

# CT15 - 50

P.F.C. Three-phase Capacitors



The three-phase modular capacitors of the **CT** series, available in three types, are designed for low-voltage power factor correction. The construction of the capacitors is made to guarantee excellent thermal dissipation. Three single-phase units are assembled inside, each equipped with an anti-burst device.

## PERFORMANCE DATA

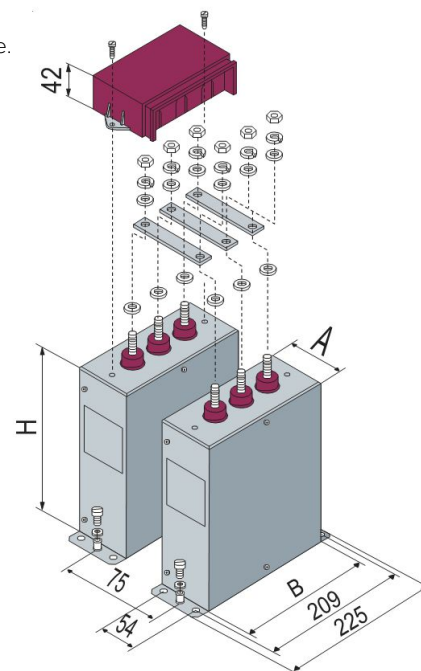
- Capacitance tolerance -5% / +10
- Rated frequency 50 Hz
- Supply Three-phase
- Max. allowable voltage 1,1 Un (max. 8 /24 h)
- Safety device Overpressure disconnecter
- Expected life 80.000 / 130.000 hours

## HARMONIC CONTENT (in absence of resonance)

- CT15: THD(I)max. = 15% on the network
- CT50: THD(I)max. = 35% on the network

## TECHNICAL DATA

Dielectric	Self-healing metallised polypropylene (MKP).
Case	Metal (external housing).
Execution	Vegetable oil, PCB free. On request: dry type, in resin.
Fastening	With screw, maximum tightening torque for lead: 7Nm.
Degree of protection	IP 40 with cover.
Test voltage	2,15 Un / 10 seconds between terminals. 3000 Vac / 10 seconds between terminal and case.
Dielectric losses	$\leq 0,2$ W / kvar.
Total losses of the capacitor	$\leq 0,4$ W / kvar.
Discharge resistors	Included (75V residues within 3 minutes).
Max. voltage / time variation	25V / $\mu$ s
Temperature class category	-25°C / D.
Ambient temperature	Max value: +55°C. Average daily: +45°C Average yearly: +35°C
Type of service	Continuous – indoor.



## QUALITY AND TESTING

Regulations	IEC / EN 60831-1/2.
European directives	Low voltage: 2014/35/CE; E.

## CONFIGURATIONS

### Notes

- The parallel connection bars, which allow the modularity of the product, have a maximum capacity of 72A and are included in the supply.
- The dimensions are fixed: A = 70 mm ; B = 210 mm; H = 250 mm
- The assembly of the CT series units is always vertical.
- In order to make capacitor banks, it is necessary to use suitable discharge resistors and current peak limiting systems upon insertion, compatibly with the characteristics of the capacitors (25 A /  $\mu$ F).

### Table

THD(I)max. = 15%

THD(U)max. = 5%

THD(Ic)max. = 50%

Code	Type	Capacitance $\mu$ F	Nominal Parameters			Reference Parameters			Terminals	Weight kg
			kVAr	V	A	kVAr	V	A		
8371103	CT15	3 x 21	3,4	415	4,7	4,3	440	5,7	M8	2,4
8371106	CT15	3 x 38,5	6,25	415	8,7	8,0	440	10,4	M8	2,8
8371112	CT15	3 x 77	12,5	415	17,4	15,9	440	20,9	M8	3,3

THD(I)max. = 35%

THD(U)max. = 10%

THD(Ic)max. = 80%

Code	Type	Capacitance $\mu$ F	Nominal Parameters			Reference Parameters			Terminals	Weight kg
			kVAr	V	A	kVAr	V	A		
8373505	CT50	3 x 21	3,4	415	4,7	4,3	440	5,7	M8	2,4
8373510	CT50	3 x 38,5	6,25	415	8,7	8,0	440	10,4	M8	2,9
8373512	CT50	3 x 77	12,5	415	17,4	15,9	440	20,9	M8	3,4

Other solutions are available upon request.