

# Film Capacitors

## Power & Application Optimized – Motor Run Applications

### Screw/Faston Terminal

#### C27 Series, Plastic Case, 250 – 500 VAC

Capacitance Range: 1 to 100  $\mu\text{F}$  • Temperature Range:  $-25^{\circ}\text{C}$  to  $+100^{\circ}\text{C}$



C27	4	A	C	2	4100	AA	4	J
Series	Marking	Case & Fixing Bolt Code	Terminal Style	Capacitance Code ( $\mu\text{F}$ )	Packaging	Internal Use	Tolerance	
C27 = Motor Run Capacitors	4 = 30,000 hours/420 VAC (Class A) or 10,000 hours/470 VAC (Class B) 6 = 10,000 hours/420 VAC (Class B) or 3,000 hours/470 VAC (Class C) 7 = 10,000 hours/275 VAC (Class C) or 1,000 hours/425 VAC (Class D)	A = C274 C = C276 L = C277	C = Cylindrical plastic case with M8 bolt	2 = Single fasten 6.3 x 0.8 3 = Double fasten 6.3 x 0.8 A = Polar cable (tinned end) B = Polar cable (untinned end) F = Bipolar cable (40 mm unsheathed, 8 mm exposed end)	Digits 2 – 4 indicate the first three digits of the capacitance value. First digit indicates the number of zeros to be added.	AA, AF, AL, LG = Standard	0, 1, 2, 5 = Standard	J = 5%

#### C274

Case Size	Voltage	
	470 VAC	500 VAC
25 x 55	1 $\mu\text{F}$ – 3 $\mu\text{F}$	
25 x 56.5	1 $\mu\text{F}$ – 2.5 $\mu\text{F}$	
25 x 58	1.25 $\mu\text{F}$ – 3 $\mu\text{F}$	
25 x 58.5	1 $\mu\text{F}$ – 1.5 $\mu\text{F}$	
30 x 55	4 $\mu\text{F}$ – 5 $\mu\text{F}$	
30 x 56.5	2 $\mu\text{F}$ – 5 $\mu\text{F}$	
30 x 57	5.5 $\mu\text{F}$	
30 x 58.5	4 $\mu\text{F}$	
30 x 69.5	6 $\mu\text{F}$	
35 x 55	6 $\mu\text{F}$	
35 x 56.5	6 $\mu\text{F}$ – 8 $\mu\text{F}$	8 $\mu\text{F}$
35 x 57	8 $\mu\text{F}$	
35 x 71.5	12 $\mu\text{F}$	
35 x 73.5	9 $\mu\text{F}$ – 12.5 $\mu\text{F}$	
40 x 71.5	16 $\mu\text{F}$	
40 x 73.5	14 $\mu\text{F}$ – 16 $\mu\text{F}$	
45 x 74	18 $\mu\text{F}$ – 20 $\mu\text{F}$	
45 x 93	25 $\mu\text{F}$ – 31.5 $\mu\text{F}$	
45 x 95.5	30 $\mu\text{F}$	
50 x 95	35 $\mu\text{F}$	
50 x 120	40 $\mu\text{F}$ – 50 $\mu\text{F}$	
55 x 120	55 $\mu\text{F}$	
55 x 121	60 $\mu\text{F}$	

### Screw/Faston Terminal (cont.)

#### C27 Series, Plastic Case, 250 – 470 VAC (cont.)

Capacitance Range: 1 to 100  $\mu\text{F}$  • Temperature Range:  $-25^{\circ}\text{C}$  to  $+100^{\circ}\text{C}$



