

## MA/C/CE TER RCT SERIES

# Three phase capacitor with connector for harmonics filter application

230/400/440 V, 50Hz

### Characteristics and utility

- Three phase capacitor
- Delta connection
- Discharge resistors incorporated
- Reactive power factor correction
- Special design to install with 210,189 and 134 Hz three phase harmonic filters.
- Dry type
- Connector type terminal
- Indoor terminal

### Safety

- Overpressure disconnection system
- Protection by internal fuses.

### Construction and materials

- Low losses metallized self-healing polypropylene film, high density, high temperature and greater dielectric resistance Volt/ $\mu$
- Polyurethane self-extinguishing resin V0 (Flame retardant), developed under standard UL94 by RTR Energia and with certification number 20141031-E470994
- Aluminium case with bottom fixing M12x16

### Discharge time

- 50V/ 60s

### Standard

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



### Technical Characteristics

Capacitance tolerance	-5 % +10%
Frequency	50 Hz (60 Hz upon request)
Temperature range	-25°C +55°C (Class D)
Dielectric losses	$\leq 0.2$ W/KVAr
Total losses	$\leq 0.40$ W/KVAr*
Over voltage	1.15 x Un
Over current	1.8xIn
Max. THD in voltage	3 % (Specific design for harmonics)
Max. THD in current	30 %
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 350xIn
Protection	IP-20
Humidity	Max. 95%
Altitude	Max. 4000m.a.s.l.
Mounting position	Universal
Min. mounting distance between capacitors	10mm



\* Without resistors

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Code	Power KVAr	Voltage V	Frequency Hz	Detuning Factor	Current A	Capacitance µF	Dimensions mm
C2300255TER7RCT	2,5	230	50	7%	6,28	3x 46,63	70X260
C2300505TER7RCT	5	230	50	7%	12,55	3x 93,27	85X260
C2300755TER7RCT	7,5	230	50	7%	18,83	3x139,90	100X260
C2301005TER7RCT	10	230	50	7%	25,10	3x186,53	100X345
C2301255TER7RCT	12,5	230	50	7%	31,38	3x233,17	120X345
C2301505TER7RCT	15	230	50	7%	37,65	3x279,80	120X345
C2302005TER7RCT	20	230	50	7%	50,20	3x373,07	136X345

Code	Power KVAr	Voltage V	Frequency Hz	Detuning Factor	Current A	Capacitance µF	Dimensions mm
C4000255TER7RCT	2,5	400	50	7%	3,61	3x 15,42	70x260
C4000505TER7RCT	5	400	50	7%	7,22	3x 30,84	70x260
C4000755TER7RCT	7,5	400	50	7%	10,83	3x 46,25	85x260
C4001005TER7RCT	10	400	50	7%	14,43	3x 61,67	100x260
C4001255TER7RCT	12,5	400	50	7%	18,04	3x 77,09	100x260
C4001505TER7RCT	15	400	50	7%	21,65	3x 92,51	100x345
C4002005TER7RCT	20	400	50	7%	28,87	3x123,35	100x345
C4002505TER7RCT	25	400	50	7%	36,08	3x154,18	120x345
C4003005TER7RCT	30	400	50	7%	43,30	3x185,02	120x345
C4003505TER7RCT	35	400	50	7%	50,52	3x215,85	136x345
C0400405TER7RCT	40	400	50	7%	57,74	3x246,69	136x345

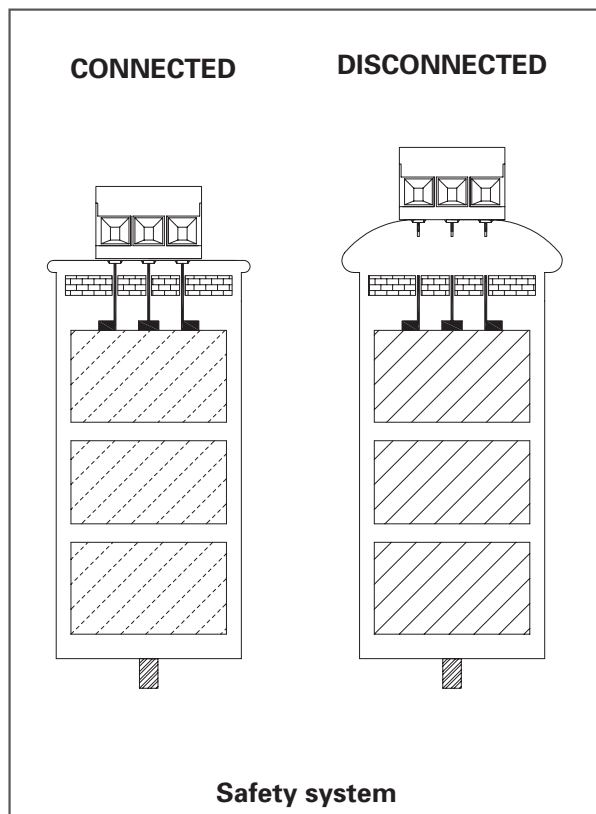
Code	Power KVAr	Voltage V	Frequency Hz	Detuning Factor	Current A	Capacitance µF	Dimensions mm
C4000255TER1RCT	2,5	400	50	14%	3,61	3x 14,26	70x260
C4000505TER1RCT	5	400	50	14%	7,22	3x 28,52	70x260
C4000755TER1RCT	7,5	400	50	14%	10,83	3x 42,77	100x260
C4001005TER1RCT	10	400	50	14%	14,43	3x 57,03	100x260
C4001255TER1RCT	12,5	400	50	14%	18,04	3x 71,29	100x345
C4001505TER1RCT	15	400	50	14%	21,65	3x 85,55	100x345
C4002005TER1RCT	20	400	50	14%	28,87	3x114,06	120x345
C4002505TER1RCT	25	400	50	14%	36,08	3x142,58	120x345
C4003005TER1RCT	30	400	50	14%	43,30	3x171,09	136x345

