

CLZ-FP

Tubular capacitor with terminal connection



Description

The **CLZ** tubular capacitor range is composed of capacitors with a tubular casing, of the dry-type, covering a wide range of power and voltage ratings, at 50 and 60 Hz. The design, manufacturing and testing processes of **CLZ** tubular capacitors guarantee the production of top quality and long lasting capacitors.

New refrigeration technology.

CLZ capacitors up to 25 kvar offer a new refrigeration technology that employs nitrogen gas, offering a top-performance, harmless and fireproof refrigeration system.

Application

Its application is based on the compensation in installations with fixed and variable loads (capacitor banks).

Features

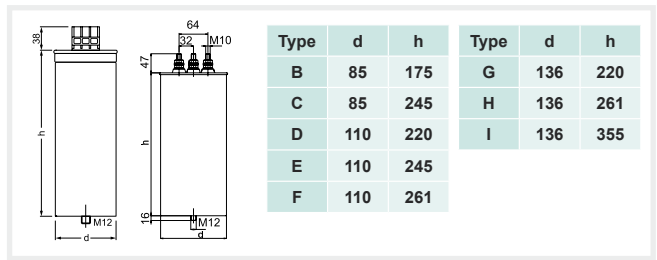
Features		
Overcurrent		1.3 times the rated current permanently
Overvoltage		10 % 8 over 24 hours
		15 % up to 15 minutes over 24 hours
		20 % up to 5 minutes over 24 hours
		30 % up to 1 minute over 24 hours
Insulation level		3 / 15 kV
Tolerance		-5...+15 %
Discharge resistance		75 V / 3 minutes
Frequency		50 or 60 Hz
Losses:	<ul style="list-style-type: none"> • Dielectric • Total 	CLZ system levels: < 0.2 W / kvar < 0.5 W / kvar
Protections		<ul style="list-style-type: none"> • Dielectric regeneration • Expansion system
Construction features		
Enclosure		Aluminium
Power terminals		M10
Fixing screws		M12
Degree of protection		IP 00 for CLZ-FPT and CLZ-FP >30 kvar IP 20 for CLZ-FP ≤ 30 kvar IP 54 for CLZ-FP with terminal cover
Ambient conditions		
Class D temperature:	Daily mean	45 °C
	Annual mean	35 °C
	Maximum	55 °C
	Minimum	-40 °C
Humidity		95 % RH
Altitude		4,000 m
Assembly conditions		
Type of assembly		Vertical / Horizontal
Ventilation		Natural or forced, depending on the cabinet design
Distance between capacitors		Minimum, 2 cm
Standards		
CEI 60831-1, CEI 70/7, UNE 20827, UNE 20010, BS 1650, VDE 560		

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Dimensions



References

230 V

220 V	kvar (50 Hz)		kvar (60 Hz)		Dimensions mm (d x h)	Weight (kg)	Type Fig.	Type	Code
	230 V	240 V	220 V	230 V					
2,3	2,5	2,7	2,7	3	85 x 175	1,2	B	CLZ-FP-23/2.5	R20514
3,7	4	4,4	4,4	4,8	85 x 245	1,6	C	CLZ-FP-23/4	R20517
4,6	5	5,4	5,5	6	85 x 245	1,6	C	CLZ-FP-23/5	R20518
5,7	7,5	8,2	8,2	9	110 x 245	2,6	E	CLZ-FP-23/7.5	R2051A
9,1	10	10,9	11	12	110 x 245	2,6	E	CLZ-FP-23/10	R2051C
11,4	12,5	13,6	--	--	136 x 220	3,3	G	CLZ-FP-23/12.5	R2051D
13,7	25	--	--	--	136 x 220	3,3	G	CLZ-FP-23/15	R2051E

