

Type PFCS 3-phase series capacitors are designed for power factor correction in automatic PFC controllers. Each PFCS capacitor is made with three self-healing metallized polypropylene windings, connected in delta, enclosed in a cylindrical aluminum case and filled with an environmentally friendly fluid.

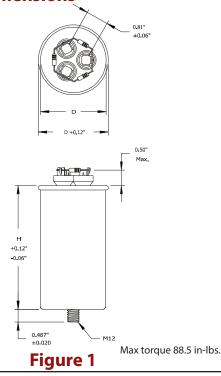
Highlights

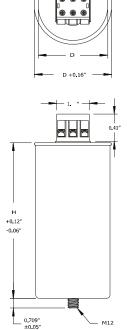
- For 3-phase AC Power Factor Correction
- Delta connected
- Discharge resistors included
- UL810 approved internal pressure interrupter

Specifications

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Capacitance Tolerance	0 to +10%			
Rated Frequency (f _R)	50 Hz and 60 Hz			
Rated AC Voltages (V _R)	240 Vac, 480 Vac, 600 Vac			
Operating Temperature Range	–40 °C to +55 °C			
kvar Range 0.5 kvar to 30.2 kvar				
Maximum Permissible Voltage (Vmax)	110% of rated rms voltage 120% of rated peak voltage (1.2 x $\sqrt{2}$ x Vrms)			
Internal Connection	Delta (Δ)			
Maximum Permissible Current (Imax)	135% of nominal rms current based on rated kvar and rated voltage - (up to 150% of $\rm I_R$ including combined effects of harmonics, over voltages and capacitances, tolerance)			
Life	60,000 h w/94% survival rate			
International Standards	Meets IEEE18, Standard (ANSI/IEEE Standard 18)			
FIT (Failure In Time)	≤300 X 10 ⁹ component h			
Maximum Short Circuit Current	10 kA (according to UL 810)			
Mechanical and Electrical Safety	Pressure Interrupter (PI) disengages all 3 phases in the event of capacitor end of life or overload			
Discharge Resistor Time	≤ 60 seconds ≤ 50 V for 600 V or less; over 600 V ≤ 5 minutes			
	RoHS Compliant			

Dimensions

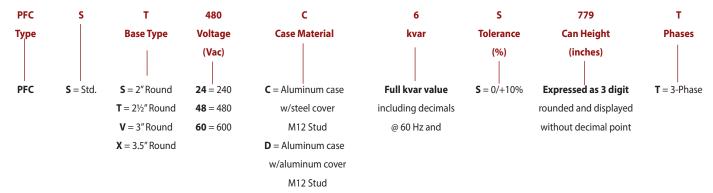




Construction Details					
Case Material	Extruded aluminum with steel or aluminum cover				
Encapsulation	Environmentally safe dielectric fluid				
Terminal Material	Tin plated copper, brass or steel				

Max torque 88.5 in-lbs.

Part Numbering System



Ratings

NOTE: Other ratings, sizes and performance specifications are available. Contact us.

CDE Catalog Number	60Hz		501	Hz		Case		
	Output	I _R	Output	I _R	Capacitance (µF)	Diameter	Height (in)	Style
	Kvar	(A)	Kvar	(A)	([41.7]	(in)		
			240Vac					
PFCSS24C0.5S572T	0.5	1.2	0.4	1.0	3 x 7.7	2.0	5.72	Fig. 1
PFCSS24C1S572T	1	2.4	0.8	2.0	3 x 15.4	2.0	5.72	
PFCSS24C1.5S572T	1.5	3.6	1.3	3.0	3 x 23.0	2.0	5.72	
PFCSS24C2S572T	2	4.8	1.7	4.0	3 x 30.7	2.0	5.72	
PFCSS24C2.5S572T	2.5	6.0	2.1	5.0	3 x 38.4	2.0	5.72	
PFCST24C3S572T	3	7.2	2.5	6.0	3 x 46.1	2.5	5.72	
PFCST24C4S572T	4	9.6	3.3	8.0	3 x 61.4	2.5	5.72	
PFCST24C5S778T	5	12.0	4.2	10.0	3 x 76.8	2.5	7.78	
PFCSV24D6S635T	6	14.4	5.0	12.0	3 x 92.1	3.0	6.35	
PFCSX24D6.3S635T	6.3	15.2	5.3	12.6	3 x 96.7	3.5	6.35	Fig. 2
PFCSX24D7.5S635T	7.5	18.0	6.3	15.0	3 x 115.1	3.5	6.35	
PFCSV24D8.3S842T	8.3	20.0	6.9	16.6	3 x 127.4	3.0	8.42	
PFCSX24D10S842T	10	24.1	8.3	20.0	3 x 153.5	3.5	8.42	
PFCSX24D12.5S842T	12.5	30.1	10.4	25.1	3 x 191.9	3.5	8.42	
PFCSX24D15S108T	15	36.1	12.5	30.1	3 x 230.3	3.5	10.78	
PFCSX24D16.7S108T	16.7	40.2	13.9	33.5	3 x 256.4	3.5	10.78	
PFCSX24D17.5S108T	17.5	42.1	14.6	35.1	3 x 268.6	3.5	10.78	
PFCSX24D20S137T	20	48.1	16.7	40.1	3 x 307.0	3.5	13.73	
			480Vac					
PFCSS48C0.5S572T	0.5	0.6	0.4	0.5	3 x 1.9	2.0	5.72	
PFCSS48C1S572T	1	1.2	0.8	1.0	3 x 3.8	2.0	5.72	Fig. 1
PFCSS48C1.5S572T	1.5	1.8	1.3	1.5	3 x 5.8	2.0	5.72	
PFCSS48C2S572T	2	2.4	1.7	2.0	3 x 7.7	2.0	5.72	
PFCSS48C2.5S572T	2.5	3.0	2.1	2.5	3 x 9.6	2.0	5.72	
PFCSS48C3S572T	3	3.6	2.5	3.0	3 x 11.5	2.0	5.72	

