

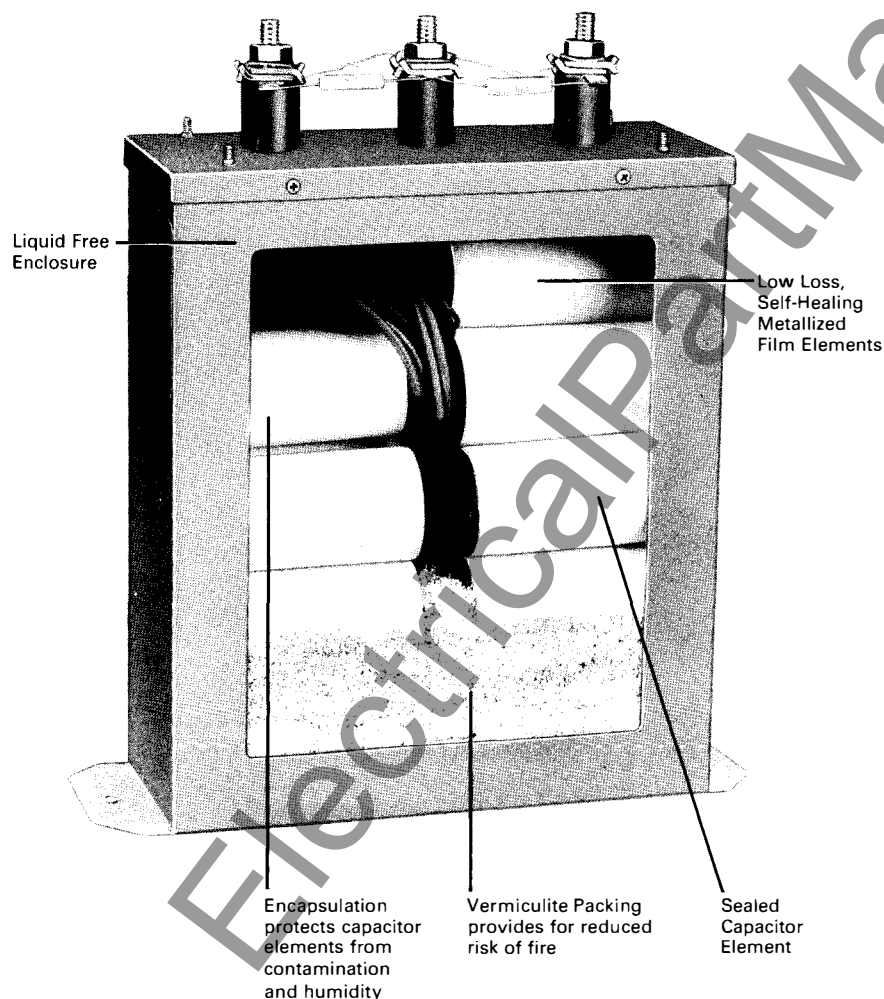


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Supersedes DB 39-215, page 1  
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## DRI-VAR II Power Capacitors

### Dry Metallized Dielectric

#### DRI-VAR II Construction



The DRI-VAR II capacitor represents a step forward in low voltage power capacitor development. It provides power factor correction which is inexpensive, reliable, environmentally safe, and without the hazard of flammable fluids.

For further information refer to:  
Application Data  
Price List

Descriptive Bulletins

AD 39-200  
PL 39-210

DB 39-216 DRI-VAR II  
DB 39-217 DRI-VAR II  
Motor Mate  
DB 39-218 DRI-VAR II  
Fixed Banks

#### Description

The Westinghouse DRI-VAR II consists of a number of capacitor elements wound from metallized polypropylene film dielectric. These dry elements are encapsulated in a thermal setting resin inside a plastic container. These capacitor elements or cells are then connected to provide the required single or three phase output. The capacitor element assembly is mounted in a steel container which is filled with a non-flammable non-toxic natural mineral material called vermiculite.

#### Advantages

**Environmentally safe:** The sealed cell construction results in the DRI-VAR II containing no free liquid. Thus, there is no risk of leakage or pollution.

**Reduced Losses:** The use of only low loss polypropylene film as the dielectric in the DRI-VAR II capacitor results in total losses including the discharge resistors of less than .5 watts per KVAR. This is an improvement over previous designs such as all-paper dielectrics having losses of 2 to 3 watts per KVAR and film paper systems which have losses of approximately 1.0 watt per KVAR.

**Self Healing:** The electrodes of the DRI-VAR II capacitor are very thin layers of metal deposited on the polypropylene surface. In the event of a short circuit in the dielectric material, the energy discharged into the puncture causes this thin metal layer to vaporize and eliminate the fault. Thus the capacitor is self healing and does not require a separate fuse to protect against dielectric failures.

**Reduced Risk of Fire:** In addition to the self-healing characteristics of the metallized dielectric, the design of the DRI-VAR II capacitor incorporates additional protection. This protection is provided by the combination of the liquid-free capacitor cell and the vermiculite packing around this cell within the steel container.

**Testing:** The DRI-VAR II capacitor meets or exceeds all applicable NEMA CP-1 and ANSI/IEEE-18 design and production test requirements for low voltage capacitors. In addition, the DRI-VAR II passed special tests to ensure reliability and long life, including inrush current, accelerated life, and faulted capacitor tests.