MA/C/CE TER SERIES

Three phase capacitor with connector

230/400/415/440/480/525 V, 50 Hz

Characteristics and utility

- Three phase capacitor
- Delta connection
- Discharge resistors incorporated
- Reactive power factor correction
- Dry type
- Connector type terminal
- Indoor terminal

Safety

- Overpressure disconnection system
- Protection by internal fuses.

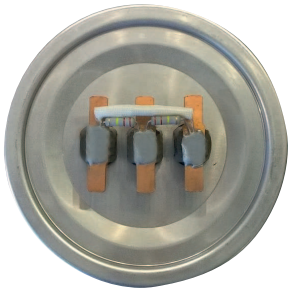
Construction and materials

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

Standard

- IEC 60831-1/2
- EN 60831-1/2

Technical Characteristics	
Capacitance tolerance	-5 % +10%
Frequency	50 Hz (60 Hz upon request)
Temperature range	-25˚C +55 ˚C
Dielectric losses	≤0.2 W/KVAr
Total losses	≤0.45 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	2,15 x Un 2 sec.
Voltage test between terminals and case	3kV for 10 sec. AC
Inrush current	Up to 200 x In
Protection	IP-20
Humidity	Max. 95%
Life Expectancy	100 000 h /Temp. type D) 120 000 h (Temp. type C)
Altitude	2000 a.s.l.
Mounting position	Universal



* Without resistors

Code	Power	Voltage	Frequency	Current	Capacitance	Dimensions
	KVAr	V	Hz	A	µF	mm
C2300255TER0000	2,5	230	50	6,28	3x 50,14	70x260
C2300505TER0000	5	230	50	12,55	3x100,29	85x260
C2300755TER0000	7,5	230	50	18,83	3x150,43	100x260
C2301005TER0000	10	230	50	25,10	3x200,57	100x345
C2301255TER0000	12,5	230	50	31,38	3x250,72	120x345
C2301505TER0000	15	230	50	37,65	3x300,86	120x345
C2302005TER0000	20	230	50	50,20	3x401,15	136x345

Code	Power	Voltage	Frequency	Current	Capacitance	Dimensions
	KVAr	V	Hz	A	µF	mm
C4000255TER0000	2,5	400	50	3,61	3x 16,58	70X260
C4000505TER0000	5	400	50	7,22	3x 33,16	70X260
C4000755TER0000	7,5	400	50	10,83	3x 49,74	85X260
C4001005TER0000	10	400	50	14,43	3x 66,31	85X260
C4001255TER0000	12,5	400	50	18,04	3x 82,89	100X260
C4001505TER0000	15	400	50	21,65	3x 99,47	100X260
C4002005TER0000	20	400	50	28,87	3x132,63	100X345
C4002505TER0000	25	400	50	36,08	3x165,79	120X345
C4003005TER0000	30	400	50	43,30	3x198,94	120X345
C4004005TER0000	40	400	50	57,74	3x265,26	136X345

