



### CFB-46/12,5

CFB-46/12,5, Power capacitors for detuned filters

Code: R2415D.

> kvar (400 V): 10 > kvar (440 V): 12,5 > For reactor: RZ-10-400 > 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-46/12,5

Power capacitors for harmonic filtering for OPTIM FR series

Code: R2415D.

### **Specifications**

Frequency	50 ó 60 Hz
Electrical characteristics	
Permanent overload	1,3 ln
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
Fastening	Vertical
Ventilation	Natural or forced depending on the cabinet
Weight (kg)	6
Environmental characteristics	
Protection class	IP 42 with terminal cover
Relative humidity (without condensation)	80%
Working temperature	T° 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-46/12,5

Power capacitors for harmonic filtering for OPTIM FR series

Code: R2415D.

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  R2415F. CFB-46/25 20 25 440  R2415H. CFB-46/30 25 30 440  R2415H. CFB-46/37 30 40 440  R2415K. CFB-46/50 40 50 440  R2415K. CFB-46/50 40 50 440  R2415K. CFB-46/62 50 60 440  R2415P. CFB-46/100 80 100 440  CFB-79/68 5 690 10  R241DD. CFB-79/19 690 25  R241DD. CFB-79/25 690 20  R241DH. CFB-79/37 690 30  R241DK. CFB-79/50 690 40  R241DK. CFB-79/50 690 50	CODE	TYPE	kvar (400 V)	kvar (440 V)	Use voltage (V)	kvar (690 V)
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  R2415H. CFB-46/37 30 40 440  R2415L. CFB-46/50 40 50 440  R2415L. CFB-46/62 50 60 440  R2415L. CFB-46/62 50 60 440  R2415P. CFB-46/100 80 100 440  CFB-79/12,5 690 10  R241DD. CFB-79/12,5 690 25  R241DR. CFB-79/30 690 25  R241DR. CFB-79/37 690 30  R241DR. CFB-79/50 690 30  R241DR. CFB-79/50 690 30  R241DR. CFB-79/50 690 50  R241DR. CFB-79/74 690 50	R2415B.	CFB-46/7,5	9,3	7,75	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 40 440  R2415K. CFB-46/50 40 50 440  R2415L. CFB-46/62 50 60 440  R2415L. CFB-46/100 80 100 440  CFB-79/105 5  R241DA. CFB-79/6 690 5  R241DG. CFB-79/37 690 20  R241DH. CFB-79/50 690 40  R241DL. CFB-79/62 690 50  R241DL. CFB-79/62 690 50  R241DL. CFB-79/50 690 50  R241DL. CFB-79/62 690 50  R241DL. CFB-79/62 690 50  R241DL. CFB-79/60 690 50  R241DL. CFB-79/50 690 50  R241DL. CFB-79/50 690 50  R241DL. CFB-79/62 690 50	R2415D.	CFB-46/12,5	10	12,5	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       5       690       5         R241DD.       CFB-79/12,5       690       10         R241DE.       CFB-79/19       690       15         R241DB.       CFB-79/30       25         R241DL.       CFB-79/37       690       30         R241DL.       CFB-79/50       5       690       40         R241DL.       CFB-79/62       690       50         R241DL.       CFB-79/74       690       50	R2415E.	CFB-46/15	12,5	15	440	
R2415H.       CFB-46/30       25       30       440       440         R2415J.       CFB-46/37       30       40       440       440         R2415K.       CFB-46/50       40       50       440       440         R2415L.       CFB-46/62       50       60       440       440         R2415P.       CFB-46/74       60       75       440       440       440         R2415R.       CFB-46/100       80       100       440	R2415F.	CFB-46/19	15	18,5	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-79/66       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         R241DL.       CFB-79/50       690       30         R241DL.       CFB-79/62       690       50         R241DL.       CFB-79/74       690       50	R2415G.	CFB-46/25	20	25	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-79/50       690       30         R241DK.       CFB-79/62       690       50         R241DL.       CFB-79/74       690       50	R2415H.	CFB-46/30	25	30	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       5       690       25         R241DL.       CFB-79/50       690       30         R241DL.       CFB-79/62       690       50         R241DL.       CFB-79/74       690       50	R2415J.	CFB-46/37	30	40	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-79/62       690       40         R241DL.       CFB-79/74       690       50         R241DP.       CFB-79/74       690       60	R2415K.	CFB-46/50	40	50	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	R2415L.	CFB-46/62	50	60	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	R2415P.	CFB-46/74	60	75	440	
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	R2415R.	CFB-46/100	80	100	440	
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	CFB 790					
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	R241DA.	CFB-79/6			690	5
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	R241DD.	CFB-79/12,5			690	10
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	R241DF.	CFB-79/19			690	15
R241DI.       CFB-79/37       690       30         R241DK.       CFB-79/50       690       40         R241DL.       CFB-79/62       690       50         R241DP.       CFB-79/74       690       60	R241DG.	CFB-79/25			690	20
R241DK.     CFB-79/50     690     40       R241DL.     CFB-79/62     690     50       R241DP.     CFB-79/74     690     60	R241DH.	CFB-79/30			690	25
R241DL.     CFB-79/62     690     50       R241DP.     CFB-79/74     690     60	R241DI.	CFB-79/37			690	30
R241DP. CFB-79/74 690 60	R241DK.	CFB-79/50			690	40
	R241DL.	CFB-79/62			690	50
R241DR. CFB-79/100 690 80	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.

