



## CLZ-FP-44/10-HD

CLZ-FP-44/10-HD, Three-phase tubular power capacitor

Code: R2H54B.

- > Terminal: A
- > Frequency (Hz): 50
- > kvar (400 V): 8
- > kvar (440 V): 10
- > Use voltage (V): 400 | 440

### Description

**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** capacitors offer a new refrigeration technology by means of nitrogen gas\*, being a refrigerating system of high benefits, inert and non flammable.

### Application

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-44/10-HD

Tubular capacitor

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### Specifications

#### AC power supply

Frequency	50 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 I <sub>n</sub>
Maximum transient current	1,8 I <sub>n</sub>
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
Thermal management	Natural or forced according to cabinet design
Fastening	M12 fastening screws earth conductor
Weight (kg)	0,9

#### Environmental characteristics

Relative humidity (without condensation)	95%
Installation, location, position.	Vertical / Horizontal. Minimum distance between condensers 2 cm.
Working 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

#### Protection

Circuit breaker type	Dielectric regeneration Expansion system
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#### CLZ-FP HD 50Hz

Three-phase tubular power capacitor (Heavy Duty range)



## CLZ-FP-44/10-HD

Tubular capacitor

Code: R2H54B.

CODE	TYPE	kvar (220 V)	kvar (230 V)	Use voltage (V)	kvar (400 V)	kvar (440 V)	kvar (460 V)	kvar (500 V)	kvar (525 V)	kvar (660 V)	kvar (690 V)
<b>Terminal block, Un = 3 x 230 V / 50 Hz</b>											
R2H516.	CLZ-FP-23/5-HD	4,6	5	230							
R2H517.	CLZ-FP-23/6,25-HD	5,7	6,25	230							
R2H518.	CLZ-FP-23/7,5-HD	6,8	7,5	230							
R2H51B.	CLZ-FP-23/10-HD	9,15	10	230							
R2H51D.	CLZ-FP-23/12,5-HD	11,4	12,5	230							
R2H51E.	CLZ-FP-23/15-HD	13,75	15	230							
<b>Faston terminal, Un = 3 x 440 V / 50 Hz</b>											
R2H541.	CLZ-FPT-44/1,25-HD			400   440	1	1,25					
R2H542.	CLZ-FPT-44/2,5-HD			400   440	2	2,5					
R2H543.	CLZ-FPT-44/3-HD			400   440	2,5	3					
R2H544.	CLZ-FPT-44/3,75-HD			400   440	3	3,75					
R2H546.	CLZ-FPT-44/5-HD			400   440	4	5					
R2H547.	CLZ-FPT-44/6,25-HD			400   440	5	6,25					
R2H848.	CLZ-FPT-44/7,5-HD			400   440	6,25	7,5					
<b>Terminal block, Un = 3 x 440 V / 50 Hz</b>											
R2H54B.	CLZ-FP-44/10-HD			400   440	8	10					
R2H54D.	CLZ-FP-44/12,5-HD			400   440	10	12,5					
R2H54E.	CLZ-FP-44/15-HD			400   440	12,5	15					
R2H54G.	CLZ-FP-44/18,2-HD			400   440	15	18,2					
R2H54J.	CLZ-FP-44/20-HD			400   440	16	20					
R2H54L.	CLZ-FP-44/25-HD			400   440	20	25					
R2H54N.	CLZ-FP-44/30-HD			400   440	25	30					
R2H54R.	CLZ-FP-44/40-HD			400   440	32	40					
R2H54S.	CLZ-FP-44/50-HD			400   440	40	50					
<b>Faston terminal, Un = 3 x 460 V / 50 Hz</b>											
R2H857.	CLZ-FPT-46/6,25-HD			460		5,7	6,25				
<b>Terminal block, Un = 3 x 460 V / 50 Hz</b>											
R2H55D.	CLZ-FP-46/12,5-HD			460		11,4	12,5				
R2H55E.	CLZ-FP-46/15-HD			460		13,7	15				
R2H55H.	CLZ-FP-46/19-HD			460		17,4	19				
R2H55L.	CLZ-FP-46/25-HD			460		22,9	25				
R2H55N.	CLZ-FP-46/30-HD			460		27,4	30				
R2H55P.	CLZ-FP-46/33.3-HD			460		30,5	33,3				
<b>Faston terminal, Un = 3 x 525 V / 50 Hz</b>											
R2H876.	CLZ-FPT-52/5-HD			525			4,5	5			
<b>Terminal block, Un = 3 x 525 V / 50 Hz</b>											
R2H579.	CLZ-FP-52/8-HD			525			7,25	8			



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R2H57B.	CLZ-FP-52/10-HD			525				9,1	10		
R2H57D.	CLZ-FP-52/12,5-HD			525				11,3	12,5		
R2H57E.	CLZ-FP-52/15-HD			525				13,6	15		
R2H57J.	CLZ-FP-52/20-HD			525				18,15	20		
R2H57L.	CLZ-FP-52/25-HD			525				22,7	25		
R2H57N.	CLZ-FP-52/30-HD			525				27,2	30		
R2H57P.	CLZ-FP-52/37,5-HD			525				34	37,5		
R2H57R.	CLZ-FP-52/40-HD			525				36,3	40		
R2H57S.	CLZ-FP-52/50-HD			525				45,4	50		
<b>Terminal block, Un = 3 x 690 V / 50 Hz</b>											
R2H598.	CLZ-FP-69/7,5-HD			690						6,9	7,5
R2H59B.	CLZ-FP-69/10-HD			690						9,15	10
R2H59D.	CLZ-FP-69/12,5-HD			690						11,4	12,5
R2H59E.	CLZ-FP-69/15-HD			690						13,7	15
R2H59J.	CLZ-FP-69/20-HD			690						18,3	20
R2H59L.	CLZ-FP-69/25-HD			690						22,9	25
R2H59N.	CLZ-FP-69/30-HD			690						27,5	30
R2H59R.	CLZ-FP-69/40-HD			690						36,6	40
R2H59S.	CLZ-FP-69/50-HD			690						45,75	50

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



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### Dimensions