C27	4	A	C	2	4100	AA	4	J
Series	Marking	Case & Fixing Bolt Code	Terminal Style	Capacitance Code (pF)	Packaging	Internal Use	Tolerance	
C27 = Motor Run Capacitors	4 = 30,000 hours/420 VAC (Class A) or 10,000 hours/470 VAC (Class B) 6 = 10,000 hours/420 VAC (Class B) or 3,000 hours/470 VAC (Class C) 7 = 10,000 hours/275 VAC (Class C) or 1,000 hours/425 VAC (Class D)	A = C274 C = C276 L = C277	C = Cylindrical plastic case with M8 bolt	2 = Single fasten 6.3 x 0.8 3 = Double fasten 6.3 x 0.8 A = Polar cable (tinned end) B = Polar cable (untinned end) F = Bipolar cable (40 mm unsheathed, 8 mm exposed end)	Digits 2 – 4 indicate the first three digits of the capacitance value. First digit indicates the number of zeros to be added.	AA, AF, AL, LG = Standard	0, 1, 2, 5 = Standard J = 5%	

#### C276

Case Size	Voltage	
	450 VAC	470 VAC
25 x 55		3 $\mu\text{F}$ – 4 $\mu\text{F}$
25 x 56.5		1 $\mu\text{F}$ – 4 $\mu\text{F}$
25 x 57		3 $\mu\text{F}$
25 x 58		1.5 $\mu\text{F}$ – 4 $\mu\text{F}$
25 x 58.5		2 $\mu\text{F}$ – 4 $\mu\text{F}$
30 x 55		5 $\mu\text{F}$ – 7 $\mu\text{F}$
30 x 56.5	6 $\mu\text{F}$	5 $\mu\text{F}$ – 7 $\mu\text{F}$
30 x 57		5 $\mu\text{F}$
30 x 58.5		5.5 $\mu\text{F}$ – 6 $\mu\text{F}$
35 x 55		8 $\mu\text{F}$ – 9 $\mu\text{F}$
35 x 56.5	8 $\mu\text{F}$ – 10 $\mu\text{F}$	8 $\mu\text{F}$ – 11 $\mu\text{F}$
35 x 58.5		8 $\mu\text{F}$ – 10 $\mu\text{F}$
35 x 69.5		12 $\mu\text{F}$ – 16 $\mu\text{F}$
35 x 71.5		12 $\mu\text{F}$ – 16 $\mu\text{F}$
35 x 73.5		12 $\mu\text{F}$ – 16 $\mu\text{F}$
35 x 74	12 $\mu\text{F}$	16 $\mu\text{F}$
35 x 94.5	25 $\mu\text{F}$	
35 x 95.5		20 $\mu\text{F}$
40 x 69.5		20 $\mu\text{F}$
40 x 71.5		20 $\mu\text{F}$
40 x 73.5		17.5 $\mu\text{F}$ – 22 $\mu\text{F}$
40 x 74	20 $\mu\text{F}$	
40 x 94		25 $\mu\text{F}$
45 x 71.5		25 $\mu\text{F}$ – 30 $\mu\text{F}$
45 x 74	25 $\mu\text{F}$ – 30 $\mu\text{F}$	30 $\mu\text{F}$
45 x 93		31.5 $\mu\text{F}$ – 40 $\mu\text{F}$
45 x 94	40 $\mu\text{F}$	
45 x 95.5		35 $\mu\text{F}$ – 40 $\mu\text{F}$
45 x 120		60 $\mu\text{F}$
50 x 95		45 $\mu\text{F}$
50 x 120		50 $\mu\text{F}$ – 60 $\mu\text{F}$
55 x 93.5		60 $\mu\text{F}$

#### C277

Case Size	Voltage
	250 VAC
10.2 – 13.5 x 10.5 x 5.1	4.7 nF
10.2 – 13.5 x 7.5 x 3.9	1 nF – 2.2 nF
10.2 – 13.5 x 8.2 x 4.1	3.3 nF
15.2 – 18.5 x 10.5 x 5.2	6.8 nF – 10 nF
15.2 – 18.5 x 11 x 5.5	15 nF
15.2 – 18.5 x 13 x 7.3	22 nF
20.3 – 24 x 14 x 7.6	33 nF
20.3 – 24 x 15 x 9	47 nF
20.3 – 24 x 16.5 x 11.3	68 nF
25.4 – 30.5 x 19 x 12.1	100 nF

