

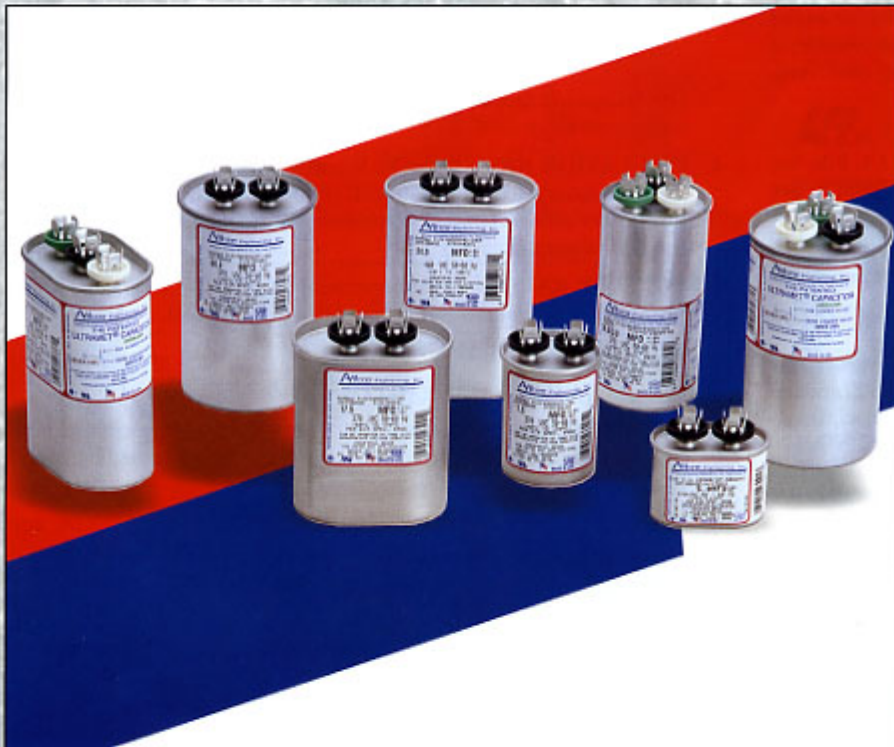
# Motor-Run Capacitors



*A Division of American Radionic, Co., Inc.*

## AC CAPACITORS

FLUID-FILLED • METALLIZED • POLYPROPYLENE



## MOTOR RUN APPLICATIONS

Headquarters: 32 Hargrove Grade, Palm Coast Industrial Park, Palm Coast, Florida USA 32137  
386-445-6000 • 800-445-6033 • Fax: 386-445-6871

Sales & Engineering: 10 Hargrove Grade, Palm Coast, Florida 32137

Manufacturing: 32 Hargrove Grade, Palm Coast, Florida 32137  
[www.americanradionic.com](http://www.americanradionic.com)

# Series V2000 & R2000

(Motor Run Capacitors)

*A metallized polypropylene dielectric capacitor encapsulated in a non-toxic, biodegradable patented viscous fluid (LG22™). The container is a metal can (either deep drawn steel or impact extruded aluminum) with a double-rolled cover which provides a leak-proof enclosure.*



UL File No.  
E133000(N) per  
UL-810 for  
10,000 AMP  
Fault Current



Approved by  
Canadian Standard  
Association –  
C22.2 NO. 190

*The capacitors are provided with a UL approved internal current interrupter designed to disconnect the capacitor element if excessive pressure should develop inside the case from misapplication.*

*The terminals are four blade "quick disconnect" surrounded by terminal insulators meeting minimum spacing requirements per UL-810 specifications.*

## Performance Characteristics

- CAPACITANCE:** 3.0uF to 100.0uF. Shall be within the specified tolerance limits of the nominal value measured at 1 KHz at 25°C.
- CAPACITANCE TOLERANCE:** ±6% and ±10%. Other tolerances available upon request.
- DISSIPATION FACTOR:** Measured at 1 KHz at 25°C shall not exceed
  - .10% (.0010) for capacitors up to 7.5uF
  - .25% (.0025) for capacitors up to 15.0uF
  - .30% (.0030) for capacitors up to 25.0uF
  - .45% (.0045) for capacitors up to 40.0uF
  - .70% (.0070) for capacitors up to 70.0uF

The dissipation factor shall not exceed .10% when measured at rated voltage, 60 Hz at 25°C.

