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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 motorrun 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

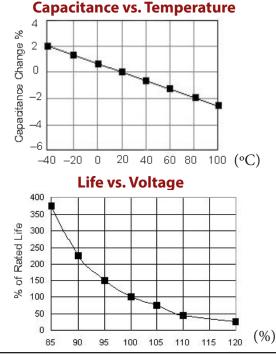
Capacitance Range	1 μF to 80 μF			
Capacitance Tolerance	± 10%			
Rated Voltage	330 Vac, 370 Vac and 440 Vac			
Operating Temperature Range with Ripple	−40 °C to +70 °C			
Rated Frequency	50 Hz and 60 Hz			
Dissipation Factor	0.1% max @ 60 Hz			
RoHS Compliant				

Service Life Objective

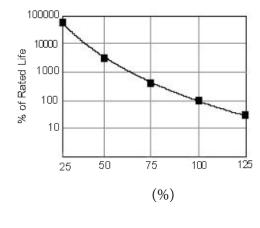
The service life objective for this series is 60,000 hours of operating life with a 94% survival rate when operated at full voltage, 60 Hz, and rated ambient temperature. AC capacitors are frequently used at voltages and ambient temperatures other than rated conditions. Service life may be estimated under specific conditions of temperature and voltage by using the curves as shown below and to the right.

Capacitance vs. Temperature

The Capacitance vs. Temperature curve may be used to determine the capacitance change as a function of temperature. Capacitance varies by no more than $\pm 3\%$ over the operating temperature range.



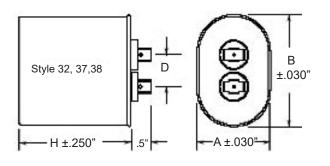
Life vs. Temperature



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Specifications

Oval Case Style



See Ratings Table for "H" dimension

Oval						
Style	Α	В	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		

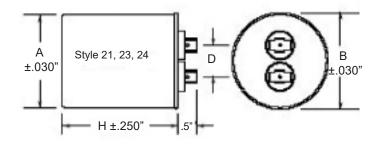
Construction Details				
Case Material	Aluminum			
Encapsulation	Enviromentally Safe Dielectric Fluid			
Terminal Material	Tin Plated Steel			

Oval Ratings

Cap. (μF)	Case Code	Aluminum Catalog Part Number	H (inches)
		370V	
1.0	32	32FD3701A-F	2.19
2.0	32	32FD3702A-F	2.19
3.0	32	32FD3703A-F	2.19
4.0	32	32FD3704A-F	2.19
5.0	32	32FD3705A-F	2.19
6.0	32	32FD3706A-F	2.19
7.5	32	32FD37075A-F	2.19
10.0	32	32FD3710A-F	2.88
12.5	32	32FD37125A-F	2.88
12.5	37	37FD37125A-F	2.38
15.0	37	37FD3715A-F	2.38
17.5	37	37FD37175A-F	2.38
20.0	37	37FD3720A-F	2.38
22.5	37	37FD37225A-F	2.38
25.0	37	37FD3725A-F	2.91
27.5	38	38FD37275A-F	2.91
30.0	37	37FD3730A-F	2.91
30.0	38	38FD3730A-F	2.91
35.0	37	37FD3735A-F	3.91
35.0	38	38FD3735A-F	2.91
40.0	37	37FD3740A-F	3.91
40.0	38	38FD3740A-F	2.91
45.0	37	37FD3745A-F	3.91
45.0	38	38FD3745A-F	2.91
50.0	38	38FD3750A-F	2.91
70.0	38	38FD3770A-F	3.91

Cap. (μF)	Case Code	Aluminum Catalog Part Number	H (inches)
		440V	
1.0	32	32FB4401A-F	2.19
2.0	32	32FB4402A-F	2.19
3.0	32	32FB4403A-F	2.19
4.0	32	32FB4404A-F	2.19
5.0	32	32FB4405A-F	2.19
6.0	32	32FB4406A-F	2.19
7.5	32	32FB44075A-F	2.88
7.5	37	37FB44075A-F	2.38
10.0	32	32FB4410A-F	2.88
10.0	37	37FB4410A-F	2.38
12.5	37	37FB44125A-F	2.38
15.0	37	37FB4415A-F	2.38
17.5	37	37FB44175A-F	2.91
20.0	37	37FB4420A-F	2.91
20.0	38	38FB4420A-F	2.91
25.0	37	37FB4425A-F	3.91
25.0	38	38FB4425A-F	3.91
30.0	38	38FB4430A-F	3.91
35.0	37	37FB4435A-F	4.75
35.0	38	38FB4435A-F	3.91
40.0	37	37FB4440A-F	4.75
40.0	38	38FB4440A-F	3.91
45.0	38	38FB4445A-F	3.91
50.0	38	38FB4450A-F	3.91
55.0	38	38FB4455A-F	4.75
60.0	38	38FB4460A-F	4.75

