

CLZ-FP

Tubular capacitor with connection strip



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 top quality and long-lasting capacitors. New refrigeration technology. **CLZ** capacitors up to 25 kvar offer new refrigeration technology that uses nitrogen gas, offering a highly efficient, harmless, fireproof refrigeration system.

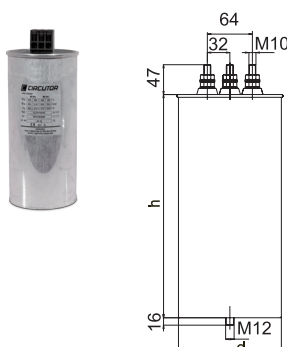
Application

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

Technical features

Electrical features	Overload	1.3 times the nominal hold current	
	Overvoltage	10%, 8 over 24 hours	
		15%, up to 30 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:	CLZ system levels:	
Dielectric	< 0.2 W / kvar		
Total	< 0.4 W / kvar		
Protections	Dielectric regeneration Expansion system		
Mechanical features	Enclosure	Aluminium	
	Power terminals	M10	
	Fixing screws	M12	
	Protection degree	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	
Environmental conditions	Temperature class D:	Daily measurement: 45 °C Annual mean: 35 °C Maximum: 55 °C Minimum: -25 °C	
		Relative humidity	95% without condensation
		Maximum altitude	2,000 m
Assembly conditions	Type of assembly	Vertical / Horizontal	
	Ventilation	Natural or forced, depending on the cabinet design	
	Distance between capacitors	At least 2 cm	
Standards	IEC 60831-1, IEC 70/7, UNE 20827, UNE 20010, BS 1650, VDE 560		

Dimensions



Type	d	h	Type	d	h
B	85	175	G	136	220
C	85	245	H	136	261
D	110	220	I	136	355
E	110	245			
F	110	261			

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References

230 V Single-phase

kvar (50 Hz)						
1x230 V	1x240 V	Dimensions	Weight (kg)	Fig.	Type	Code
2,5	2,7	85 x 245 mm	1	C	CLZ-FP-M-23/2,5	R205C4
5	5,4	85 x 245 mm	1,2	C	CLZ-FP-M-23/5	R205C8
7,5	8,2	116 x 245 mm	1,7	F	CLZ-FP-M-23/7,5	R205CM
10	10,9	116 x 245 mm	2,0	F	CLZ-FP-M-23/10	R205CN

440 V Three-phase

kvar (50 Hz)						
400 V	440 V	Dimensions	Weight (kg)	Fig.	Type	Code
6.25	7.5	85 x 175 mm	0,9	B	CLZ-FP-44/7,5	R2057P
8	10	85 x 245 mm	1	C	CLZ-FP-44/10	R2057C
10	12.5	85 x 245 mm	1,2	C	CLZ-FP-44/12.5	R2057D
12.5	15	85 x 245 mm	1,3	C	CLZ-FP-44/15	R2057E
15	18.2	116 x 245 mm	2	E	CLZ-FP-44/18.2N	R2057M
16	20	116 x 245 mm	2	E	CLZ-FP-44/20N	R2057F
20	25	116 x 245 mm	2,2	E	CLZ-FP-44/25N	R2057G
25	30	116 x 245 mm	3,3	E	CLZ-FP-44/30N	R2057H
32	40	136 x 261 mm	4,2	H	CLZ-FP-44/40	R2057J
40	50	136 x 261 mm	5,5	H	CLZ-FP-44/50	R2057K

525 V Three-phase

kvar (50 Hz)							
480 V	525 V	550 V	Dimensions	Weight (kg)	Fig.	Type	Code
1.7	2	2.2	85 x 175 mm	0.6	B	CLZ-FP-52/2	R20553
2.1	2.5	2.7	85 x 175 mm	0.6	B	CLZ-FP-52/2.5	R20554
2.5	3	3.3	85 x 175 mm	0.7	B	CLZ-FP-52/3	R20555
3.3	4	4.4	85 x 175 mm	0.8	B	CLZ-FP-52/4	R20557
4.2	5	5.5	85 x 175 mm	0.8	B	CLZ-FP-52/5	R20558
5.2	6.25	6.8	85 x 175 mm	0.9	B	CLZ-FP-52/6.25	R20559
6.3	7.5	8.2	85 x 245 mm	0.9	C	CLZ-FP-52/7.5	R2055A
6.7	8	8.7	85 x 245 mm	0.9	C	CLZ-FP-52/8	R2055B
8.4	10	11	85 x 245 mm	1.0	C	CLZ-FP-52/10	R2055C
10.4	12.5	13.7	85 x 245 mm	1.1	D	CLZ-FP-52/12.5	R2055D
12.5	15	16.5	116 x 245 mm	1.3	E	CLZ-FP-52/15	R2055E
16.7	20	22	116 x 245 mm	1.9	E	CLZ-FP-52/20	R2055F
20.89	25	27.4	116 x 245 mm	2.1	E	CLZ-FP-52/25	R2055G
25	30	33	136 x 220 mm	3.3	G	CLZ-FP-52/30	R2055H
31.3	37.5	41.5	136 x 220 mm	3.1	G	CLZ-FP-52/37.5	R2415I
33	40	44	136 x 261 mm	4.0	H	CLZ-FP-52/40	R2055J
42	50	55	136 x 355 mm	5.5	I	CLZ-FP-52/50	R2055K

