Type SF Motor-Run and Power Supply Capacitors

Oil Filled/Impregnated, AC Rated, Metallized Polypropylene Capacitors

Type SF, AC rated metallized polypropylene capacitors provide starting torque and power factor correction for split phase motors typically used in refrigeration and air conditioning motor-run applications. Type SF also may be used to provide noise suppression, voltage regulation and line current reduction in power supply applications.

Highlights

- Self healing
- Fault current protection up to 10,000 amps AFC
- Low energy consumption
- 4 - tine, 1/4" quick connect lug terminals are standard
- Meets EIA Standard EIA-456-A
- UL recognized File Number E71645
- CSA File Number 223507

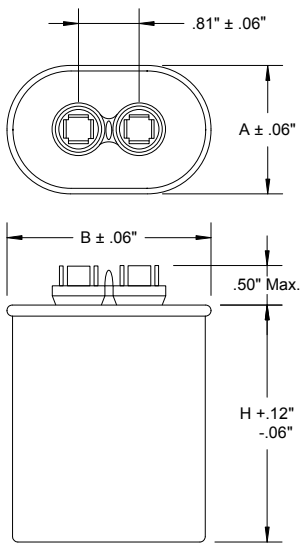
Specifications

Capacitance Range	5.0 µF to 120.0 µF
Capacitance Tolerance	±10% standard, ± 6% and ±3% available
Rated Voltage	240 Vac to 660 Vac
Operating Temperature Range with Ripple	–40 ºC to 70 ºC standard, 90 ºC available
Dissipation Factor	<0.1%
Service Life Objective	60,000 h with 94% survival rate
RoHS Compliant	

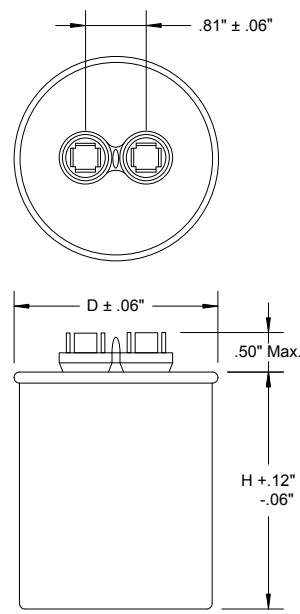
Dimensions

Click here to view hardware

Oval Case Style



Round Case Style



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

Note: The capacitor's safety pressure interrupter is designed to disconnect the capacitor element as the cover expands upward due to gas pressure build up. Catastrophic failure may result if movement of the cover and or terminals are restricted. Rigid bus bars are not recommended as they may restrict movement of the cover or terminals. Customers are advised to provide at least 0.5" clearance above the cover to allow for its expansion.

	Dimensions (Inches)		
Case Code	**A**	**B**	**H**
A	1.31	2.16	See Ratings Table
B	1.56	2.69	
C	1.91	2.91	
D	1.97	3.66	

Case Code	D (Inches)	H
P	1.87	See Ratings Table
S	2.12	
T	2.62	

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Part Numbering System

SF	C	37	T	35	K	291	B	-F
Series	**Case**	**AC Volt**	**Case Material**	**Cap**	**Tol. ±%**	**Can Height**	**VAR**	**RoHS**
SF	**A** = 1 1/4" Oval	**24** = 240 Vac	**T** = Aluminum	**7** = 7.0 µF	**L** = ±3%	**238** = 2.38"	**A** = 2 way 70ºC	**Compliant**
	B = 1 1/2 Oval	**37** = 370 Vac	w/steel cover	**35** = 35.0 µF	**H** = ±6%	**291** = 2.91"	**B** = 4 way 70 ºC	**-F** = Compliant
	C = 1 3/4" Oval	**44** = 440 Vac	**S** = Steel		**K** = ±10%	**388** = 3.88"	**C** = 2 way 90 ºC	**Blank** = Not
	D = 2.0" Oval	**66** = 660 Vac				**475** = 4.75"	**D** = 4 way 90 ºC	Compliant
	P = 1 3/4" Round					**488** = 4.88"	**E** = Dual 2,3,4 70 ºC	
	S = 2.0" Round						**F** = Forks 70 ºC	
	T = 2 1/2" Round						**G** = Forks 90 ºC	
							H = Forks 100 ºC	
							J = Forks, 70 ºC Res.	
							K = Forks, 90 ºC Res.	
							L = Forks 100 ºC Res.	
							Z = Other	

Options

Capacitors in aluminum cases with mounting studs, are available upon request.

Tighter capacitance tolerances such as ±3% or ±6% are available.

+90 °C ratings are available for HID lighting and power supply applications.

Discharge resistors are available.

Special terminal lugs such as 2 tines plus 1 fork lug are available.

Dual capacitance values are available for 370 Vac and 440 Vac applications.

