

## Motor Run Capacitors

### MKK Series

### Specifications

#### Rated Voltage

370 and 440 VAC  
(contact factory for alternative voltages)

#### Operating Temperature

-40°C to 70°C

#### Dissipation Factor

0.1% max.

#### Internal Protection

0.1% max.  
UL recognized internal protection bridge  
capable of interrupting up to 10K amp

#### Capacitance Tolerance

3% available

#### Leakage Current

30  $\mu$ A max.

#### Frequency

50/60 Hz

#### Operating Life

22,000 hour with 94% survival  
60,000 hours available

#### Terminations

.250" x .032" QC terminals

#### Case Material/Finish

Unpainted aluminum construction



### Features

- Single and dual rated values
- Round or oval case options
- Aluminum oil filled construction
- Designed & manufactured in accordance with UL 810 and EIA standard RS-456
- Custom configurations available



# MeK-Tronics

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MeK-Tronics MOTOR RUN CAPACITORS are manufactured with a dielectric material that consists of two sheets of polypropylene film. Each one with a thin layer of vacuum deposited metal on one side.

Metals are selected according to final application and can be either aluminum/zinc or zinc. Both films are acting as electrodes in the capacitor but, because this metal is just a few hundred angstroms thick, it has a very limited current carrying capability at any single point in the dielectric. To compensate for this limitation, the entire edge of each electrode is bonded by a metallized end spray that has a relatively high current carrying capability. The end spray serves as the termination point for the internal connections of the capacitor. This construction minimizes the current at any single point of the electrode. The current capability is enhanced by soldered or welded end terminations.

These capacitors are self-healing, a property of the metallized film to restore itself to an operating condition when a dielectric breakdown occurs during operation.

The thin metal layer around the fault point will act like a low current carrying fuse. Under a fault condition the current will evaporate the metal around the fault point and clear the fault. This is accomplished by special frame work of the film with a specific ohmic resistivity and low melting point temperature the evaporation of the electrode will result in a capacitance loss that is virtually unmeasurable. All films for capacitors have particularly low dielectric losses, high level of insulation and dielectric strength.

MeK-Tronics capacitors are provided with an internal protective device to prevent case rupture under capacitor fault conditions at specified levels of voltage and fault current. The internal protector is a pressure sensitive interrupter and the dielectric medium is made of vegetable oil. The kind of enclosure can be oval or round.

MeK-Tronics Run capacitors are designed for continuous duty, and they are energized the entire time the motor is running.

MeK-Tronics Run capacitors are rated in a range of 1-99  $\mu\text{F}$  with voltage classifications of 240VAV to 660VAC.

MeK-Tronics capacitors are designed to meet performance testing outlined in EIA-456 standard Motor and UL810.