

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 | |

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

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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