



## CLZ-FP-44/15-60Hz-HD

CLZ-FP-44/15-60Hz-HD, Three-phase tubular power capacitor 60 Hz

Code: R2H64E.

- > Terminal: A
- > Frequency (Hz): 60
- > kvar (400 V): 12,4
- > kvar (440 V): 15
- > Cover (opc.): 1
- > Use voltage (V): 400 | 440

### Description

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CLZ-HD (Heavy duty) 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 CLZ-HD capacitors are designed to be installed in installations with extreme working conditions. The design, manufacturing and testing processes guarantee the production of top quality and long lasting capacitors. Those CLZ-HD capacitors offer a new refrigeration technology by means of nitrogen gas\*, being a refrigerating system of high benefits, inert and non flammable.

### Application

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Its application is based on compensation in installations with static or variable loads (capacitor banks). Especially designed to be installed in roughly environments with the most extreme conditions due to its longer life and high temperature resistance.



## CLZ-FP-44/15-60Hz-HD

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### Specifications

#### AC power supply

Frequency	60 Hz
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#### Electrical characteristics

Losses (W)	Dielectric: < 0,2 W / kvar Total: < 0,4 W / kvar
Discharge resistance	50 V / 1 min (0,5 - 30 kvar) 75 V / 3 min (33 - 50 kvar)
Surge	10 % 8h in 24 h 15 % up to 30 min in 24 hours 20 % up to 5 min in 24 hours 30 % up to 1 min in 24 hours
Tolerance C	-5 ... +10 %
Maximum phase current	400 x In
Voltage	440 V
Insulation voltage, circuit	3 / 8 kV

#### Mechanical characteristics

Size (mm) width x height x depth	85 x 276 x 85 (mm)
Envelope	Aluminum
Torque setting	1,2 ... 1,7 Nm / Earth: 5 Nm máx.
Cable gauge at input and output terminals	16mm <sup>2</sup>
Fastening	M12 fastening screws earth conductor
Ventilation	Natural or forced depending on the cabinet
Weight (kg)	0,98

#### Environmental characteristics

Protection class	IP 20 / IP 54 with terminal cover (optional) (for models Ø 85, 100, 116 mm)
Relative humidity (without condensation)	95%
Installation, location, position.	Vertical / Horizontal. Minimum distance between condensers 2 cm.
Operating temperature	T° class D: Daily average: 45 °C, annual average: 35 °C, maximum: 65 °C, minimum: -50 °C

#### Standards

Certifications	VDE 560
Electrical safety, Maximum height (m)	4000
Standards	IEC 60831-1-1/2

#### Current measurement circuit

Permanent overload	1,8 In
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#### Protection

Circuit breaker type	Dielectric regeneration Expansion system
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## CLZ-FP HD 60Hz

Three-phase tubular power capacitor (Heavy Duty range)