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

Type SF Motor-Run and Power Supply Capacitors

Oil Filled/Impregnated, AC Rated, Metallized Polypropylene Capacitors

Oval Ratings

Cap. (µF)	Case Code	Aluminum Catalog Part Number	H (inches)	Steel Catalog Part Number*	H (inches)
240V					
4.0	A	SFA24T4K219B-F	2.19	SFA24S4K219B-F	2.19
5.0	A	SFA24T5K219B-F	2.19	SFA24S5K219B-F	2.19
6.0	A	SFA24T6K219B-F	2.19	SFA24S6K219B-F	2.19
7.5	A	SFA24T7.5K219B-F	2.19	SFA24S7.5K219B-F	2.19
10.0	A	SFA24T10K219B-F	2.19	SFA24S10K219B-F	2.19
15.0	A	SFA24T15K288B-F	2.88	SFA24S15K263B-F	2.63
20.0	A	SFA24T20K288B-F	2.88	SFA24S20K300B-F	3.00
25.0	C	SFC24T25K291B-F	2.91	SFC24S25K263B-F	2.63
30.0	C	SFC24T30K291B-F	2.91	SFC24S30K263B-F	2.63
35.0	C	SFC24T35K291B-F	2.91	SFC24S35K263B-F	2.63
40.0	C	SFC24T40K291B-F	2.91	SFC24S40K303B-F	3.03
45.0	C	SFC24T45K291B-F	2.91	SFC24S45K303B-F	3.03
50.0	C	SFC24T50K291B-F	2.91	SFC24S50K303B-F	3.03
60.0	C	SFC24T60K391B-F	3.91	SFC24S60K391B-F	3.91
70.0	C	SFC24T70K391B-F	3.91	SFC24S70K391B-F	3.91
370V					
2.0	A	SFA37T2K219B-F	2.19	SFA37S2K219B-F	2.19
2.0	A	SFA37T2K156B-F	1.56	SFA37S2K156B-F	1.56
3.0	A	SFA37T3K219B-F	2.19	SFA37S3K219B-F	2.19
3.0	A	SFA37T3K156B-F	1.56	SFA37S3K156B-F	1.56
4.0	A	SFA37T4K219B-F	2.19	SFA37S4K219B-F	2.19
4.0	A	SFA37T4K156B-F	1.56	SFA37S4K156B-F	1.56
5.0	A	SFA37T5K219B-F	2.19	SFA37S5K219B-F	2.19
5.0	A	SFA37T5K156B-F	1.56	SFA37S5K156B-F	1.56
6.0	A	SFA37T6K219B-F	2.19	SFA37S6K219B-F	2.19
6.0	A	SFA37T6K156B-F	1.56	SFA37S6K156B-F	1.56
7.5	A	SFA37T7.5K219B-F	2.19	SFA37S7.5K219B-F	2.19
10.0	A	SFA37T10K288B-F	2.88	SFA37S10K288B-F	2.88
12.5	A	SFA37T12.5K288B-F	2.88	SFA37S12.5K288B-F	2.88
15.0	A	SFA37T15K288B-F	2.88	SFA37S15K288B-F	2.88
17.5	C	SFC37T17.5K291B-F	2.91	SFC37S17.5K291B-F	2.91
20.0	C	SFC37T20K291B-F	2.91	SFC37S20K291B-F	2.91
20.0	A	SFA37T20K388B-F	3.88	SFA37S20K375B-F	3.75
25.0	C	SFC37T25K291B-F	2.91	SFC37S25K291B-F	2.91
30.0	C	SFC37T30K291B-F	2.91	SFC37S30K291B-F	2.91
35.0	C	SFC37T35K291B-F	2.91	SFC37S35K291B-F	2.91
40.0	C	SFC37T40K391B-F	3.91	SFC37S40K391B-F	3.91
45.0	C	SFC37T45K391B-F	3.91	SFC37S45K391B-F	3.91
50.0	C	SFC37T50K391B-F	3.91	SFC37S50K391B-F	3.91
440V					
2.0	A	SFA44T2K219B-F	2.19	SFA44S2K203B-F	2.03
2.0	A	SFA44T2K156B-F	1.56	SFA44S2K156B-F	1.56