- INSULATION RESISTANCE:** When measured at 25°C at 200 VDC (for capacitors rated up to 250 VAC) / 400 VDC (for 330-440 VAC rated capacitors) with two minute electrification, shall not be less than 100,000 megohms x mfd.
- VOLTAGE RATING:** Full temperature range – 250 VAC and 370 VAC, 50-60Hz. Other Voltage ratings available upon request.
- TEMPERATURE RANGE:** -40°C + 70°C.
- DIELECTRIC VOLTAGE-WITHSTAND TEST:**
  - The capacitors shall withstand 1.5 x rated voltage for ten seconds applied to terminals of opposite polarity. (Tests may also be performed by applying a DC voltage equal to 1.4 x AC testing voltage.)
  - The capacitors shall withstand without breakdown, 2000 VDC applied between terminals and the case.
- ACCELERATED, CYCLING LIFE TEST:**
  - The capacitors shall withstand a life test of 1.25 x rated AC voltage at 80°C for 2000 hours.
  - AFTER LIFE TEST:**
    - Maximum capacitance change when measured as specified in paragraph 1. (±3%)
    - Maximum dissipation factor when measured as specified in paragraph 3. (1.5 x Specified value per paragraph 3)
    - Minimum insulation resistance when measured as specified in paragraph 4. (100,000 megohms x mfd)

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# Series V2000

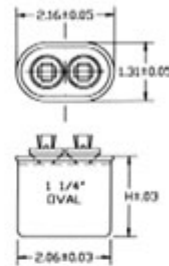
(Motor Run Capacitors – Oval Can)

## Single Value 370 VAC



Part Number	CuF	Base	Height-H
V2000/37-406 S	4.0	A	1.58"
V2000/37-405	4.0	A	2.38"
V2000/37-505 S	5.0	A	1.58"
V2000/37-505	5.0	A	2.38"
V2000/37-605	6.0	A	2.38"
V2000/37-755	7.5	A	2.38"
V2000/37-106	10.0	A	2.38"
V2000/37-1255	12.5	A	3.10"
V2000/37-156	15.0	A	3.10"
V2000/37-1755	17.5	B	3.10"
V2000/37-206	20.0	B	3.10"
V2000/37-256	25.0	B	3.10"
V2000/37-306	30.0	B	3.10"
V2000/37-356	35.0	B	3.88"
V2000/37-406	40.0	B	3.88"
V2000/37-456	45.0	B	3.88"
V2000/37-506	50.0	B	3.88"
V2000/37-556	55.0	B	3.88"
V2000/37-606	60.0	B	3.88"
V2000/37-656	65.0	C	3.88"
V2000/37-706	70.0	C	3.88"

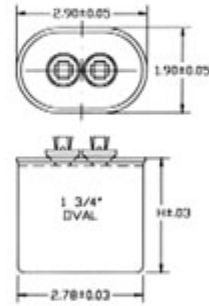
### A BASE



## Single Value 440 VAC

Part Number	CuF	Base	Height-H
V2000/44-405	4.0	A	2.38"
V2000/44-505	5.0	A	2.38"
V2000/44-755	7.5	A	2.38"
V2000/44-106	10.0	A	3.88"
V2000/44-1255	12.5	A	3.88"
V2000/44-156	15.0	A	3.88"
V2000/44-1755	17.5	B	3.88"
V2000/44-206	20.0	B	3.88"
V2000/44-256	25.0	B	3.88"
V2000/44-306	30.0	B	3.88"
V2000/44-356	35.0	B	3.88"
V2000/44-406	40.0	B	3.88"
V2000/44-456	45.0	C	3.88"
V2000/44-506	50.0	C	3.88"
V2000/44-656	65.0	C	3.88"

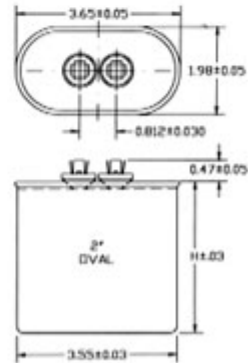
### B BASE



## Dual Value 370 VAC

Part Number	CuF	Base	Height-H
V2000/37-(505+156)	5.0+15.0	B	3.88"
V2000/37-(505+206)	5.0+20.0	B	3.88"
V2000/37-(505+256)	5.0+25.0	B	3.88"
V2000/37-(505+306)	5.0+30.0	B	3.88"
V2000/37-(505+356)	5.0+35.0	B	3.88"
V2000/37-(505+406)	5.0+40.0	B	3.88"