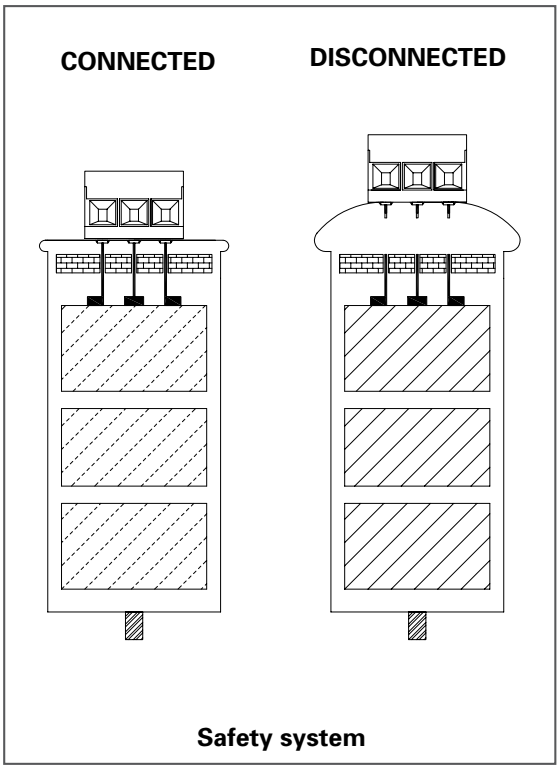
Code	Power	Voltage	Frequency	Current	Capacitance	Dimensions
	KVAr	V	Hz	A	µF	mm
C4150255TER0000	2,5	415	50	3,48	3x 15,40	70X260
C4150505TER0000	5	415	50	6,96	3x 30,80	70X260
C4150755TER0000	7,5	415	50	10,43	3x 46,21	85X260
C4151005TER0000	10	415	50	13,91	3x 61,61	85x260
C4151255TER0000	12,5	415	50	17,39	3x 77,01	100X260
C4151505TER0000	15	415	50	20,87	3x 92,41	100x260
C4152005TER0000	20	415	50	27,82	3x123,21	100X345
C4152505TER0000	25	415	50	34,78	3x154,02	100x345
C4153005TER0000	30	415	50	41,74	3x184,82	120X345
C4154005TER0000	40	415	50	55,65	3x246,43	136X345
C4155005TER0000	50	415	50	69,56	3x308,04	136X345

Code	Power	Voltage	Frequency	Current	Capacitance	Dimensions
	KVAr	V	Hz	A	µF	mm
C4400255TER0000	2,5	440	50	3,28	3x 13,70	70x260
C4400505TER0000	5	440	50	6,56	3x 27,40	70x260
C4400755TER0000	7,5	440	50	9,84	3x 41,10	70x260
C4401005TER0000	10	440	50	13,12	3x 54,81	85x260
C4401255TER0000	12,5	440	50	16,40	3x 68,51	85x260
C4401505TER0000	15	440	50	19,68	3x 82,21	100x260
C4402005TER0000	20	440	50	26,24	3x109,61	100x345
C4402505TER0000	25	440	50	32,80	3x137,01	100x345
C4403005TER0000	30	440	50	39,36	3x164,42	120x345
C4404005TER0000	40	440	50	52,49	3x219,22	136x345
C4405005TER0000	50	440	50	65,61	3x274,03	136x345

Code	Power	Voltage	Frequency	Current	Capacitance	Dimensions
	KVAr	V	Hz	A	µF	mm
C4800255TER0000	2,5	480	50	3,01	3x 11,51	70x260
C4800505TER0000	5	480	50	6,01	3x 23,03	70x260
C4800755TER0000	7,5	480	50	9,02	3x 34,54	85x260
C4801005TER0000	10	480	50	12,03	3x 46,05	85x260
C4801255TER0000	12,5	480	50	15,04	3x 57,56	100x260
C4801505TER0000	15	480	50	18,04	3x 69,08	100x260
C4802005TER0000	20	480	50	24,06	3x 92,10	100x345
C4802505TER0000	25	480	50	30,07	3x115,13	100x345
C4803005TER0000	30	480	50	36,08	3x138,16	120x345
C4804005TER0000	40	480	50	48,11	3x184,21	136x345
C4805005TER0000	50	480	50	60,14	3x230,26	136x345

Code	Power	Voltage	Frequency	Current	Capacitance	Dimensions
	KVAr	V	Hz	A	µF	mm
C5250255TER0000	2,5	525	50	2,75	3x 9,62	70x260
C5250505TER0000	5	525	50	5,50	3x 19,25	70x260
C5250755TER0000	7,5	525	50	8,25	3x 28,87	85x260
C5251005TER0000	10	525	50	11,00	3x 38,50	85x260
C5251255TER0000	12,5	525	50	13,75	3x 48,12	100x260
C5251505TER0000	15	525	50	16,50	3x 57,74	100x260
C5252005TER0000	20	525	50	21,99	3x 76,99	100x345
C5252505TER0000	25	525	50	27,49	3x 96,24	100x345
C5253005TER0000	30	525	50	32,99	3x115,49	120x345
C5254005TER0000	40	525	50	43,99	3x153,98	136x345
C5255005TER0000	50	525	50	54,99	3x192,48	136x345

