

CFB-46/15

CFB-46/15, Power capacitors for detuned filters

Code: R2415E.

> kvar (400 V): 12,5

> kvar (440 V): 15

> For reactor: RZ-12,5-400

> Use voltage (V): 440

Description

The application of new technologies have allowed CIRCUTOR to reinvent the classic CS capacitor. 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 (CFB-6B).



CFB-46/15

Power capacitors for harmonic filtering for OPTIM FR series

Code: R2415E.

Specifications

AC power supply

Frequency	50 ó 60 Hz

Electrical characteristics

Permanent overload	1,3 In
Losses (W)	Dielectric: < 0,2 W / kvar Total: < 0,5 W / kvar
Discharge resistance	75 V / 3 min
Surge	10 % 8 h over 24 h 15 % up to 15 min over 24 hours 20 % up to 5 min over 24 hours 30 % up to 1 min over 24 hours
Tolerance C	-5 ... +15 %
Insulation voltage, circuit	3 / 15 kV

Mechanical characteristics

Size (mm) width x height x depth	360 x 330 x 120 (mm)
Envelope	Treated and painted steel in RAL 3005 colour
Thermal management	Natural or forced depending on the cabinet
Fastening	Vertical
Weight (kg)	3,9

Environmental characteristics

Protection class	IP 42 with terminal cover
Relative humidity (without condensation)	80%
Working temperature	Tª class C: Daily average: 40 °C, annual average: 30 °C, maximum: 50 °C, minimum: -40 °C

Standards

Certifications	VDE 560
Electrical safety, Maximum height (m)	2000
Standards	IEC 60831-1, IEC 70/7, UNE-EN 20827, UNE-EN 20010, BS 1650

Protection

Circuit breaker type	Dielectric regeneration Internal fuse Overpressure system Vermiculite

CFB

Power capacitors for detuned filters, type P=7% (fres=189 Hz)

CODE	TYPE	kvar (400 V)	kvar (440 V)	Use voltage (V)	kvar (690 V)
CFB 460					
R2415A.	CFB-46/6	5	6,25	440	



CFB-46/15

Power capacitors for harmonic filtering for OPTIM FR series

Code: R2415E.

CODE	TYPE	kvar (400 V)	kvar (440 V)	Use voltage (V)	kvar (690 V)
R2415D.	CFB-46/12,5	10	12,5	440	
R2415E.	CFB-46/15	12,5	15	440	
R2415F.	CFB-46/19	15	18,5	440	
R2415G.	CFB-46/25	20	25	440	
R2415H.	CFB-46/30	25	30	440	
R2415J.	CFB-46/37	30	40	440	
R2415K.	CFB-46/50	40	50	440	
R2415L.	CFB-46/62	50	60	440	
R2415P.	CFB-46/74	60	75	440	
R2415R.	CFB-46/100	80	100	440	
CFB 790					
R241DA.	CFB-79/6			690	5
R241DD.	CFB-79/12,5			690	10
R241DF.	CFB-79/19			690	15
R241DG.	CFB-79/25			690	20
R241DH.	CFB-79/30			690	25
R241DI.	CFB-79/37			690	30
R241DK.	CFB-79/50			690	40
R241DL.	CFB-79/62			690	50
R241DP.	CFB-79/74			690	60
R241DR.	CFB-79/100			690	80

NOTE: The capacitor has been sized for 460/790 V and a power that is 20% higher than that indicated in all columns to compensate for the overvoltage effect of the reactor.