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HIGH-VOLTAGE ELECTRIC

Product Catalogue



kampa

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KAMPA ELECTRIC CO.,LTD.

COMMITTED TO PROVIDING OVERALL SOLUTIONS FOR HIGH-VOLTAGE ELECTRICAL PRODUCTS

Pursue excellence

Time can change everything, only quality lasts forever
Focus on the viewpoints of all people,
demonstrate the outstanding qualities,
and create the ultimate quality,
It is the goal that we will try our best to achieve in every field.

Lead innovation

Improve energy efficiency and optimize industrial productivity
Create an energy-saving and efficient power installation system
Promoting smart-based grid solutions!



About Kampa Electric

who are we?

Kampa, established in 2009. We are manufacturing, research & development and trading in the electric&electronic field. We have our own brand: Elexpert, Kampa and Nonarc; meanwhile we accept OEM and ODM. Most of our products gain CE, BV, CCC, Semok, CB, ROHS approval. And our main markets are South America, Russia. Europe, Southeast Asia, Africa, etc..

Professionalism, high efficiency & innovation, Passion belongs to Kampa!

Why to choose our Kampa?

We dedicate to the Electric Electronic fields more than 13 years.

We have wide product ranges. It can meet with the requirements of retail shops, wholesales, and manufacturers. Welcome customers to be our agent in your local market.

We have our own research & development team.

We have high technology equipments to test the quality. Our products is very popular in the market because of its high quality and low cost.

We think what customers think. we offer what customers need. and we service what we can.

OEM and ODM are available.

We are learning to improve ourselves for our careers all the time.

We attend society activities to help old people and students in the remote areas.

We are a Youthful, enthusiasm and responsible team. We are responsible for what we do.

Trust us, choose us, let's be your feets and eyes in China! Welcome to Visit our company!

2009

The company was established in 2009

13 years in the electrical industry

Obtained CE,BV,CCC,Semok, CB,ROHS certification





Precision Manufacturing

Over the years, we have always relied on scientific and technological innovation to improve the comprehensive strength of the enterprise, adhere to the market-oriented, combined with market demand and technological development trends, select research and development projects, we focus on product research and development, aiming at the world advanced level, to achieve a high starting point, high technology New and fast. Adhering to the basic concept of "people-oriented, meritocracy" in the management system, advanced technology and perfect management will shape the perfect quality of products.



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- 60 JDZX18-6,10R Single-Phase Fully Enclosed Semi-Insulated With Fuse Cast Voltage Transformer HT PT
- 62 LZBW-6,10 Outing Current Transformer
- 64 JDZW(X)-3,6,10 Outing Voltage Transformer

HIGH-VOLTAGE ELECTRIC VACUUM CIRCUIT BREAKER



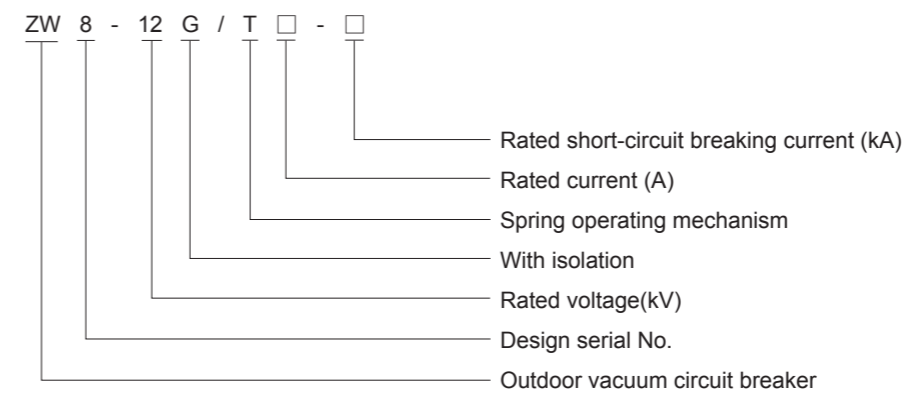
ZW8-12(G) Series Outdoor High Voltage Vacuum Circuit Breaker



Product Structure

ZW8-12 model outdoor AC vacuum circuit breaker is used to make and break load current, overload current and short-circuit current in 12kV,50/60Hz power system. Its applicable for substations, industry and mining, urban and rural electricity power networks, especially applicable in occasions with frequent operation and automatic power distribution network. It accords with the standards of IEC62271-100 & GB1984: AC high voltage circuit breaker, IEC60694 & GB/T11022: HV General technical requirement of switch and control apparatus.

Model Description



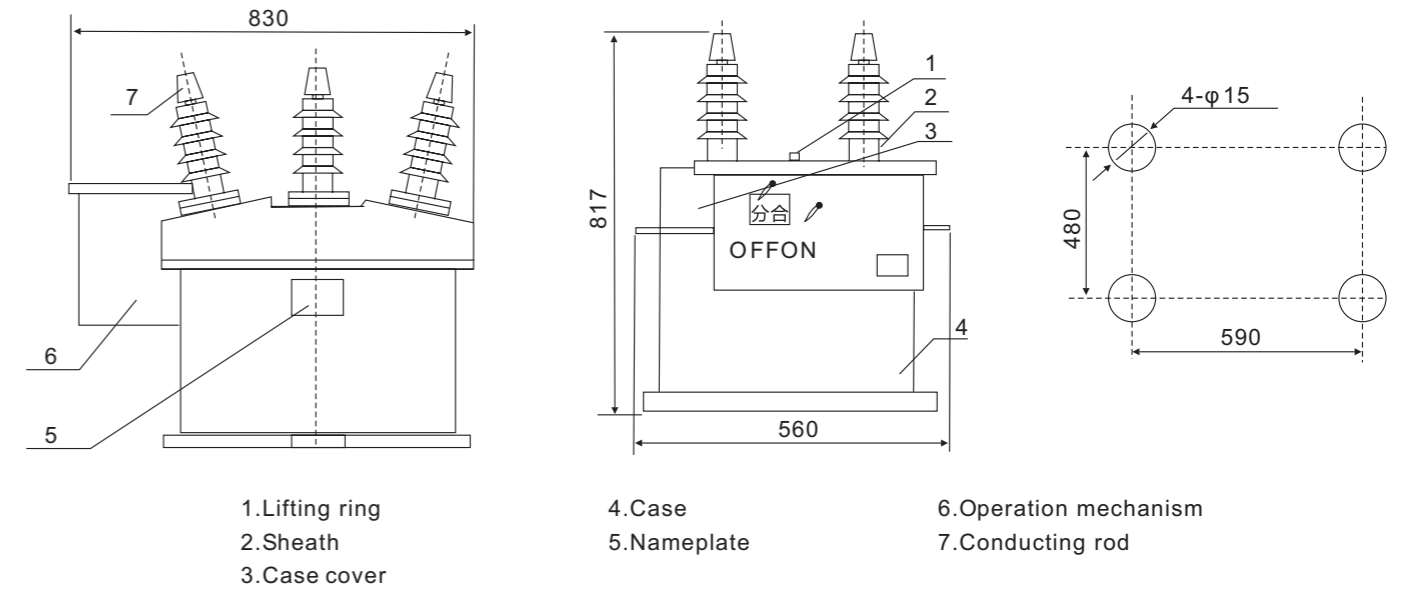
Ambient Condition

1. Altitude: ≤2000mm;
2. Ambient air temperature: -40℃ ~+45℃ ;
3. Wind speed: 34m/s;
4. Earthquake intensity: 8 degree;
5. Relative humidity: monthly average 90%, daily average 95%;
6. Ice thickNess: 10mm ;
7. Pollution degree: IV;
8. There will be have dew under the condition of high temperature low down hastily.

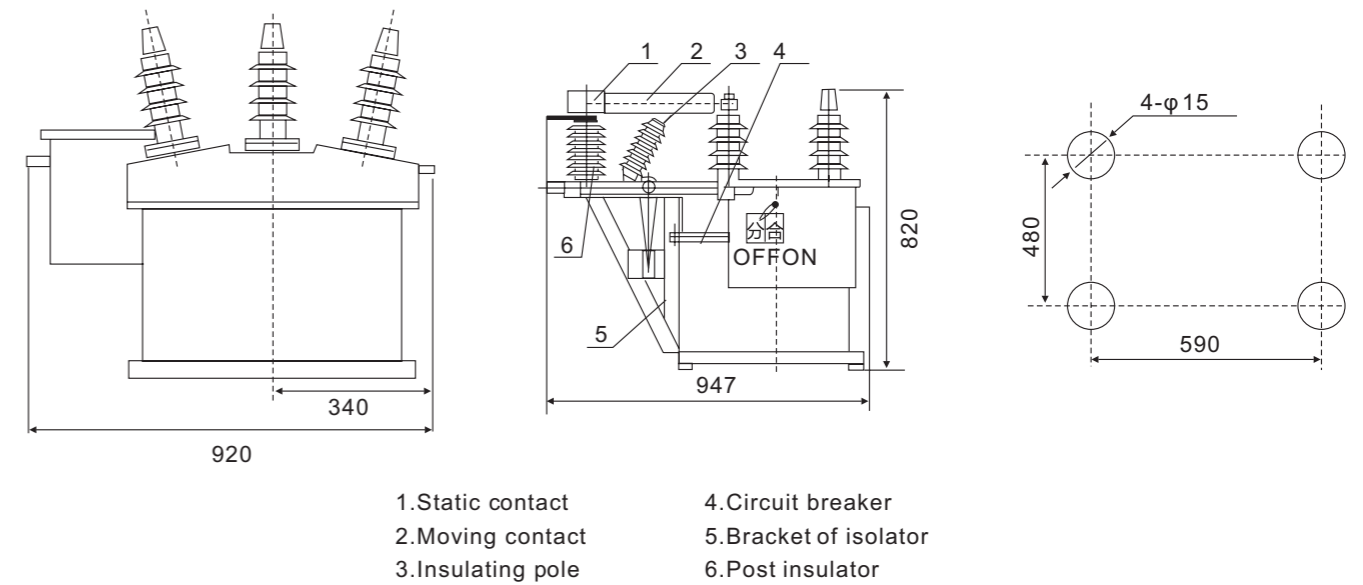
Technical Parameters

No.	Name	Unit	Data		
			16kA	20kA	25kA
1	Rated voltage	kV	10		
2	Max. operation voltage	kV	12		
3	Rated current	A	630/1250		
4	Rated short-circuit breaking current	kA	16	20	25
5	Rated short-circuit making current	kA	40	50	63
6	Rated short-time withstand current	kA	40	50	63
7	Rated short-time withstand current	kA	16	20	25
8	Rated Insulate level	1min P.F withstand voltage	kV	42/48	
		Lightning impulse withstand voltage(peak)	kV	75	
9	Rated operating sequence		O-0.3s-CO-180s-CO		
10	Mechanical life	Times	10000		
11	Rated short-circuit breaking current breaking times	Times	30		
12	Rated Operating Setup Closing Voltage	V	AC220,DC220,100		
13	Rated Operating Setup Opening Voltage	V	AC220,DC220,100		
14	Contact Stroke	mm	11±1		
15	Contact Over travel (Contact Spring Constringent Length)	mm	3		
16	Out Of Simultaneity Of Contact Closing And Opening	ms	≤2		
17	Contact Closing Bounce Time	ms	≤2		
18	Average opening Speed	m/s	1.0±0.2		
19	Average Closing Speed	m/s	0.7±0.15		
20	Opening Time	The Highest Operating Voltage	s	0.015-0.05	
		The Lowest Operating Voltage	s	0.03-0.06	
21	Contact Closing Time	s	0.025-0.05		
22	Current by Phase Circuit Resistance	μΩ	≤120(≤200)		
23	Contact erosion limit	mm	3		

Outline Dimension And Installation Drawing



ZW8-12 series outdoor vacuum circuit breaker



ZW8-12G series outdoor vacuum circuit breaker

ZW32-12~24KV Series Outdoor High Voltage Permanent Magnet Vacuum Circuit Breaker



Outline

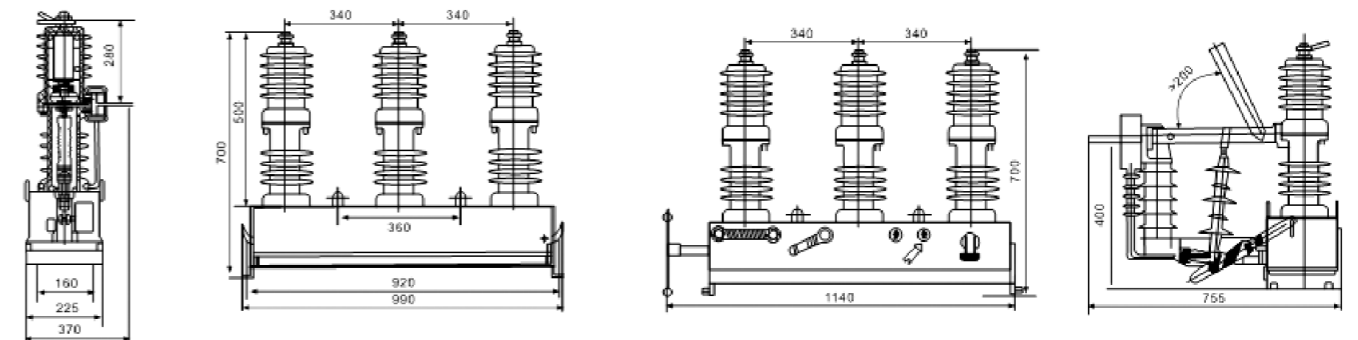
ZW32-12 type outdoor high voltage VCB, is suitable for the 3-phase power system with AC 50HZ, voltage 10-12KV, used as breaking, closing load current. It has the function of overload and short circuit protection, can meet the requirements of controlling and measurement. It also can be used as remote control, monitoring, etc. It is suitable for controlling and protecting equipment for substation and mining enterprises power system, also suitable for the places with frequently operation in rural power grid.

Main Technical Parameters

No.	Name	Unit	Data		
1			12	24	
2	Rated Insulating Level	1Min. PF withstand voltage	Dry	42	65
			Wet	34	50
		Lightning impulse withstand voltage(peak)	75	1250	
3	Rated current	A	630,400,200	630,400,200	
4	Rated short circuit breaking current	kA	20,16,12.5	20,16,12.5	
5	Rated operating sequence		O-0.3s-CO-180s-CO	O-0.3s-180s-CO	
6	Rated short-circuit breaking times	Times	30	30	
7	Rated short-circuit making current (peak)		50	50	
8	Rated peak withstand current	kA	50	50	
9	Rated short-circuit withstand current		20	20	
10	Rated short circuit duration	S	4	4	
11	Opening time (SHT)	Maximum operating voltage	15-50	15-50	
		Rated operating voltage	ms		
		Minimum operating voltage	30-60	30-60	

No.	Name	Unit	Data		
12	Closing time		25-50	25-50	
13	Full- off time	ms	≤100	≤100	
14	Arcing time		20	20	
15	Mechanical life	Times	1000	1000	
16	Charging motor rated input power	w	40	40	
17	Rated operating voltage and auxiliary voltage circuit	V	DC200、110、24	DC200、110、24	
			AC200、110、24	AC200、110、24	
18	Rated voltage of the storage time	S	≤10	≤10	
19	Over current Release	Rated Current	A	5	5
		Trip current Accuracy	%	±10	±10

Outline & Mounting Dimensions



ZW32-40.5 Type Outdoor Vacuum Circuit Breaker



Outline

ZW32-40.5 type outdoor vacuum circuit breaker is rated voltage 35kV, three-phase AC 50Hz outdoor distribution equipment. Mainly used for breaking, closing power system load current, overload current and short circuit current For substation and industrial and mining enterprises distribution system protection and control of workplace use, and frequent operation of rural power grids. The circuit breaker vacuum interrupter technique using solid seal, external insulation silicon rubber sleeve, long life and high reliability, actuator can be miniaturize, highly reliable spring mechanism may also be advanced permanent magnet body. You can also configure isolating switches and intelligent controllers, with but when slicer kind of coincidence used, enabling four remote functions and distribution automation.

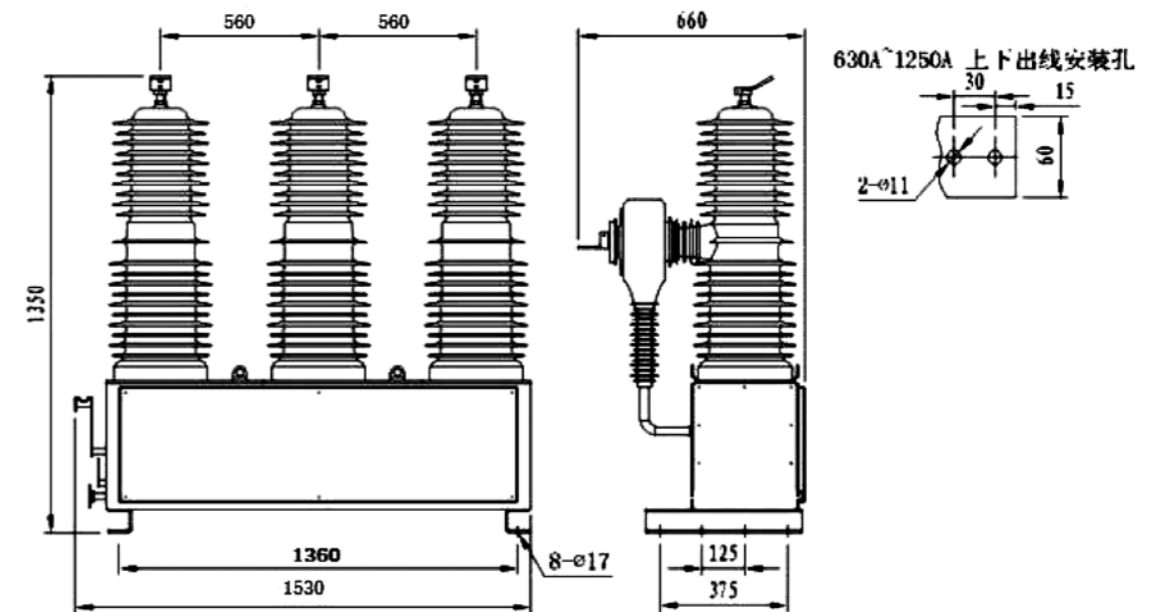
Ambient Condition

- Ambient air temperature: - 40°C ~ +40°C
- A height of not more than 2000 meters above sea level
- The wind speed is not greater than 35m/s
- Anti-contamination level for grade IV
- The earthquake intensity does not exceed 8 degrees
- No fire, explosion, severe chemical corrosion of the place