* Other voltages and frequencies upon request



Temperature (IEC 60831-1/2)

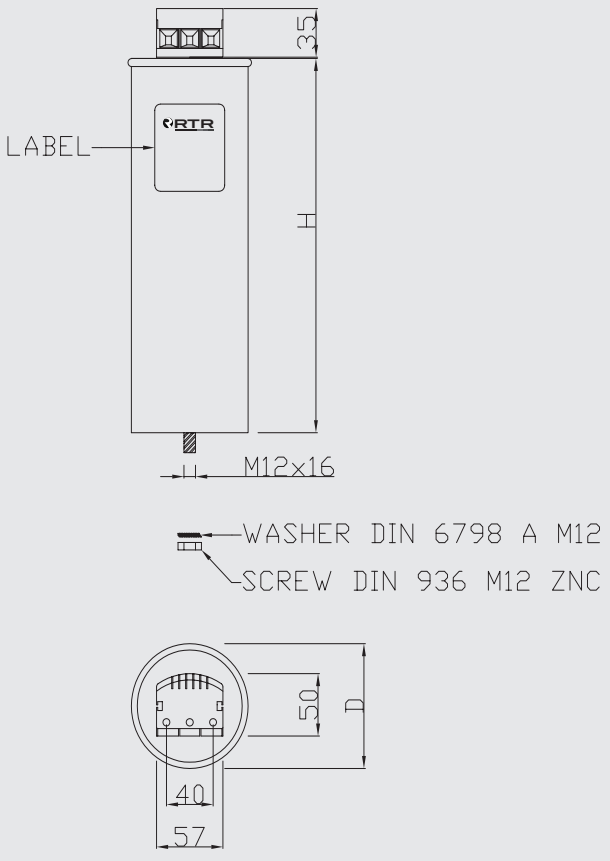
Symbol	Ambient temperature °C		
	Maximun	Highest mean over any period of	
		24h	1 year
A	40	30	20
B	45	35	25
C	50	40	30
D	55	45	35

Dimensions

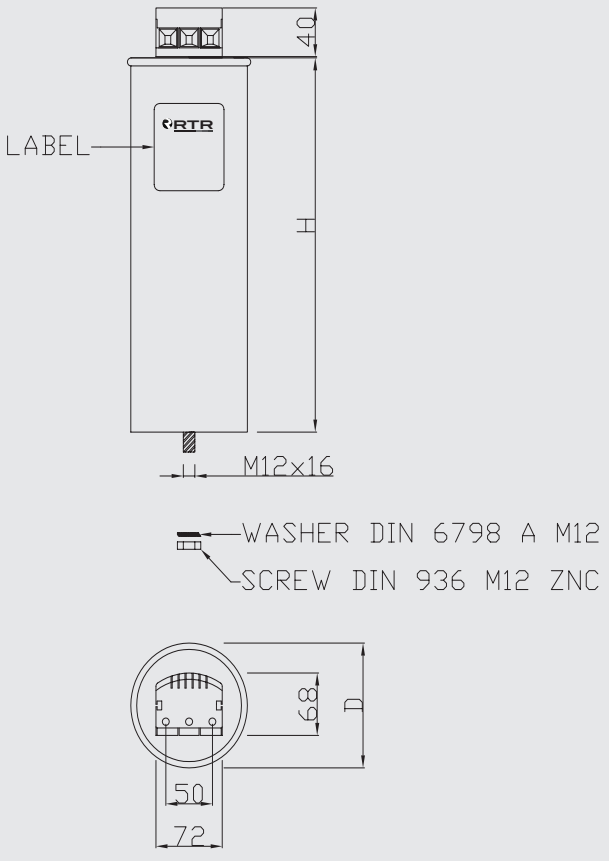
Dimensions	Connection terminal	DRAWING
DxH (mm)	Max. cable section 1 kV-RV (mm^2)	
70x260	10	DRAWING A
85x260	10	
100x260	10	
100x345	35	DRAWING B
120x345	35	
136x345	35	

Dimensions

DRAWING A



DRAWING B



Capacitors for power factor correction

MA/C/CE y EA Series

RTR energía

MA/C/CE SERIES

Three phase capacitor with faston terminal

230/400/440/460/525 V, 50Hz

Characteristics and utility

- Three phase capacitor
- Delta connection
- Discharge resistors incorporated
- Reactive power factor correction
- Dry type
- Connector type terminal
- Indoor terminal

Safety

- Overpressure disconnection system
- Protection by internal fuses.