Cap. (µF)	Case Code	Aluminum Catalog Part Number	H (inches)	Steel Catalog Part Number*	H (inches)
440V					
3.0	A	SFA44T3K219B-F	2.19	SFA44S3K209B-F	2.09
3.0	A	SFA44T3K156B-F	1.56	SFA44S3K156B-F	1.56
4.0	A	SFA44T4K219B-F	2.19	SFA44S4K209B-F	2.09
4.0	A	SFA44T4K156B-F	1.56	SFA44S4K156B-F	1.56
5.0	A	SFA44T5K219B-F	2.19	SFA44S5K219B-F	2.19
6.0	A	SFA44T6K288B-F	2.88	SFA44S6K288B-F	2.88
7.5	A	SFA44T7.5K288B-F	2.88	SFA44S7.5K288B-F	2.88
10.0	A	SFA44T10K388B-F	3.88	SFA44S10K375B-F	3.75
12.5	A	SFA44T12.5K388B-F	3.88	SFA44S12.5K375B-F	3.75
12.5	C	SFC44T12.5K291B-F	2.91	SFC44S12.5K291B-F	2.91
15.0	A	SFA44T15K388B-F	3.88	SFA44S15K375B-F	3.75
15.0	C	SFC44T15K291B-F	2.91	SFC44S15K291B-F	2.91
17.5	C	SFC44T17.5K291B-F	2.91	SFC44S17.5K291B-F	2.91
20.0	C	SFC44T20K391B-F	3.91	SFC44S20K391B-F	3.91
25.0	C	SFC44T25K391B-F	3.91	SFC44S25K391B-F	3.91
30.0	C	SFC44T30K391B-F	3.91	SFC44S30K391B-F	3.91
35.0	D	SFD44T35K391B-F	3.91	SFD44S35K391B-F	3.91
40.0	D	SFD44T40K391B-F	3.91	SFD44S40K391B-F	3.91
45.0	D	SFD44T45K391B-F	3.91	SFD44S45K391B-F	3.91
50.0	D	SFD44T50K391B-F	3.91	SFD44S50K391B-F	3.91
55.0	D	SFD44T55K391B-F	3.91	SFD44S55K391B-F	3.91
60.0	D	SFD44T60K391B-F	3.91	SFD44S60K391B-F	3.91
660V					
1.0	A	SFA66T1K156B-F	1.56	SFA66S1K156B-F	1.56
1.0	A	SFA66T1K219B-F	2.19	SFA66S1K219B-F	2.19
2.0	A	SFA66T2K156B-F	1.56	SFA66S2K156B-F	1.56
2.0	A	SFA66T2K219B-F	2.19	SFA66S2K219B-F	2.19
3.0	A	SFA66T3K288B-F	2.88	SFA66S3K288B-F	2.88
4.0	A	SFA66T4K288B-F	2.88	SFA66S4K288B-F	2.88
5.0	A	SFA66T5K388B-F	3.88	SFA66S5K375B-F	3.75
6.0	A	SFA66T6K388B-F	3.88	SFA66S6K375B-F	3.75
8.0	A	SFA66T8K475B-F	4.75	SFA66S8K475B-F	4.75
8.0	C	SFC66T8K291B-F	2.91	SFC66S8K291B-F	2.91
10.0	A	SFA66T10K475B-F	4.75	SFA66S10K475B-F	4.75
10.0	C	SFC66T10K291B-F	2.91	SFC66S10K291B-F	2.91
12.0	C	SFC66T12K391B-F	3.91	SFC66S12K391B-F	3.91
15.0	C	SFC66T15K391B-F	3.91	SFC66S15K391B-F	3.91
18.0	C	SFC66T18K391B-F	3.91	SFC66S18K391B-F	3.91
20.0	D	SFD66T20K391B-F	3.91	SFD66S20K391B-F	3.91
25.0	D	SFD66T25K391B-F	3.91	SFD66S25K391B-F	3.91
30.0	D	SFD66T30K391B-F	3.91	SFD66S30K391B-F	3.91
35.0	D	SFD66T35K475B-F	4.75	SFD66S35K491B-F	4.91
40.0	D	SFD66T40K475B-F	4.75	SFD66S40K491B-F	4.91

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

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Oil Filled/Impregnated, AC Rated, Metallized Polypropylene Capacitors