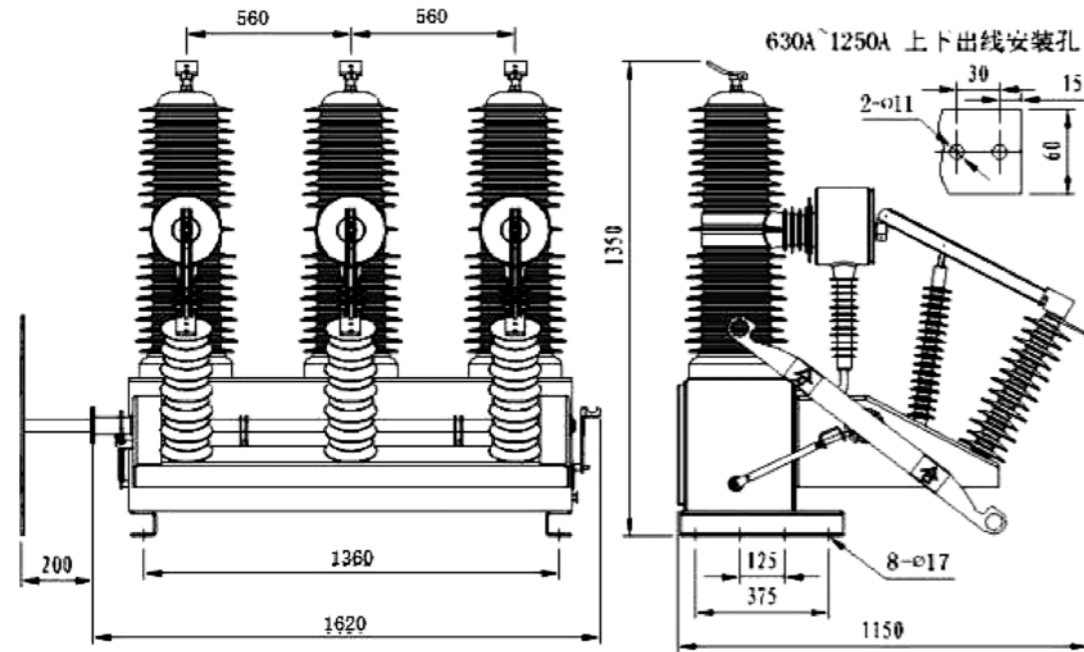
Products technical parameter

	Item	Unit	Data
1	Rated voltage	KV	35
2	Rated current	KA	630/1250/1600
3	Rated frequency	HZ	50/60
4	Power frequency withstand voltage 1min(wet)(dry)	KV	80/95/95
5	Lightning impulse with stand voltage(peak)	KV	185
6	Rated short circuit breaking current	KA	20/25/31.5
7	Rated short circuit switching current(peak)	KA	63/80
8	Rated peak with stand current	KA	63/80
9	4s short time with stand current	KA	25/31.5
10	Rated short circuit breaking times	times	30
11	Mechanical life	times	10000
12	Control voltage of mechanism	V	AC/DC220
13	Secondary circuit 1min power frequency voltage	KV	2
14	Clearance between open contacts	mm	16±1
15	Contact over-travelling distance	mm	4±0.5
16	Opening speed	m/s	1.4-1.8
17	Closing speed	m/s	0.4-0.8
18	Contact closing bounce time	ms	≤5
19	Distance of phase to phase	mm	560±2
20	The circuit resistance of each phase	Ω	<120
21	Closing time	ms	25-45
22	Opening time	ms	20-45
23	Weight	Kg	295

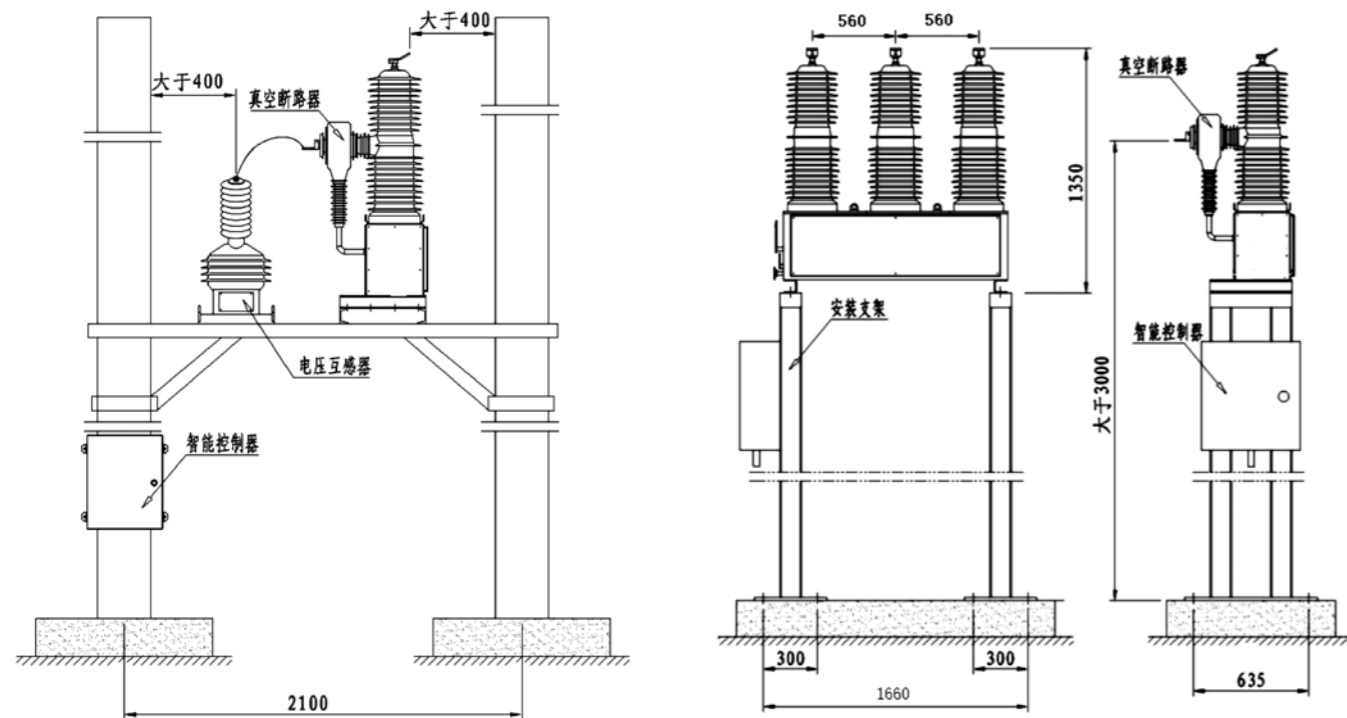
Dimensions



Dimensions



Circuit Breaker Schematic



VS1-12 Indoor High-Voltage Vacuum Circuit Breaker



Model And Specifications

VS1-12 Indoor High-voltage Vacuum Circuit Breaker

Rated voltage	(kV)	12			
Rated frequency		50			
Rated lightning impulse withstand voltage (peak)	(kV)	75			
Rated short-time power frequency withstand voltage (1min)	(kV)	42			
Rated current	(A)	630	630	630	—
		1250	1250	1250	—
		—	—	1600	1600
		—	—	2000	2000
Rated short circuit switch current	(kV)	—	—	2500	2500
		—	—	3150	3150
		20	25	31.5	40
		20	25	31.5	40
Rated peak withstand current (peak)	(kV)	50	63	80	100
Rated short-circuit making current (peak)	(kV)	50	63	80	100
Rated short-circuit current duration	(s)	4			
Breaking times of rated short-circuit current	times	50 (40kAfor30)			
Mechanical life	times	20000			
Secondary circuit 1min power frequency withstand voltage (1 min)	(V)	2000			

Vacuum Circuit Breaker Series

VS1-12 Indoor High-voltage Vacuum Circuit Breaker		
Rated operation sequence		O-0.3s-CO-180s-CO O-180s-CO-180s-CO
Rated single/back-to-back capacitor breaking current		630/400 (40kAfor800/400)
Rated capacitor bank making inrush current	(Ka)	12.5 (frequency not larger than 1000Hz)
Rated voltage of closing operation	(V)	AV110/220, DC110/220
Rated voltage of stored motor	(V)	AV110/220, DC110/220
Motor rated frequency	(W)	70 (40kA 100W)
Energy-storage time	(S)	≤15
Leading circuit resistance		630A ≤65μΩ
		1250A ≤55 μΩ
		1600-2000A ≤45μΩ
		Above 2500 ≤35μΩ

— N/A

Order Specification

Basic Parameters And Quantity						
Width of cabinet(mm)	Current parameter (A)	Distance from top to bottom (mm)	Handcart Type	Fixed Type	Quantity	Remarks
800 (phase clearance is 210)	630-20	275				
	630-25	275				
	630-31.5	275				
	1250-20	275				
	1250-25	275				
	1250-31.5	275				
	1600-31.5	275				
1000 (phase clearance is 275)	1600-31.5	310				
	1600-40	310				
	2000-31.5	310				
	2000-40	310				
	2500-31.5	310				
	2500-40	310				
	3150-31.5	310				
3150-40	310					

Notes: Please label "√" on the corresponding setication when placing an orde

Vacuum Circuit Breaker Series

Order Specification

Standard Configuration	
Operating voltage (V)	AC220
	DC220
	AC110
Anti-pumping function	DC110
	With
	Without

Notes:

- The secondary wiring shall be subject to the above schematic diagram, including the anti-pumping device;
- Grounding device (the handcart type has the friction grounding at bottom on the left side);
- If other requirements aren't indicated upon placing an order, the materials shall be supplied as per the common configuration of our company;
- Please label "√" on the corresponding specification when placing an order.

Non- Standard Configuration	
Switching-on locking device	
De-voltage release	
Over-current device (3A or 5A)	Phase A
	Phase A and C
	Phase A, B and C
Fixed top mechanical interlocking (left or right)	
Fixed main shaft overhanging (left or right)	
App lock (lock N lock N-1)	

Notes:

Add on the basis of standard configuration, please indicate upon placing order.

- When the de-voltage release is equipped, the overcurrent could only be the phaseA, C or A;
- When the App Lock is equipped, the fixed type cant have the switching-on locking. The App Lock controls the separating brake, Electrical and mechanical switch;
- Please label "√" on the corresponding specification when placing an order;
- The high-altitude area shall be indicated specill;
- Please indicate other requirements if any, and contact the manufacturer.

ZN63(VS1)~24KV Series Indoor Sealed Vacuum Circuit Breaker



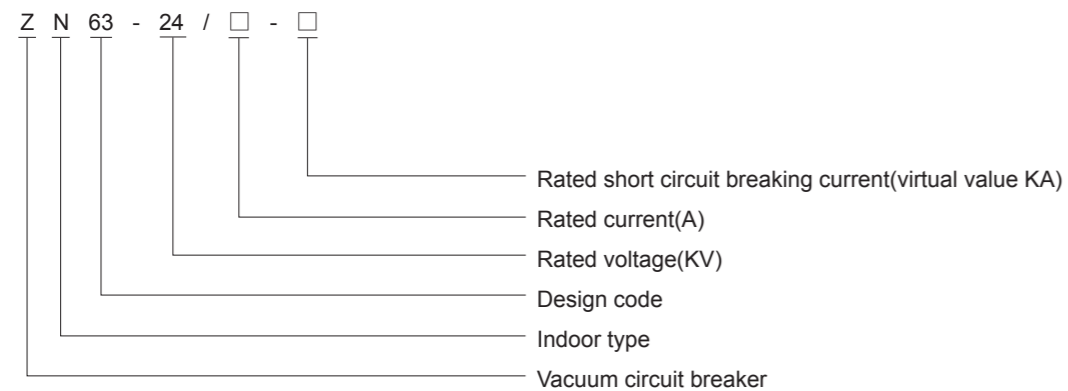
Outline

ZN63(VS1)-24series indoor high voltage vacuum circuit breaker is the indoor switchgear used in the system of 3 phases, AC50Hz, rated voltage 24KV as the protection and control unit for power grid, power equipment in industrial enterprises, it is a new generation vacuum breaker designed and manufactured by our company based on domestic and foreign market and production experience for many years. The breaker complies with standards of GB1984, JB3855, DL/L402/403, LEC62771-100 and etc.

Product Features

- The breaker adopted the new module spring operating mechanism, compact structure, simple, reasonable layout, reliable transmission, easy installation.
- Operating mechanism is integrated with breaker body, namely the whole breaker can be a fixed unit, or mounted on a moving base as carrier unit;
- Main conductive circuit generally adopts solidly sealed pole, insulating tube is optional as well.
- Main conductive circuit sealed by solid insulating material to form solid pole column free of maintenance, high reliability, minitype.
- The breaker is E2 grade one.
- After installed into the panel, it can provide excellent 5-interlocking functions.

Model Description



Ambient Condition

- Altitude: 1 000m and below
- Ambient temperature: highest+40℃, Lowest: -25℃
- Relative humidity: daily average not more than 95%, monthly average not more than 90% Saturated steam pressure: daily average not more than 2.2x10-3MPa, monthly average not more than 1.8x10-3MPa
- Earthquake not exceed 8 degree
- The working site shall have no flammable, explosive and corrosive medium, and no severe vibration.

Technical Parameters

Technical ratings of breaker as sheet 1

Sheet 1

No.	Description	Unit	Value		
1	Rated voltage	kV	24		
2	Rated frequency	Hz	50		
3	Rated current	A	630,1250 1250, 1600, 2000, 2500, 3150		
4	Rated insulating level	1min power frequency withstand voltage	Between poles, pole to earth		65
			Crossing isolating break		65
	Rated lightning impulse withstand voltage	Between poles, pole to earth		125	
		Crossing isolating break		125	
5	4s rated short time withstand current	kA	20	25	31.5
6	Rated short circuit breaking current		20	25	31.5
7	Rated peak withstand current		50	63	80
8	Rated short circuit making current		50	63	80
9	Duration of rated short circuit withstand current	s	4		
10	Rated breaking current at the fault of different phases earthed	kA	17.4	21.7	27.4
11	Rated operation sequence		O-0.3s-CO-180s-CO		
12	Rated operating voltage	V	DC(AC)220/110		
13	Electrical endurance		E2 grade		
14	Mechanical endurance	Times	20000		

Notes: a. The breaker with rated current 3150A must install fan to cool
 b. As standard of GB1984-2003 the E2 grade electrical endurance shall have 274 times of breaking short circuit current.

Mechanical performances as sheet 2

Sheet 2

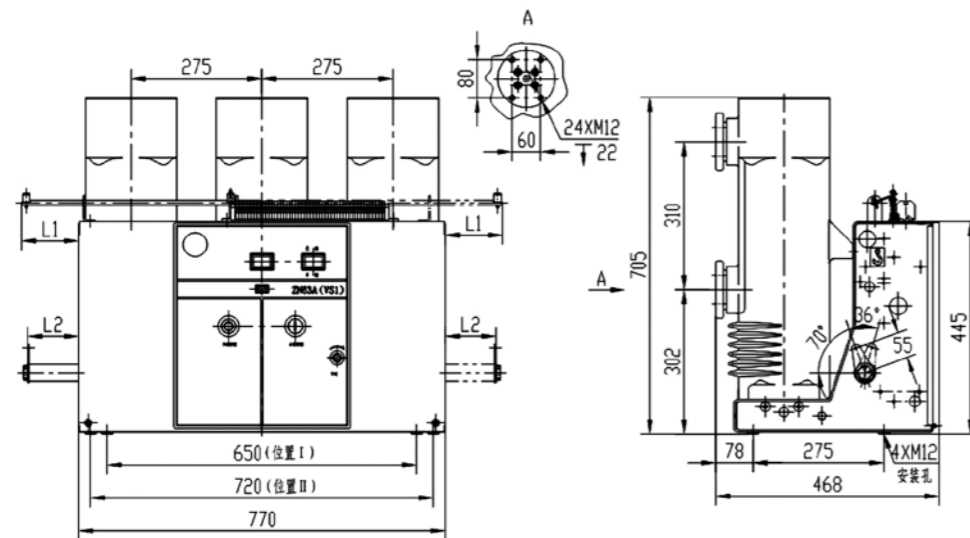
No.	Description	Unit	Value						
1	Opening distance of contact	mm	13±1						
2	Over-travel distance of contact		4±1						
3	Central distance between poles		210, 275						
4	Permissible abrasion thickness of the contact		3						
5	Average opening speed(6mm just opening)	m/s	1.3±0.3						
6	Average closing speed		0.6±0.2						
7	Jumping time after contact closed	ms	≤2						
8	Asynchrony of three phase closing opening		≤2						
9	Main circuit resistance	Rated current	A	630	1250	1600	2000	2500	3150
		Fixed type breaker	μΩ	≤50	≤45	≤35	≤35	≤30	≤25
		Truck type breaker		≤55	≤50	≤40	≤40	≤35	≤30
10	Opening time	ms	≤50						
11	Closing time		≤75						
12	Operating performances of operating mechanism	85% ~110% rated voltage							
		85% ~110% rated voltage							
		≤30% rated voltage							

Main technical data of operating mechanism as sheet 3

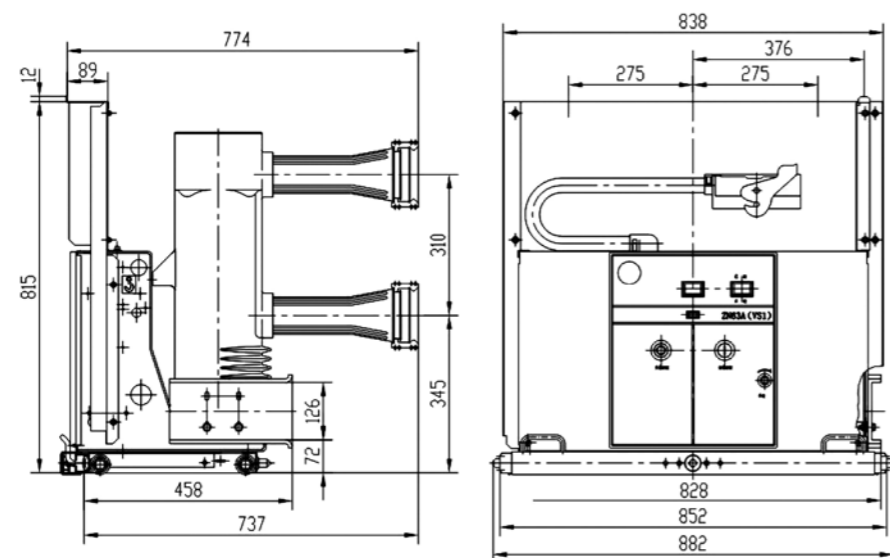
Sheet 3

No.	Description	Unit	Value
1	Rated operating voltage for opening	V	DC(AC)220/DC(AC)110
2	Rated operating voltage for closing		DC(AC)220/DC(AC)110
3	Rated instantaneous over-current tripping current	A	5/3.5
4	Rated voltage for charging motor	V	DC(AC)220/DC(AC)110
5	Rated output power of charging motor	W	70
6	Charging time	S	≤10
7	1 min p.f withstand voltage on secondary circuit	V	20000

