

Type MPF, AC Motor Run Capacitors

Oval and Round, Oil Filled, 70 °C, 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.

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 μ F to 80 μ F
Capacitance Tolerance	$\pm 10\%$
Rated Voltage	330 Vac, 370 Vac and 440 Vac
Operating Temperature Range with Ripple	-40 °C to +70 °C
Rated Frequency	50 Hz and 60 Hz
Dissipation Factor	0.1% max @ 60 Hz
RoHS Compliant	

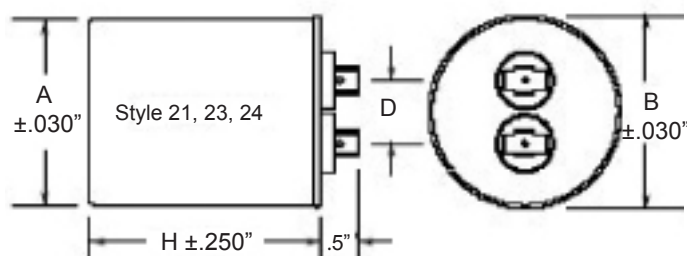
Dimensions

[Click here to view hardware](#)

Construction Details

Case Material	Aluminum or Tin Plated Steel
Encapsulation	Environmentally Safe Dielectric Fluid
Terminal Material	Tin Plated Steel

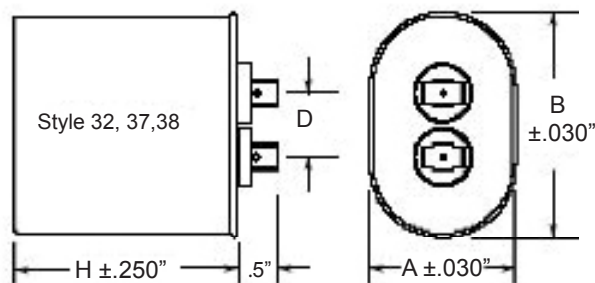
Round Case Style



See Ratings Table for "H" dimension

Round				
Style	A	B	D	Industry Type
21	1 $\frac{3}{4}$ "	1 $\frac{7}{8}$ "	13/16"	1 $\frac{3}{4}$ " Round
23	2.0"	2 $\frac{1}{8}$ "	13/16"	2.0" Round
24	2 $\frac{1}{2}$ "	2 $\frac{5}{8}$ "	13/16"	2 $\frac{1}{2}$ " Round

Oval Case Style



See Ratings Table for "H" dimension

Oval				
Style	A	B	D	Industry Type
32	1 $\frac{5}{16}$ "	2 $\frac{5}{32}$ "	13/16"	1 $\frac{1}{4}$ " Flat Oval
37	1 $\frac{29}{32}$ "	2 $\frac{29}{32}$ "	13/16"	1 $\frac{3}{4}$ " Flat Oval
38	1 $\frac{31}{32}$ "	3 $\frac{21}{32}$ "	13/16"	2.0" Flat Oval

