

CFB

Capacitor for detuned filters



Description

The application of new technologies and the use of printed circuit boards to manufacture prismatic capacitors have allowed **CIRCUTOR** to reinvent the classic **CS** capacitor, manufactured for over 35 years.

The spirit of innovation and proprietary technology used during the design of the new **CSB** capacitor have increased the lifespan of traditional prismatic capacitors by over 60%.

This new series has improved all aspects of the previous models, offering our customers a longer-lasting, safer and more profitable capacitor.

Application

Its application is focused on the compensation of installations under fixed and variable loads (capacitor banks) with a high content of harmonics and/or the risk of resonance.

Features

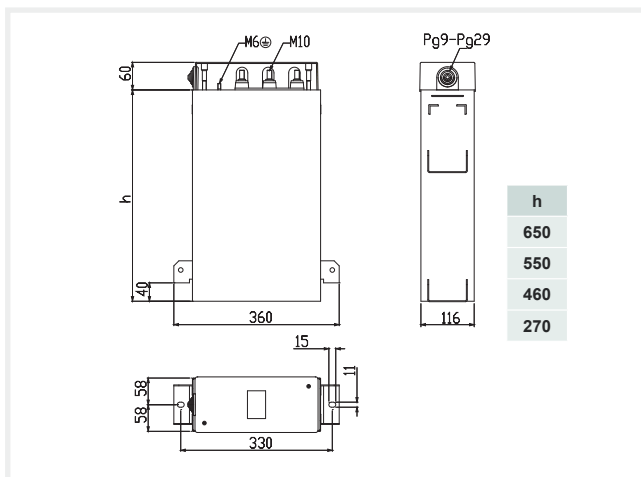
Features		
Overcurrent		1.3 times the rated current permanently
Overvoltage		10 % 8 over 24 hours
		15 % up to 15 minutes over 24 hours
		20 % up to 5 minutes over 24 hours
		30 % up to 1 minute over 24 hours
Insulation level		3 / 15 kV
Power tolerance		-5...+15 %
Discharge resistance		75 V / 3 minutes
Frequency		50 or 60 Hz
Losses:	• Dielectric	< 0.2 W / kvar
	• Total	< 0.5 W / kvar
Protections		• Dielectric regeneration
		• Internal fuse
		• Overpressure system
		• Vermiculite
Construction features		
Enclosure		Treated and painted steel, colour RAL 3005
Terminals:	• Power rating	• M6 for CV , M10 for CQ , CSB , CSB-6B , CFB , CFB-6B
	• Earth	• M6
Torque value		• CV 5 Nm • CQ , CSB , CSB-6B , CFB , CFB-6B : 15 Nm
Degree of protection		IP 42 with terminal cover
Ambient conditions		
Class C temperature:	Daily mean	40 °C
	Annual mean	30 °C
	Maximum	50 °C
	Minimum	-40 °C
Humidity		80 %
Altitude		2,000 m
Assembly conditions		
Type of assembly		Vertical
Ventilation		Natural or forced, depending on the cabinet design
Distance between capacitors		Minimum, 4 cm
Weight		0.4 kg
Standards		
CEI 60831-1, CEI 70/7, UNE 20827, UNE 20010, BS 1650, VDE 560		

CFB

Capacitor for detuned filters



Dimensions



References

CFB 260 V

kvar (230 V)	Weight (kg)	Dimensions	For reactance	Type	Code
5	2,6	360 x 330 x 120	R-5-230	CFB 26/6,3	R2412A
10	3,3	360 x 330 x 120	R-10-230	CFB 26/12,5	R2412D
15	3,3	360 x 330 x 120	RB-15-230	CFB 26/18	R2412E
20	4,2	360 x 330 x 120	RB-20-230	CFB 26/25	R2412G
25	5,0	360 x 330 x 120	RB-25-230	CFB 26/30	R2412H
30	5,0	360 x 330 x 120	RB-30-230	CFB 26/37	R2412J
40	7,3	360 x 520 x 120	RB-40-230	CFB 26/48	R2412K
50	8,2	360 x 520 x 120	RB-50-230	CFB 26/60	R2412L