Round Case Style



See Ratings Table for "H" dimension

Round					
Style	Α	В	D	Industry Type	
21	13⁄4"	11%"	13/16"	1¾" Round	
23	2.0"	21⁄8"	13/16"	2.0" Round	
24	21⁄2"	25⁄8"	13/16"	21⁄2" Round	

Construction Details				
Case Material	Aluminum			
Encapsulation	Enviromentally Safe Dielectric Fluid			
Terminal Material	Tin Plated Steel			

н (inches)

Round Ratings

Cap. (μF)	Case Code	Aluminum Catalog Part Number	H (inches)	Cap. (μF)	Case / Code	Aluminum Catalog Part Number
		330 V				370V
3.0	23	23FD3303A-F	2.38	50.0	23	23FD3750A-F
4.0	23	23FD3304A-F	2.38	50.0	24	24FD3750A-F
5.0	23	23FD3305A-F	2.38	55.0	23	23FD3755A-F
6.0	23	23FD3306A-F	2.38	55.0	24	24FD3755A-F
7.0	23	23FD3307A-F	2.38	60.0	23	23FD3760A-F
8.0	23	23FD3308A-F	2.38	60.0	24	24FD3760A-F
10.0	23	23FD3310A-F	2.38	65.0	24	24FD3765A-F
		370V		70.0	24	24FD3770A-F
3.0	21	21FD3703A-F	2.38	80.0	24	24FD3780A-F
4.0	21	21FD3704A-F	2.38			440V
5.0	21	21FD3705A-F	2.38	15.0	21	21FB4415A-F
6.0	21	21FD3706A-F	2.38	20.0	21	21FB4420A-F
7.0	21	21FD3707A-F	2.38	20.0	23	23FB4420A-F
8.0	21	21FD3708A-F	2.38	22.5	21	21FB44225A-F
10.0	21	21FD3710A-F	2.38	22.5	23	23FB44225A-F
2.5	21	21FD37125A-F	2.38	25.0	21	21FB4425A-F
15.0	21	21FD3715A-F	2.38	25.0	23	23FB4425A-F
17.5	21	21FD37175A-F	2.38	30.0	23	23FB4430A-F
20.0	21	21FD3720A-F	2.38	30.0	24	24FB4430A-F
25.0	21	21FD3725A-F	2.84	35.0	23	23FB4435A-F
25.0	23	23FD3725A-F	2.91	35.0	24	24FB4435A-F
30.0	21	21FD3730A-F	2.84	40.0	23	23FB4440A-F
30.0	23	23FD3730A-F	2.91	40.0	24	24FB4440A-F
35.0	21	21FD3735A-F	3.84	45.0	24	24FB4445A-F
35.0	23	23FD3735A-F	2.91	50.0	24	24FB4450A-F
40.0	21	21FD3740A-F	3.84	55.0	24	24FB4455A-F
40.0	23	23FD3740A-F	2.91	60.0	24	24FB4460A-F
45.0	23	23FD3745A-F	3.84	70.0	24	24FB4470A-F
45.0	24	24FD3745A-F	2.91			

	50.0	23		
2.38		25	23FD3750A-F	3.84
	50.0	24	24FD3750A-F	2.91
2.38	55.0	23	23FD3755A-F	3.84
2.38	55.0	24	24FD3755A-F	2.91
2.38	60.0	23	23FD3760A-F	3.84
2.38	60.0	24	24FD3760A-F	2.91
2.38	65.0	24	24FD3765A-F	3.91
	70.0	24	24FD3770A-F	3.91
2.38	80.0	24	24FD3780A-F	4.75
2.38			440V	
2.38	15.0	21	21FB4415A-F	2.38
2.38	20.0	21	21FB4420A-F	2.84
2.38	20.0	23	23FB4420A-F	2.91
2.38	22.5	21	21FB44225A-F	2.84
2.38	22.5	23	23FB44225A-F	2.91
2.38	25.0	21	21FB4425A-F	3.84
2.38	25.0	23	23FB4425A-F	2.91
2.38	30.0	23	23FB4430A-F	3.84
2.38	30.0	24	24FB4430A-F	2.91
2.84	35.0	23	23FB4435A-F	3.84
2.91	35.0	24	24FB4435A-F	2.91
2.84	40.0	23	23FB4440A-F	3.84
2.91	40.0	24	24FB4440A-F	3.91
3.84	45.0	24	24FB4445A-F	3.91
2.91	50.0	24	24FB4450A-F	3.91
3.84	55.0	24	24FB4455A-F	3.91
2.91	60.0	24	24FB4460A-F	4.75
3.84	70.0	24	24FB4470A-F	4.75
2.91				

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