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Oval Ratings

Cap. (μF)	Case Code	Aluminum Catalog Part Number	H (inches)	Steel Catalog Part Number*	H (inches)
370V					
1.0	32	32FD3701A-F	2.19	32FD3701-F	2.13
2.0	32	32FD3702A-F	2.19	32FD3702-F	2.13
3.0	32	32FD3703A-F	2.19	32FD3703-F	2.13
4.0	32	32FD3704A-F	2.19	32FD3704-F	2.13
5.0	32	32FD3705A-F	2.19	32FD3705-F	2.38
6.0	32	32FD3706A-F	2.19	32FD3706-F	2.38
7.5	32	32FD37075A-F	2.19	32FD37075-F	2.38
10.0	32	32FD3710A-F	2.88	32FD3710-F	2.63
12.5	32	32FD37125A-F	2.88	32FD37125-F	3.00
12.5	37	37FD37125A-F	2.38	37FD37125-F	2.63
15.0	37	37FD3715A-F	2.38	37FD3715-F	2.63
17.5	37	37FD37175A-F	2.38	37FD37175-F	2.63
20.0	37	37FD3720A-F	2.38	37FD3720-F	2.63
22.5	37	37FD37225A-F	2.38	37FD37225-F	2.63
25.0	37	37FD3725A-F	2.91	37FD3725-F	2.63
27.5	38	38FD37275A-F	2.91	38FD37275-F	3.00
30.0	37	37FD3730A-F	2.91	37FD3730-F	3.00
30.0	38	38FD3730A-F	2.91	38FD3730-F	3.00
35.0	37	37FD3735A-F	3.91	37FD3735-F	3.75
35.0	38	38FD3735A-F	2.91	38FD3735-F	3.00
40.0	37	37FD3740A-F	3.91	37FD3740-F	3.75
40.0	38	38FD3740A-F	2.91	38FD3740-F	3.00
45.0	37	37FD3745A-F	3.91	37FD3745-F	3.75
45.0	38	38FD3745A-F	2.91	38FD3745-F	3.00
50.0	38	38FD3750A-F	2.91	38FD3750-F	3.00
70.0	38	38FD3770A-F	3.91	38FD3770-F	3.75

Cap. (μF)	Case Code	Aluminum Catalog Part Number	H (inches)	Steel Catalog Part Number*	H (inches)
440V					
1.0	32	32FB4401A-F	2.19	32FB4401-F	2.13
2.0	32	32FB4402A-F	2.19	32FB4402-F	2.13
3.0	32	32FB4403A-F	2.19	32FB4403-F	2.38
4.0	32	32FB4404A-F	2.19	32FB4404-F	2.38
5.0	32	32FB4405A-F	2.19	32FB4405-F	2.63
6.0	32	32FB4406A-F	2.19	32FB4406-F	2.63
7.5	32	32FB44075A-F	2.88	32FB44075-F	2.63
7.5	37	37FB44075A-F	2.38	37FB44075-F	2.63
10.0	32	32FB4410A-F	2.88	32FB4410-F	3.75
10.0	37	37FB4410A-F	2.38	37FB4410-F	2.63
12.5	37	37FB44125A-F	2.38	37FB44125-F	2.63
15.0	37	37FB4415A-F	2.38	37FB4415-F	2.63
17.5	37	37FB44175A-F	2.91	37FB44175-F	2.63
20.0	37	37FB4420A-F	2.91	37FB4420-F	3.00
20.0	38	38FB4420A-F	2.91	38FB4420-F	3.00
25.0	37	37FB4425A-F	3.91	37FB4425-F	3.75
25.0	38	38FB4425A-F	3.91	38FB4425-F	3.75
30.0	38	38FB4430A-F	3.91	38FB4430-F	3.75
35.0	37	37FB4435A-F	4.75	37FB4435-F	4.75
35.0	38	38FB4435A-F	3.91	38FB4435-F	3.75
40.0	37	37FB4440A-F	4.75	37FB4440-F	4.75
40.0	38	38FB4440A-F	3.91	38FB4440-F	3.75
45.0	38	38FB4445A-F	3.91	38FB4445-F	3.75
50.0	38	38FB4450A-F	3.91	38FB4450-F	3.75
55.0	38	38FB4455A-F	4.75	38FB4455-F	4.75
60.0	38	38FB4460A-F	4.75	38FB4460-F	4.75

*Steel cases are not for new design. Check parametric search for product availability.

