

# 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.

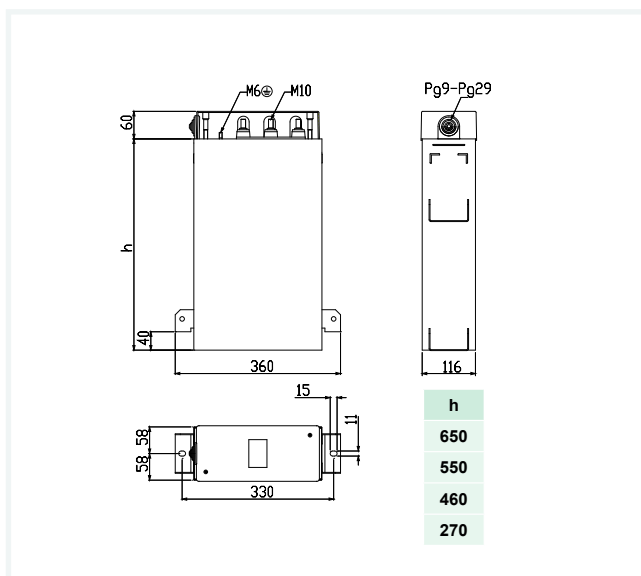
## Features

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"> <li>• Dielectric</li> <li>• Total</li> </ul>	< 0.2 W / kvar < 0.5 W / kvar
Protections		<ul style="list-style-type: none"> <li>• Dielectric regeneration</li> <li>• Internal fuse</li> <li>• Overpressure system</li> <li>• Vermiculite</li> </ul>
Construction features		
Enclosure		Treated and painted steel, colour RAL 3005
Terminals:	<ul style="list-style-type: none"> <li>• Power rating</li> <li>• Earth</li> </ul>	<ul style="list-style-type: none"> <li>• M6 for <b>CV</b>, M10 for <b>CQ</b>, <b>CSB</b>, <b>CSB-6B</b>, <b>CFB</b>, <b>CFB-6B</b></li> <li>• M6</li> </ul>
Torque value		<ul style="list-style-type: none"> <li>• <b>CV</b> 5 Nm</li> <li>• <b>CQ</b>, <b>CSB</b>, <b>CSB-6B</b>, <b>CFB</b>, <b>CFB-6B</b>: 15 Nm</li> </ul>
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-6B

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### 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.