

# MOTOR RUN AC METALLIZED

## MRC SERIES

The MRC series is a range of AC metallized capacitors. These capacitors are most often used in motor run, HVAC, lighting, and power supply applications.

### FEATURES:

- .25" 4-Way Quick Connect terminals
- Pressure activated circuit interrupter
- Self healing of shorts due to dielectric breakdown
- Non-PCB dielectric fluid
- Low dissipation factor
- Leak-proof terminals

### RATINGS

#### Capacitance Range:

370 Volts – 2mfd to 50mfd

440 Volts – 2mfd to 60mfd

Tolerance:  $\pm 10\%$

### PERFORMANCE SPECIFICATIONS

Operating Temperature Range:  $-55^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$

Capacitance Change Due To Temp:  $+5\%$  to  $-7\%$

Dissipation Factor: 0.2%

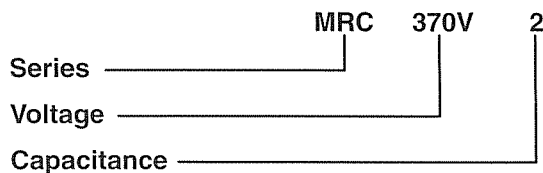
Service Life: \*150,000 hours (at Max Rating)  
94% survival

Impregnant: Dykanol XK

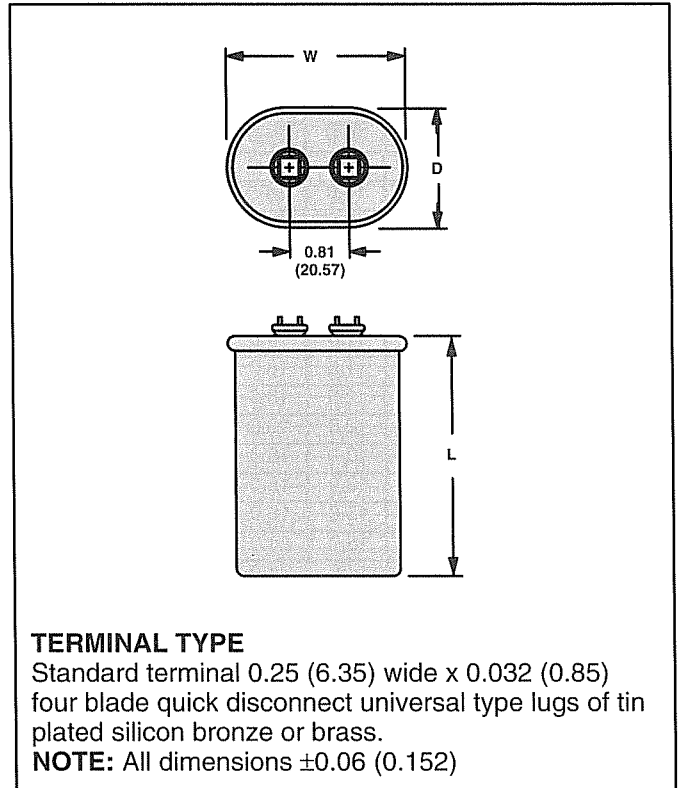
### CAPACITOR CONSTRUCTION

Metallized electrodes on both sides of paper substrate are wound with polypropylene film as a dielectric. During vacuum fluid processing the paper acts as a wick for thorough fluid impregnation to SUPPRESS CORONA and to promote long life.

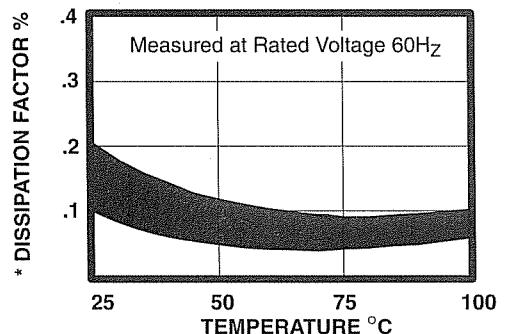
### ORDERING INFORMATION



\* EIA Standard is 60,000 hours

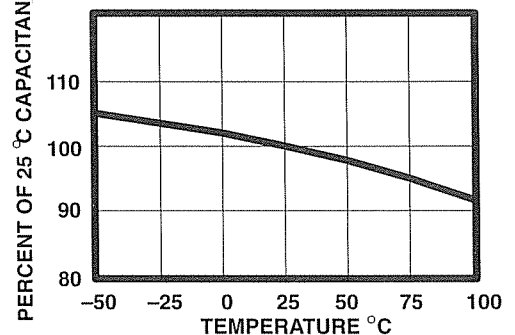


#### DISSIPATION FACTOR VS. TEMPERATURE



\* NOTE - DF values after rated voltage is applied for 24 hours.