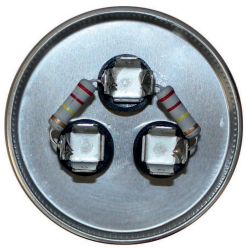
Construction and materials

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

Standards

- IEC 60831-1/2
- EN 60831-1/2

Technical Characteristics	
Capacitance tolerance	-5 % +10%
Frequency	50 Hz (60 Hz upon request)
Temperature range	-25˚C +55 ˚C
Dielectric losses	≤0.2 W/KVAr
Total losses	≤0.45 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	2,15 x Un 2 sec.
Voltage test between terminals and case	3kV for 10 sec. AC
Inrush current	Up to 200 x In
Protection	IP-20
Humidity	Max. 95%
Life Expectancy	100 000 h /Temp. type D) 120 000 h (Temp. type C)
Altitude	2000 a.s.l.
Mounting position	Universal



* Without resistors

Code	Power	Voltage	Frequency	Current	Capacitance	Dimensions
	KVAr	V	Hz	A	µF	mm
C23001050000000	1	230	50	3,77	3x20,06	60x200
C23001550000000	1,5	230	50	3,77	3x30,09	60x200
C23002550000000	2,5	230	50	6,28	3x50,14	60x200

Code	Power	Voltage	Frequency	Current	Capacitance	Dimensions
	KVAr	V	Hz	A	µF	mm
C40001050000000	1	400	50	1,44	3x 6,63	60x200
C40001550000000	1,5	400	50	2,17	3x 9,95	60x200
C40002550000000	2,5	400	50	3,61	3x16,58	60x200
C40003050000000	3	400	50	4,33	3x19,89	60x200
C40004050000000	4	400	50	5,77	3x26,53	60x200
C40005050000000	5	400	50	7,22	3x33,16	60x200

Code	Power	Voltage	Frequency	Current	Capacitance	Dimensions
	KVAr	V	Hz	A	µF	mm
C44001050000000	1	440	50	1,31	3x 5,48	60x200
C44001550000000	1,5	440	50	1,97	3x 8,22	60x200
C44002550000000	2,5	440	50	3,28	3x13,70	60x200
C44003050000000	3	440	50	3,94	3x16,44	60x200
C44004050000000	4	440	50	5,25	3x21,92	60x200
C44005050000000	5	440	50	6,56	3x27,40	60x200

Code	Power	Voltage	Frequency	Current	Capacitance	Dimensions
	KVAr	V	Hz	A	µF	mm
C46001050000000	1	460	50	1,26	3x 5,01	60x200
C46001550000000	1,5	460	50	1,88	3x 7,52	60x200
C46002550000000	2,5	460	50	3,14	3x12,54	60x200
C46003050000000	3	460	50	3,77	3x15,04	60x200
C46004050000000	4	460	50	5,02	3x20,06	60x200
C46005050000000	5	460	50	6,28	3x25,07	60x200

Code	Power	Voltage	Frequency	Current	Capacitance	Dimensions
	KVAr	V	Hz	A	µF	mm
C52501050000000	1	525	50	1,10	3x 3,85	60x200
C52501550000000	1,5	525	50	1,65	3x 5,77	60x200
C52502550000000	2,5	525	50	2,75	3x 9,62	60x200
C52503050000000	3	525	50	3,30	3x11,55	60x200
C52504050000000	4	525	50	4,40	3x15,40	60x200
C52505050000000	5	525	50	5,50	3x19,25	60x200

* Other voltages and frequencies upon request