CFB 460 V

kvar (400 V)	kvar (440 V)	Weight (kg)	Dimensions	For reactance	Type	Code
5	6,25	3,3	360 x 330 x 120	R-5-400 / 6-460	CFB 46/6	R2415A
10	12,5	3,9	360 x 330 x 120	R-10-400 / 12,5-460	CFB 46/12,5	R2415D
12,5	15	3,9	360 x 330 x 120	R-12,5-400 / 15-460	CFB 46/15	R2415E
15	18,75	3,9	360 x 330 x 120	R-15-400 / 19-460	CFB 46/19	R2415F
20	25	4,6	360 x 330 x 120	RB-20-400 / 25-460	CFB 46/25	R2415G
25	30	4,6	360 x 330 x 120	RB-25-400 / 30-460	CFB 46/30	R2415H
30	37,5	6,2	360 x 330 x 120	RB-30-400 / 37-460	CFB 46/37	R2415J
40	50	7,0	360 x 520 x 120	RB-40-400 / 50-460	CFB 46/50	R2415K
50	60	9,2	360 x 520 x 120	RB-50-400 / 62-460	CFB 46/62	R2415L
60	75	9,9	360 x 520 x 120	RB-60-400 / 74-460	CFB 46/74	R2415P
80	100	11,3	360 x 520 x 120	RB-80-400 / 100-460	CFB 46/100	R2415R

CFB 790 V

kvar (690 V)	Weight (kg)	Dimensions	For reactance	Type	Code
5	2,6	360 x 330 x 120	RE-5-400 / 6-460	CFB 79/6	R241DA
10	2,6	360 x 330 x 120	RE-10-400 / 12,5-460	CFB 79/12,5	R241DD
15	3,3	360 x 330 x 120	RE-15-400 / 19-460	CFB 79/19	R241DF
20	3,3	360 x 330 x 120	RE-20-400 / 25-460	CFB 79/25	R241DG
25	4,2	360 x 330 x 120	RE-25-400 / 30-460	CFB 79/30	R241DH
30	4,2	360 x 330 x 120	RE-30-400 / 37-460	CFB 79/37	R241DI
40	5,0	360 x 330 x 120	RE-40-400 / 50-460	CFB 79/50	R241DK
50	6,6	360 x 330 x 120	RBE-50-400 / 62-460	CFB 79/62	R241DL
60	7,3	360 x 520 x 120	RBE-60-400 / 74-460	CFB 79/74	R241DP
80	9,0	360 x 520 x 120	RBE-80-400 / 100-460	CFB 79/100	R241DR

*NOTE The filtering unit supplies a voltage of 400/230 V to the network. To compensate the reactance's overvoltage effect, the capacitor has been dimensioned to support 460/260 V and a power exceeding 25% of that stated in all columns

CFB-6B

Special capacitor for harmonic filters
of the FRE Series



Description

The application of new technologies and the use of printed circuit boards to manufacture prismatic capacitors have allowed **CIRCUTOR** to reinvent the classic **CS** capacitor, manufactured for over 35 years.

The spirit of innovation and proprietary technology used during the design of the new **CSB** capacitor have increased the lifespan of traditional prismatic capacitors by over 60%.

This new series has improved all aspects of the previous models, offering our customers a longer-lasting, safer and more profitable capacitor.

Application

Its application is focused on the compensation of installations under fixed and variable loads (capacitor banks) with a high content of harmonics and/or the risk of resonance. Application for static systems.

