

# Type MPF AC Motor Run Capacitors

## Oval and Round, Oil Filled, 70 °C, Metallized Polypropylene Capacitors



Complies with the EU Directive 2002/95/EC requirement restricting the use of Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent chromium (Cr(VI)), PolyBrominated Biphenyls (PBB) and PolyBrominated Diphenyl Ethers (PBDE).

Type MPF AC metallized polypropylene film dielectric capacitors offer a reliable option for alternating current applications. All devices are oil filled in metal cases with 4-prong quick disconnect terminals for easy assembly. These capacitors pack high capacitance and voltage capabilities into a small, light-weight package. The MPF is internally protected for fail-safe operation. These capacitors have extremely low DF that is ideal for AC motor-run applications.

### Highlights

- Low DF
- Protected with a pressure sensitive interrupter
- Small size and light weight
- UL E71645
- CSA 219950
- Air conditioning and refrigeration applications
- Power factor correction
- Motors

### Specifications

|                                     |                                                |
|-------------------------------------|------------------------------------------------|
| <b>Capacitance Range:</b>           | 1 to 80 $\mu$ F                                |
| <b>Voltage Ratings:</b>             | 330 Vac, 370 Vac, 440 Vac                      |
| <b>Capacitance Tolerance:</b>       | $\pm 10\%$                                     |
| <b>Operating Temperature Range:</b> | $-40^{\circ}\text{C}$ to $+70^{\circ}\text{C}$ |
| <b>Operating Frequency:</b>         | 50 to 60 Hz                                    |
| <b>Dissipation Factor:</b>          | 0.1% max @ 60 Hz                               |

### Outline Drawings

| Oval  |          |          |        |                  |
|-------|----------|----------|--------|------------------|
| Style | A        | B        | D      | Industry Type    |
| 32    | 1 5/16"  | 2 5/32"  | 13/16" | 1 1/4" Flat Oval |
| 37    | 1 29/32" | 2 29/32" | 13/16" | 1 3/4" Flat Oval |
| 38    | 1 31/32" | 3 21/32" | 13/16" | 2.0" Flat Oval   |

\*See Ratings Table for "H" dimension



| Round |        |        |        |               |
|-------|--------|--------|--------|---------------|
| Style | A      | B      | D      | Industry Type |
| 21    | 1 3/4" | 1 7/8" | 13/16" | 1 3/4" Round  |
| 23    | 2.0"   | 2 1/8" | 13/16" | 2.0" Round    |
| 24    | 2 1/2" | 2 5/8" | 13/16" | 2 1/2" Round  |

\*See Ratings Table for "H" dimension



# Type MPF AC Motor Run Capacitors

## Ratings

### Oval

| Cap<br>(µF)    | Volts<br>(Vac) | Base<br>Style | Height<br>(In.) | Catalog<br>Part Number |
|----------------|----------------|---------------|-----------------|------------------------|
| <b>370 Vac</b> |                |               |                 |                        |
| 1.0            | 370            | 32            | 2.13            | 32FD3701-F             |
| 2.0            | 370            | 32            | 2.13            | 32FD3702-F             |
| 3.0            | 370            | 32            | 2.13            | 32FD3703-F             |
| 4.0            | 370            | 32            | 2.13            | 32FD3704-F             |
| 5.0            | 370            | 32            | 2.38            | 32FD3705-F             |
| 6.0            | 370            | 32            | 2.38            | 32FD3706-F             |
| 7.5            | 370            | 32            | 2.38            | 32FD37075-F            |
| 10.0           | 370            | 32            | 2.63            | 32FD3710-F             |
| 12.5           | 370            | 32            | 3.00            | 32FD37125-F            |
| 12.5           | 370            | 37            | 2.63            | 37FD37125-F            |
| 15.0           | 370            | 37            | 2.63            | 37FD3715-F             |
| 17.5           | 370            | 37            | 2.63            | 37FD37175-F            |
| 20.0           | 370            | 37            | 2.63            | 37FD3720-F             |
| 22.5           | 370            | 37            | 2.63            | 37FD37225-F            |
| 25.0           | 370            | 37            | 2.63            | 37FD3725-F             |
| 27.5           | 370            | 38            | 3.00            | 38FD37275-F            |
| 30.0           | 370            | 37            | 3.00            | 37FD3730-F             |
| 30.0           | 370            | 38            | 3.00            | 38FD3730-F             |
| 35.0           | 370            | 37            | 3.75            | 37FD3735-F             |
| 35.0           | 370            | 38            | 3.00            | 38FD3735-F             |
| 40.0           | 370            | 37            | 3.75            | 37FD3740-F             |
| 40.0           | 370            | 38            | 3.00            | 38FD3740-F             |
| 45.0           | 370            | 37            | 3.75            | 37FD3745-F             |
| 45.0           | 370            | 38            | 3.00            | 38FD3745-F             |
| 50.0           | 370            | 38            | 3.00            | 38FD3750-F             |
| 70.0           | 370            | 38            | 3.75            | 38FD3770-F             |
| <b>440 Vac</b> |                |               |                 |                        |
| 1.0            | 440            | 32            | 2.13            | 32FB4401-F             |
| 2.0            | 440            | 32            | 2.13            | 32FB4402-F             |
| 3.0            | 440            | 32            | 2.38            | 32FB4403-F             |
| 4.0            | 440            | 32            | 2.38            | 32FB4404-F             |
| 5.0            | 440            | 32            | 2.63            | 32FB4405-F             |
| 6.0            | 440            | 32            | 2.63            | 32FB4406-F             |
| 7.5            | 440            | 32            | 2.63            | 32FB44075-F            |
| 7.5            | 440            | 37            | 2.63            | 37FB44075-F            |
| 10.0           | 440            | 32            | 3.75            | 32FB4410-F             |
| 10.0           | 440            | 37            | 2.63            | 37FB4410-F             |
| 12.5           | 440            | 37            | 2.63            | 37FB44125-F            |
| 15.0           | 440            | 37            | 2.63            | 37FB4415-F             |
| 17.5           | 440            | 37            | 2.63            | 37FB44175-F            |
| 20.0           | 440            | 37            | 3.00            | 37FB4420-F             |
| 20.0           | 440            | 38            | 3.00            | 38FB4420-F             |
| 25.0           | 440            | 37            | 3.75            | 37FB4425-F             |
| 25.0           | 440            | 38            | 3.75            | 38FB4425-F             |
| 30.0           | 440            | 38            | 3.75            | 38FB4430-F             |
| 35.0           | 440            | 37            | 4.75            | 37FB4435-F             |
| 35.0           | 440            | 38            | 3.75            | 38FB4435-F             |
| 40.0           | 440            | 37            | 4.75            | 37FB4440-F             |
| 40.0           | 440            | 38            | 3.75            | 38FB4440-F             |
| 45.0           | 440            | 38            | 3.75            | 38FB4445-F             |
| 50.0           | 440            | 38            | 3.75            | 38FB4450-F             |
| 55.0           | 440            | 38            | 4.75            | 38FB4455-F             |
| 60.0           | 440            | 38            | 4.75            | 38FB4460-F             |

