120CMC
125	3240125CMC	3480125CMC	3600125CMC
150	3240150CMC	3480150CMC	3600150CMC
200	3240200CMC	3480200CMC	3600200CMC
250	3240250CMC	3480250CMC	3600250CMC
300	3240300CMC	3480300CMC	3600300CMC
350	3240350CMC	3480350CMC	3600350CMC
400	3240400CMC	3480400CMC	3600400CMC
450	3240450CMC	3480450CMC	3600450CMC
500	3240500CMC	3480500CMC	3600500CMC
550	3240550CMC	3480550CMC	3600550CMC
600	3240600CMC	3480600CMC	3600600CMC

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