690 V Three-phase

kvar (60 Hz)						
50 Hz	60 Hz	Dimensions	Weight (kg)	Fig.	Type	Code
5	6	85 x 245 mm	0,8	C	CLZ-FP-69/5	R20598
10	12	85 x 245 mm	1,0	C	CLZ-FP-69/10	R2059C
12,5	15	85 x 245 mm	1,2	C	CLZ-FP-69/12,5	R2059D
15	18	85 x 245 mm	1,3	C	CLZ-FP-69/15	R2059E
20	25	116 x 245 mm	1,9	E	CLZ-FP-69/20	R2059F
25	30	116 x 245 mm	2,1	E	CLZ-FP-69/25	R2059G
50	60	136 x 355 mm	5,5	I	CLZ-FP-69/50	R2059K

525 V Three-phase, for filtering

kvar (60 Hz)							
480 V	525 V	For reactor	Dimensions	Weight (kg)	Fig.	Type	Code
2	2.5		85 x 175 mm	0.6	B	CLZ-FP-52/2,5	R205G4
4	5		85 x 175 mm	0.8	B	CLZ-FP-52/5	R205G8
5	6.25	RX-6.25-480-60Hz-7%	85 x 245 mm	0.9	C	CLZ-FP-52/6,25	R205G9
6.25	7.5	RX-7.5-480-60Hz-7%	85 x 245 mm	0.9	C	CLZ-FP-52/7,5	R205GA
8	10		85 x 245 mm	1.0	C	CLZ-FP-52/10	R205GC
12.5	15	RX-15-480-60Hz-7%	85 x 245 mm	1.3	C	CLZ-FP-52/15	R205GE
20	25	RBX-25-480-60Hz-7%	116 x 245 mm	2.1	E	CLZ-FP-52/25	R205GG
25	30	RBX-30-480-60Hz-7%	116 x 245 mm	3.3	E	CLZ-FP-52/30	R205GH

230 V Three-phase

kvar (50 Hz)										
220 V	230 V	240 V	Dimensions	Weight (kg)	Fig.	Type	Code			
2.3	2.5	2.7	85 x 175 mm	1.2	B	CLZ-FP-23/2.5	R20514			
3.7	4	4.4	85 x 245 mm	1.6	C	CLZ-FP-23/4	R20517			
4.6	5	5.4	85 x 245 mm	1.6	C	CLZ-FP-23/5	R20518			
5.7	7.5	8.2	116 x 245 mm	2.6	E	CLZ-FP-23/7.5	R205CA			
9.1	10	10.9	116 x 245 mm	2.6	E	CLZ-FP-23/10	R205CC			
11.4	12.5	13.6	116 x 245 mm	3.3	E	CLZ-FP-23/12.5	R205CD			
13.7	25	-	136 x 220 mm	3.3	G	CLZ-FP-23/15	R2051E			

460 V Three-phase, for filtering

kvar (50 Hz)										
460 V	For reactor	Dimensions	Weight (kg)	Fig.	Type	Code				
6	RX-5-400-7%	85 x 175 mm	0,9	B	CLZ-FP-44/7,5	R2057P				
12,5	RX-10-400-7%	85 x 245 mm	1,2	C	CLZ-FP-44/10	R2057C				
15	RX-12,5-400-7%	85 x 245 mm	1,4	C	CLZ-FP-44/12,5	R2057D				
19	RX-15-400-7%	116 x 245 mm	1,9	E	CLZ-FP-44/15	R2057E				
25	RBX-20-400-7%	116 x 245 mm	2,1	E	CLZ-FP-44/18,2	R2057M				
30	RBX-25-400-7%	136 x 220 mm	3,0	G	CLZ-FP-44/50	R2057K				

240 V Three-phase

kvar (60 Hz)						
240 V	Dimensions	Weight (kg)	Fig.	Type	Code	
2.5	85 x 245 mm	1.2	C	CLZ-FP-24/2,5	R205C1	
5	85 x 245 mm	1.6	C	CLZ-FP-24/5	R205C3	
6.25	85 x 245 mm	1.6	C	CLZ-FP-24/6,25	R205C5	
7.5	85 x 245 mm	2.6	C	CLZ-FP-24/7,5	R205C7	
10	116 x 245 mm	2.6	E	CLZ-FP-24/10	R205C9	
12.5	136 x 220 mm	3.3	G	CLZ-FP-24/12.5	R205CB	
15	136 x 220 mm	3.3	G	CLZ-FP-24/15	R205CP	

480 V Three-phase

kvar (60 Hz)						
480 V	Dimensions	Weight (kg)	Fig.	Type	Code	
3	85 x 175 mm	0.8	B	CLZ-FP-48/3	R205B1	
5	85 x 175 mm	0.9	B	CLZ-FP-48/5	R205B2	
7.5	85 x 245 mm	1.0	C	CLZ-FP-48/7.5	R205B3	
10	85 x 245 mm	1.0	C	CLZ-FP-48/10	R205B4	
12.5	85 x 245 mm	1.1	C	CLZ-FP-48/12.5	R205B5	
15	85 x 245 mm	1.2	C	CLZ-FP-48/15	R205B6	
20	116 x 245 mm	1.9	E	CLZ-FP-48/20	R205B9	
25	116 x 245 mm	2.1	E	CLZ-FP-48/25	R205BA	
30	136 x 220 mm	2.6	G	CLZ-FP-48/30	R205BB	
40	136 x 261 mm	3.8	H	CLZ-FP-48/40	R205BF	
50	136 x 355 mm	5.2	I	CLZ-FP-48/50	R205BH	