AFC Series

Component Recognized by
UL to US and Canadian Requirements



AFC Series

- AC feedthrough capacitors
- Current ratings from 10 to 300A
- Designed to meet the very stringent safety requirements of EN132400 class Y2 including the 5000V pulse test
- Custom versions available

Ordering Information

10 AFC6 – A

- A — Filter ID, See Table
- AFC6 — AFC Series Screw Terminals
- 10 — Current Rating *(in A)*

Filter Options / Specifications

Filter ID	Value (nF)	Max. Leakage Current (mA)*
A	2.2	0.21
B	4.7	0.44
C	10	0.94
F	33	3.1
G	47	4.4
H	100	9.4
K	220	21
N	470	44
P	1000	94

*@250VAC 60 Hz

Specifications

Rated Voltage (max): 250 VAC

Operating Frequency: 50/60 Hz

Rated Current: 10 to 300A

Test Voltage (two seconds): 5000 VDC

Capacitor Class (EN132400): Designed to meet Y2

Pulse Test (EN132400): 5000V Peak

Insulation Resistance (within 1 minute):
For C < 0.33µF, R> 15000MΩ
For C > 0.33µF, RC(MΩ*µF)>5000s

Operating Ambient Temperature Range (at rated current I_r):
10 to 200A: -40°C to +60°C
250 & 300A: -40°C to +40°C

Category Temperature Range: -40°C to +85°C

Current Derating Above Ambient:
10-200A: For temperature, θ $I_\theta = IR\sqrt{(85-\theta)/25}$
250 & 300A: For temp., θ $I_\theta = IR\sqrt{(85-\theta)/45}$

Climatic Category: 40/85/21

MTBF: > 10 million hours typical

Insulating Materials Flammability Rating: UL94V-0

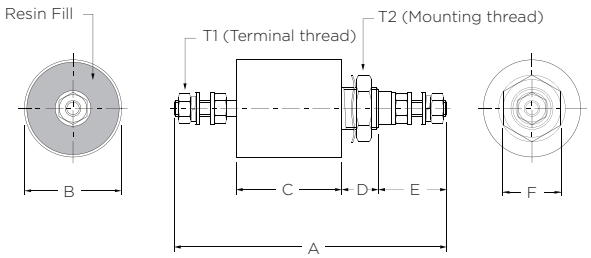
Case & Terminal Material: Nickel Plated Brass

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

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Case Style



T1 – Terminal Thread

Part No.	Thread	Torque max. in.lb.
10AFC6-A/B	M3	4
16AFC6-B/C/G/H 20AFC6-B 32AFC6-B/C/F/G/H	M4	11
63AFC6-C/G/H	M6	22
100AFC6-G/H/K/N	M8	44
200AFC6-H/K/N/P	M10	71
250AFC6-H/K/N/P	M12	97
300AFC6-H/K/N/P	M16	177

T2 – Mounting Thread

Part No.	Thread	Torque max. in.lb.
10AFC6-A/B	M10 x 1	27
16AFC6-B/C/G 20AFC6-B 32AFC6-B/C/G/F	M12 x 1	35
16AFC6-H 32AFC6-H 63AFC6-C/G/H	M16 x 1	62
100AFC6-G/H	M20 x 1	89
100AFC6-K/N 200AFC6-H/K	M24 x 1	124
200AFC6-N/P	M27 x 1.5	142