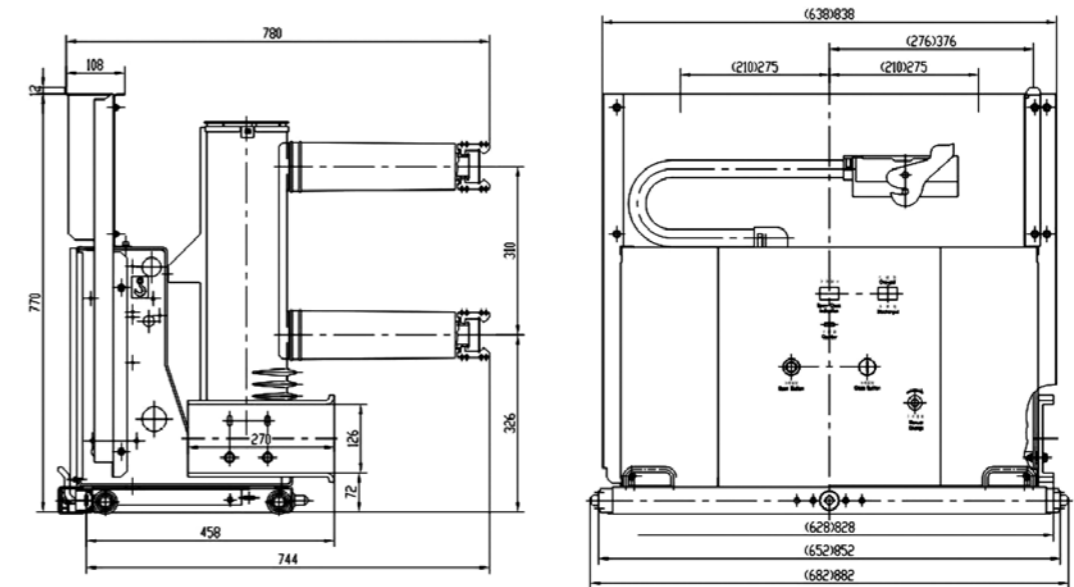
Outline & Mounting Dimensions



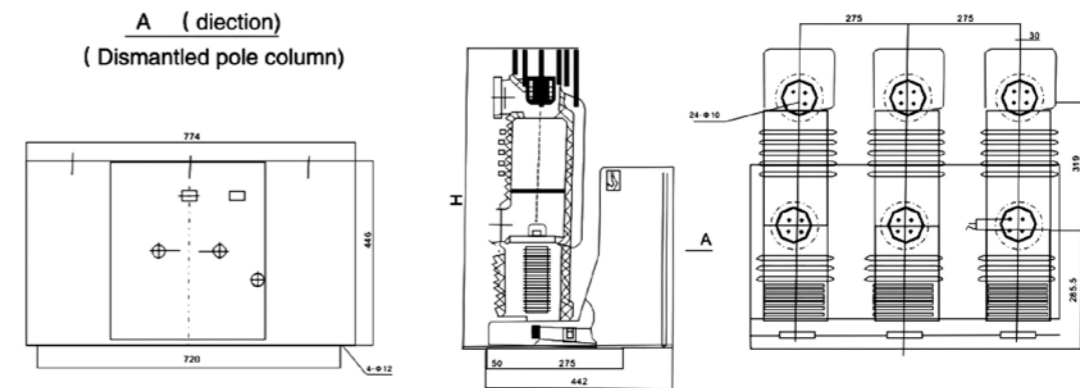
ZN63(VS1)-24 Fixed circuit breaker



ZN63(VS1)-24 Handcart circuit breaker

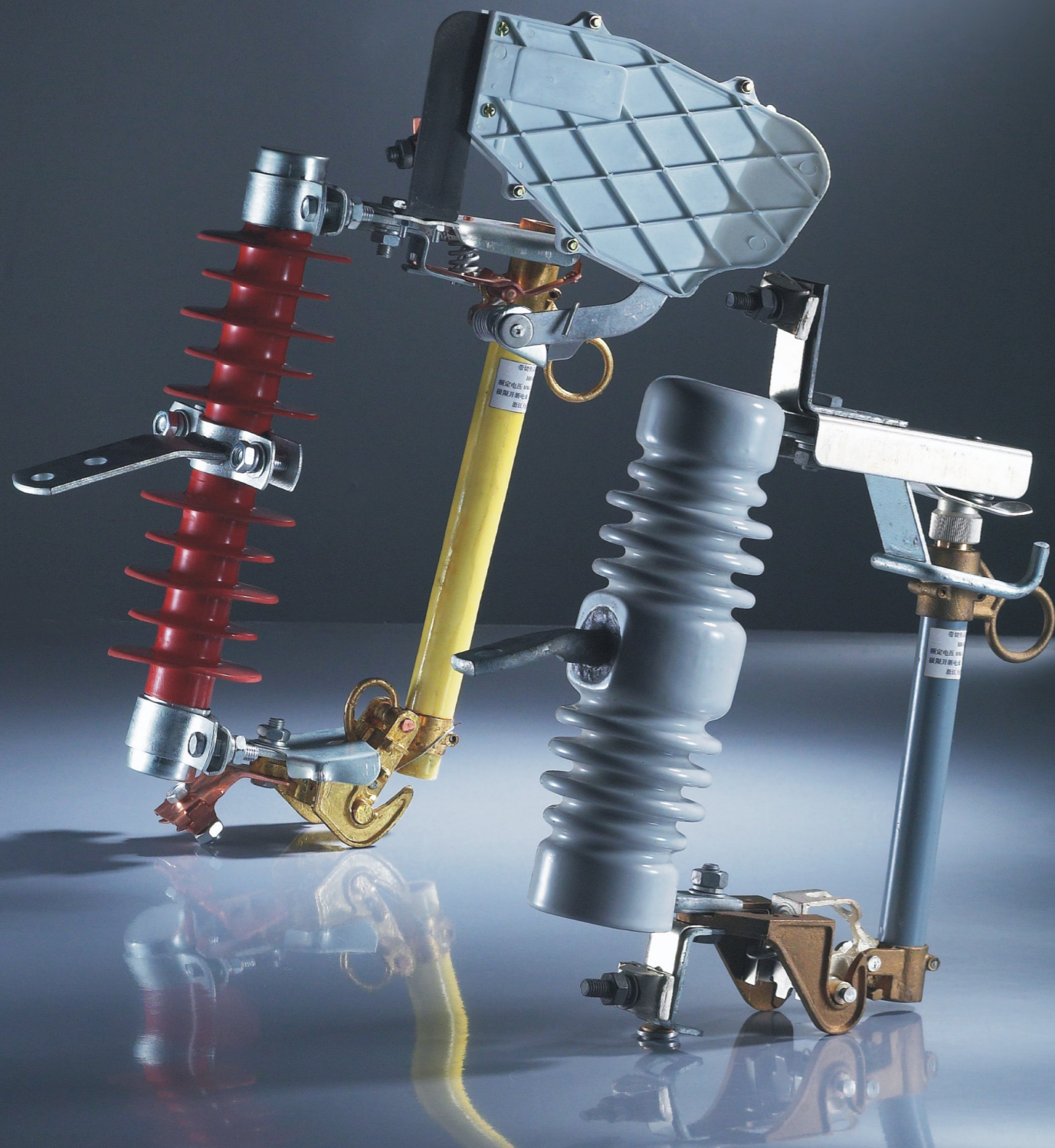


ZN63(VS1)-24 handcart type high 770mm circuit breaker



Picture 4 Outline and drawing of ZN63(VS1)-24 series fixed type breaker

HIGH-VOLTAGE ELECTRIC DROP-OUT FUSE CUTOUT



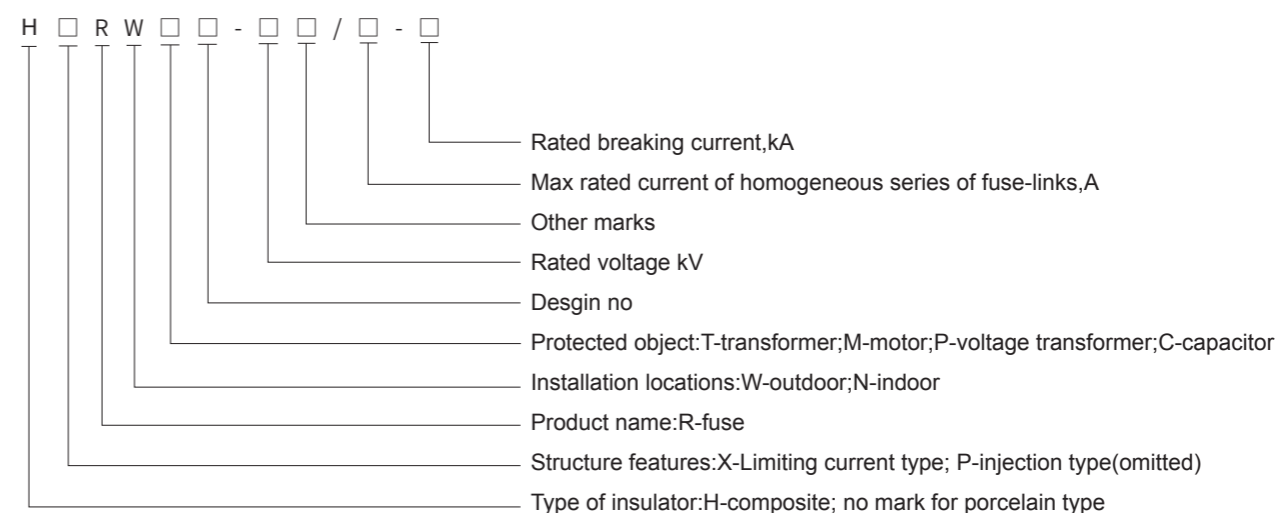
Drop-Out Fuse Cutout

Product Description

Drop-out fuse cutout and load switching fuse cutout are of outdoor used high voltage protective device, To be connected with incoming feeder of distribution transformer or distribution lines, it mainly protect transformer or lines from short circuit and overload, and on/off loading current, Drop-out fuse cutout is composed of insulate insulator supports and fuse tube, static contacts is fixed on two sides of insulator support and moving contact is installed on two ends of fuse tube, Fuse tube is composed of inside arc-extinguishing tube. Outer phenolic compound paper tube or epoxy glass tube, Load switching fuse cutout provides enforced elastic auxiliary contacts and arc-extinguishing enclosure for switching on-off loading current.

At normally working via fuse link tightened the fuse tube is fixed to form up of close position. In case system occur faults, fault current result In fuse melt immediately and take place electric arc, which let arc-extinguishing tube being heated and explode a lot of gas, This will produce high pressure and blow off the arc along with tube. After fuse link melt moving contact has no tightened strength again, mechanism is locked and fuse tube drop out, Cutout now is in open position, When it needs to switch off during cutout loading, operator shall via insulating operating sticks pull the moving contact, at its beginning main contact and auxiliary static contact is contacted still, Whiling pulling the auxiliary contact is separated between auxiliary contacts there occur electric arc and the arc will be lengthened in arc-extinguishing enclosure gap and meanwhile arc-extinguishing explode gas to blow off the arc during current passing zero.

Mode Description



Note: Other marks refer to the following conditions

- a) The product that has been improved greatly, but not the developed product needs to be distinguished from the original model, so, it is marked with A, B, C
- b) The product that is combined with other functional units under the same variety, it is expressed with the upper case letter of Chinese phonetic alphabet of functional unit, for example,
 - F—With load breaking device
 - B—With arrester
- c) The derived product that is applicable for the special environment conditions is expressed with the following codes and brackets, for example,
 - Th—Damp-hot zone type
 - TA—Dry-hot zone type
 - G—High altitudetype
 - W—Pollution resistancetype

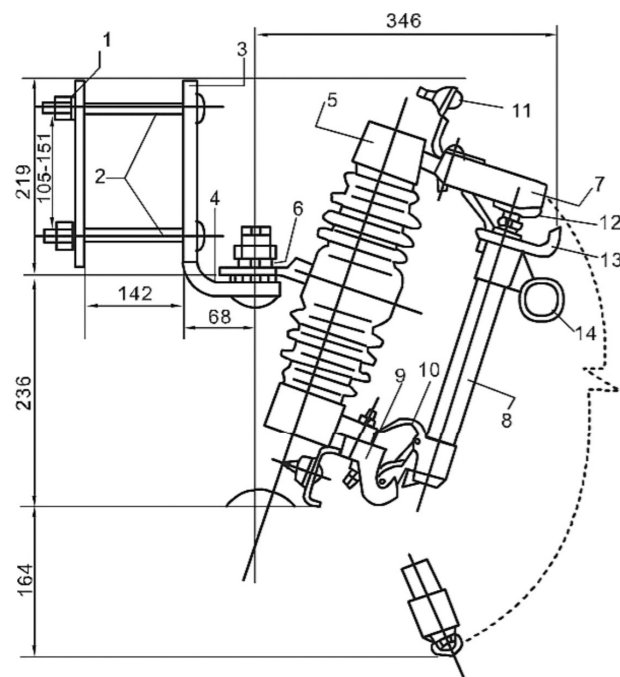
Drop-Out Fuse Cutout

Table 1

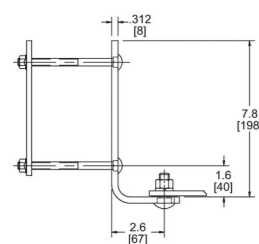
Terminal Connectors		
connector Type	wire size	Catalog no.suffix
Parallel-Groove Clamp, tin-plated bronze	#6--4/0 ACSR or 250 MCM	-D
Small Eyebolts	#8--2/0 stranded	-J
Large Eyebolts	# 6--4/0 ACSR or 250 MCM	-M

Table 2

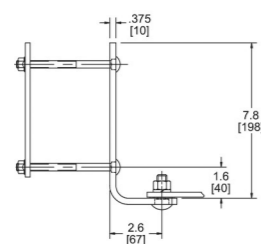
Mounting Brackets	
Mounting Brackets Type	Catalog no.suffix
NEMA A Bracket	-A
NEMA Heavy Duty "B" Bracket with carriage bolts M12*50 for adjust bracket to fit crossarms.	-B
Extended Crossarm Bracket (Horizontal section is 70mm longer than NEMA "B" bracket)	-E
Pole Mounting Bracket	-P



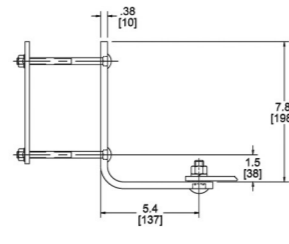
No.	Description
1	Nut
2	Long Bolts
3	Mounting Bracket A
4	Mounting Bracket B
5	Porcelain Insulator
6	Spring Washer
7	One-piece channel
8	Fuse tube
9	Lower Socket
10	Lower contacts
11	Connector
12	Upper Contacts
13	Attachment hooks
14	Operation Ring



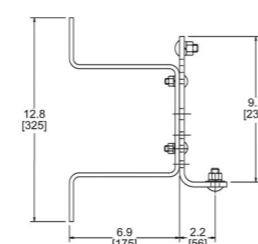
NEMA A bracket



NEMA B bracket

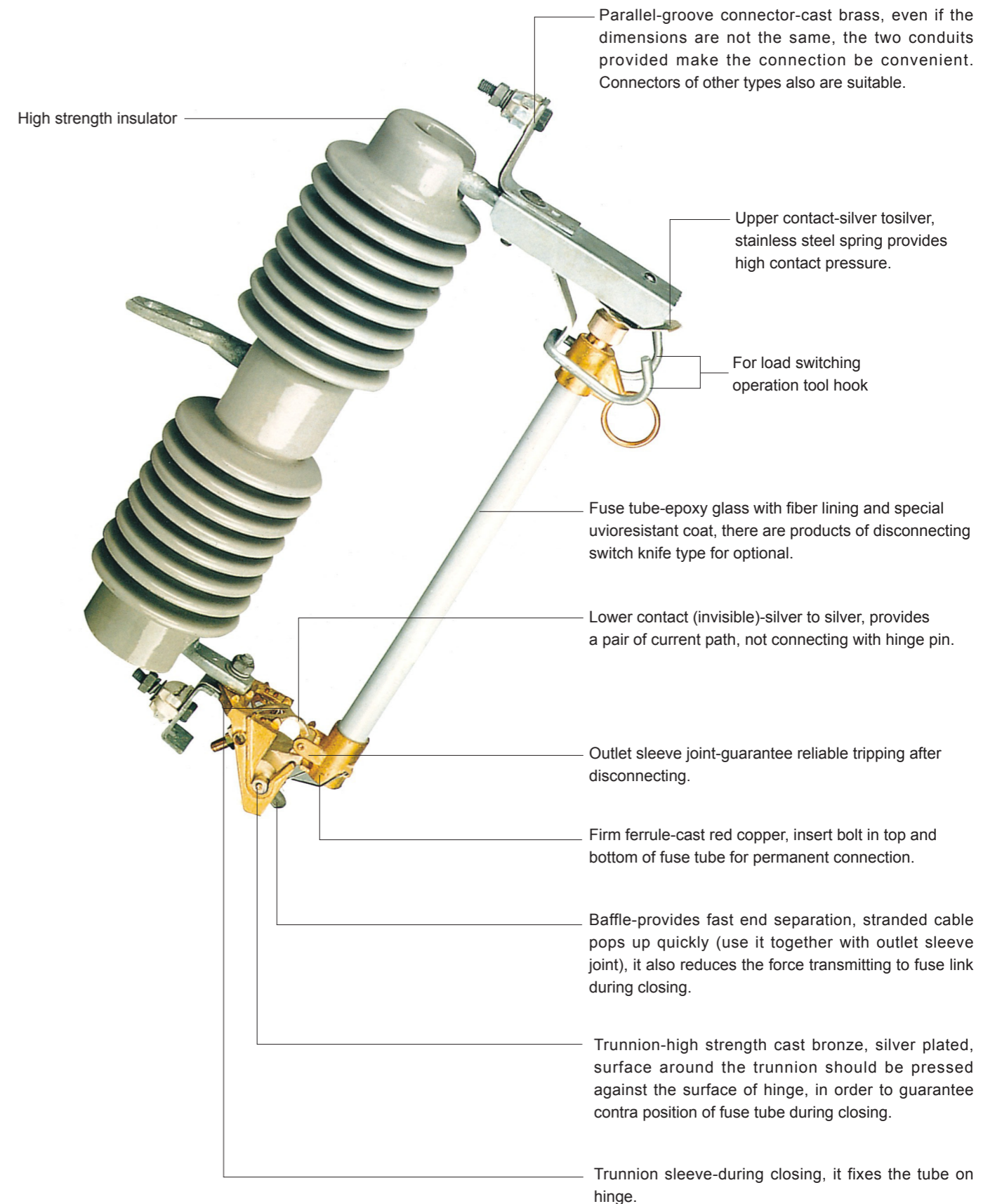


Extended bracket



Pole Mounting bracket

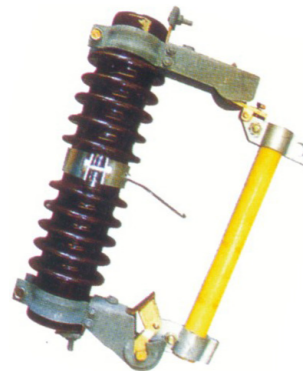
Drop-Out Fuse Cutout



Drop-Out Fuse Cutout



Type	RW3-12/100	RW3-12/200
Rated voltage(kV)	10	10
Maximum working voltage(kV)	12	12
Rated current(A)	100	200
reaking current(kA)	6.3	8.0
Power-frequey dry withsand voltage(kV)	42	42
Power-frequey wet withsand voltage(kV)	30	30
Impulse voltage(kV)	75	75
Creepage distance(mm)	230	230
Weight(kg)	5.4	5.6



Type	RW4-12/100	RW4-12/200
Rated voltage(kV)	10	10
Maximum working voltage(kV)	12	12
Rated current(A)	100	200
reaking current(kA)	6.3	8.0
Power-frequey dry withsand voltage(kV)	42	42
Power-frequey wet withsand voltage(kV)	30	30
Impulse voltage(kV)	75	75
Creepage distance(mm)	260	260
Weight(kg)	5.4	5.6



Type	RW7-12/100	RW7-12/200
Rated voltage(kV)	10	10
Maximum working voltage(kV)	12	12
Rated current(A)	100	200
reaking current(kA)	6.3	8.0
Power-frequey dry withsand voltage(kV)	42	42
Power-frequey wet withsand voltage(kV)	30	30
Impulse voltage(kV)	75	75
Creepage distance(mm)	260	260
Weight(kg)	5.5	5.7



Type	RW3-12/100	RW3-12/200
Rated voltage(kV)	10	10
Maximum working voltage(kV)	12	12
Rated current(A)	100	200
reaking current(kA)	6.3	8.0
Power-frequey dry withsand voltage(kV)	42	42
Power-frequey wet withsand voltage(kV)	30	30
Impulse voltage(kV)	75	75
Creepage distance(mm)	260	260
Weight(kg)	5.6	2.8