# Film Capacitors

## Power & Application Optimized – Motor Run Applications

### Screw/Faston Terminal (cont.)

#### C87 Series, Aluminum Case, 470 VAC

Capacitance Range: 1 to 80  $\mu\text{F}$  • Temperature Range:  $-25^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$



C87	0	C	F	2	4300	AA	4	J
Series	Marking	Case & Fixing Bolt Code	Terminal Style	Capacitance Code ( $\mu\text{F}$ )	Packaging	Internal Use	Tolerance	
C87 = Motor Run Capacitors	0 = 10,000 hours/420 VAC (Class B) or 3,000 hours/470 VAC (Class C) 8 = 30,000 hours/420 VAC (Class A) or 10,000 hours/470 VAC (Class B) 1 = Legacy (not for new design) 5 = Legacy (not for new design)	A, C, W = Standard	F = Cylindrical aluminum can with M8 bolt G = Cylindrical aluminum can with M12 bolt	2 = Single fasten 6.3 x 0.8 3 = Double fasten 6.3 x 0.8	Digits 2 – 4 indicate the first three digits of the capacitance value. First digit indicates the number of zeros to be added.	AA = Standard	0, 1, 2, 4, 5 = Standard	J = 5% K = 10%

#### C870

Case Size	Voltage
	470 VAC
30 x 48	3 $\mu\text{F}$ – 4 $\mu\text{F}$
30 x 60	6 $\mu\text{F}$
30 x 78	8 $\mu\text{F}$ – 10 $\mu\text{F}$
35 x 48	5 $\mu\text{F}$
35 x 60	8 $\mu\text{F}$
35 x 78	10 $\mu\text{F}$ – 16 $\mu\text{F}$
35 x 98	20 $\mu\text{F}$
40 x 78	16 $\mu\text{F}$ – 22 $\mu\text{F}$
40 x 98	25 $\mu\text{F}$ – 30 $\mu\text{F}$
45 x 78	25 $\mu\text{F}$
45 x 98	35 $\mu\text{F}$ – 40 $\mu\text{F}$
45 x 133	45 $\mu\text{F}$
50 x 133	50 $\mu\text{F}$ – 80 $\mu\text{F}$
55 x 133	70 $\mu\text{F}$ – 100 $\mu\text{F}$
60 x 98	60 $\mu\text{F}$
60 x 133	75 $\mu\text{F}$ – 110 $\mu\text{F}$

#### C878

Case Size	Voltage
	470 VAC
25 x 48	1 $\mu\text{F}$ – 1.5 $\mu\text{F}$
25 x 60	1.5 $\mu\text{F}$ – 3 $\mu\text{F}$
25 x 78	4 $\mu\text{F}$
30 x 48	1 $\mu\text{F}$ – 3 $\mu\text{F}$
30 x 60	5 $\mu\text{F}$
30 x 78	4 $\mu\text{F}$ – 8 $\mu\text{F}$
35 x 48	3.5 $\mu\text{F}$ – 5 $\mu\text{F}$
35 x 60	4 $\mu\text{F}$ – 7.5 $\mu\text{F}$
35 x 78	6 $\mu\text{F}$ – 12.5 $\mu\text{F}$
35 x 98	16 $\mu\text{F}$
40 x 78	12 $\mu\text{F}$ – 16 $\mu\text{F}$
40 x 98	16 $\mu\text{F}$
45 x 78	18 $\mu\text{F}$ – 22.5 $\mu\text{F}$
45 x 98	25 $\mu\text{F}$ – 31.5 $\mu\text{F}$
45 x 133	30 $\mu\text{F}$ – 40 $\mu\text{F}$
50 x 133	40 $\mu\text{F}$ – 60 $\mu\text{F}$
55 x 133	50 $\mu\text{F}$
60 x 133	60 $\mu\text{F}$ – 80 $\mu\text{F}$