

# 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

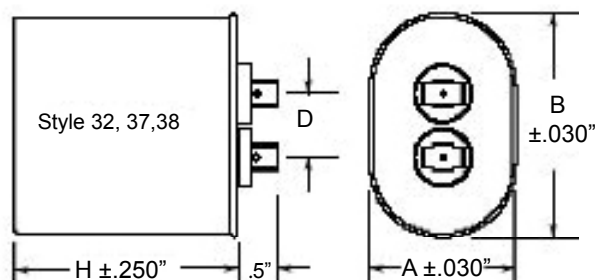
### Specifications

|                                     |                                                |
|-------------------------------------|------------------------------------------------|
| <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

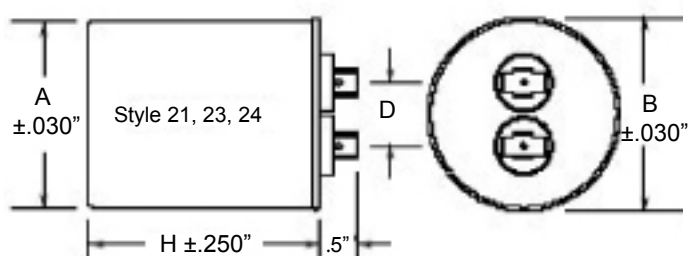
| Oval  |          |          |        |                  |
|-------|----------|----------|--------|------------------|
| Style | A        | B        | D      | Industry Type    |
| 32    | 1 5/16"  | 2 5/32"  | 13/16" | 1 1/4" Flat Oval |
| 37    | 1 29/32" | 2 29/32" | 13/16" | 1 3/4" Flat Oval |
|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

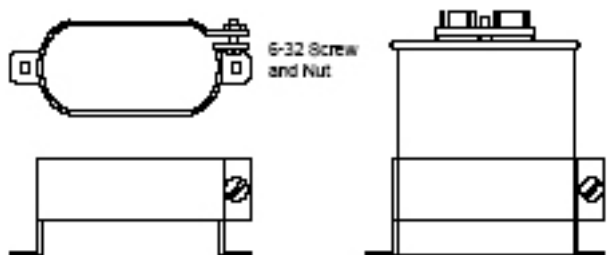
| Cap<br>(µF)    | Volts<br>(Vac) | Base<br>Style | Height<br>(In.) | Catalog<br>Part Number |
|----------------|----------------|---------------|-----------------|------------------------|
| <b>330 Vac</b> |                |               |                 |                        |
| 3.0            | 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

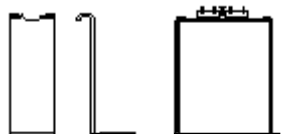
### Oval Capacitor Hardware

#### Mounting Brackets #32107

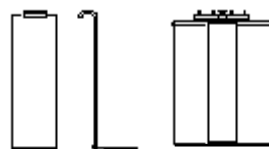
| Case Code | Bracket |
|-----------|---------|
| A         | 32107-1 |
| C         | 32107-2 |
| D         | 32107-3 |



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

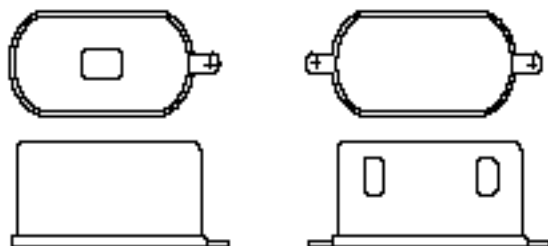


#### Side Mount Footed Bracket (2 required) #31762



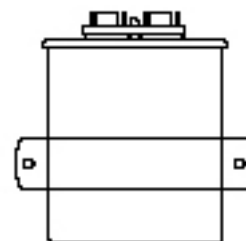
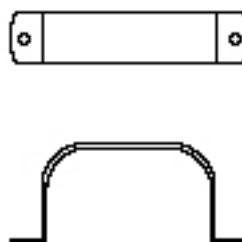
| H (Inches) | End Mount | Side Mount |
|------------|-----------|------------|
| 2.13       | 30434-33  | 31762-45   |
| 2.38       | 30434-37  | 31762-46   |
| 2.63       | 30434-41  | 31762-47   |
| 2.88       | 30434-45  | 31762-48   |
| 3.13       | 30434-49  | 31762-49   |
| 3.50       | 30434-55  | 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

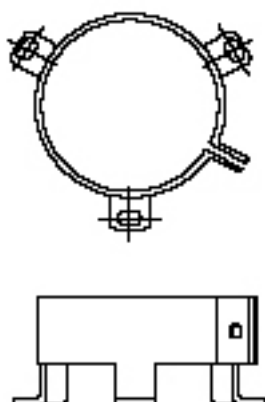
| Case Code | Bracket |
|-----------|---------|
| A         | 30393-5 |
| C         | 30393-9 |
| D         | OB3     |



### Round Capacitor Hardware

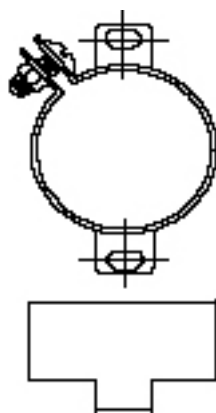
#### 3 Footed Round Mounting Bracket

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

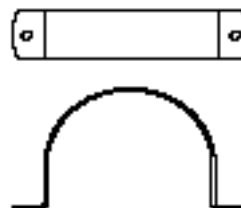


#### 2 Footed Round Mounting Bracket

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



#### Wrap Around Bracket



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

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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