Drop-Out Fuse Cutout



Type	RW11-12/100	RW11-12/200
Rated voltage(kV)	10	10
Maximum working voltage(kV)	12	12
Rated current(A)	100	200
reaking current(kA)	6.3	8.0
Power-frequey dry withsand voltage(kV)	42	42
Power-frequey wet withsand voltage(kV)	30	30
Impulse voltage(kV)	75	75
Creepage distance(mm)	260	260
Weight(kg)	5.6	5.8



Type	PRWG1-12/100	PRWG1-12/200
Rated voltage(kV)	10	10
Maximum working voltage(kV)	12	12
Rated current(A)	100	200
reaking current(kA)	6.3	8.0
Power-frequey dry withsand voltage(kV)	50	50
Power-frequey wet withsand voltage(kV)	35	35
Impulse voltage(kV)	85	85
Creepage distance(mm)	315	315
Weight(kg)	8.6	8.8



Type	RW10-12F/100	RW10-12F/200
Rated voltage(kV)	10	10
Maximum working voltage(kV)	12	12
Rated current(A)	100	200
reaking current(kA)	6.3	8.0
Power-frequey dry withsand voltage(kV)	42	42
Power-frequey wet withsand voltage(kV)	30	30
Impulse voltage(kV)	75	75
Creepage distance(mm)	260	260
Weight(kg)	6.3	6.5



Type	PRW11-12F/100	PRW11-12F/200
Rated voltage(kV)	10	10
Maximum working voltage(kV)	12	12
Rated current(A)	100	200
reaking current(kA)	6.3	8.0
Power-frequey dry withsand voltage(kV)	42	42
Power-frequey wet withsand voltage(kV)	30	30
Impulse voltage(kV)	75	75
Creepage distance(mm)	260	260
Weight(kg)	7.5	7.5

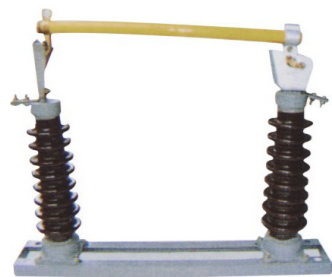
Drop-Out Fuse Cutout



Type	PRWG1-12F/100	PRWG1-12F/200
Rated voltage(kV)	10	10
Maximum working voltage(kV)	12	12
Rated current(A)	100	200
reaking current(kA)	6.3	8.0
Power-frequey dry withsand voltage(kV)	50	50
Power-frequey wet withsand voltage(kV)	35	35
Impulse voltage(kV)	85	85
Creepage distance(mm)	315	315
Weight(kg)	8.8	9.1



Type	PRWG2-40.5/100	PRWG2-40.5/200
Rated voltage(kV)	35	35
Maximum working voltage(kV)	40.5	40.5
Rated current(A)	100	200
reaking current(kA)	5.0	5.0
Power-frequey dry withsand voltage(kV)	95	95
Power-frequey wet withsand voltage(kV)	86	86
Impulse voltage(kV)	185	185
Creepage distance(mm)	935	935
Weight(kg)	18.5	19.0



Type	RW5-40.5/100	RW5-40.5/200
Rated voltage(kV)	35	35
Maximum working voltage(kV)	40.5	40.5
Rated current(A)	100	200
reaking current(kA)	5.0	8.0
Power-frequey dry withsand voltage(kV)	95	95
Power-frequey wet withsand voltage(kV)	86	86
Impulse voltage(kV)	185	185
Creepage distance(mm)	746	746
Weight(kg)	20	21



Type	RW3-12/100	RW3-12/200
Rated voltage(kV)	10	10
Maximum working voltage(kV)	12	12
Rated current(A)	100	200
reaking current(kA)	6.3	8.0
Power-frequey dry withsand voltage(kV)	42	42
Power-frequey wet withsand voltage(kV)	30	30
Impulse voltage(kV)	75	75
Creepage distance(mm)	280	280
Weight(kg)	5.1	5.3

Drop-Out Fuse Cutout



Type	HRW3-12/100	HRW3-12/200
Rated voltage(kV)	10	10
Maximum working voltage(kV)	12	12
Rated current(A)	100	200
reaking current(kA)	6.3	8.0
Power-frequey dry withsand voltage(kV)	42	42
Power-frequey wet withsand voltage(kV)	30	30
Impulse voltage(kV)	75	75
Creepage distance(mm)	300	300
Weight(kg)	2.9	3.1



Type	HRW4-12/100	HRW4-12/200
Rated voltage(kV)	10	10
Maximum working voltage(kV)	12	12
Rated current(A)	100	200
reaking current(kA)	6.3	8.0
Power-frequey dry withsand voltage(kV)	42	42
Power-frequey wet withsand voltage(kV)	30	30
Impulse voltage(kV)	75	75
Creepage distance(mm)	340	340
Weight(kg)	4.2	4.4

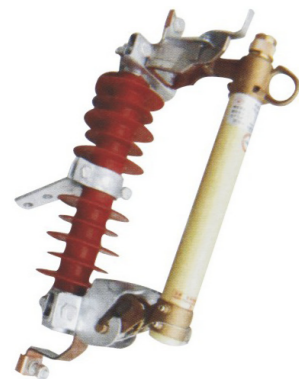


Type	HRW7-12/100	HRW7-12/200
Rated voltage(kV)	10	10
Maximum working voltage(kV)	12	12
Rated current(A)	100	200
reaking current(kA)	6.3	8.0
Power-frequey dry withsand voltage(kV)	42	42
Power-frequey wet withsand voltage(kV)	30	30
Impulse voltage(kV)	75	75
Creepage distance(mm)	340	340
Weight(kg)	4.2	4.4

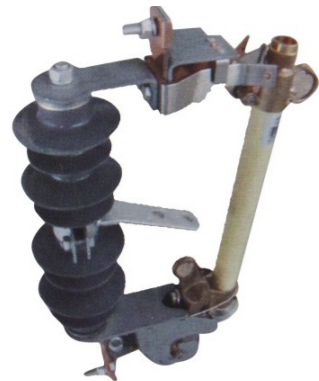


Type	HRW10-12/100	HRW10-12/200
Rated voltage(kV)	10	10
Maximum working voltage(kV)	12	12
Rated current(A)	100	200
reaking current(kA)	6.3	8.0
Power-frequey dry withsand voltage(kV)	42	42
Power-frequey wet withsand voltage(kV)	30	30
Impulse voltage(kV)	75	75
Creepage distance(mm)	340	340
Weight(kg)	3.7	3.9

Drop-Out Fuse Cutout



Type	HRW11-12/100	HRW11-12/200
Rated voltage(kV)	10	10
Maximum working voltage(kV)	12	12
Rated current(A)	100	200
reaking current(kA)	6.3	8.0
Power-frequeeny dry withsand voltage(kV)	42	42
Power-frequeeny wet withsand voltage(kV)	30	30
Impulse voltage(kV)	75	75
Creepage distance(mm)	340	340
Weight(kg)	3.9	4.1



Type	HPRWG1-12/100	HPRWG1-12/200
Rated voltage(kV)	10	10
Maximum working voltage(kV)	12	12
Rated current(A)	100	200
reaking current(kA)	6.3	8.0
Power-frequeeny dry withsand voltage(kV)	50	50
Power-frequeeny wet withsand voltage(kV)	35	35
Impulse voltage(kV)	85	85
Creepage distance(mm)	380	380
Weight(kg)	4.4	4.6



Type	HRW10-12F/100	HRW10-12F/200
Rated voltage(kV)	10	10
Maximum working voltage(kV)	12	12
Rated current(A)	100	200
reaking current(kA)	6.3	8.0
Power-frequeeny dry withsand voltage(kV)	42	42
Power-frequeeny wet withsand voltage(kV)	30	30
Impulse voltage(kV)	75	75
Creepage distance(mm)	340	340
Weight(kg)	4.0	4.2



Type	HRW11-12F/100	HRW11-12F/200
Rated voltage(kV)	10	10
Maximum working voltage(kV)	12	12
Rated current(A)	100	200
reaking current(kA)	6.3	8.0
Power-frequeeny dry withsand voltage(kV)	42	42
Power-frequeeny wet withsand voltage(kV)	30	30
Impulse voltage(kV)	75	75
Creepage distance(mm)	340	340
Weight(kg)	4.5	4.7

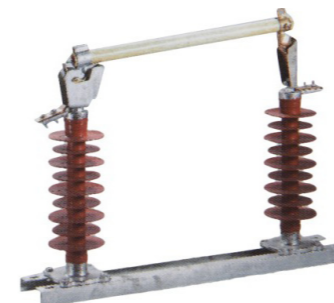
Drop-Out Fuse Cutout



Type	HPRWG1-12F/100	HPRWG1-12F/200
Rated voltage(kV)	10	10
Maximum working voltage(kV)	12	12
Rated current(A)	100	200
reaking current(kA)	6.3	8.0
Power-frequeeny dry withsand voltage(kV)	50	50
Power-frequeeny wet withsand voltage(kV)	35	35
Impulse voltage(kV)	85	85
Creepage distance(mm)	380	380
Weight(kg)	4.7	5.0



Type	HPRWG2-40.5/100	HPRWG2-40.5/200
Rated voltage(kV)	35	35
Maximum working voltage(kV)	40.5	40.5
Rated current(A)	100	200
reaking current(kA)	5.0	8.0
Power-frequeeny dry withsand voltage(kV)	95	95
Power-frequeeny wet withsand voltage(kV)	86	86
Impulse voltage(kV)	185	185
Creepage distance(mm)	1200	1200
Weight(kg)	8.2	8.7



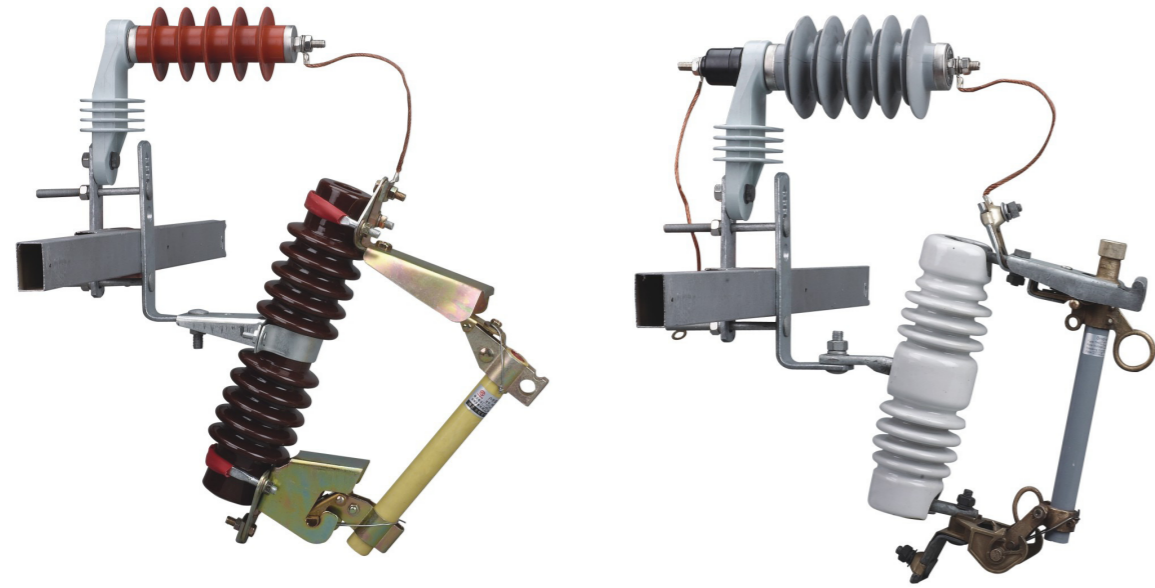
Type	HRW5-40.5/100	HRW5-40.5/200
Rated voltage(kV)	35	35
Maximum working voltage(kV)	40.5	40.5
Rated current(A)	100	200
reaking current(kA)	5.0	8.0
Power-frequeeny dry withsand voltage(kV)	95	95
Power-frequeeny wet withsand voltage(kV)	86	86
Impulse voltage(kV)	185	185
Creepage distance(mm)	1080	1080
Weight(kg)	13.5	14.0



Type	HRW6-12X/100	HRW6-12X/200
Rated voltage(kV)	10	10
Maximum working voltage(kV)	12	12
Rated current(A)	100	200
reaking current(kA)	6.3	8.0
Power-frequeeny dry withsand voltage(kV)	42	42
Power-frequeeny wet withsand voltage(kV)	30	30
Impulse voltage(kV)	75	75
Creepage distance(mm)	340	340
Weight(kg)	4.1	4.3

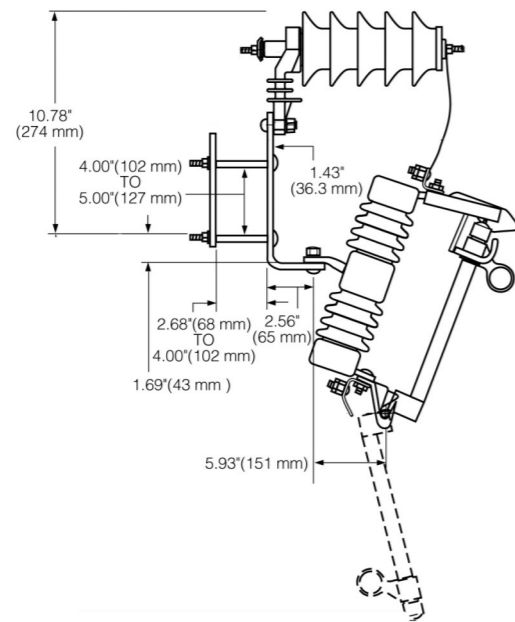
Surge Arrester/Type L Fuse Cutout Combination

Surge arrester/Type L interchangeable fuse cutout combinations are available in a wide variety of arrester designs and fuse cutout ratings. Type L fuse cutouts are available in either of two voltage ratings: 15kV and 27kV, and in standard creepage or extra creepage units to meet the user's application needs. Cutouts are available with a 100A or 200A fuse holder.



Installation Diagram

Shows an outline drawing of an housed surge arrester/Type L fuse cutout combination.



Drop-Out Fuse Cutout

12-15kV

Type	KPC1-12/100	KPC1-12/200
Rated voltage(kV)	12-15	12-15
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	110	110
Power-frequency withstand voltage(kV)	40	40
Creepage distance(mm)	250	250
Weight(kg)	5.5	6
Dimension(cm)	41×36×9.5	



12-15kV

Type	KPC2-12/100	KPC2-12/200
Rated voltage(kV)	12-15	12-15
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	110	110
Power-frequency withstand voltage(kV)	40	40
Creepage distance(mm)	250	250
Weight(kg)	5.5	6
Dimension(cm)	41×36×9.5	



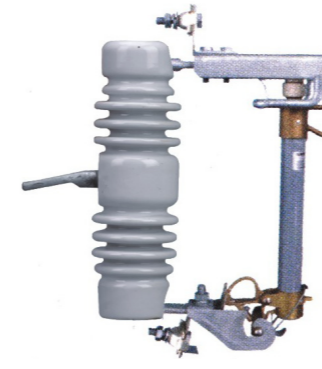
12-15kV

Type	KPC3-12/100	KPC3-12/200
Rated voltage(kV)	12-15	12-15
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	110	110
Power-frequency withstand voltage(kV)	40	40
Creepage distance(mm)	250	250
Weight(kg)	6.5	7
Dimension(cm)	40.5×30×10.5	



12-15kV

Type	KPC4-12/100	KPC4-12/200
Rated voltage(kV)	12-15	1012-15
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	110	110
Power-frequency withstand voltage(kV)	40	40
Creepage distance(mm)	250	250
Weight(kg)	6.8	7
Dimension(cm)	40.5×30.5×11	



Drop-Out Fuse Cutout

15-24kV



Type	KPC1-15/100	KPC1-15/200
Rated voltage(kV)	15-24	15-24
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	125	125
Power-frequency withstand voltage(kV)	40	40
Creepage distance(mm)	350	350
Weight(kg)	6.8	7.2
Dimension(cm)	50×36×10.5	

15-24kV



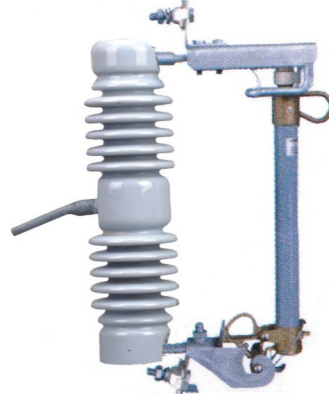
Type	KPC2-15/100	KPC2-15/200
Rated voltage(kV)	15-24	15-24
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	125	125
Power-frequency withstand voltage(kV)	40	40
Creepage distance(mm)	350	350
Weight(kg)	7.1	7.6
Dimension(cm)	50×37×11.5	

15-24kV



Type	KPC3-15/100	KPC3-15/200
Rated voltage(kV)	15-24	15-24
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	125	125
Power-frequency withstand voltage(kV)	40	40
Creepage distance(mm)	350	350
Weight(kg)	7.6	8.0
Dimension(cm)	50×38×11.5	

15-24kV



Type	KPC4-15/100	KPC4-15/200
Rated voltage(kV)	15-24	15-24
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	125	125
Power-frequency withstand voltage(kV)	40	40
Creepage distance(mm)	350	350
Weight(kg)	7.2	7.6
Dimension(cm)	50×37×11	

Drop-Out Fuse Cutout

24-27kV



Type	KPC1-24/100	KPC1-24/200
Rated voltage(kV)	24-27	24-27
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	150	150
Power-frequency withstand voltage(kV)	65	65
Creepage distance(mm)	540	540
Weight(kg)	9.0	9.4
Dimension(cm)	41×38.5×14	

24-27kV



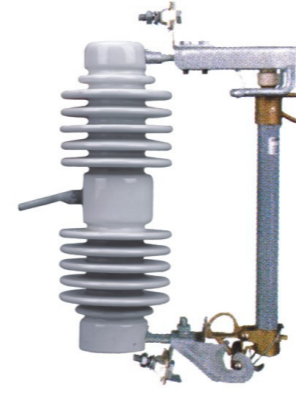
Type	KPC2-24/100	KPC2-24/200
Rated voltage(kV)	24-27	24-27
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	150	150
Power-frequency withstand voltage(kV)	65	65
Creepage distance(mm)	540	540
Weight(kg)	9.2	9.6
Dimension(cm)	49×35.5×14.5	

24-27kV



Type	KPC3-24/100	KPC3-24/200
Rated voltage(kV)	24-27	24-27
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	150	150
Power-frequency withstand voltage(kV)	65	65
Creepage distance(mm)	540	540
Weight(kg)	9.5	10
Dimension(cm)	50×38.5×15.5	

24-27kV



Type	KPC4-24/100	KPC4-24/200
Rated voltage(kV)	24-27	24-27
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	150	150
Power-frequency withstand voltage(kV)	65	65
Creepage distance(mm)	540	540
Weight(kg)	9.3	9.7
Dimension(cm)	50×32.5×15	

Drop-Out Fuse Cutout

30-33kV



Type	KPC1-30/100	KPC1-30/200
Rated voltage(kV)	30-33	30-33
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	170	170
Power-frequency withstand voltage(kV)	70	70
Creepage distance(mm)	700	700
Weight(kg)	10.5	11.0
Dimension(cm)	59×36×13.5	

30-33kV



Type	KPC2-30/100	KPC2-30/200
Rated voltage(kV)	30-33	30-33
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	170	170
Power-frequency withstand voltage(kV)	70	70
Creepage distance(mm)	700	700
Weight(kg)	11.0	11.5
Dimension(cm)	58×35×13.5	

