CT15 - 35 - 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 of industrial plants. 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

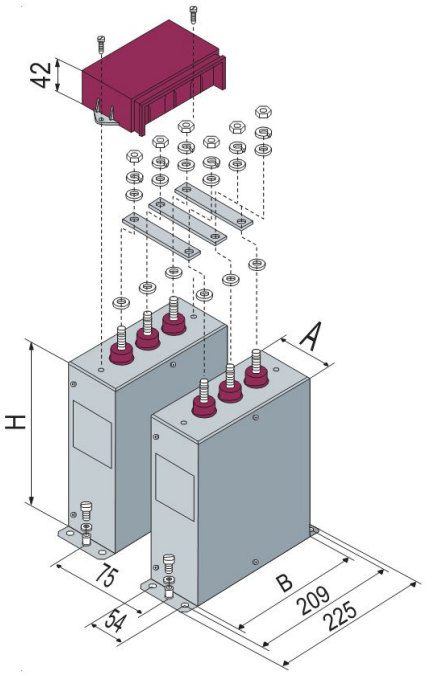
Capacitance tolerance	-5% / +10
Rated frequency	50 Hz
Supply	Three-phase
Max. allowable voltage	1,1 Un (max. 8 /24 h)
Safety device	Overpressure disconnector
Expected life	80.000 / 130.000 hours

HARMONIC CONTENT (in absence of resonance)

CT15:	THD(I)max. = 15%	on the network
CT35:	THD(I)max. = 25%	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	≤ 0,2 W / kvar.
Total losses of the capacitor	≤ 0,4 W / kvar.
Discharge resistors	Included (75V residues within 3 minutes).
Max. voltage / time variation	25V / µs
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; Electromagnetic compatibility: 2014/30/CE.

COMAR Condensatori

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 / µF).

Table

THD(I)max. = 15% THD(U)max. = 5% THD(Ic)max. = 50%

Code	Type	Capacitance	Nominal Parameters			Reference Parameters			Terminals	Weight
		µF	kVAr	V	A	kVAr	V	A		kg
8371105	CT15	3 x 31	5	415	7	-	-	-	M8	2,5
8371110	CT15	3 x 62	10	415	14,0	-	-	-	M8	3,0

THD(I)max. = 25% THD(U)max. = 9% THD(Ic)max. = 70%

Code	Type	Capacitance	Nominal Parameters			Reference Parameters			Terminals	Weight
		µF	kVAr	V	A	kVAr	V	A		kg
8371505	CT35	3 x 21	3,4	415	4,7	4,3	440	5,7	M8	2,4
8371510	CT35	3 x 38,5	6,25	415	8,7	8,0	440	10,4	M8	2,8
8371512	CT35	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	Nominal Parameters			Reference Parameters			Terminals	Weight
		µF	kVAr	V	A	kVAr	V	A	reofori	kg
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.