

Fixed capacitor with detuned filters in enclosure

230/440 V, 50 Hz

General Information

- Three phase capacitor and detuned reactor.
- Specially designed for reactive power factor correction for transformer and electricals facilities where automatic regulation is not required.
- Indoor wall mounting and ventilated room.

Components

- DWCAP RCT, MA/C/CE TER RCT.
- Harmonic filters detuned to the resonance frequency 210, 189 and 134Hz.
- Galvanized sheet metal cabinet and RAL 1013.
- Left side top entry.
- MCB
- Indication Lamp

Upon request

RTR Technical team can assist for designing PFC equipment's which suit to the customer needs for different powers, voltage, frequency, auxiliary equipment, etc.

Standard

- IEC 60831-1/2:2014
- UNE-EN 60831-1/2:2014

Technical Characteristics of capacitors

| | |
|---|----------------------------|
| Capacitance tolerance | -5% +10% |
| Frequency | 50Hz (60Hz upon request) |
| Temperature range | -25°C +55°C (Class D) |
| Dielectric losses | $\leq 0.2\text{W/kVAr}$ |
| Total losses | $\leq 0.45\text{W/kVAr}^*$ |
| Over voltage | 1.15xUn (30min/day) |
| Over current | 1.8xIn |
| Discharge resistance | Incorporated |
| Connection | Delta |
| Voltage test between terminals | 2.15xUn 10s |
| Voltage test between terminals and case | 5kV AC for 1min |
| Inrush current | Up to 250xIn |
| Protection | IP-20 |
| Humidity | Max. 95% |

*without resistors



PRF0 Series with MCB+lamp indicator

| Code | Power | Voltage | Frequency | Current | Capacitance | Dimensions |
|-----------------|-------|---------|-----------|---------|-------------|-------------|
| | KVAr | V | Hz | A | μF | mm |
| PRF0230025C5000 | 2,5 | 230 | 50 | 6,28 | 3x 50,14 | 600X400X260 |
| PRF0230050C5000 | 5 | 230 | 50 | 12,55 | 3x100,29 | 600X400X260 |
| PRF0230075C5000 | 7,5 | 230 | 50 | 18,83 | 3x150,43 | 600X400X260 |
| PRF0230100C5000 | 10 | 230 | 50 | 25,10 | 3x200,57 | 600X400X260 |
| PRF0230150C5000 | 15 | 230 | 50 | 37,65 | 3x300,86 | 600X500X260 |
| PRF0230200C5000 | 20 | 230 | 50 | 50,20 | 3x401,15 | 800X600X300 |

| Code | Power | Voltage | Frequency | Current | Capacitance | Dimensions |
|-----------------|-------|---------|-----------|---------|-------------|-------------|
| | KVAr | V | Hz | A | μF | mm |
| PRF0440025C5000 | 2,5 | 440 | 50 | 3,28 | 3x 13,70 | 600X400X260 |
| PRF0440050C5000 | 5 | 440 | 50 | 6,56 | 3x 27,40 | 600X400X260 |
| PRF0440075C5000 | 7,5 | 440 | 50 | 9,84 | 3x 41,10 | 600X400X260 |
| PRF0440100C5000 | 10 | 440 | 50 | 13,12 | 3x 54,81 | 600X400X260 |
| PRF0440125C5000 | 12,5 | 440 | 50 | 16,40 | 3x 68,51 | 600X400X260 |
| PRF0440150C5000 | 15 | 440 | 50 | 19,68 | 3x 82,21 | 600X400X260 |
| PRF0440200C5000 | 20 | 440 | 50 | 26,24 | 3x109,61 | 600X400X260 |
| PRF0440250C5000 | 25 | 440 | 50 | 32,80 | 3x137,01 | 600X500X260 |
| PRF0440300C5000 | 30 | 440 | 50 | 39,36 | 3x164,42 | 600X500X260 |
| PRF0440400C5000 | 40 | 440 | 50 | 52,49 | 3x219,22 | 800X800X400 |
| PRF0440500C5000 | 50 | 440 | 50 | 65,61 | 3x274,03 | 800X800X400 |
| PRF0440600C5000 | 60 | 440 | 50 | 78,73 | 3x328,83 | 800X800X400 |
| PRF0440800C5000 | 80 | 440 | 50 | 104,97 | 3x438,44 | 800X800X400 |

*Others powers, voltages and frequencies upon request.