Type MPF AC Motor Run Capacitors

Oval and Round, Oil Filled, 70 ºC, Metallized Polypropylene Capacitors



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.

RoHS Compliant

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).

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

Capacitance Range:	1 to 80 µF
Voltage Ratings:	330 Vac, 370 Vac, 440 Vac
Capacitance Tolerance:	±10%
Operating Temperature Range:	–40 ºC to +70 ºC
Operating Frequency:	50 to 60 Hz
Dissipation Factor:	0.1% max @ 60 Hz

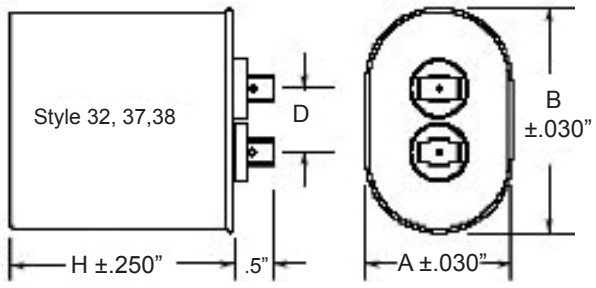
Outline Drawings

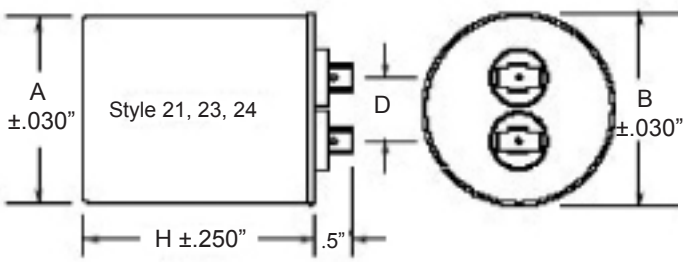
Oval				
Style	**A**	**B**	**D**	**Industry Type**
32	1 5/16"	2 5/32"	13/16"	1¼" Flat Oval
37	1 29/32"	2 29/32"	13/16"	1¾" Flat Oval
38	1 31/32"	3 21/32"	13/16"	2.0" Flat Oval

*See Ratings Table for "H" dimension

Round				
Style	**A**	**B**	**D**	**Industry Type**
21	1¾"	1⅞"	13/16"	1¾" Round
23	2.0"	2⅛"	13/16"	2.0" Round
24	2½"	2⅝"	13/16"	2½" Round

*See Ratings Table for "H" dimension





Type MPF AC Motor Run Capacitors

Ratings

Oval

Cap (µF)	Volts (Vac)	Base Style	Height (In.)	Catalog Part Number
370 Vac				
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
440 Vac				
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

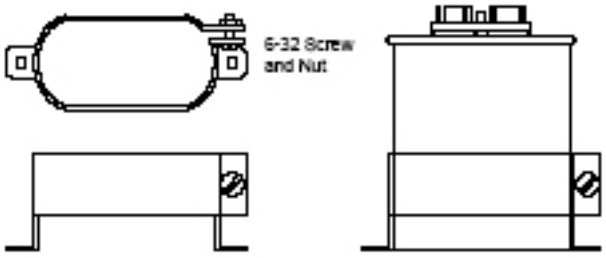
Cap (µF)	Volts (Vac)	Base Style	Height (In.)	Catalog Part Number
330 Vac				
3.0	330	23	2.63	23FD3303-F
4.0	330	23	2.63	23FD3304-F
5.0	330	23	2.63	23FD3305-F
6.0	330	23	2.63	23FD3306-F
7.0	330	23	2.63	23FD3307-F
8.0	330	23	2.63	23FD3308-F
10.0	330	23	2.63	23FD3310-F
370 Vac				
3.0	370	21	2.63	21FD3703-F
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
440 Vac				
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

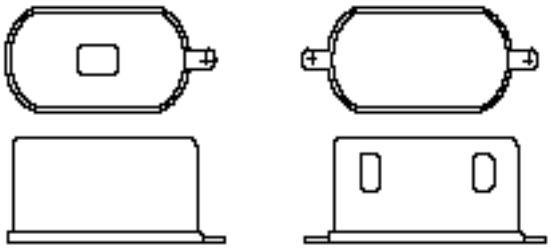
Oval Capacitor Hardware

Mounting Brackets #32107

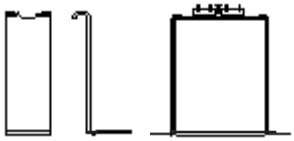
Case Code	Bracket
A	32107-1
C	32107-2
D	32107-3



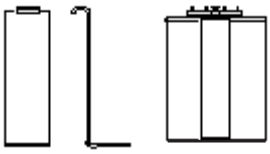
Insulating Terminal Boots **UL Approved Material**



End Mount Footed Bracket (2 required) #30434



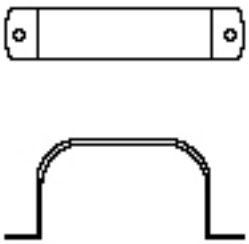
Side Mount Footed Bracket (2 required) #31762

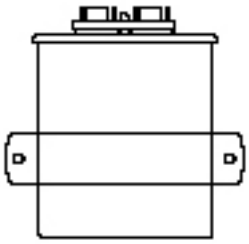


H (Inches)	End Mount	Side Mount
2.13	30434-33	31762-45
2.38	30434-37	31762-46
2.63	34434-41	31762-47
2.88	34434-45	31762-48
3.13	34434-49	31762-49
3.50	34434-55	31762-50
3.75	34434-59	31762-83
3.88	34434-61	31762-51
4.25	34434-67	31762-52
4.75	34434-75	31762-54
5.13	34434-81	31762-132
5.25	34434-83	31762-55
5.75	34434-91	31762-56
6.25	34434-99	31762-59
6.75	34434-107	31762-60
7.25	34434-115	31762-62
8.00	34434-127	31762-63
9.00	34434-143	31762-78

Wrap Around Bracket

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

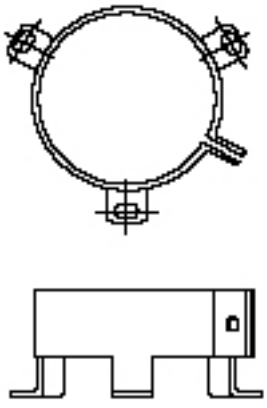




Round Capacitor Hardware

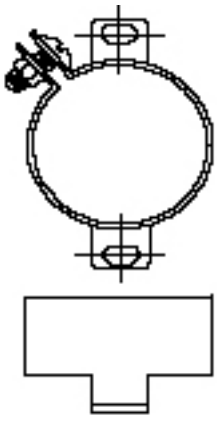
3 Footed Round Mounting Bracket

Case Code	Bracket
P	VR6B
S	VR8B
T	VR10B

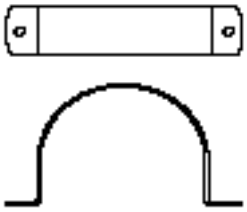


2 Footed Round Mounting Bracket

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



Wrap Around Bracket



Case Code	Bracket
P	RB175
S	RB200
T	RB250