440 V

	400 V	440 V	400 V					
	8	10	10	85 x 245	1	C	CLZ-FP-44/10	R2057C
	10	12,5	12	85 x 245	1,2	C	CLZ-FP-44/12.5	R2057D
	12,5	15	15	85 x 245	1,3	C	CLZ-FP-44/15	R2057E
	15	18,2	18	110 x 245	2	E	CLZ-FP-44/18.2	R2057M
	16	20	20	110 x 245	2	E	CLZ-FP-44/20	R2057F
	20	25	--	110 x 245	2,2	E	CLZ-FP-44/25	R2057G
	25	30	--	110 x 245	3,3	E	CLZ-FP-44/30	R2057H
	32	40	--	136 x 261	4,2	H	CLZ-FP-44/40	R2057J
	40	50	--	136 x 355	5,5	I	CLZ-FP-44/50	R2057K

525 V

480 V	525 V	550 V	480 V	525 V					
1,7	2	2,2	2,0	2,4	85 x 175	1,2	B	CLZ-FP-52/2	R20553
2,1	2,5	2,7	2,5	3	85 x 175	1,2	B	CLZ-FP-52/2.5	R20554
2,5	3	3,3	3,0	3,6	85 x 175	1,2	B	CLZ-FP-52/3	R20555
3,3	4	4,4	4,0	4,8	85 x 175	1,2	B	CLZ-FP-52/4	R20557
4,2	5	5,5	5,0	6	85 x 175	1,2	B	CLZ-FP-52/5	R20558
5,2	6,25	6,8	6,2	7,5	85 x 175	1,2	B	CLZ-FP-52/6.25	R20559
6,3	7,5	8,2	7,5	9	85 x 245	1,6	C	CLZ-FP-52/7.5	R2055A
6,7	8	8,7	8	9,6	85 x 245	1,6	C	CLZ-FP-52/8	R2055B
8,4	10	11	10,0	12	85 x 245	1,6	C	CLZ-FP-52/10	R2055C
10,4	12,5	13,7	12,5	15	110 x 220	2,2	D	CLZ-FP-52/12.5	R2055D
12,5	15	16,5	15,0	18	110 x 245	2,6	E	CLZ-FP-52/15	R2055E
16,7	20	22	20,1	24	110 x 245	2,6	E	CLZ-FP-52/20	R2055F
20,89	25	27,4	24,57	30	110 x 245	2,7	E	CLZ-FP-52/25	R2055G
25	30	33	30	36	136 x 220	2,8	G	CLZ-FP-52/30	R2055H
33	40	44	40	50	136 x 261	2,9	H	CLZ-FP-52/40	R2055J
42	50	55	50	60	136 x 355	3	I	CLZ-FP-52/50	R2055K

460 V - filtering uses

	460 V	440 V	460 V					
	6	6,6	7,2	85 x 175	0,9	B	CLZ-FP-46/6.25	R20589
	12,5	13,7	15	85 x 245	1,2	C	CLZ-FP-46/12.5	R2058D
	15	16,5	18	85 x 245	1,4	C	CLZ-FP-46/15	R2058E
	19	20,9	22,8	85 x 245	1,9	C	CLZ-FP-46/19	R2058L
	25	27,4	30	85 x 245	2,1	C	CLZ-FP-46/25	R2058G
	30	32,9	36,6	136 x 220	3	G	CLZ-FP-46/30	R2058H
	460 V	440 V	460 V	Reactance	Code R.			
	6	6,6	7,2	R-5-400	P70110	B	CLZ-FP-46/6.25	R20589
	12,5	13,7	15	R-10-400	P70115	C	CLZ-FP-46/12.5	R2058D
	15	16,5	18	R-12.5-400	P70117	C	CLZ-FP-46/15	R2058E
	19	20,9	22,8	R-15-400	P70120	C	CLZ-FP-46/19	R2058L
	25	27,4	30	R-20-400	P70125	C	CLZ-FP-46/25	R2058G
	30	32,9	36,6	R-25-400	P70130	G	CLZ-FP-46/30	R2058H