CDE Catalog Number	60Hz		501	-lz			Case	
	Output Kvar	I _R (А)	Output Kvar	I _R (А)	Capacitance (μF)	Diameter (in)	Height (in)	Style
	,		480Vac		-			
PFCSS48C4S572T	4	4.8	3.3	4.0	3 x 15.4	2.0	5.72	
PFCST48C5S572T	5	6.0	4.2	5.0	3 x 19.2	2.5	5.72	Fig. 1
PFCST48C6S572T	6	7.2	5.0	6.0	3 x 23.0	2.5	5.72	
PFCST48C7.5S778T	7.5	9.0	6.3	7.5	3 x 28.8	2.5	7.78	
PFCSV48D8.3S635T	8.3	10.0	6.9	8.3	3 x 31.9	3.0	6.35	
PFCSV48D9S635T	9	10.8	7.5	9.0	3 x 34.5	3.0	6.35	
PFCSX48D10S635T	10	12.0	8.3	10.0	3 x 38.4	3.5	6.35	
PFCSV48D12.5S842T	12.5	15.0	10.4	12.5	3 x 48.0	3.0	8.42	
PFCSV48D15S108T	15	18.0	12.5	15.0	3 x 57.6	3.0	10.78	
PFCSV48D16.7S108T	16.7	20.1	13.9	16.7	3 x 64.1	3.0	10.78	Fig. 2
PFCSV48D18S108T	18	21.7	15.0	18.0	3 x 69.1	3.0	10.78	
PFCSV48D20S108T	20	24.1	16.7	20.0	3 x 76.8	3.0	10.78	
PFCSX48D25S108T	25	30.1	20.8	25.1	3 x 95.9	3.5	10.78	
PFCSX48D30S137T	30	36.1	25.0	30.1	3 x 115.1	3.5	13.73	
			600Vac					
PFCSS60C1S572T	1	1.0	0.8	0.8	3 x 2.5	2.0	5.72	
PFCSS60C1.5S572T	1.5	1.4	1.3	1.2	3 x 3.7	2.0	5.72	
PFCSS60C2S572T	2	1.9	1.7	1.6	3 x 4.9	2.0	5.72	
PFCSS60C2.5S572T	2.5	2.4	2.1	2.0	3 x 6.1	2.0	5.72	
PFCSS60C3S572T	3	2.9	2.5	2.4	3 x 7.4	2.0	5.72	
PFCSS60C4S572T	4	3.8	3.3	3.2	3 x 9.8	2.0	5.72	Fig. 1
PFCST60C5S572T	5	4.8	4.2	4.0	3 x 12.3	2.5	5.72	
PFCST60C6S572T	6	5.8	5.0	4.8	3 x 14.7	2.5	5.72	
PFCST60C6.1S572T	6.1	5.9	5.1	4.9	3 x 15.0	2.5	5.72	
PFCST60C6.3S572T	6.3	6.1	5.3	5.1	3 x 15.5	2.5	5.72	
PFCST60C6.9S778T	6.9	6.6	5.8	5.5	3 x 16.9	2.5	7.78	
PFCSV60D7.5S635T	7.5	7.2	6.3	6.0	3 x 18.4	3.0	6.35	
PFCSV60D8.1S635T	8.1	7.8	6.8	6.5	3 x 19.9	3.0	6.35	
PFCSV60D8.3S635T	8.3	8.0	6.9	6.7	3 x 20.4	3.0	6.35	
PFCSX60D10S635T	10	9.6	8.3	8.0	3 x 24.6	3.5	6.35	
PFCSV60D12.2S842T	12.2	11.7	10.2	9.8	3 x 30.0	3.0	8.42	
PFCSV60D12.5S842T	12.5	12.0	10.4	10.0	3 x 30.7	3.0	8.42	
PFCSV60D13.8S842T	13.8	13.3	11.5	11.1	3 x 33.9	3.0	8.42	
PFCSV60D14.6S108T	14.6	14.0	12.2	11.7	3 x 35.9	3.0	10.78	Fig. 2
PFCSV60D15S108T	15	14.4	12.5	12.0	3 x 36.8	3.0	10.78	
PFCSV60D16.7S108T	16.7	16.1	13.9	13.4	3 x 41.0	3.0	10.78	
PFCSV60D17.5S108T	17.5	16.8	14.6	14.0	3 x 43.0	3.0	10.78	
PFCSV60D20S108T	20	19.2	16.7	16.0	3 x 49.1	3.0	10.78	
PFCSV60D22.5S108T	22.5	21.7	18.8	18.0	3 x 55.3	3.0	10.78	
PFCSX60D25S108T	25	24.1	20.8	20.0	3 x 61.4	3.5	10.78	
PFCSX60D30.2S137T	30.2	29.1	25.2	24.2	3 x 74.2	3.5	13.73	

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