

Three phase Capacitors

230/440/690/1100 V, 50Hz

Characteristics and utility

- Three phase capacitor
- Single phase elements connected through threaded stud
- Delta connection
- Discharge resistors incorporated
- Reactive power factor correction
- Dry type
- Indoor installation

Standards

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

Construction and materials

- Low losses metallized self-healing polypropylene film, high density, high temperature and greater dielectric resistance Volt/ μ
- Polyurethane self-extinguishing resin V0, developed under standard UL94 by RTR Energia and with certification number 20141031-E470994
- Metal container with terminal covers and fixing brackets
- RAL 6034



Technical Characteristics

Capacitance tolerance	-5 % +10%
Frequency	50 Hz (60 Hz upon request)
Temperature range	-25°C +55 °C (Class D)
Dielectric losses	≤ 0.2 W/KVAr
Total losses	≤ 0.5 W/KVAr*
Over voltage	1.10 x Un (8 h/day) 1.15 x Un (30 min/day) 1.20 x Un (5 min/day) 1.30 x Un (1 min/day)
Over current	1.5 x In
Max. THD in voltage	2 %
Max. THD in current	25 %
Discharge resistance	Incorporated
Connection	Delta
Voltage test between terminals	2.15xUn 10s
Voltage test between terminals and case	3kV AC for 1min
Inrush current	Up to 200 x In
Protection	IP-20
Humidity	Max. 95%
Life Expectancy	100 000 h (Temp. type D)
Altitude	Max. 4000m.a.s.l.
Mounting position	Universal



*Without resistors

PR00 and PRC0 SERIES

Fixed capacitor banks

230/440 V, 50 Hz

General Information

- Three phase protected capacitor.
- Specially designed for reactive power factor correction for transformer and electricals facilities where automatic regulation is not required.
- Indoor wall mounting and ventilated room.
- Left side top entry.

Components

- DWCAP, MA/C/CE TER or MA/C/CE.
- Galvanized sheet metal cabinet and RAL 1013.
- 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	1.1xUn (8h/day) 1.15xUn (30min/day) 1.20xUn (5min/day) 1.30xUn (1min/day)
Over current	1,60xIn
Max. THD in voltage	2%
Max THD in current	25%
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 200xIn
Protection	IP-20
Humidity	Max. 95%
Life expectancy	130.000h
Altitude	Max. 4000m.a.s.l.

* Without resistors



PR00



PRC0

PR00 Series with MCB+lamp indicator

Code	Power	Voltage	Frequency	Current	Capacitance	Dimensions
	KVAr	V	Hz	A	μF	mm
PR0023002505000	2,5	230	50	6,28	3x 50,14	300x300x200
PR0023005005000	5	230	50	12,55	3x100,29	300x300x200
PR0023007505000	7,5	230	50	18,83	3x150,43	400x300x200
PR0023010005000	10	230	50	25,10	3x200,57	400x300x200
PR0023015005000	15	230	50	37,65	3x300,86	600x400x260
PR0023020005000	20	230	50	50,20	3x401,15	600x400x260

Code	Power	Voltage	Frequency	Current	Capacitance	Dimensions
	KVAr	V	Hz	A	μF	mm
PR0044002505000	2,5	440	50	3,28	3x 13,70	300x300x200
PR0044005005000	5	440	50	6,56	3x 27,40	300x300x200
PR0044007505000	7,5	440	50	9,84	3x 41,10	300x300x200
PR0044010005000	10	440	50	13,12	3x 54,81	300x300x200
PR0044012505000	12,5	440	50	16,40	3x 68,51	300x300x200
PR0044015005000	15	440	50	19,68	3x 82,21	400x300x200
PR0044020005000	20	440	50	26,24	3x109,61	400x300x200
PR0044025005000	25	440	50	32,80	3x137,01	400x300x200
PR0044030005000	30	440	50	39,36	3x164,42	600x400x260
PR0044040005000	40	440	50	52,49	3x219,22	600x400x260
PR0044050005000	50	440	50	65,61	3x274,03	600x500x260
PR0044060005000	60	440	50	78,73	3x328,83	600x500x260
PR0044080005000	80	440	50	104,97	3x438,44	600x500x260

PRC0 Series with MCB+contactor+lamp indicator

Code	Power	Voltage	Frequency	Current	Capacitance	Dimensions
	KVAr	V	Hz	A	μF	mm
PR00230025C5000	2,5	230	50	6,28	3x 50,14	300x300x200
PR00230050C5000	5	230	50	12,55	3x100,29	300x300x200
PR00230075C5000	7,5	230	50	18,83	3x150,43	300x300x200
PR00230100C5000	10	230	50	25,10	3x200,57	400x300x200
PR00230150C5000	15	230	50	37,65	3x300,86	600x400x260
PR00230200C5000	20	230	50	50,20	3x401,15	600x500x260
PR00230250C5000	25	230	50	62,76	3x501,43	600x500x260

Code	Power	Voltage	Frequency	Current	Capacitance	Dimensions
	KVAr	V	Hz	A	μF	mm
PR00440025C5000	2,5	440	50	3,28	3x 13,70	300x300x200
PR00440050C5000	5	440	50	6,56	3x 27,40	300x300x200
PR00440075C5000	7,5	440	50	9,84	3x 41,10	300x300x200
PR00440100C5000	10	440	50	13,12	3x 54,81	300x300x200
PR00440125C5000	12,5	440	50	16,40	3x 68,51	300x300x200
PR00440150C5000	15	440	50	19,68	3x 82,21	300x300x200
PR00440200C5000	20	440	50	26,24	3x109,61	400x300x200
PR00440250C5000	25	440	50	32,80	3x137,01	400x300x200
PR00440300C5000	30	440	50	39,36	3x164,42	600x400x260
PR00440400C5000	40	440	50	52,49	3x219,22	600x500x260
PR00440450C5000	45	440	50	59,05	3x246,62	600x500x260
PR00440500C5000	50	440	50	65,61	3x274,03	600x500x260
PR00440600C5000	60	440	50	78,73	3x328,83	600x500x260
PR00440800C5000	80	440	50	104,97	3x438,44	800x600x300

*Others powers, voltages and frequencies upon request.