30-33kV



Type	KPC3-30/100	KPC3-30/200
Rated voltage(kV)	30-33	30-33
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	170	170
Power-frequency withstand voltage(kV)	70	70
Creepage distance(mm)	700	700
Weight(kg)	13.0	13.5
Dimension(cm)	59×37.5×14	

30-33kV



Type	KPC4-30/100	KPC4-30/200
Rated voltage(kV)	30-33	30-33
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	170	170
Power-frequency withstand voltage(kV)	70	70
Creepage distance(mm)	700	700
Weight(kg)	13	13.5
Dimension(cm)	59×37×14	

Drop-Out Fuse Cutout

33-36kV



Type	KPC1-33/100	KPC1-33/200
Rated voltage(kV)	33-36	33-36
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	170	170
Power-frequency withstand voltage(kV)	70	70
Creepage distance(mm)	720	720
Weight(kg)	12.5	13.0
Dimension(cm)	66×37.5×14	

33-36kV



Type	KPC2-33/100	KPC2-33/200
Rated voltage(kV)	33-36	33-36
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	170	170
Power-frequency withstand voltage(kV)	70	70
Creepage distance(mm)	720	720
Weight(kg)	12.0	12.5
Dimension(cm)	65×35×13.5	

33-36kV



Type	KPC3-33/100	KPC3-33/200
Rated voltage(kV)	33-36	33-36
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	170	170
Power-frequency withstand voltage(kV)	70	70
Creepage distance(mm)	720	720
Weight(kg)	12.5	13.0
Dimension(cm)	66×37.5×14	

33-36kV



Type	KPC4-33/100	KPC4-33/200
Rated voltage(kV)	33-36	33-36
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	170	170
Power-frequency withstand voltage(kV)	70	70
Creepage distance(mm)	720	720
Weight(kg)	13.0	13.2
Dimension(cm)	66×37.5×14	

Drop-Out Fuse Cutout

12-15kV



Type	KPC1-12F/100	KPC1-12F/200
Rated voltage(kV)	12-15	12-15
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	110	110
Power-frequency withstand voltage(kV)	40	40
Creepage distance(mm)	250	250
Weight(kg)	7.3	7.5
Dimension(cm)	45×34×15.5	

15-24kV



Type	KPC1-15F/100	KPC1-15F/200
Rated voltage(kV)	15-24	15-24
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	125	125
Power-frequency withstand voltage(kV)	45	45
Creepage distance(mm)	350	350
Weight(kg)	8.1	8.6
Dimension(cm)	55×36×15.5	

24-27kV



Type	KPC1-24F/100	KPC1-24F/200
Rated voltage(kV)	24-27	24-27
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	150	150
Power-frequency withstand voltage(kV)	65	65
Creepage distance(mm)	540	540
Weight(kg)	11.0	11.2
Dimension(cm)	55×37.5×14	

30-33kV



Type	KPC1-30F/100	KPC1-30F/200
Rated voltage(kV)	30-33	30-33
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	170	170
Power-frequency withstand voltage(kV)	70	70
Creepage distance(mm)	700	700
Weight(kg)	13.2	13.7
Dimension(cm)	66×38×15.5	

Drop-Out Fuse Cutout

12-15kV



Type	HKPC1W-12/100	HKPC1W-12/200
Rated voltage(kV)	12-15	12-15
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	110	110
Power-frequency withstand voltage(kV)	40	40
Creepage distance(mm)	380	380
Weight(kg)	3.7	4.0
Dimension(cm)	41.5×37.5×10.5	

15-24kV



Type	HKPC1-15/100	HKPC1-15/200
Rated voltage(kV)	15-24	15-24
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	125	125
Power-frequency withstand voltage(kV)	45	45
Creepage distance(mm)	450	450
Weight(kg)	3.7	4.0
Dimension(cm)	45×37.5×10.5	

24-27kV



Type	HKPC1-24/100	HKPC1-24/200
Rated voltage(kV)	24-27	24-27
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	150	150
Power-frequency withstand voltage(kV)	65	65
Creepage distance(mm)	540	540
Weight(kg)	4.0	4.5
Dimension(cm)	50.5×38×10.5	

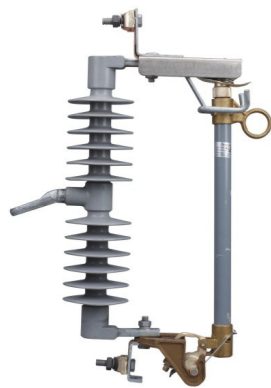
24-27kV



Type	HKPC1W-27/100	HKPC1W-27/200
Rated voltage(kV)	24-27	24-27
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	150	150
Power-frequency withstand voltage(kV)	65	65
Creepage distance(mm)	540	540
Weight(kg)	4.2	4.7
Dimension(cm)	51.5×38×11.5	

Drop-Out Fuse Cutout

27-30kV



Type	HKPC1-27/100	HKPC1-27/200
Rated voltage(kV)	27-30	27-30
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	150	150
Power-frequency withsand voltage(kV)	65	65
Creepage distance(mm)	600	600
Weight(kg)	4.0	4.5
Dimension(cm)	53.5×37.5×10	

30-33kV



Type	HKPC1-30/100	HKPC1-30/200
Rated voltage(kV)	30-33	30-33
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	170	1700
Power-frequency withsand voltage(kV)	70	70
Creepage distance(mm)	670	670
Weight(kg)	4.3	4.5
Dimension(cm)	55.5×37.5×12.5	

33-36kV



Type	HKPC1W-33/100	HKPC1W-33/200
Rated voltage(kV)	33-36	33-36
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	170	170
Power-frequency withsand voltage(kV)	70	70
Creepage distance(mm)	740	740
Weight(kg)	4.4	4.8
Dimension(cm)	61.5×38×11.5	

33-36kV



Type	HKPC1-33/100	HKPC1-33/200
Rated voltage(kV)	33-36	33-36
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	180	180
Power-frequency withsand voltage(kV)	75	75
Creepage distance(mm)	880	880
Weight(kg)	4.8	5.0
Dimension(cm)	67.5×38×12.5	

Drop-Out Fuse Cutout

12-15kV



Type	HKPC1W-12F/100	HKPC1W-12F/200
Rated voltage(kV)	12-15	12-15
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	110	110
Power-frequency withsand voltage(kV)	40	40
Creepage distance(mm)	250	250
Weight(kg)	7.3	7.5
Dimension(cm)	45×34×11	

15-24kV



Type	HKPC1-15F/100	HKPC1-15F/200
Rated voltage(kV)	15-24	15-24
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	125	125
Power-frequency withsand voltage(kV)	45	45
Creepage distance(mm)	350	350
Weight(kg)	8.1	8.6
Dimension(cm)	55×36×11.5	

24-27kV



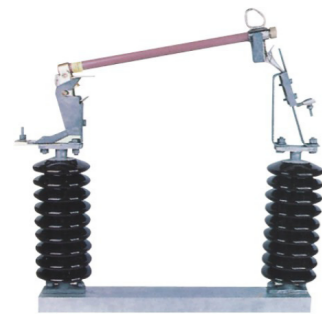
Type	HKPC1-24F/100	HKPC1-24F/200
Rated voltage(kV)	24-27	24-27
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	150	150
Power-frequency withsand voltage(kV)	65	65
Creepage distance(mm)	540	540
Weight(kg)	11.0	11.2
Dimension(cm)	55×38×15.5	

33-36kV



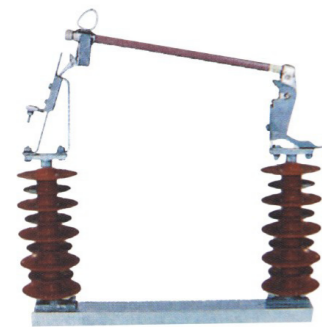
Type	HKPC1W-27/100	HKPC1W-27/200
Rated voltage(kV)	33-36	33-36
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	170	170
Power-frequency withsand voltage(kV)	70	70
Creepage distance(mm)	720	720
Weight(kg)	13.2	13.7
Dimension(cm)	66×38×15.3	

Drop-Out Fuse Cutout



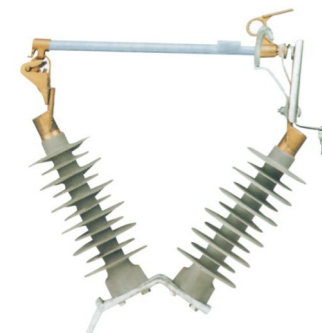
33-36kV

Type	KPCG1-33/100	KPCG1-33/200
Rated voltage(kV)	33-36	33-36
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	170	170
Power-frequency withstand voltage(kV)	70	70
Creepage distance(mm)	820	820
Weight(kg)	27.5	27.5
Dimension(cm)	68×17×15	



33-36kV

Type	HKPCG1W-33/100	HKPCG1W-33/200
Rated voltage(kV)	33-36	33-36
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	170	1700
Power-frequency withstand voltage(kV)	70	70
Creepage distance(mm)	1080	1080
Weight(kg)	14.5	15.0
Dimension(cm)	68×17×15	



27-33kV

Type	HKPC5W-27/100	HKPC5W-27/200
Rated voltage(kV)	27	27
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	200	200
Power-frequency withstand voltage(kV)	81	81
Creepage distance(mm)	1130	1130
Weight(kg)	7.5	7.5
Dimension(cm)	70×65×17	



33-36kV

Type	KPC2A-33/100	KPC2A-33/200
Rated voltage(kV)	33-36	33-36
Rated current(A)	100	200
Breaking current(A)	8000	10000
Impulse voltage(kV)	170	170
Power-frequency withstand voltage(kV)	70	70
Creepage distance(mm)	660	660
Weight(kg)	13.5	14.2
Dimension(cm)	71×35×13.5	

Drop Out Fuse Accessories



RW3-12 Normal type



RW7-12 Normal type



RW10-12 Normal type



RW10-12F load type



RW11-12 Normal type



RW11-12F load type



PRWG1-12 Normal type



PRWG1-12F load type



KPC1、KPC3、KPC4 Normal type



KPC1- □ F、KPC4- □ F、
KPC3- □ F load type

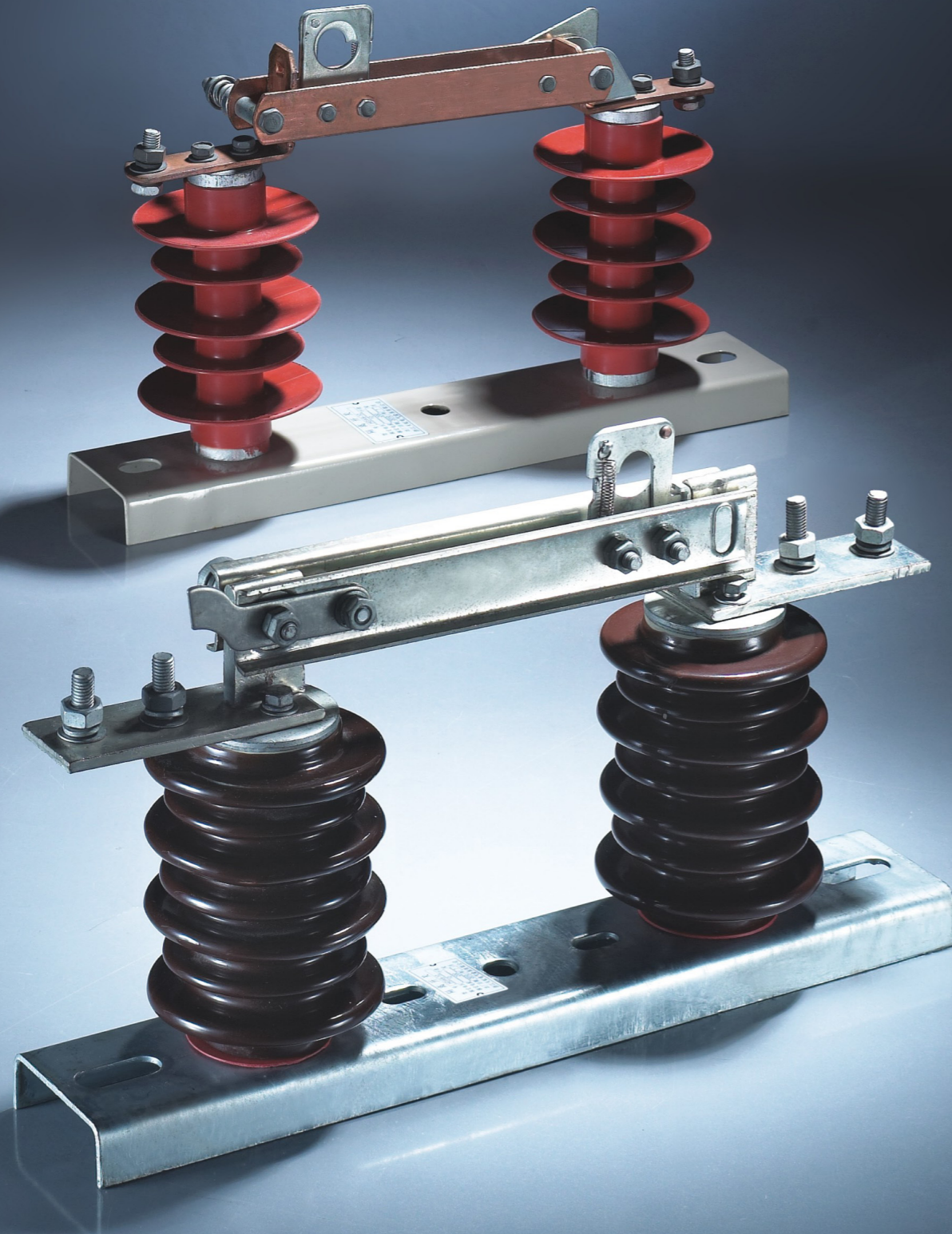


KPC2 Normal type

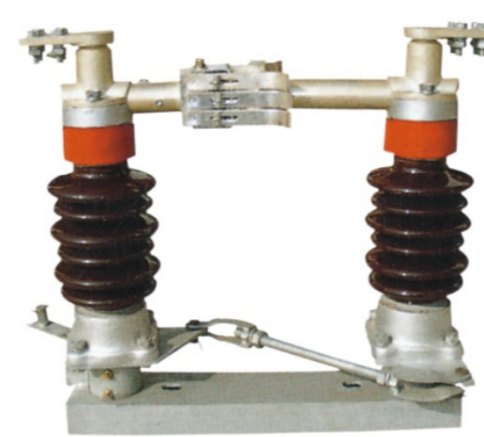


KPC2- □ F load type type

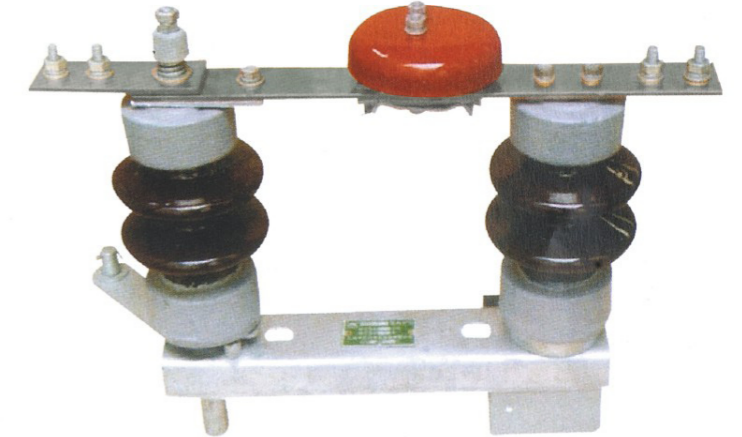
HIGH-VOLTAGE ELECTRIC DISCONNECTOR SWITCH



GW4 Outdoor High Voltage Disconnecter Switch



GW4A-15



GW4-12

Application

GW4 Outdoor AC high voltage isolation switch is a two-column three-phase AC 50Hz outdoor high voltage switchgear for power system voltage 10-220kV, the supply voltage at no load for hours together circuits, as well as being on the high voltage bus overhaul, circuit breakers and other electrical equipment and charged high voltage lines for circuit isolation. Pollution prevention isolating switch which can meet the requirements of users in the region re-contamination, and can effectively address the isolation switch in the operation of the flashover problem.

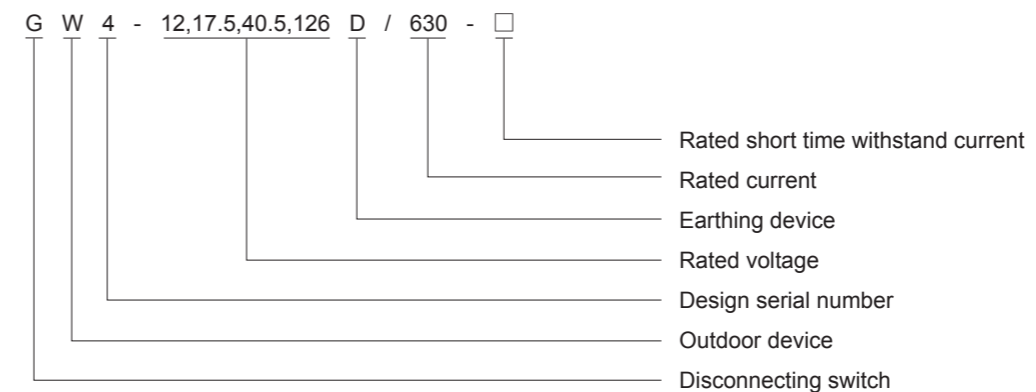
Isolation switch is open double-column horizontal type, the composition of each single stage by the dock, post insulators, outlet and contact other parts of the seat, the two pillars of the insulating porcelain mounted parallel to each other on both ends of the bearing base, and the base vertical. Leading electrical part were installed in the two pillars above the porcelain insulator, porcelain insulator with pillars do 90° rotation.

Each bearing has a built-in isolation switch shaft assembly, the assembly between the two axes by connecting plates, screws and other connecting the drive to adjust.

Refers to the middle portion of the contact pairs of the contact assembly, using self-elastic contact finger in the form of roll-in, in order to reduce opening and closing the contacts and the contact fingers of wear and improve life.

Disconnectors with earthing switch, fan-shaped plate leading electrical circuit and grounding switch and interlock with the base of the curved panels that switch on when leading electrical circuit, grounding switch is not closing, when the grounding switch is closed, the leading electrical circuit can not be closed. Chain plate chain disconnectors and earthing switches on the realization by the agency when equipped with CS8-6D.

Model And Implication



Features

Isolating switch with double column, contact into open type structure, has the ability of self cleaning contact, improve the contact reliability;

Finger made of new material with high strength, high conductivity, high elastic. Relying on the elastic contact finger clamping itself, to avoid the spring corrosion, contact clamping fever caused by annealing

Force to reduce the contact resistance increases, the contact heat intensified the vicious spiral.

The rotating part according to the design requirements of the isolating switch maintenance free. The rotating seat designed seal structure, moisture, dust and harmful gas can not enter, bearing, molybdenum disulfide lithium base grease will never work in

A good environment, bearing, never rust, grease can not be lost, never dry up, the isolation switch operating torque will increase after long term operation. Stainless steel shaft and oil-free self-lubricating bearing

With the structure of steel by hot dip galvanizing, ensure the isolation switch operation is flexible, portable and reliable, never rust.

