

ARCO ELECTRIC PRODUCTS

2325 E. MICHIGAN ROAD

SHELBYVILLE, IN 46176

DMC SERIES FIXED PFC CAPACITORS



DESCRIPTION

General

- The DMC Series is a “dry” capacitor cell design which incorporates high quality three phase cells. This series of power factor correction capacitor cells is normally used in applications where there is food processing. 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 a “dry type” in drawn steel rectangular cans. The capacitor cells are housed in a NEMA 3R enclosure panel. The enclosure panel is manufactured from 16 gauge steel and is furnished with mounting holes for quick and easy installation. Other NEMA rated enclosures are available – consult the factory

Capacitor Cell Design

- The dry capacitor cells are constructed using an epoxy potting material as a moisture barrier and insulator. The dielectric fluid is non-PCB, environmentally safe, and biodegradable.
- 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.
- External resistors discharge voltage is less than 50 volts in less than 1 minute after the cell has electrically been removed from the circuit.

Phone 317/398-9713

Toll-Free 1-800-428-4370

Fax 317/398-2655

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

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Capacitor Losses

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

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
1	32401DMC	34801DMC	36001DMC
1.5	32401.5DMC	34801.5DMC	36001.5DMC
2	32402DMC	34802DMC	36002DMC
2.5	32402.5DMC	34802.5DMC	36002.5DMC
3	32403DMC	34803DMC	36003DMC
4	32404DMC	34804DMC	36004DMC
5	32405DMC	34805DMC	36005DMC
6	32406DMC	34806DMC	36006DMC
7.5	32407.5DMC	34807.5DMC	36007.5DMC
10	324010DMC	348010DMC	360010DMC
12.5	324012.5DMC	348012.5DMC	360012.5DMC
13.5	324013.5DMC	348013.5DMC	360013.5DMC
15	324015DMC	348015DMC	360015DMC
17.5	324017.5DMC	348017.5DMC	360017.5DMC
20	324020DMC	348020DMC	360020DMC
22.5	324022.5DMC	348022.5DMC	360022.5DMC
25	324025DMC	348025DMC	360025DMC
27.5	324027.5DMC	348027.5DMC	360027.5DMC
30	324030DMC	348030DMC	360030DMC
35	324035DMC	348035DMC	360035DMC
37.5	324037.5DMC	348037.5DMC	360037.5DMC
40	324040DMC	348040DMC	360040DMC
45	324045DMC	348045DMC	360045DMC
50	324050DMC	348050DMC	360050DMC
60	324060DMC	348060DMC	360060DMC
65	324065DMC	348065DMC	360065DMC
70	324070DMC	348070DMC	360070DMC
75	324075DMC	348075DMC	360075DMC
80	324080DMC	348080DMC	360080DMC
85	324085DMC	348085DMC	360085DMC
90	324090DMC	348090DMC	360090DMC
95	324095DMC	348095DMC	360095DMC
100	3240100DMC	3480100DMC	3600100DMC
110	3240110DMC	3480110DMC	3600110DMC
115	3240115DMC	3480115DMC	3600115DMC
120	3240120DMC	3480120DMC	3600120DMC
125	3240125DMC	3480125DMC	3600125DMC
150	3240150DMC	3480150DMC	3600150DMC
175	3240175DMC	3480175DMC	3600175DMC
200	3240200DMC	3480200DMC	3600200DMC

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