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Round Ratings

Cap. (μF)	Case Code	Aluminum Catalog Part Number	H (inches)	Steel Catalog Part Number*	H (inches)
330 V					
4.0	23	23FD3304A-F	2.38	23FD3304-F	2.63
5.0	23	23FD3305A-F	2.38	23FD3305-F	2.63
6.0	23	23FD3306A-F	2.38	23FD3306-F	2.63
7.0	23	23FD3307A-F	2.38	23FD3307-F	2.63
8.0	23	23FD3308A-F	2.38	23FD3308-F	2.63
10.0	23	23FD3310A-F	2.38	23FD3310-F	2.63
370V					
3.0	21	21FD3703A-F	2.38	21FD3703-F	2.63
4.0	21	21FD3704A-F	2.38	21FD3704-F	2.63
5.0	21	21FD3705A-F	2.38	21FD3705-F	2.63
6.0	21	21FD3706A-F	2.38	21FD3706-F	2.63
7.0	21	21FD3707A-F	2.38	21FD3707-F	2.63
8.0	21	21FD3708A-F	2.38	21FD3708-F	2.63
10.0	21	21FD3710A-F	2.38	21FD3710-F	2.63
12.5	21	21FD37125A-F	2.38	21FD37125-F	2.63
15.0	21	21FD3715A-F	2.38	21FD3715-F	2.63
17.5	21	21FD37175A-F	2.38	21FD37175-F	2.63
20.0	21	21FD3720A-F	2.38	21FD3720-F	2.63
25.0	21	21FD3725A-F	2.84	21FD3725-F	3.00
25.0	23	23FD3725A-F	2.91	23FD3725-F	3.00
30.0	21	21FD3730A-F	2.84	21FD3730-F	3.00
30.0	23	23FD3730A-F	2.91	23FD3730-F	3.00
35.0	21	21FD3735A-F	3.84	21FD3735-F	3.75
35.0	23	23FD3735A-F	2.91	23FD3735-F	3.00
40.0	21	21FD3740A-F	3.84	21FD3740-F	3.75
40.0	23	23FD3740A-F	2.91	23FD3740-F	3.00
45.0	23	23FD3745A-F	3.84	23FD3745-F	3.75
45.0	24	24FD3745A-F	2.91	24FD3745-F	3.00

Cap. (μF)	Case Code	Aluminum Catalog Part Number	H (inches)	Steel Catalog Part Number*	H (inches)
370V					
50.0	23	23FD3750A-F	3.84	23FD3750-F	3.75
50.0	24	24FD3750A-F	2.91	24FD3750-F	3.00
55.0	23	23FD3755A-F	3.84	23FD3755-F	3.75
55.0	24	24FD3755A-F	2.91	24FD3755-F	3.00
60.0	23	23FD3760A-F	3.84	23FD3760-F	3.75
60.0	24	24FD3760A-F	2.91	24FD3760-F	3.00
65.0	24	24FD3765A-F	3.91	24FD3765-F	3.75
70.0	24	24FD3770A-F	3.91	24FD3770-F	3.75
80.0	24	24FD3780A-F	4.75	24FD3780-F	4.75
440V					
15.0	21	21FB4415A-F	2.38	21FB4415-F	2.63
20.0	21	21FB4420A-F	2.84	21FB4420-F	3.00
20.0	23	23FB4420A-F	2.91	23FB4420-F	3.00
22.5	21	21FB44225A-F	2.84	21FB44225-F	3.00
22.5	23	23FB44225A-F	2.91	23FB44225-F	3.00
25.0	21	21FB4425A-F	3.84	21FB4425-F	3.75
25.0	23	23FB4425A-F	2.91	23FB4425-F	3.00
30.0	23	23FB4430A-F	3.84	23FB4430-F	3.75
30.0	24	24FB4430A-F	2.91	24FB4430-F	3.00
35.0	23	23FB4435A-F	3.84	23FB4435-F	3.75
35.0	24	24FB4435A-F	2.91	24FB4435-F	3.00
40.0	23	23FB4440A-F	3.84	23FB4440-F	3.75
40.0	24	24FB4440A-F	3.91	24FB4440-F	3.75
45.0	24	24FB4445A-F	3.91	24FB4445-F	3.75
50.0	24	24FB4450A-F	3.91	24FB4450-F	3.75
55.0	24	24FB4455A-F	3.91	24FB4455-F	3.75
60.0	24	24FB4460A-F	4.75	24FB4460-F	4.75
70.0	24	24FB4470A-F	4.75	24FB4470-F	4.75

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