Case Dimensions

Part No.	A ± .04 *1*	B ± .02 *0.5*	C ± .08 *2*	D ± .04 *1*	E ± .08 *2*	F (max)
10AFC6-A 10AFC6-B	**2.24** *57*	**0.59** *15*	**0.71** *18*	**0.39** *10*	**0.63** *16*	**0.51** *13*
16AFC6-B 16AFC6-C	**2.48** *63*	**0.79** *20*	**0.71** *18*	**0.47** *12*	**0.71** *18*	**0.67** *17*
16AFC6-G	**2.95** *75*	**0.79** *20*	**1.18** *30*	**0.47** *12*	**0.71** *18*	**0.67** *17*
16AFC6-H	**3.03** *77*	**0.98** *25*	**1.18** *30*	**0.55** *14*	**0.71** *18*	**0.87** *22*
20AFC6-B	**2.48** *63*	**0.79** *20*	**0.71** *18*	**0.47** *12*	**0.71** *18*	**0.67** *17*
32AFC6-B 32AFC6-C	**2.48** *63*	**0.79** *20*	**0.71** *18*	**0.47** *12*	**0.71** *18*	**0.67** *17*
32AFC6-F 32AFC6-G	**2.95** *75*	**0.79** *20*	**1.18** *30*	**0.47** *12*	**0.71** *18*	**0.67** *17*
32AFC6-H	**3.03** *77*	**0.98** *25*	**1.18** *30*	**0.55** *14*	**0.71** *18*	**0.87** *22*
63AFC6-C 63AFC6-G	**3.78** *96*	**0.98** *25*	**1.18** *30*	**0.55** *14*	**1.02** *26*	**0.87** *22*
63AFC6-H	**3.78** *96*	**0.98** *25*	**1.18** *30*	**0.55** *14*	**1.02** *26*	**0.87** *22*
100AFC6-G 100AFC6-H	**4.45** *113*	**1.26** *32*	**1.30** *33*	**0.63** *16*	**1.26** *32*	**1.06** *27*
100AFC6-K	**4.57** *116*	**1.50** *38*	**1.30** *33*	**0.75** *19*	**1.26** *32*	**1.06** *27*
200AFC6-H 200AFC6-K	**5.24** *133*	**1.50** *38*	**1.97** *50*	**0.75** *19*	**1.26** *32*	**1.06** *27*
200AFC6-N 200AFC6-P	**5.12** *130*	**1.50** *38*	**1.30** *33*	**0.75** *19*	**1.57** *40*	**1.06** *27*
250AFC6-H 250AFC6-K	**5.79** *147*	**2.13** *54*	**1.97** *50*	**0.75** *19*	**1.57** *40*	**1.57** *40*
250AFC6-N 250AFC6-P	**5.83** *148*	**2.13** *54*	**1.65** *42*	**0.75** *19*	**1.81** *46*	**1.57** *40*
300AFC6-H 300AFC6-K	**6.30** *160*	**2.13** *54*	**2.13** *54*	**0.75** *19*	**1.81** *46*	**1.57** *40*
300AFC6-N 300AFC6-P	**5.83** *148*	**2.13** *54*	**1.65** *42*	**0.75** *19*	**1.81** *46*	**1.57** *40*

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Available Part Numbers

10AFC6-A	32AFC6-H	200AFC6-P
10AFC6-B	63AFC6-C	250AFC6-H
16AFC6-B	63AFC6-G	250AFC6-K
16AFC6-C	63AFC6-H	250AFC6-N
16AFC6-G	100AFC6-H	250AFC6-P
16AFC6-H	100AFC6-H	300AFC6-H
20AFC6-B	100AFC6-K	300AFC6-K
32AFC6-B	100AFC6-N	300AFC6-N
32AFC6-C	200AFC6-H	300AFC6-P
32AFC6-F	200AFC6-K	
32AFC6-G	200AFC6-N	

Performance Data

Typical Insertion Loss — Line to Ground in 50 Ohm circuit

Filter ID	Frequency – MHz							
	0.01	0.03	0.1	0.3	1	10	100	1000
A	-	-	-	-	-	8	38	45
B	-	-	-	-	-	14	43	60
C	-	-	-	-	3	21	45	70
F	-	-	-	4	12	30	48	90
G	-	-	2	6	15	34	50	90
H	-	2	5	11	20	40	65	90
K	-	4	11	18	27	45	85	90
N	6	9	16	22	33	33	90	90
P	10	15	22	30	40	42	90	90

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