Round Ratings

Cap. (µF)	Case Code	Aluminum Catalog Part Number	H (inches)	Steel Catalog Part Number*	H (inches)
370V					
2.0	P	SFP37T2K238B-F	2.38	SFP37S2K238B-F	2.38
3.0	P	SFP37T3K238B-F	2.38	SFP37S3K238B-F	2.38
4.0	P	SFP37T4K238B-F	2.38	SFP37S4K238B-F	2.38
5.0	P	SFP37T5K238B-F	2.38	SFP37S5K238B-F	2.38
6.0	P	SFP37T6K238B-F	2.38	SFP37S6K238B-F	2.38
7.5	P	SFP37T7.5K238B-F	2.38	SFP37S7.5K238B-F	2.38
10.0	P	SFP37T10K238B-F	2.38	SFP37S10K238B-F	2.38
12.5	P	SFP37T12.5K238B-F	2.38	SFP37S12.5K238B-F	2.38
15.0	P	SFP37T15K238B-F	2.38	SFP37S15K238B-F	2.38
17.5	P	SFP37T17.5K238B-F	2.38	SFP37S17.5K238B-F	2.38
20.0	P	SFP37T20K238B-F	2.38	SFP37S20K238B-F	2.38
25.0	P	SFP37T25K284B-F	2.84	SFP37S25K288B-F	2.88
30.0	P	SFP37T30K284B-F	2.84	SFP37S30K288B-F	2.88
35.0	S	SFS37T35K291B-F	2.91	SFS37S35K288B-F	2.88
40.0	S	SFS37T40K291B-F	2.91	SFS37S40K288B-F	2.88
45.0	S	SFS37T45K384B-F	3.84	SFS37S45K375B-F	3.75
50.0	S	SFS37T50K384B-F	3.84	SFS37S50K375B-F	3.75
55.0	S	SFS37T55K384B-F	3.84	SFS37S55K375B-F	3.75
60.0	T	SFT37T60K291B-F	2.91	SFT37S60K303B-F	3.03
65.0	T	SFT37T65K291B-F	2.91	SFT37S65K303B-F	3.03
70.0	T	SFT37T70K291B-F	2.91	SFT37S70K303B-F	3.03
75.0	T	SFT37T75K391B-F	3.91	SFT37S75K391B-F	3.91
80.0	T	SFT37T80K391B-F	3.91	SFT37S80K391B-F	3.91
90.0	T	SFT37T90K475B-F	4.75	SFT37S90K475B-F	4.75
100.0	T	SFT37T100K475B-F	4.75	SFT37S100K475B-F	4.75
440V					
2.0	P	SFP44T2K238B-F	2.38	SFP44S2K238B-F	2.38
3.0	P	SFP44T3K238B-F	2.38	SFP44S3K238B-F	2.38
4.0	P	SFP44T4K238B-F	2.38	SFP44S4K238B-F	2.38
5.0	P	SFP44T5K238B-F	2.38	SFP44S5K238B-F	2.38
6.0	P	SFP44T6K238B-F	2.38	SFP44S6K238B-F	2.38
7.5	P	SFP44T7.5K238B-F	2.38	SFP44S7.5K238B-F	2.38
10.0	P	SFP44T10K238B-F	2.38	SFP44S10K238B-F	2.38
12.5	P	SFP44T12.5K238B-F	2.38	SFP44S12.5K238B-F	2.38
15.0	P	SFP44T15K284B-F	2.84	SFP44S15K288B-F	2.88
17.5	P	SFP44T17.5K284B-F	2.84	SFP44S17.5K288B-F	2.88
20.0	P	SFP44T20K284B-F	2.84	SFP44S20K288B-F	2.88
25.0	S	SFS44T25K291B-F	2.91	SFS44S25K288B-F	2.88
30.0	S	SFS44T30K291B-F	2.91	SFS44S30K288B-F	2.88
35.0	T	SFT44T35K291B-F	2.91	SFT44S35K303B-F	3.03
40.0	T	SFT44T40K391B-F	3.91	SFT44S40K391B-F	3.91
45.0	T	SFT44T45K391B-F	3.91	SFT44S45K391B-F	3.91
50.0	T	SFT44T50K391B-F	3.91	SFT44S50K391B-F	3.91
55.0	T	SFT44T55K391B-F	3.91	SFT44S55K391B-F	3.91
60.0	T	SFT44T60K475B-F	4.75	SFT44S60K475B-F	4.75
660V					
2.0	P	SFP66T2K238B-F	2.38	SFP66S2K238B-F	2.38
3.0	P	SFP66T3K238B-F	2.38	SFP66S3K238B-F	2.38
5.0	P	SFP66T5K238B-F	2.38	SFP66S5K238B-F	2.38
7.5	P	SFP66T7.5K284B-F	2.84	SFP66S7.5K288B-F	2.88
10.0	P	SFP66T10K284B-F	2.84	SFP66S10K288B-F	2.88
12.5	S	SFS66T12.5K291B-F	2.91	SFS66S12.5K288B-F	2.88
15.0	S	SFS66T15K384B-F	3.84	SFS66S15K375B-F	3.75
17.5	T	SFT66T17.5K391B-F	3.91	SFT66S17.5K391B-F	3.91
20.0	T	SFT66T20K391B-F	3.91	SFT66S20K391B-F	3.91
25.0	T	SFT66T25K475B-F	4.75	SFT66S25K491B-F	4.91
30.0	T	SFT66T30K475B-F	4.75	SFT66S30K491B-F	4.91
35.0	T	SFT66T35K475B-F	4.75	SFT66S35K491B-F	4.91
40.0	T	SFT66T40K475B-F	4.75	SFT66S40K491B-F	4.91

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

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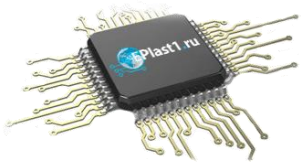
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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