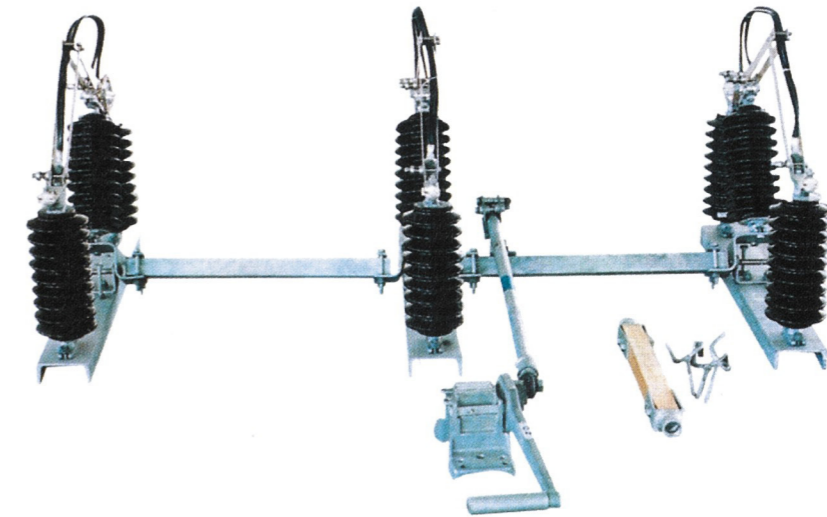
Technical Parameters

Item	Unit	Technical parameters					
Rated voltage	kV	10	15	24			
Max. operation voltage	kV	12	17.5	27			
Rated insulation level	1min power frequency withstand voltage	To earth	kV	38	40	50	
		Across open DS	kV	45	47	60	
	Rated lightning impulse withstand voltage	To earth	kV	75	105	125	
		Across open DS	kV	85	120	145	
Rated frequency	Hz	50					
Rated current	A	200	400	630	1250	1600	2000
Short time withstand current 4s(Eff).	kA	6.3	12.5	20	31.5	31.5	40
Rated peak withstand current	kA	16	31.5	50	80	80	100
Rated duration of short-circuit	S	4					
Rated mechanical terminal vertical load	N	245					
Mechanism supplied for disconnector		manual mechanism or motor drive mechanism					
Earthing switch rated parameter for disconnector assembling		Earthing switch use for cutting off the residual current , the dynamic and thermal current without examination					

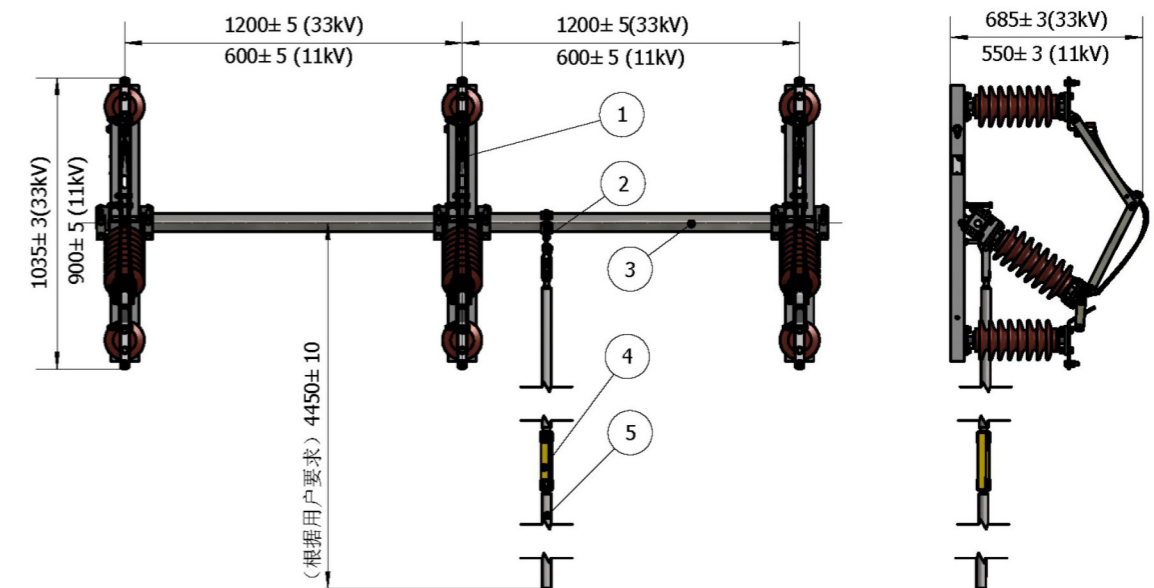
Normal Service Conditions

- Altitude: 1000-2000mb.
- Ambient temperature: no more than 40°C and no less than -30°C (no less than -40°C in alpine areas)
- Wind pressure: ≤700Pa (equating wind velocity of 34m/s)
- Earthquake intensity: ≤8
- Ice thickness: ≤10mm
- The installation location shall be free from flammable, explosive dangerous articles, chemical corrosion and fierce vibration
- The pollution grade of post insulator: 0 for general type and II for pollution resistance type

RH-B High Voltage Disconnecter Switch

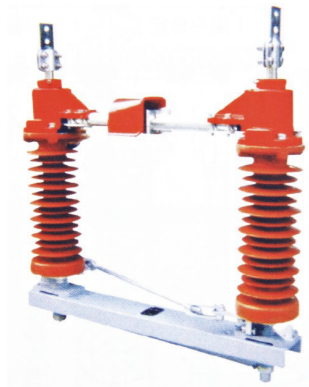


Overall And Installation Dimension



Type	Rated voltage (kV)	Rated current (A)	4s Heat steady current	Shock steady current (A)	Lightning impulse withstand voltage (kV)		Power-Frequency withstand voltage (kV)	
					To earth	Across the isolating distance	To earth	Across the isolating distance
RH-B	11	400	12500	31500	75	95	38	42
		630	20000	40000				
	33	400	12500	31500	170	195	70	80
		630	20000	40000				

GW4(A)-40.5, 70.5, 126(D)(W) Outdoor High Voltage AC Isolation Switch



HGW4-40.5



GW4-40.5D

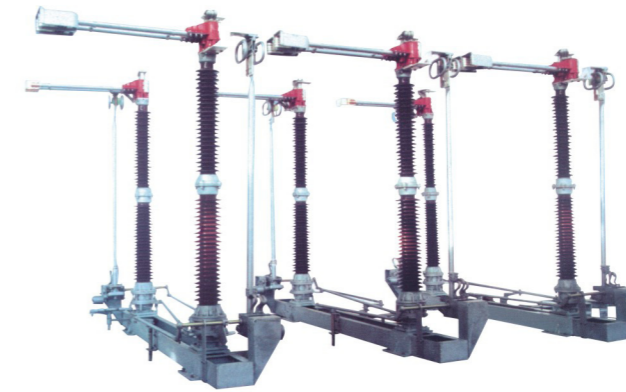


GW4-126

Technical Parameters

Item	Unit	Technical parameters					
Rated voltage	kV	40.5	72.5	126			
Rated insulation level	1min power frequency withstand voltage	To earth	kV	95	140	230	
		Across open DS	kV	118	160	265	
	Rated lightning impulse withstand voltage	To earth	kV	185	325	550	
		Across open DS	kV	215	375	630	
Rated frequency	Hz	50					
Rated current	A	630	1250	1600	2000	3150	4000
Short time withstand current 4s(Eff).	kA	20	31.5	40	40	50	63
Rated peak withstand current	kA	50	80	100	100	125	160
Rated duration of short-circuit	S	4/2					
Rated mechanical terminal load	Level of vertical load	N	750	1000			
	Level of lateral load	N	500	750			
	Vertical force	N	750	1000			
Creepage Distance	mm	1013-1256	1813-2248	3150-3906			
Mechanical life		2000					
Manual operating mechanism	Without earthing		CS14,CS17				
	Single earthing		CS14-D,CS17-D				
	Double earthing		Main cutter CS14G(F); Ground cutter CS11(F)				
Moter drive mechanism	Type		CJ6				
	Motor voltage	V	AC380				
	Contro circuit voltage	V	AC220,DC220,DC220				
	Opening and closing time	s	6±1				
Weight of product (Monopole)	Without earthing	kg	360	500	700		
	Single earthing	kg	410	600	800		
	Double earthing	kg	460	700	900		

GW4-252(D)(W) Outdoor High Voltage Disconnecter Switch



General

Complete isolation switch from GW4-252 pressure isolation switch body, CSA or CS9-G Human actuator, drive accessories and other components, can also be equipped with other electric CJ6 type body.

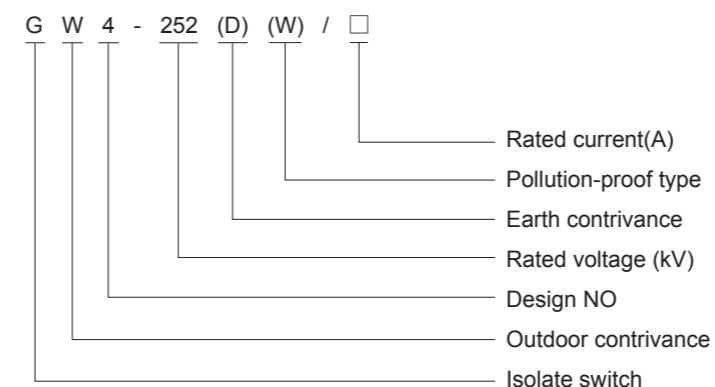
Disconnectors genus level open-post type, unipolar by each base, post insulator, qualifying seat and contact other components, two post insulators mounted parallel to each other on both ends of the bearing base and perpendicular to the base. Leading electrical portions are mounted above the two insulators, post insulators with for about 900 rotation.

Bearing dense structure designed to fulfill the isolation switch, to prevent dust, moisture and harmful gases into the jamming phenomenon caused by the internal bearing; inner bearing with thrust ball bearings and ball bearings, the horizontal component of the gravity and disconnecter borne by two bearings, so that the isolation switch operating torque does not increase after long-term operation. Between the pole shaft assembly by connecting the two panels, the adjustment screw drive-peer connection. Stainless steel pivot pins and self-lubricating bushings, molybdenum disulfide lubricant for efficient lithium grease.

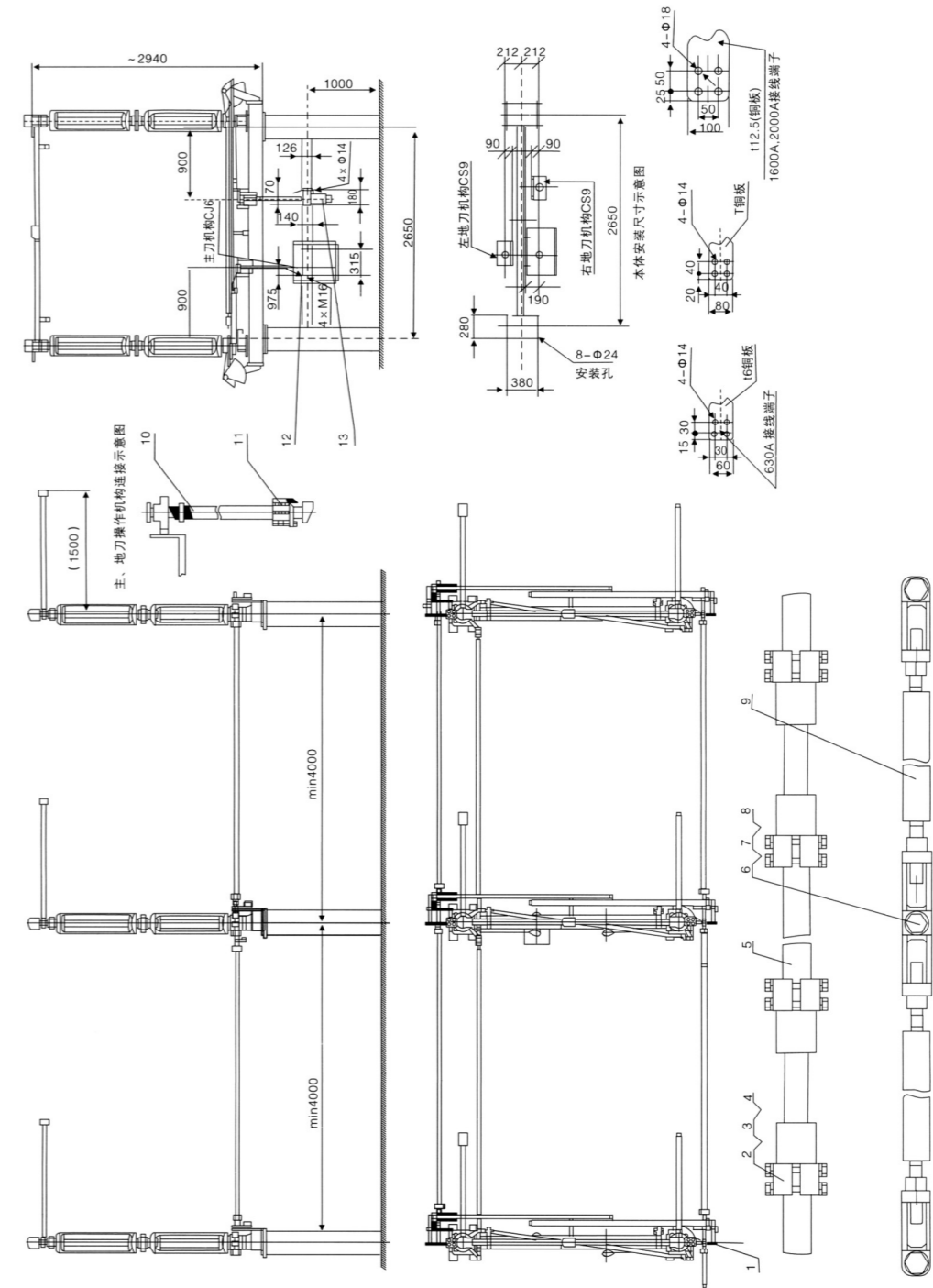
Qualifying seat in copper braid were fastened conducting rod and patch panels, patch panel for users to connect line use. Touch the contact portion of the middle finger pairs assembled by the spring so that the clamping finger finger seat and contacts, in order to achieve contact with the contact fingers of wear and improve life.

Disconnectors with earthing switch, fan-shaped plate leading electrical circuit and grounding interlock switch on the base and curved panels that switch on when leading electrical circuit, grounding switch is not closing. When the grounding switch is closed, the leading circuit loop can not be closed.

Model And Implication



Item	Unit	Technical parameters					
Rated voltage	kV	252					
Rated insulation level	1min power frequency withstand voltage	To earth	kV	460			
		Across open DS	kV	530			
	Rated lightning impulse withstand voltage	To earth	kV	1050			
		Across open DS	kV	1200			
Rated frequency	Hz	50					
Rated current	A	1250	1600	2000	2500	3150	
Short time withstand current 4s(Eff).	kA	31.5	31.5	40	50	50	
Rated peak withstand current	kA	80	80	100	125	125	
Rated duration of short-circuit	S	3					
Rated mechanical terminal load	Level of vertical load	N	1000				
	Level of lateral load	N	750				
	Vertical force	N	3000				
Earthing Switch	Short time withstand current	kA/S	40/3	40/3	40/3	50/3	50/3
	Rated peak withstand current	kA	100	100	100	125	125
Disconnecter bus transfer current switching capability		3000V,1600A,100times					
Mechanical life	times	2000					
Creepage Distance	mm	6300 or 7812					
Manual operating mechanism	Type	CSA or CS9-G					
	Control circuit voltage	V	AC220,DC110,DC220				
Moter drive mechanism	Type	CJ7					
	Motor voltage	V	AC380				
	Control circuit voltage	V	Ac220,DC220,DC220				
	Opening and closing time	s	6 ± 1				
Weight of product	Without earthing	kg	585	605	625	645	665
	Single earthing	kg	615	635	655	675	695
	Single earthing	kg	635	655	675	705	725



- 1. GW4-252 isolating switch
- 2. Clip
- 3. Clamping bolt
- 4. Key
- 5. 40 Water gas pipe
- 6. Stainless steel swivel
- 7. Joint
- 8. Fixing bolts
- 9. 32 Water gas pipe
- 10. Vertical link
- 11. Connecting rod clamp
- 12. Main cutter CJ6 electric mechanism
- 13. Earth knife cs9 human body

GW4-252 outdoor high-voltage AC isolation switch three-phase linkage layout

GW5-40.5,72.5,126 Outdoor High Voltage Disconnecter



GW5-40.5



HGW5-40.5



GW5-126

General

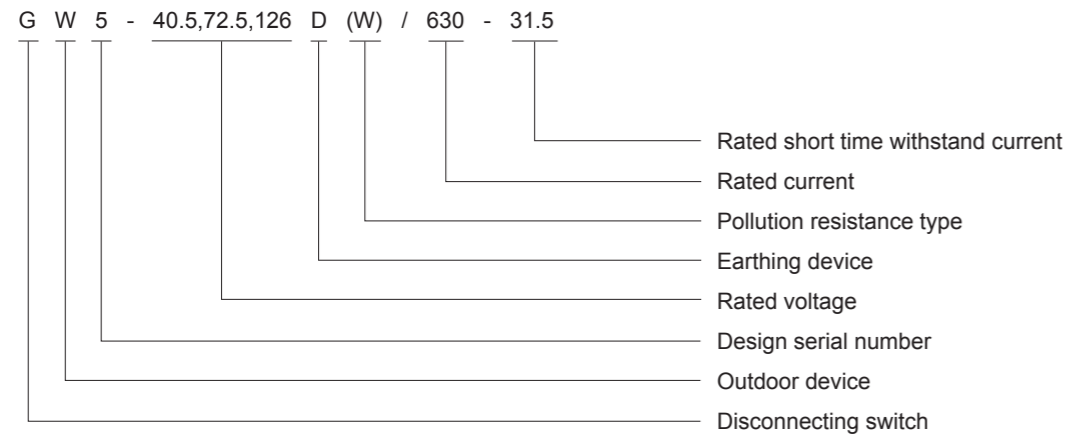
GW5 series outdoor high voltage disconnecter is a three phase AC switching device for 50 to 60HZ high voltage. It is used for breaking the circuit when there is voltage but without load in the power system with the maximum voltage of 40.5kV,72.5kV or 126kV.

According to the usage, the product is divided into ordinary, anti-dirt and special(Z)types. The special type is further divided into three types, which are mounted in a side, up-side-down or inclining way, so the mounting is flexible.

The earthed switching part of the product has two ways of earthing,i.e.single or double earthing. The earthing switch has a structure of type I or type II and the electric parameters of the type II earthing switch has the same short-circuit withstand ability as the disconnecter switch.

The product is provided with a manual or motor operating device and an electromagnetism lock can also be fitted to prevent from wrong operation. The exposed parts are all made of stainless steel or processed with aluminum alloy processing technology or hot-zinc-plating technology to ensure operation with no corrosion for a long period of time, and further ensure the flexibility and reliability of the product, satisfy the requirements in the different areas.

Model And Implication



Features

Isolating switch with double column, contact into open type structure, has the ability of self cleaning contact, improve the contact reliability;

Finger made of new material with high strength, high conductivity, high elastic. Relying on the elastic contact finger clamping itself, to avoid the spring corrosion, contact clamping fever caused by annealing

Force to reduce the contact resistance increases, the contact heat intensified the vicious spiral.

The rotating part according to the design requirements of the isolating switch maintenance free. The rotating seat designed seal structure, moisture, dust and harmful gas can not enter, bearing, molybdenum disulfide lithium base grease will never work in

A good environment, bearing, never rust, grease can not be lost, never dry up, the isolation switch operating torque will increase after long term operation. Stainless steel shaft and oil-free self-lubricating bearing

With the structure of steel by hot dip galvanizing, ensure the isolation switch operation is flexible, portable and reliable, never rust.

