



**THE DATASHEET OF
SFC37S25K291B-F**



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 μ F to 120.0 μ F
Capacitance Tolerance	\pm 10% standard, \pm 6% and \pm 3% available
Rated Voltage	240 Vac to 660 Vac
Operating Temperature Range with Ripple	-40 $^{\circ}$ C to 70 $^{\circ}$ C standard, 90 $^{\circ}$ C available
Dissipation Factor	<0.1%
Service Life Objective	60,000 h with 94% survival rate
RoHS Compliant	

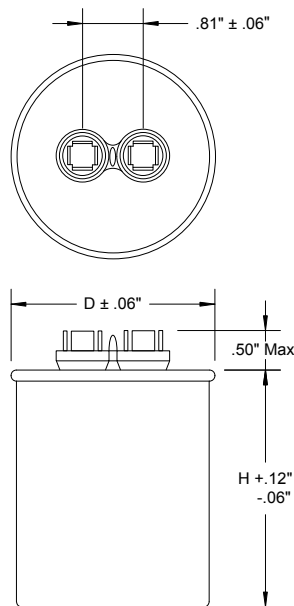
Dimensions

[Click here to view hardware](#)

Oval Case Style



Round Case Style



Construction Details

Case Material	Aluminum or Tin Plated Steel
Encapsulation	Environmentally 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.

Case Code	Dimensions (Inches)		H
	A	B	
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	

Type SF Motor-Run and Power Supply Capacitors

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Part Numbering System

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

Options

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

Tighter capacitance tolerances such as $\pm 3\%$ or $\pm 6\%$ 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.

Type SF Motor-Run and Power Supply Capacitors

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

Cap. (µF)	Case Code	Aluminum Catalog Part Number	H (inches)	Steel Catalog Part Number*	H (inches)
440V					
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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Optimize Your Supply Chain with WIN SOURCE Solutions

- ✓ Global Sourcing Solution
- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management