

Three Phase Capacitor

The three-phase capacitors consist of a cylindrical aluminum case with an mounting stud, M12x12, low-loss self-healing dielectric made from segmented metallized polypropylene film. Filled with a PCB-free, flame-inhibiting mineral filler with adhesive stabilizer and integrated mechanical overpressure disconnecter.

Permanently connected external discharge resistor at the terminations. The connection terminal, available as an accessory, protects against direct contact of the terminals and meets protection class IP20.



Applicable standards

IEC / EN 60831-1 / 2

Technical data

STANDARD CAPACITOR CXT	
Designation	CXT
Nominal voltage	400;440;460;480;525 V (Other voltage on request)
Rated frequency	50/60 Hz
Rated power	From 1 to 30 kvar
Capacity tolerance	-5 / +10 %
Dielectric losses	< 0.2 W / kvar
Residual voltage after 60s	≤50 V
Maximum overvoltage	1.10 x V _N for 8 hours per day 1.15 x V _N for 30 minutes per day 1.20 x V _N for 5 minutes 1.30 x V _N for 1 minute
Maximum continuous overcurrent at rated voltage 50 HZ	1.8 x I _N
Maximum inrush current at rated voltage (50 Hz)	250 x I _N
Test voltage (terminal-terminal)	2.15 x V _N for 2 seconds 1.85 x V _N for 10 seconds

Test voltage (terminal- case)	$V_N < 600 \text{ V} = 3.9 \text{ kV}$, for 2 seconds $V_N > 600 \text{ V} = 4.3 \text{ kV}$ for 2 seconds
Rated insulation voltage depends on V_N and diameter	3.9 / 8 kV 3.9 / 12 kV
Temperature class	0
Min. / max. temperature ³⁾	-40 / +60 °C
Maximum housing temperature	+75 °C
Min. / max. storage temperature	-40 / +85 °C
Maximum humidity	95 % non-condensing
Maximum site altitude	4 000 metres
Service life	170 000 h
Max. number of switching cycles	60 000

Spécifications techniques

Type	Capacitance [µF]	Rated reactive power in kAVr at Rated voltage 50 Hz				Rated current at V_N 50 Hz [A]	Dimensions (d x h) (mm) Weight (net) (kg)
		400 V	440 V	480 V	525 V		
CXT 1-400	3 x 6.63	1.0				1.4	50 x 150 0.5
CXT 1.5-400	3 x 9.95	1.5				2.2	50 x 150 0.5
CXT 2.5-400	3 x 16.6	2.5				3.6	60 x 150 0.5
CXT 5-400	3 x 33.2	5.0				7.2	60 x 150 0.590
CXT 10-400	3 x 66.3	10.0				14.4	70 x 225 1.090
CXT 12.5-400	3 x 82.9	12.5				18.0	70 x 225 1.090
CXT 15-400	3 x 99.5	15.0				21.7	70 x 265 1.240
CXT 20-400	3 x 132.6	20.0				28.9	85 x 278 1.900
CXT 25-400	3 x 166	25.0				36.1	85 x 278 1.900
CXT 30-400	3 x 198.9	30.0				43.3	85 x 320 2.200

PRODUCT DATA SHEET

Type	Capacitance [μF]	Rated reactive power in kAVr at Rated voltage 50 Hz				Rated current at VN 50 Hz [A]	Dimensions (d x h) (mm) Weight (net) (kg)
		400 V	440 V	480 V	525 V		
CXT 3.8-440	3 x 20.8	3.1	3.8			5.0	60 x 150 0.590
CXT 10-440	3 x 54.8	8.33	10.0			13.1	60 x 225 0.840
CXT 12.5-440	3 x 68.5	10.3	12.5			16.4	70 x 225 1.090
CXT 15-440	3 x 82.2	12.4	15.0			19.7	70 x 265 1.240
CXT 20-440	3 x 109.6	16.5	20.0			26.2	85 x 278 1.900
CXT 25-440	3 x 137.0	20.7	25.0			32.8	85 x 278 1.900
CXT 28.2-440	3 x 154.6	23.3	28.2			37.0	85 x 320 2.200
CXT 30-440	3 x 165.8	25.0	30.3			39.7	85 x 320 2.200
CXT 12.5-480	3 x 57.6	8.7	10.5	12.5		15.0	70 x 225 1.090
CXT 15.5-480	3 x 71.4	10.8	13.1	15.5		18.6	70 x 265 1.240
CXT 18-480	3 x 82.9	12.5	15.1	18.0		21.7	70 x 265 1.240
CXT 31-480	3 x 142.8	21.5	26.1	31.0		37.3	85 x 320 2.200
CXT 33.3-480	3 x 153.4	23.1	28.0	33.3		40.1	85 x 320 2.200
CXT 10-525	3 x 38.5	5.8	7.0	8.33	10.0	11.0	70 x 225 1.090
CXT 12.5-525	3 x 48.1	7.3	8.8	10.4	12.5	13.7	70 x 225 1.090
CXT 15-525	3 x 57.7	8.7	10.5	12.5	15.0	16.5	70 x 265 1.240
CXT 20-525	3 x 77.0	11.6	10.5	16.7	20.0	22.0	85 x 278 1.900
CXT 21.6-525	3 x 83.2	12.5	14.1	18.1	21.6	23.8	85 x 278 1.900
CXT 25-525	3 x 96.2	14.5	15.2	20.9	25.0	27.5	85 x 278 1.900
CXT 28.7-525	3 x 110.5	16.7	17.6	24.0	28.7	31.6	85 x 320 2.200
CXT 30-525	3 x 57.7	17.4	21.1	25.1	30.0	33.0	85 x 278 1.900