### Round

| Cap<br>(µF)    | Volts<br>(Vac) | Base<br>Style | Height<br>(In.) | Catalog<br>Part Number |
|----------------|----------------|---------------|-----------------|------------------------|
| <b>330 Vac</b> |                |               |                 |                        |
| 3.0            | 330            | 23            | 2.63            | 23FD3303-F             |
| 4.0            | 330            | 23            | 2.63            | 23FD3304-F             |
| 5.0            | 330            | 23            | 2.63            | 23FD3305-F             |
| 6.0            | 330            | 23            | 2.63            | 23FD3306-F             |
| 7.0            | 330            | 23            | 2.63            | 23FD3307-F             |
| 8.0            | 330            | 23            | 2.63            | 23FD3308-F             |
| 10.0           | 330            | 23            | 2.63            | 23FD3310-F             |
| <b>370 Vac</b> |                |               |                 |                        |
| 3.0            | 370            | 21            | 2.63            | 21FD3703-F             |
| 4.0            | 370            | 21            | 2.63            | 21FD3704-F             |
| 5.0            | 370            | 21            | 2.63            | 21FD3705-F             |
| 6.0            | 370            | 21            | 2.63            | 21FD3706-F             |
| 7.0            | 370            | 21            | 2.63            | 21FD3707-F             |
| 8.0            | 370            | 21            | 2.63            | 21FD3708-F             |
| 10.0           | 370            | 21            | 2.63            | 21FD3710-F             |
| 12.5           | 370            | 21            | 2.63            | 21FD37125-F            |
| 15.0           | 370            | 21            | 2.63            | 21FD3715-F             |
| 17.5           | 370            | 21            | 2.63            | 21FD37175-F            |
| 20             | 370            | 21            | 2.63            | 21FD3720-F             |
| 25             | 370            | 21            | 3.00            | 21FD3725-F             |
| 25             | 370            | 23            | 3.00            | 23FD3725-F             |
| 30             | 370            | 21            | 3.00            | 21FD3730-F             |
| 30             | 370            | 23            | 3.00            | 23FD3730-F             |
| 35             | 370            | 21            | 3.75            | 21FD3735-F             |
| 35             | 370            | 23            | 3.00            | 23FD3735-F             |
| 40             | 370            | 21            | 3.75            | 21FD3740-F             |
| 40             | 370            | 23            | 3.00            | 23FD3740-F             |
| 45             | 370            | 23            | 3.75            | 23FD3745-F             |
| 45             | 370            | 24            | 3.00            | 24FD3745-F             |
| 50             | 370            | 23            | 3.75            | 23FD3750-F             |
| 50             | 370            | 24            | 3.00            | 24FD3750-F             |
| 55             | 370            | 23            | 3.75            | 23FD3755-F             |
| 55             | 370            | 24            | 3.00            | 24FD3755-F             |
| 60             | 370            | 23            | 3.75            | 23FD3760-F             |
| 60             | 370            | 24            | 3.00            | 24FD3760-F             |
| 65             | 370            | 24            | 3.75            | 24FD3765-F             |
| 70             | 370            | 24            | 3.75            | 24FD3770-F             |
| 80             | 370            | 24            | 4.75            | 24FD3780-F             |
| <b>440 Vac</b> |                |               |                 |                        |
| 15             | 440            | 21            | 2.63            | 21FB4415-F             |
| 20             | 440            | 21            | 3.00            | 21FB4420-F             |
| 20             | 440            | 23            | 3.00            | 23FB4420-F             |
| 22.5           | 440            | 21            | 3.00            | 21FB44225-F            |
| 22.5           | 440            | 23            | 3.00            | 23FB44225-F            |
| 25             | 440            | 21            | 3.75            | 21FB4425-F             |
| 25             | 440            | 23            | 3.00            | 23FB4425-F             |
| 30             | 440            | 23            | 3.75            | 23FB4430-F             |
| 30             | 440            | 24            | 3.00            | 24FB4430-F             |
| 35             | 440            | 23            | 3.75            | 23FB4435-F             |
| 35             | 440            | 24            | 3.00            | 24FB4435-F             |
| 40             | 440            | 23            | 3.75            | 23FB4440-F             |
| 40             | 440            | 24            | 3.75            | 24FB4440-F             |
| 45             | 440            | 24            | 3.75            | 24FB4445-F             |
| 50             | 440            | 24            | 3.75            | 24FB4450-F             |
| 55             | 440            | 24            | 3.75            | 24FB4455-F             |
| 60             | 440            | 24            | 4.75            | 24FB4460-F             |
| 70             | 440            | 24            | 4.75            | 24FB4470-F             |