The Description Of The Characteristics Of The Perfect Isolating Switch

1. All the hot dip galvanizing process embalmed, can not ensure that they meet the requirements of galvanized rotating parts are generally made of stainless steel, stainless steel fasteners m8 below, the rest are hot dip galvanized.
2. Conductive parts brass soft-linked, among contacts for a "handshake" type of self-type finger spring no current through the external pressure, isolation switch only the middle one contact point, the rest were fixed connection with a soft connection.
 - a. New contact structure, contacts and contact base end fixed contacts by deformation and contact pressure spring produce, so that the end of the finger sliding contact to the fixed contact, to improve the conductivity reliability;
 - b. Finger spring to external, in order to avoid spring diversion;
 - c. To increase the magnetic lock plate, improve dynamic thermal stability.
3. Turn the department assigned to self-lubricating sleeve, no grease.
4. The main terminals for flat type. When the current level is 630a, tin-plated conductive member; current rating of 1250a-4000a, the silvered surface of the conductive member.
5. Porcelain pieces, hot dip galvanized under the cap and make the region according to different levels of contamination can choose different pieces of porcelain from the climb; the nominal value in the manufacturing process, according to the positive control, a creepage distance design higher than the standard value of the design.
6. The switch post insulator strength density, stable and reliable, high-strength porcelain formulation manufactured, reducing the strength of the product dispersion, increases the tensile strength of the product, the product structure has been designed to use a pre-existing greater strength stay and make the products to ensure stable and reliable in operation.

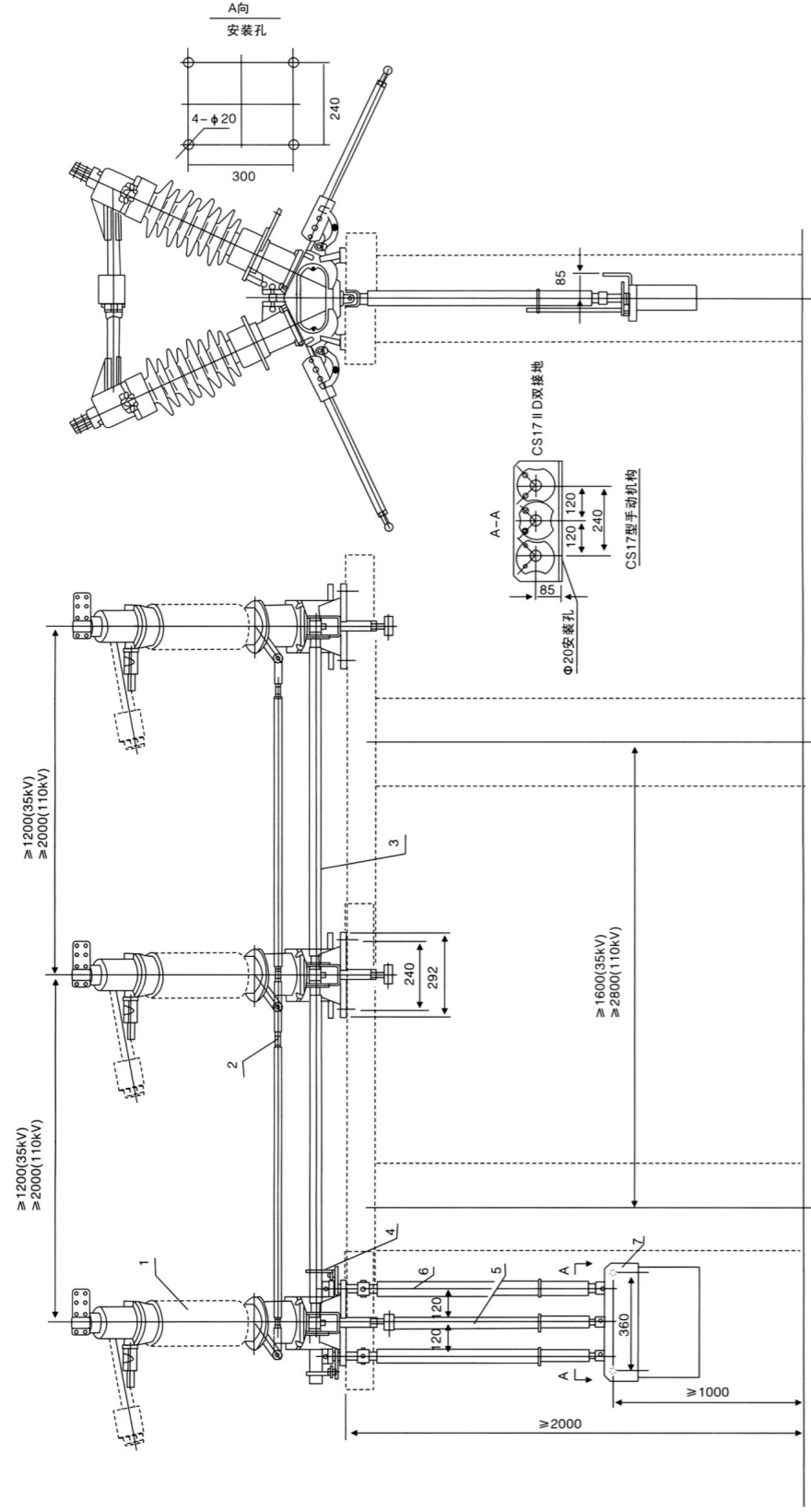
Technical Parameters

Item	Unit	Technical parameters				
Rated voltage	kV	40.5	72.5	126		
Rated insulation level	1min power frequency withstand voltage	To earth	kV	95	140	230
		Across open DS	kV	118	160	265
	Rated lightning impulse withstand voltage	To earth	kV	185	325	550
		Across open DS	kV	215	375	630
Rated frequency	Hz	50				
Rated current	A	630,1250,1600,2000				
Short time withstand current 4s(Eff).	kA	20,31.5,40,40				
Rated peak withstand current	kA	50,80,100,100				
Rated duration of short-circuit	S	4/2				
Rated mechanical terminal load	Level of vertical load	N	750	1000		
	Level of lateral load	N	500	750		
	Vertical force	N	750	1000		
Creepage Distance	mm	1013-1256	1813-2248	3150-3906		
Mechanical life	Times	2000				
Manual operating mechanism	Type	CS17,CS17G				
	Control circuit voltage	V	AC220,DC110,DC220			
Moter drive mechanism	Type	CJ6				
	Motor voltage	V	AC380			
	Contro circuit voltage	V	AC220,DC220,DC220			
	Opening and closing time	s	6±1			
Weight of product	Without earthing	kg	360	500	800	
	Single earthing	kg	390	560	900	
	Double earthing	kg	430	620	1000	

Order Notice

When putting the order, please indicate the specifications, models, types (pollution resistance); without earthing, single earthing or dual ea-rthing, electrical control or manual control. Please make compromise settlement with the manufacture on special requirements.

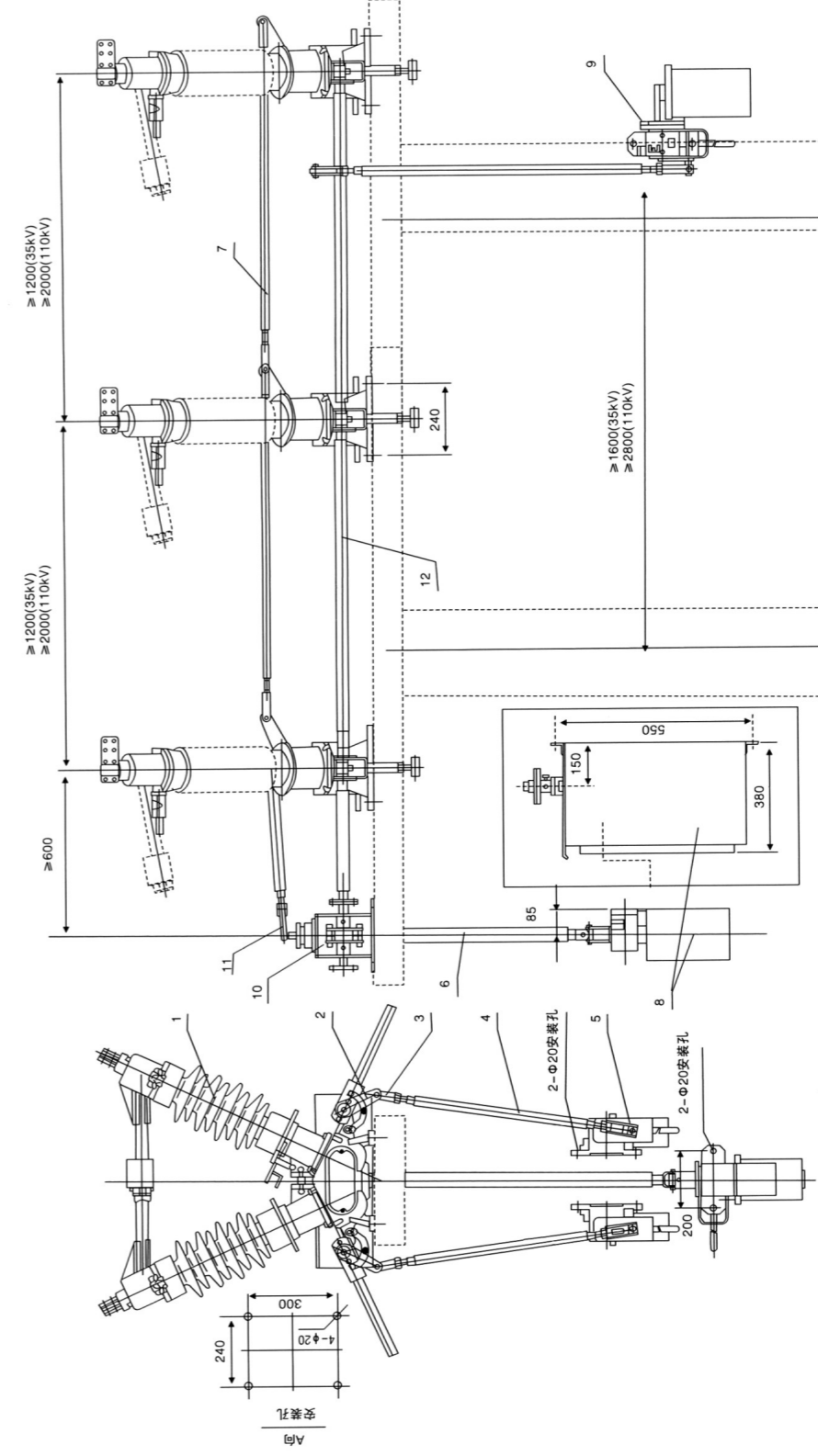
Overall And Installation Dimension



Connection of three-pole switch and CS17G mechanism (double grounding type)

1. Switch
2. Main knife gate connecting rod (user-supplied)
3. Ground connection knife torsion bar (user-supplied)
4. Torque joint
5. Operating torsion bar (user-supplied)
6. Earthing knife operating torsion bar (user-supplied)
7. CS17 manual mechanism

Overall And Installation Dimension

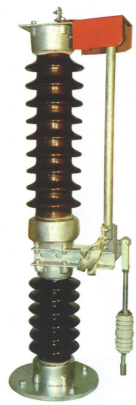


Connection of three-pole switch and CS17-G mechanism (double grounding type)

1. Switch
2. crutch
3. Ground blade connection
4. Grounding knife operating link (user-supplied)
5. Manual Mechanism Connector
6. Operating torsion bar (user-supplied)
7. Main knife connecting rod (user-supplied)
8. CS17G5 manual mechanism or C-J6 electric mechanism
9. CS17G2 manual mechanism
10. Transmission case
11. Gearbox Coupling
12. Ground connection knife torsion bar (user-supplied)

Note: The operating mechanism can also be installed between the two phases or at the right end

GW8 Outdoor High Voltage AC Neutral Point Disconnecter



GW8-72.5



GS8



GW8-126

General

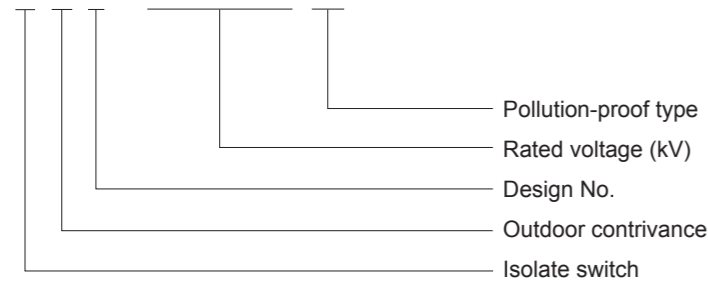
GW8 outdoor high voltage disconnecter is a single phase AC switching device for 50 to 60HZ high voltage. It is use for breaking transformer neutral point earthing when there is voltage but without load in the power system with the maximum voltage of 126kV.

The product is divided two types: ordinary and anti-dirt (W) type.

The CS8 manual-operated device mechanism or CJ6 motor-operated device mechanism can be cooperated with the disconnecter.

Model And Implication

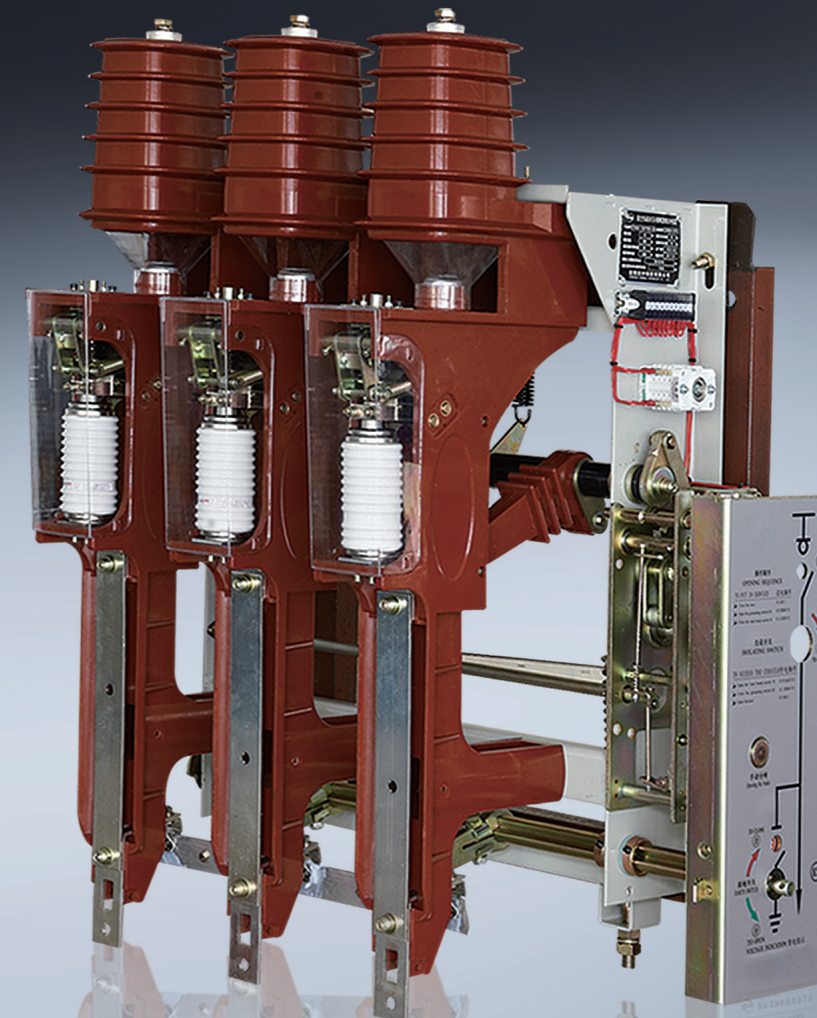
G W 8 - 40.5,72.5,126 (W)



Main Technical Date

Name	Unit	(H)GW8-40.5	(H)GW8-72.5	(H)GW8-126
Rated voltage	kV	40.5	72.5	126
Rated current	A	400,630,1250		
Rated short time withstand current(Eff.)	kA	8,20,31.5		
Peak withstand current(ampl.)	kA	20,50,80		
1min. power frequency withstand voltage	kV	80	140	185
Rated lightning impulse withstand voltage	kV	185	325	450
Mechanical life	Times	2000	2000	2000
Rated mechanical terminal load	Vertical	N	800	800
	Horizonta	N	200	200
LeakAge Distance	mm/kV	16(I pole) 20(II pole) 25(III pole)		
The operating torque of the manual mechanism	Nm	≤200	≤200	≤200
Weight of single pole	Kg	120	160	200
Mechanism supplied for disconnecter		CS8 Manual operating mechanism or CJ6 horizontal type motor drive mechanism		

HIGH-VOLTAGE ELECTRIC LOAD DISCONNECT SWITCH



FZ(R)N25-12D/T Series Indoor High-Voltage Vacuum Load Switch

Technical Parameters

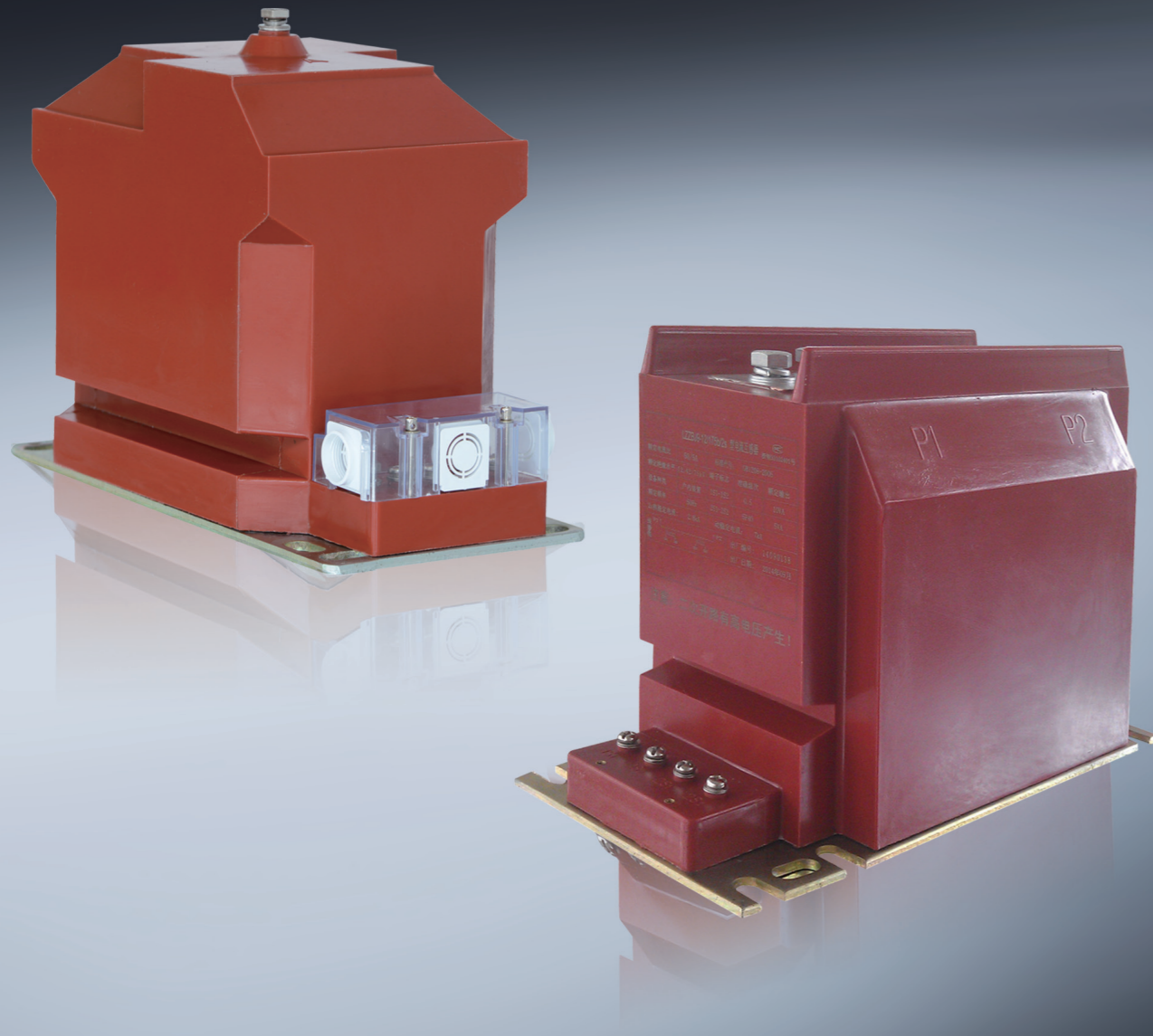
Model		FZN25-12D/T630-20 load switch	FZ(R)N25-12DT200-31.5 Combination switch
Rated voltage	(kV)	7.2/12	7.2/12
Rated current	(A)	630	200
Rated frequency	(Hz)	50/60	50/60
Rated power frequency withstand voltage (1min)	(kV)	42	42
Rated lightning impulse withstand voltage (peak)	(kV)	75	75
Rated short-time withstand current (4S)	(kA)	20	20
Rated short-circuit breaking current (peak)	(kA)	50	80
Rated short circuit breaking current	(kA)	—	31.5
Rated short-time withstand current of the ground loop	(kA)	20	20
Rated breaking transfer current	(A)	—	2000
Rated capacity of breaking no-load transformer	(kA)	—	1600
Model of fuse		—	XRNT0-10
Subsidiary control loop power Frequency withstand voltage for 1min	(V)	2000	2000
Leading circuit resistance	($\mu\Omega$)	≤ 200	≤ 400
Mechanical life	(times)	5000	5000
Switch weight	(kg)	120	120
Outline dimension	Width (W)	435	510
	Length (D)	820	820
	Height (H)	970	950
Rated operational voltage	(V)	AC200,AC110,DC220,DC110	
Installation method		Left operation of upward progress, right operation of upward progress, left operation of downward progress and right operation of downward progress	
Operating mode		Manual separating brake and switching-on Manual separating brake and switching-on Shunt trip	

