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

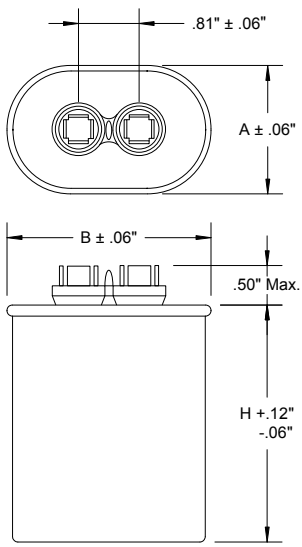
Specifications

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	

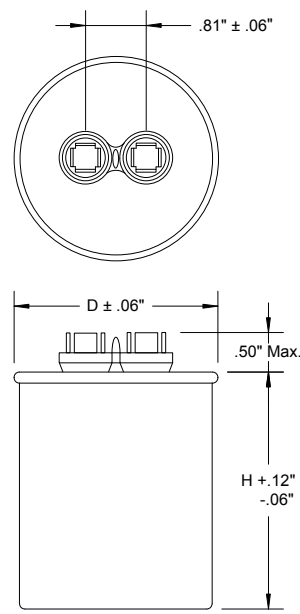
Dimensions

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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LifeElectronics
Живое партнерство

ООО «ЛайфЭлектроникс» **“LifeElectronics” LLC**

ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- *Конкурентоспособные цены и скидки постоянным клиентам.*
- *Специальные условия для постоянных клиентов.*
- *Подбор аналогов.*
- *Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.*

- *Приемлемые сроки поставки, возможна ускоренная поставка.*
- *Доставку товара в любую точку России и стран СНГ.*
- *Комплексную поставку.*
- *Работу по проектам и поставку образцов.*
- *Формирование склада под заказчика.*

- *Сертификаты соответствия на поставляемую продукцию (по желанию клиента).*
- *Тестирование поставляемой продукции.*
- *Поставку компонентов, требующих военную и космическую приемку.*
- *Входной контроль качества.*
- *Наличие сертификата ISO.*

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- *Регистрацию проекта у производителя компонентов.*
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- *Защиту от снятия компонента с производства.*
- *Оценку стоимости проекта по компонентам.*
- *Изготовление тестовой платы монтаж и пусконаладочные работы.*

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