CODE	TYPE	kvar (230 V)	kvar (240 V)	Use voltage (V)	kvar (400 V)	kvar (440 V)	kvar (460 V)	kvar (480 V)	kvar (525 V)	kvar (600 V)	kvar (660 V)	kvar (690 V)
R2H622	CLZ-FPT-24/2,5-60Hz-HD	2,3	2,5	240								
R2H626	CLZ-FP-24/5-60Hz-HD	4,6	5	240								
R2H627	CLZ-FP-24/6,25-60Hz-HD	5,75	6,25	240								
R2H628	CLZ-FP-24/7,5-60Hz-HD	6,9	7,5	240								
R2H628	CLZ-FP-24/10-60Hz-HD	9,2	10	240								
R2H620	CLZ-FP-24/12,5-60Hz-HD	11,5	12,5	240								
R2H62E	CLZ-FP-24/15-60Hz-HD	13,8	15	240								
R2H641	CLZ-FPT-44/1,25-60Hz-HD			400   440	1	1,25						
R2H642	CLZ-FPT-44/2,5-60Hz-HD			400   440	2,1	2,5						
R2H643	CLZ-FPT-44/3-60Hz-HD			400   440	2,5	3						
R2H644	CLZ-FPT-44/3,75-60Hz-HD			400   440	3,1	3,75						
R2H646	CLZ-FPT-44/5-60Hz-HD			400   440	4,15	5						
R2H647	CLZ-FP-44/6,25-60Hz-HD			400   440	5,2	6,25						
R2H648	CLZ-FP-44/7,5-60Hz-HD			400   440	6,2	7,5						
R2H648	CLZ-FP-44/10-60Hz-HD			400   440	8,3	10						
R2H640	CLZ-FP-44/12,5-60Hz-HD			400   440	10,3	12,5						
R2H64E	CLZ-FP-44/15-60Hz-HD			400   440	12,4	15						
R2H64J	CLZ-FP-44/20-60Hz-HD			400   440	16,5	20						
R2H64L	CLZ-FP-44/25-60Hz-HD			400   440	20,7	25						
R2H64N	CLZ-FP-44/30-60Hz-HD			400   440	24,8	30						
R2H64R	CLZ-FP-44/40-60Hz-HD			400   440	33,1	40						
R2H64S	CLZ-FP-44/50-60Hz-HD			400   440	41,3	50						
R2H762	CLZ-FPT-48/2,5-60Hz-HD			480			2,3	2,5				
R2H766	CLZ-FPT-48/5-60Hz-HD			480			4,6	5				
R2H767	CLZ-FPT-48/6,25-60Hz-HD			480			5,75	6,25				
R2H768	CLZ-FPT-48/7,5-60Hz-HD			480			6,9	7,5				
R2H668	CLZ-FP-48/10-60Hz-HD			480			9,2	10				
R2H660	CLZ-FP-48/12,5-60Hz-HD			480			11,5	12,5				
R2H66E	CLZ-FP-48/15-60Hz-HD			480			13,8	15				
R2H66J	CLZ-FP-48/20-60Hz-HD			480			18,4	20				
R2H66L	CLZ-FP-48/25-60Hz-HD			480			23	25				
R2H66N	CLZ-FP-48/30-60Hz-HD			480			27,6	30				
R2H66R	CLZ-FP-48/40-60Hz-HD			480			36,75	40				
R2H66S	CLZ-FP-48/50-60Hz-HD			480			46	50				
R2H772	CLZ-FPT-52/2,5-60Hz-HD			525				2,1	2,5			
R2H776	CLZ-FPT-52/5-60Hz-HD			525				4,2	5			
R2H777	CLZ-FPT-52/6,25-60Hz-HD			525				5,2	6,25			
R2H778	CLZ-FPT-52/7,5-60Hz-HD			525				6,25	7,5			
R2H67A	CLZ-FP-52/8,5-60Hz-HD			525				7,1	8,5			
R2H67B	CLZ-FP-52/10-60Hz-HD			525				8,4	10			
R2H67C	CLZ-FP-52/11,5-60Hz-HD			525				9,6	11,5			
R2H67D	CLZ-FP-52/12,5-60Hz-HD			525				10,5	12,5			
R2H67E	CLZ-FP-52/15-60Hz-HD			525				12,5	15			
R2H67L	CLZ-FP-52/17-60Hz-HD			525				14,2	17			
R2H67J	CLZ-FP-52/20-60Hz-HD			525				16,7	20			
R2H67K	CLZ-FP-52/22,5-60Hz-HD			525				18,8	22,5			
R2H67L	CLZ-FP-52/25-60Hz-HD			525				20,9	25			
R2H67N	CLZ-FP-52/30-60Hz-HD			525				25	30			
R2H67P	CLZ-FP-52/34-60Hz-HD			525				28,4	34			
R2H67R	CLZ-FP-52/40-60Hz-HD			525				33,4	40			
R2H782	CLZ-FPT-60/2,5-60Hz-HD			600					2,5			
R2H786	CLZ-FPT-60/5-60Hz-HD			600					5			
R2H787	CLZ-FPT-60/6,25-60Hz-HD			600					6,25			
R2H788	CLZ-FPT-60/7,5-60Hz-HD			600					7,5			
R2H68A	CLZ-FP-60/10-60Hz-HD			600					10			
R2H68B	CLZ-FP-60/12,5-60Hz-HD			600					12,5			
R2H68E	CLZ-FP-60/15-60Hz-HD			600					15			
R2H68L	CLZ-FP-60/17,5-60Hz-HD			600					17,5			
R2H68J	CLZ-FP-60/20-60Hz-HD			600					20			
R2H68K	CLZ-FP-60/21-60Hz-HD			600					21			
R2H68L	CLZ-FP-60/25-60Hz-HD			600					25			
R2H68N	CLZ-FP-60/30-60Hz-HD			600					30			
R2H68P	CLZ-FP-60/34,5-60Hz-HD			600					34,5			
R2H792	CLZ-FPT-69/2,5-60Hz-HD			690						2,3	2,5	
R2H796	CLZ-FPT-69/5-60Hz-HD			690						4,6	5	
R2H798	CLZ-FPT-69/7,5-60Hz-HD			690						6,9	7,5	
R2H69B	CLZ-FP-69/10-60Hz-HD			690						9,15	10	
R2H69D	CLZ-FP-69/12,5-60Hz-HD			690						11,4	12,5	
R2H69E	CLZ-FP-69/15-60Hz-HD			690						13,7	15	
R2H69J	CLZ-FP-69/20-60Hz-HD			690						18,3	20	
R2H69L	CLZ-FP-69/25-60Hz-HD			690						22,9	25	
R2H69N	CLZ-FP-69/30-60Hz-HD			690						27,5	30	
R2H69R	CLZ-FP-69/40-60Hz-HD			690						36,6	40	
R2H69S	CLZ-FP-69/50-60Hz-HD			690						45,75	50	



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All models are of the inert gas type, except for those with a 63.5 mm diameter and 136x355 mm size. The dimensions (dxh) are shown for the tube only. Please consult the dimensions drawing at the end of this section for more information about the actual dimensions. Terminal: maximum cross-section of type A cables: 16 mm<sup>2</sup>, type B: 25 mm<sup>2</sup>, type C: 35 mm<sup>2</sup>, F: Faston 6.3x0.8 mm and 12 A maximum current.

## Dimensions