Code	Power KVAr	Voltage V	Frequency Hz	Factor de SobreVoltage	Current A	Capacitance µF	Dimensions mm
C4400255TER7RCT	2,5	440	50	7%	3,28	3x 12,74	70x260
C4400505TER7RCT	5	440	50	7%	6,56	3x 25,48	70x260
C4400755TER7RCT	7,5	440	50	7%	9,84	3x 38,23	85x260
C4401005TER7RCT	10	440	50	7%	13,12	3x 50,97	85x260
C4401255TER7RCT	12,5	440	50	7%	16,40	3x 63,71	100x260
C4401505TER7RCT	15	440	50	7%	19,68	3x 76,45	100x260
C4402005TER7RCT	20	440	50	7%	26,24	3x101,94	100x345
C4402505TER7RCT	25	440	50	7%	32,80	3x127,42	120x345
C4403005TER7RCT	30	440	50	7%	39,36	3x152,91	120x345
C4403505TER7RCT	35	440	50	7%	45,93	3x178,39	120x345
C4404005TER7RCT	40	440	50	7%	52,49	3x203,88	136x345

Code	Power KVAr	Voltage V	Frequency Hz	Detuning Factor	Current A	Capacitance µF	Dimensions mm
C4400255TER1RCT	2,5	440	50	14%	3,28	3x 11,78	70x260
C4400505TER1RCT	5	440	50	14%	6,56	3x 23,57	70x260
C4400755TER1RCT	7,5	440	50	14%	9,84	3x 35,35	85x260
C4401005TER1RCT	10	440	50	14%	13,12	3x 47,13	100x260
C4401255TER1RCT	12,5	440	50	14%	16,40	3x 8,92	100x260
C4401505TER1RCT	15	440	50	14%	19,68	3x 70,70	100x345
C4402005TER1RCT	20	440	50	14%	26,24	3x 94,27	100x345
C4402505TER1RCT	25	440	50	14%	32,80	3x117,83	120x345
C4403005TER1RCT	30	440	50	14%	39,36	3x141,40	120x345
C4403505TER1RCT	35	440	50	14%	45,93	3x164,96	136x345
C4404005TER1RCT	40	440	50	14%	52,49	3x188,53	136x345

\* Other powers, voltages and frequencies upon request.

# SERIES MAC/C/CE/TER



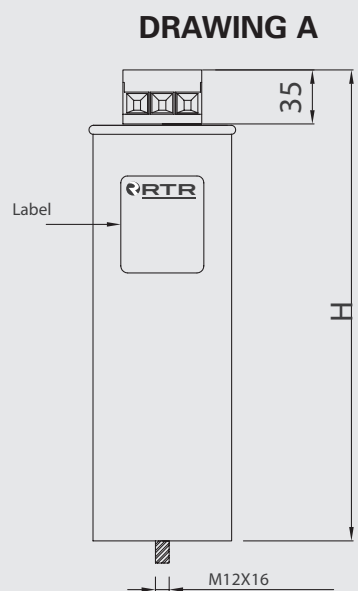
## Temperature (IEC 60831-1/2)

Symbol	Ambient temperature °C		
	Maximum	Highest mean over any period of	
		24h	1 year
A	40	30	20
B	45	35	25
C	50	40	30
D	55	45	35

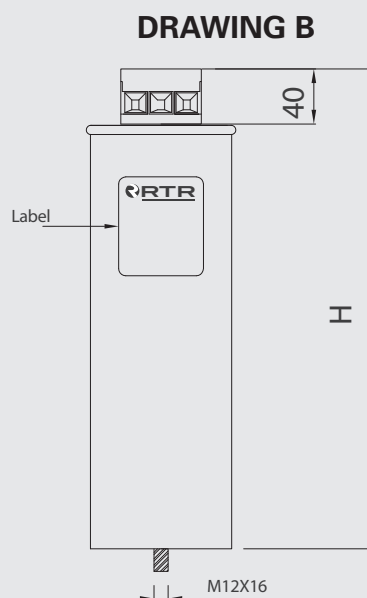
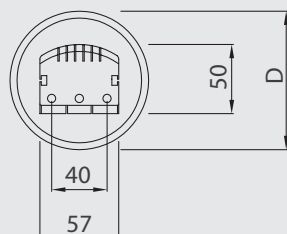
## Dimensions

Dimensions DxH (mm)	Connection terminal Max. cable section 1 kV-RV (mm <sup>2</sup> )	DRAWING
		70x260
85x260	10	
100x260	10	
100x345	35	DRAWING B
120x345	35	
136x345	35	

## Dimensions



Washer DIN 6798 A M12  
Nut DIN 936 M12 ZNC



Washer DIN 6798 A M12  
Nut DIN 936 M12 ZNC