## Hardware for Round and Oval Metals Cans

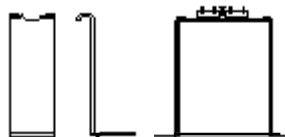
### Oval Capacitor Hardware

#### Mounting Brackets #32107

| Case Code | Bracket |
|-----------|---------|
| A         | 32107-1 |
| C         | 32107-2 |
| D         | 32107-3 |



#### End Mount Footed Bracket (2 required) #30434



#### Side Mount Footed Bracket (2 required) #31762



| H (Inches) | End Mount | Side Mount |
|------------|-----------|------------|
| 2.13       | 30434-33  | 31762-45   |
| 2.38       | 30434-37  | 31762-46   |
| 2.63       | 30434-41  | 31762-47   |
| 2.88       | 30434-45  | 31762-48   |
| 3.13       | 30434-49  | 31762-49   |
| 3.50       | 30434-55  | 31762-50   |
| 3.75       | 30434-59  | 31762-83   |
| 3.88       | 30434-61  | 31762-51   |
| 4.25       | 30434-67  | 31762-52   |
| 4.75       | 30434-75  | 31762-54   |
| 5.13       | 30434-81  | 31762-132  |
| 5.25       | 30434-83  | 31762-55   |
| 5.75       | 30434-91  | 31762-56   |
| 6.25       | 30434-99  | 31762-59   |
| 6.75       | 30434-107 | 31762-60   |
| 7.25       | 30434-115 | 31762-62   |
| 8.00       | 30434-127 | 31762-63   |
| 9.00       | 30434-143 | 31762-78   |

#### Insulating Terminal Boots UL Approved Material



#### Wrap Around Bracket

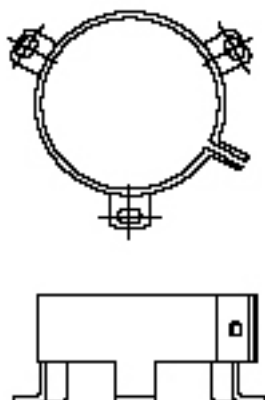
| Case Code | Bracket |
|-----------|---------|
| A         | 30393-5 |
| C         | 30393-9 |
| D         | OB3     |



### Round Capacitor Hardware

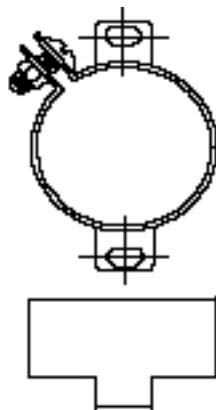
#### 3 Footed Round Mounting Bracket

| Case Code | Bracket |
|-----------|---------|
| P         | VR6B    |
| S         | VR8B    |
| T         | VR10B   |

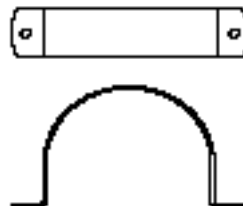


#### 2 Footed Round Mounting Bracket

| Case Code | Bracket |
|-----------|---------|
| P         | 32107-6 |
| S         | 32107-7 |
| T         | 32107-8 |



#### Wrap Around Bracket



| Case Code | Bracket |
|-----------|---------|
| P         | RB175   |
| S         | RB200   |
| T         | RB250   |

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)

[www.lifeelectronics.ru](http://www.lifeelectronics.ru)