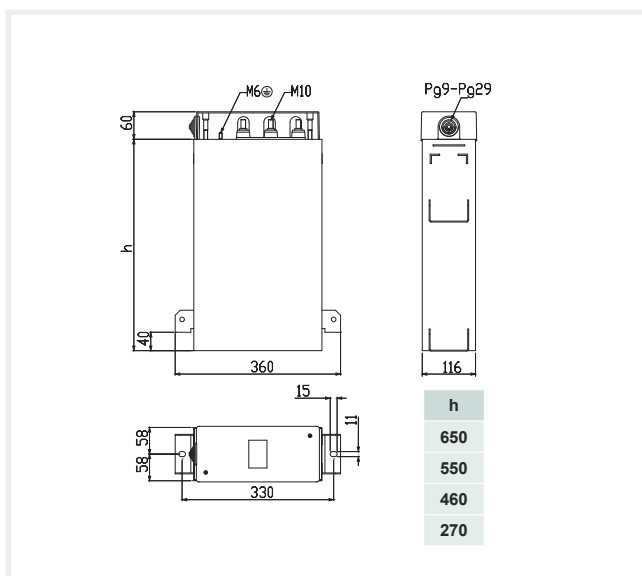
Features

Features		
Overcurrent		1.3 times the rated current permanently
Overvoltage		10 % 8 over 24 hours 15 % up to 15 minutes over 24 hours 20 % up to 5 minutes over 24 hours 30 % up to 1 minute over 24 hours
Insulation level		3 / 15 kV
Power tolerance		-5...+15 %
Discharge resistance		75 V / 3 minutes
Frequency		50 or 60 Hz
Losses:	<ul style="list-style-type: none"> • Dielectric • Total 	< 0.2 W / kvar < 0.5 W / kvar
Protections		<ul style="list-style-type: none"> • Dielectric regeneration • Internal fuse • Overpressure system • Vermiculite
Construction features		
Enclosure		Treated and painted steel, colour RAL 3005
Terminals:	<ul style="list-style-type: none"> • Power rating • Earth 	<ul style="list-style-type: none"> • M6 for CV, M10 for CQ, CSB, CSB-6B, CFB, CFB-6B • M6
Torque value		<ul style="list-style-type: none"> • CV 5 Nm • CQ, CSB, CSB-6B, CFB, CFB-6B: 15 Nm
Degree of protection		IP 42 with terminal cover
Ambient conditions		
Class C temperature:	Daily mean Annual mean Maximum Minimum	40 °C 30 °C 50 °C -40 °C
Humidity		80 %
Altitude		2,000 m
Assembly conditions		
Type of assembly		Vertical
Ventilation		Natural or forced, depending on the cabinet design
Distance between capacitors		Minimum, 4 cm
Weight		0.4 kg
Standards		
CEI 60831-1, CEI 70/7, UNE 20827, UNE 20010, BS 1650, VDE 560		

CFB-6B

Special capacitor for harmonic filters of the FRE Series

Dimensions



References

CFB 460-6B V

kvar (L-C) (400 V)	kvar (L-C) (440 V)	Weight (kg)	Dimensions	For reactance	Type	Code
5	6,25	2,6	360 x 330 x 120	RE-5-400 / 6-460	CFB-46/6-6B	R2425A
10	12,5	2,6	360 x 330 x 120	RE-10-400 / 12,5-460	CFB-46/12,5-6B	R2425D
15	18,75	3,3	360 x 330 x 120	RE-15-400 / 19-460	CFB-46/19-6B	R2425F
20	25	3,3	360 x 330 x 120	RE-20-400 / 25-460	CFB-46/25-6B	R2425G
25	30	4,2	360 x 330 x 120	RE-25-400 / 30-460	CFB-46/30-6B	R2425H
30	37,5	4,2	360 x 330 x 120	RE-30-400 / 37-460	CFB-46/37-6B	R2425J
40	50	5,0	360 x 330 x 120	RE-40-400 / 50-460	CFB-46/50-6B	R2425K
50	60	6,6	360 x 330 x 120	RBE-50-400 / 62-460	CFB-46/62-6B	R2425L
60	75	7,3	360 x 520 x 120	RBE-60-400 / 74-460	CFB-46/74-6B	R2425P
80	100	9,0	360 x 520 x 120	RBE-80-400 / 100-460	CFB-46/100-6B	R2425R

CFB 260-6B V

kvar (L-C) (230 V)	Weight (kg)	Dimensions	For reactance	Type	Code
5	3,2	360 x 330 x 120	RE-5-230	CFB-26/6,3-6B	R2422A
10	3,9	360 x 330 x 120	RE-10-230	CFB-26/12,5-6B	R2422D
15	4,6	360 x 330 x 120	RE-15-230	CFB-26/18-6B	R2422E
20	6,2	360 x 330 x 120	RBE-20-230	CFB-26/25-6B	R2422G
25	7,0	360 x 330 x 120	RBE-22-230	CFB-26/30-6B	R2422H
30	6,2	360 x 330 x 120	RBE-30-230	CFB-26/37-6B	R2422J
40	8,3	360 x 520 x 120	RBE-40-230	CFB-26/48-6B	R2422K

NOTE: The power stated is the real power supplied by the filtering unit to the network at a voltage of 400/230 V. To compensate the reactance overvoltage effect, the capacitor has been dimensioned for 460/260 V and for a power that exceeds 25% of that stated for all columns.