



## CFB-46/15

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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

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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

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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

|                             |  |
|-----------------------------|--|
| 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 |
| Torque setting                   | 15 Nm  |
| Cable gauge at current terminals | Power M10                                    |
| Fastening                        | Vertical                                     |
| Ventilation                      | Natural or forced depending on the cabinet   |
| Weight (kg)                      | 3,9  |

#### Environmental characteristics

|  |  |
|--|--|
| Protection class                         | IP 42 with terminal cover  |
| Relative humidity (without condensation) | 80%  |
| Working temperature                      | T <sup>a</sup> 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 |

#### Current measurement circuit

|                    |        |
|--------------------|--------|
| Allowable overload | 1,3 In |
| Permanent overload | 1,3 In |

#### Protection

|                      |   |
|----------------------|---|
| Circuit breaker type | Dielectric regeneration Internal fuse Overpressure system Vermiculite |
|----------------------|---|



## CFB-46/15

Power capacitors for harmonic filtering for OPTIM FR series

Code: R2415E.

### 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) |
|----------------|-------------|--------------|--------------|-----------------|--------------|
| <b>CFB 460</b> |             |              |              |                 |              |
| R2415A.        | CFB-46/6    | 5            | 6,25         | 440             |              |
| R2415B.        | CFB-46/7,5  | 9,3          | 7,75         | 440             |              |
| 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             |              |
| <b>CFB 790</b> |             |              |              |                 |              |
| 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.