### C BASE



## Dual Value 440 VAC

Part Number	CuF	Base	Height-H
V2000/44-(505+156)	5.0+15.0	B	3.88"
V2000/44-(505+206)	5.0+20.0	B	3.88"
V2000/44-(505+256)	5.0+25.0	B	3.88"
V2000/44-(505+306)	5.0+30.0	B	3.88"
V2000/44-(505+356)	5.0+35.0	C	3.88"
V2000/44-(505+406)	5.0+40.0	C	3.88"

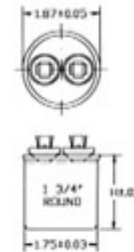
# Series R2000

(Motor Run Capacitors – Round Can)

## Single Value 370 VAC

Part Number	CuF	Base	Height-H
R2000/37-405	4.0	L	2.38"
R2000/37-505	5.0	L	2.38"
R2000/37-755	7.5	L	2.38"
R2000/37-106	10.0	L	2.38"
R2000/37-1255	12.5	L	2.38"
R2000/37-156	15.0	L	2.38"
R2000/37-1755	17.5	L	3.10"
R2000/37-206	20.0	L	3.10"
R2000/37-256	25.0	L	3.10"
R2000/37-306	30.0	L	3.10"
R2000/37-356	35.0	M	3.88"
R2000/37-406	40.0	M	3.88"
R2000/37-456	45.0	M	3.88"
R2000/37-506	50.0	M	3.88"
R2000/37-556	55.0	M	3.88"
R2000/37-606	60.0	N	3.88"
R2000/37-656	65.0	N	3.88"
R2000/37-706	70.0	N	3.88"

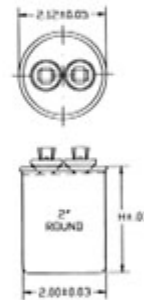
## L BASE



## Single Value 440 VAC

Part Number	CuF	Base	Height-H
R2000/44-405	4.0	L	2.38"
R2000/44-505	5.0	L	2.38"
R2000/44-755	7.5	L	2.38"
R2000/44-106	10.0	L	3.88"
R2000/44-1255	12.5	L	3.88"
R2000/44-156	15.0	L	3.88"
R2000/44-1755	17.5	L	3.88"
R2000/44-206	20.0	L	3.88"
R2000/44-256	25.0	L	3.88"
R2000/44-306	30.0	L	3.88"
R2000/44-356	35.0	M	3.88"
R2000/44-406	40.0	M	3.88"
R2000/44-456	45.0	N	3.88"
R2000/44-506	50.0	N	3.88"
R2000/44-556	55.0	N	3.88"
R2000/44-606	60.0	N	3.88"
R2000/44-656	65.0	N	3.88"
R2000/44-706	70.0	N	3.88"

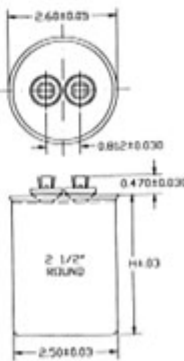
## M BASE



## Dual Value 370 VAC

Part Number	CuF	Base	Height-H
R2000/37-(505+156)	5.0+15.0	M	3.88"
R2000/37-(505+206)	5.0+20.0	M	3.88"
R2000/37-(505+256)	5.0+25.0	M	3.88"
R2000/37-(505+306)	5.0+30.0	M	3.88"
R2000/37-(505+356)	5.0+35.0	M	4.25"
R2000/37-(505+406)	5.0+40.0	M	4.25"

## N BASE



## Dual Value 440 VAC

Part Number	CuF	Base	Height-H
R2000/44-(505+156)	5.0+15.0	M	3.88"
R2000/44-(505+206)	5.0+20.0	M	3.88"
R2000/44-(505+256)	5.0+25.0	M	3.88"
R2000/44-(505+306)	5.0+30.0	M	4.25"
R2000/44-(505+356)	5.0+35.0	N	3.88"
R2000/44-(505+406)	5.0+40.0	N	3.88"



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**Standard Labeling**

AmRad Engineering Logo - (Can be Provided with Customer's Logo)

Customized Customer's Name & Part No.

Capacitance, Tolerance, Voltage Rating and Temperature Range

Refers to Lean Manufacturing "Cell" Production Line

AmRad Capacitors are UL Recognized & CSA Approved

AmRad Engineering Catalog Part No.

Bar Code ID can be Customized to Customer's Specs

Specific Reference to Application

7 Digit Serializing for Complete Traceability

Date & Time Stamped

"MADE IN USA" and the American Flag Prominently Displayed