CTB

P.F.C. Three-phase Capacitors



CTB capacitors, available in three terminations, are the ideal solution to compensate for small loads. When assembled on racks, they can be used in automatic P.F.C. equipment. They are equipped with an **overpressure safety device**.

PERFORMANCE DATA

Capacitance tolerance	-5% / +10%.
Rated frequency	50 Hz (60 Hz on request)
Supply	Three-phase
Max. allowable voltage	1,1 Un (max. 8 /24 h)
Safety device	Overpressure disconnector
Expected life	130,000 hours

HARMONIC CONTENT (in absence of resonance)

THD(I)max. = 10% on the network

TECHNICAL DATA

Dielectric	Self-healing metallised polypropylene (MKP).
Case	Aluminium.
Execution	Resin (dry type).
Fastening	M12 threaded bolt for ground fixing. Nut and washer included.
Degree of protection	IP 40 (with cover for the version Ø 60 ÷ 85 mm) . IP 20 (with clamp for the version Ø ≥ 100 mm) .
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). For Ø ≤ 70 mm, located internally..
Max. voltage / time variation	< 25V / µs
Temperature class category	-25°C / C (on request: -25 ° C / D).
Ambient temperature	Max value: +50°C. Average daily: +40°C Average yearly: +30°C
Type of service	Continuous.

TERMINATIONS

faston 6,3



threaded screw M8



clamp



QUALITY AND TESTING

Regulations	IEC EN 60831-1 : 2015. IEC EN 60831-2 : 2015.
European directives	Low voltage: 2014/35/CE.

CONFIGURATIONS

Notes

• 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. = 10% on the network

Code	Capacitance	50 Hz			Terminals	Execution	Dimensions
	µF	kVAr	V	A			D x H
8302273	3 x 15,5	2,5	415	3,5	faston	resin	60 x 200
8302478	3 x 31	5	415	7	faston	resin	60 x 200
8302579	3 x 62	10	415	14	M8	resin	85 x 200
8302588	3 x 77	12,5	415	17,4	M8	resin	85 x 200
8302599	3 x 92	15	415	20,9	M8	resin	85 x 295
8302610	3 x 123	20	415	27,8	plug	resin	100 x 285
8302622	3 x 154	25	415	34,8	plug	resin	100 x 285
8304371	3 x 27,5	5	440	6,5	faston	resin	70 x 215
8304811	3 x 55	10	440	13,1	M8	resin	85 x 200
8304813	3 x 66	12,5	440	16,4	M8	resin	85 x 200
8304804	3 x 109	20	440	26,2	plug	resin	100 x 310
83048085	3 x 137	25	440	32,8	plug	resin	100 x 310
8304854	3 x 274	50	440	65,6	plug	resin	136 x 310
8306819	3 x 77	20	525	22	plug	resin	100 x 310
8306827	3 x 96	25	525	27,5	plug	resin	120 x 310
8306832	3 x 115	30	525	33	plug	resin	120 x 310
8306840	3 x 154	40	525	44	plug	resin	136 x 310

Other solutions are available upon request.