#### CAPACITANCE VS. TEMPERATURE



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### 370VAC Ratings and Dimensions @ 70° Case Temp.

NTE Type Number	Capacitance mfd	Case Dimensions – Inch (mm)			Case Style
		W	D	L	
MRC370V2	2	2.16 (54.86)	1.31 (33.27)	2.19 (55.63)	A
MRC370V3	3	2.16 (54.86)	1.31 (33.27)	2.19 (55.63)	A
MRC370V4	4	2.16 (54.86)	1.31 (33.27)	2.19 (55.63)	A
MRC370V5	5	2.16 (54.86)	1.31 (33.27)	2.19 (55.63)	A
MRC370V6	6	2.16 (54.86)	1.31 (33.27)	2.19 (55.63)	A
MRC370V7R5	7.5	2.16 (54.86)	1.31 (33.27)	2.19 (55.63)	A
MRC370V10	10	2.16 (54.86)	1.31 (33.27)	2.69 (68.33)	A
MRC370V12R5	12.5	2.16 (54.86)	1.31 (33.27)	3.13 (79.50)	A
MRC370V15	15	2.16 (54.86)	1.31 (33.27)	3.88 (98.55)	A
MRC370V17R5	17.5	2.91 (73.91)	1.91 (48.51)	2.69 (68.33)	B
MRC370V20	20	2.91 (73.91)	1.91 (48.51)	4.25 (107.95)	B
MRC370V25	25	2.91 (73.91)	1.91 (48.51)	2.69 (68.33)	B
MRC370V30	30	2.91 (73.91)	1.91 (48.51)	3.13 (79.50)	B
MRC370V35	35	2.91 (73.91)	1.91 (48.51)	3.13 (79.50)	B
MRC370V40	40	3.66 (92.96)	1.91 (48.51)	3.88 (98.55)	B
MRC370V45	45	3.66 (92.96)	1.97 (50.04)	3.88 (98.55)	C
MRC370V50	50	3.66 (92.96)	1.97 (50.04)	3.88 (98.55)	C

### 440VAC Ratings and Dimensions @ 70° Case Temp.

NTE Type Number	Capacitance mfd	Case Dimensions – Inch (mm)			Case Style
		W	D	L	
MRC440V2	2	2.16 (54.86)	1.31 (33.27)	2.19 (55.63)	A
MRC440V3	3	2.16 (54.86)	1.31 (33.27)	2.19 (55.63)	A
MRC440V4	4	2.16 (54.86)	1.31 (33.27)	2.19 (55.63)	A
MRC440V5	5	2.16 (54.86)	1.31 (33.27)	2.19 (55.63)	A
MRC440V6	6	2.16 (54.86)	1.31 (33.27)	2.69 (68.33)	A
MRC440V7R5	7.5	2.16 (54.86)	1.31 (33.27)	3.13 (79.50)	A
MRC440V10	10	2.16 (54.86)	1.31 (33.27)	3.88 (98.55)	A
MRC440V12R5	12.5	2.16 (54.86)	1.91 (48.51)	2.69 (68.33)	B
MRC440V15	15	2.16 (54.86)	1.91 (48.51)	3.88 (98.55)	B
MRC440V17R5	17.5	2.16 (54.86)	1.91 (48.51)	3.88 (98.55)	B
MRC440V20	20	2.91 (73.91)	1.91 (48.51)	3.88 (98.55)	B
MRC440V25	25	2.91 (73.91)	1.91 (48.51)	3.88 (98.55)	B
MRC440V30	30	2.91 (73.91)	1.91 (48.51)	3.88 (98.55)	B
MRC440V35	35	2.91 (73.91)	1.97 (50.04)	3.88 (98.55)	C
MRC440V40	40	3.66 (92.96)	1.97 (50.04)	3.88 (98.55)	C
MRC440V45	45	3.66 (92.96)	1.97 (50.04)	3.88 (98.55)	C
MRC440V50	50	3.66 (92.96)	1.97 (50.04)	3.88 (98.55)	C
MRC440V55	55	3.66 (92.96)	1.97 (50.04)	4.25 (107.95)	C
MRC440V60	60	3.66 (92.96)	1.97 (50.04)	4.25 (107.95)	C