— N/A

Order Specification

Model		FZN25-12/T630-20	FZN25-12D/T630-20	FZRN25-12/T200-31.5	FZRN25-12D/T200-31.5
Order quantity					
Institution location	Left operation				
	Right operation				
Installation way	Upper incoming				
	Lower incoming				
Operating way	Manual separation/ closing operation				
	Manual separation/ closing operation, shunt strip				
Operating voltage	Electric separation/ closing operation, shunt strip				
	AC 220V (Default)				
Mechanism depth	DC 220V				
	AC 110V				
	DC 110V				
Notes	L=170 (instrument chamber, depth: 100, by default)				
	L=240 (instrument chamber, depth: 170)				
	L= non-standard (confirmed by customers)				
Remarks		Load switch	Load switch (with grounding)	Load switch fuse-combination unit (with a fuse base)	Load switch Fuse- combinations unit (with a fuse base and grounding)

HIGH-VOLTAGE ELECTRIC INSTRUMENT TRANSFORMER



Instrument Transformer Series

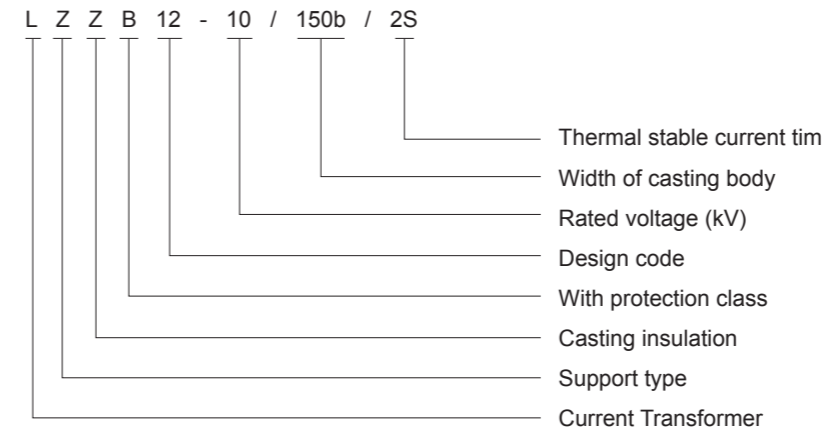
LZZBJ12-10/150b/2S Pillar Type Fully Enclosed Casting Insulation Current Transformer HT CT



Outline

The LZZBJ12-10/150b/2S type current transformer is epoxy resin casted with totally-enclosed structure. It adopts the advanced materials and technics, it is suitable for the indoor AC power system with rated frequency 50-60Hz, rated voltage 10kV for current, power measurement and relay protection, this product is the newest generation current transformer with high accuracy and dynamic-thermostable big capacitance. The secondary windings has 2-3PCS, the discretionary combination according to different demands. It is suitable in the KYN28A(GZS1) high-voltage switchgear. Comply with GB 1208-2006 standard.

Model implication



Structural Features

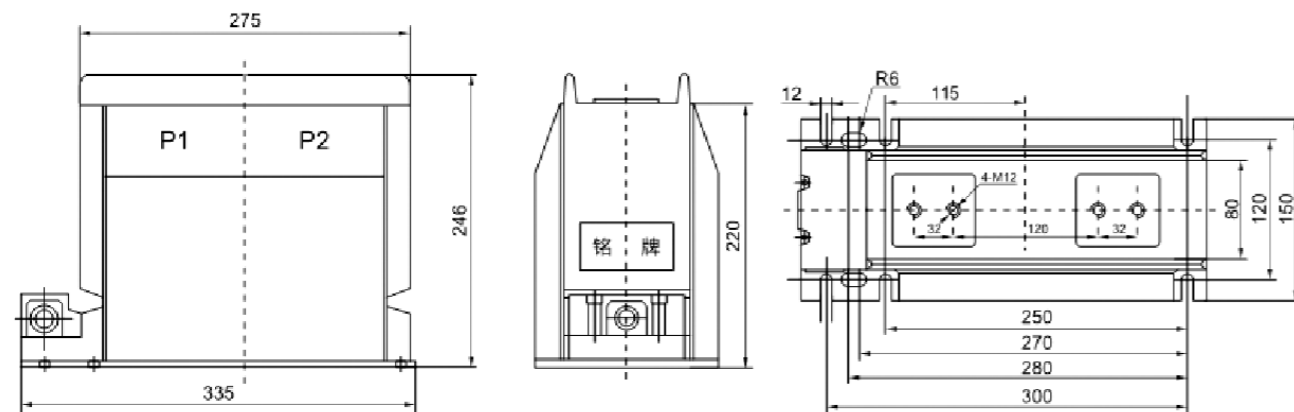
This product's support type structure, it is epoxy resin casted with totally-enclosed. Anti-pollution and moisture proof, it is suitable for moist and topic zone, the secondary windings with one measurement class and one protection class(or two), it adopts import core with strict heat treatment. It installs the shield at the secondary outlet terminal, installed at any direction and position easily. The face and side face of shield have one hole which is used for the secondary connection, It could elicit the secondary connection at the three directions, and the shield could present someone from stealing the power electricity.

Main Technical Parameters

- Rated insulation level 12/42/75kV;
- Power factor of load: $\cos\phi=0.8$ (lagging);
- Rated secondary current 5A or 1A;
- Anti- Pollution: II Class;
- Standard: GB 208-2006;
- Meter protection coefficient: $FS\leq 10$;
- Other technical parameters refer to the datum of table.

Type	LZZB12-10/150b/2S(Two windings)					LZZB12-10/150b/2S(Three windings)							
	Performance parameters	Accuracy class combination	Rated secondary output(VA)			1S thermal current (KA)	Dynamic stable current (KA)	Accuracy class combination	Rated secondary output(VA)			1S thermal current (KA)	Dynamic stable current (KA)
			0.2	0.5	10P10				0.2	0.5	10P10		
20-200					1001m	250hn					1001m	250hn	
300					31.5	80					31.5	80	
400							10	10	10				
500					45	112.5					45	112.5	
600					63	130					63	130	
800	0.2/0.5									0.2/0.5/10P10			
1000	0.2/10P10	10	15	15	80	160				0.5/0.5/10P10			
1200	0.5/10P10												
1250							15	15	15				
1500					100	160					100	160	
1600													

Outline & Mounting Dimensions



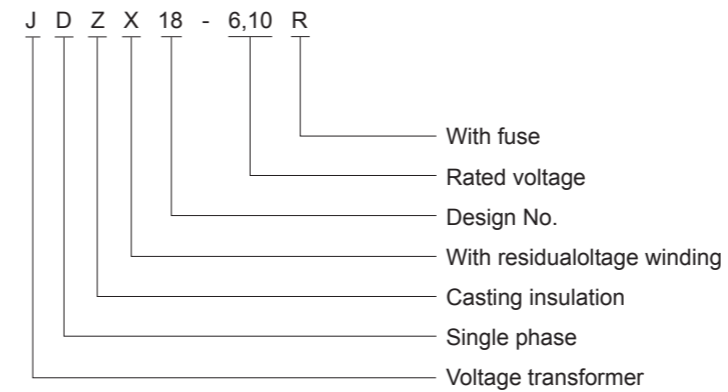
JDZ10-3, 6, 10 (A, B) Single-Phase Fully Enclosed Fully Insulated Casting Voltage Transformer HT PT



Outline

This transformer is epoxy resin cased with totally-enclosed structure and full insulation. It is designed for use of measurement of voltage, electronic energy and relay protection in the power system with rated frequency 50Hz-60Hz and rated Voltage 3,6,10kV or below. Small size light weight.it could be installed at any position.

Modelimplication



Characteristic Of Structure

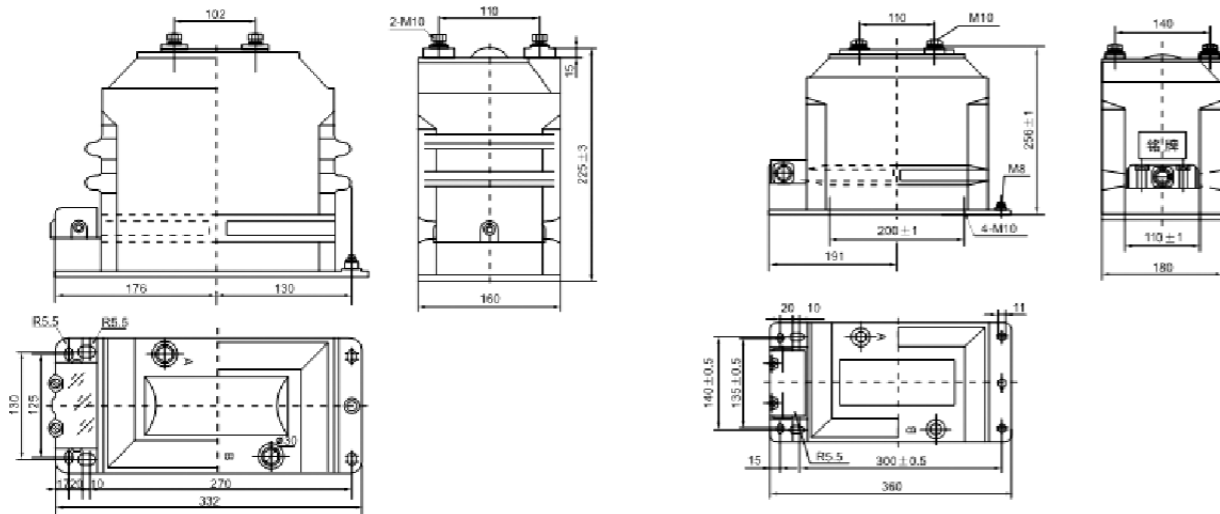
This product is support type structure, it is epoxy resin cased with totally-enclosed. Anti- pollution and moisture proof. it is suitable for moist and topic zone, the secondary winding has one measurement Class and one protection class(or two), it adopts import core with strict hot treatment, it installs the shield at the secondary outlet terminal, for installation at any direction and position. The face and side face of shield have one hole which is used for the secondary connection, It could lead out the secondary connection at the three directions, and the shield could present someone from stealing the power electricity.

Main Technical Parameters

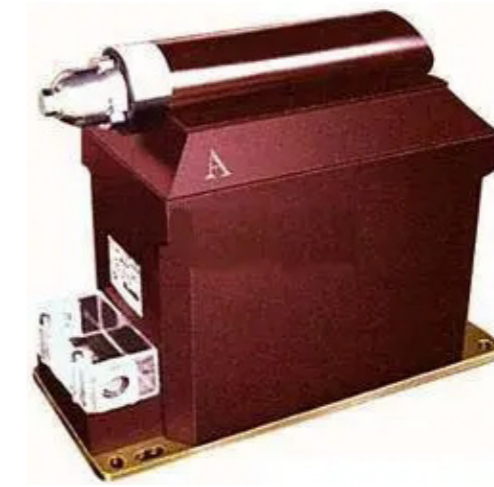
- Stand ard: GB1207-2006;
- Anti-Pollution: II Class;
- Power factor of load: $\text{COS } \phi=0.8$ (lagging);
- Other technical parameters see blow.

Type	Rated voltage ratio(V)	Accuracy class and accuracy class combination	Rated output(VA)			Limit output(VA)	Rated insulating level(kV)	Remark
			0.2	0.5	1			
JDZ10-3A	3000/100					3.6/25/40		
JDZ10-6A	6000/100	0.2	15	30	60	150	7.2/30/60	
JDZ10-10A	10000/100	0.5					12/42/75	Same with RZL
JDZ10-3B	3000/100						3.6/25/40	
JDZ10-6B	6000/10	0.2/0.2	25	50	90	300	7.2/30/60	
JDZ10-10B	10000/10	0.2/0.5					12/42/75	

Outline & Mounting Dimensions



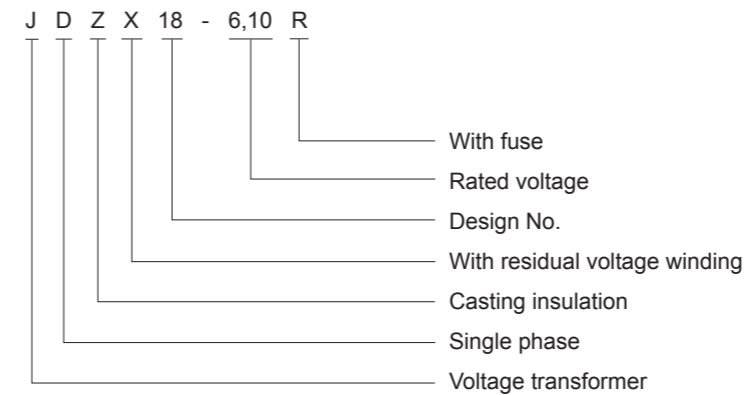
JDZX18-6,10R Single-Phase Fully Enclosed Semi-Insulated With Fuse Cast Voltage Transformer HT PT



Outline

This voltage transformer is epoxy resin vacuum casted with totally-enclosed structure for indoor usage. It is designed for the voltage measurement, electronic energy measurement and relay protection in the power system with rated frequency 50Hz and rated voltage 10kV or below.

Modelimplication

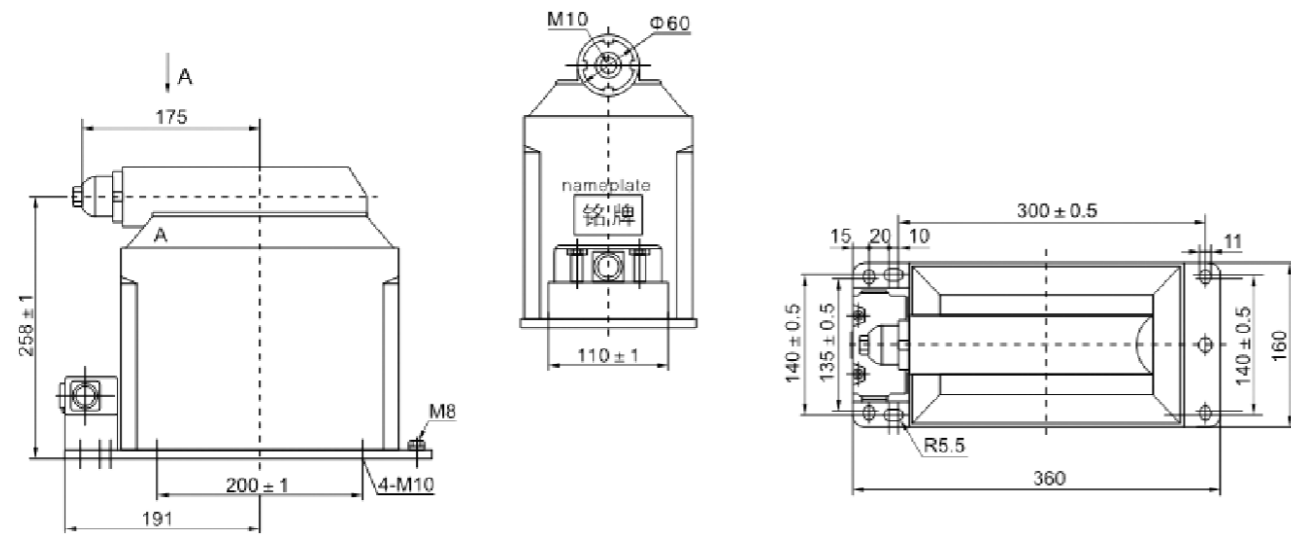


Main Technical Parameters

- Stand ard: GB 1207-2006;
- Anti-pollution: II Class ;
- Power factor of load: $\text{COS } \phi=0.8$ (lagging);
- Fuse model XRINTD-12,0.5A(if special requirement please mentioned);
- Other technical parameters refer to the datum of table.

Type	Rated voltage ratio	Rated output(VA)				Limit output (VA)	Rated insulating level(kV)
		0.2	0.5	1 class	3p class		
JDZX18-6R	6: $\sqrt{3}$ /0.1: $\sqrt{3}$ /0.1:3	20	40	60	50	400	7.2/30/60
JDZX18-10R	10: $\sqrt{3}$ /0.1: $\sqrt{3}$ /0.1:3	25	50	90	50		12/42/75

Outline & Mounting Dimensions



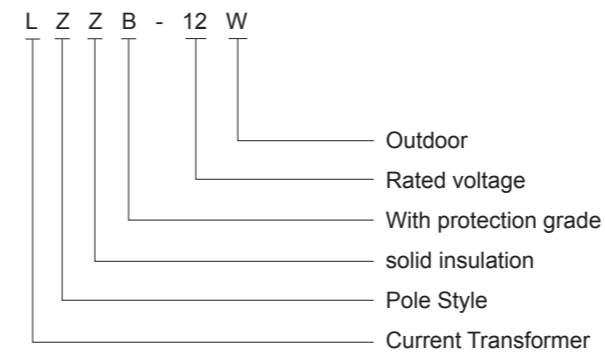
LZZBW-6,10 Outing Current Transformer



Outline

LZZB-12W is a outdoor dry casting insulation current transformer wholly enclosed with special outdoor materials of high dynamic thermal stability .high precision, pollution proof, highload and anti-flame 'avoiding oil leak' oil deterioration and other disadvantagesit can be used measurement of current and electric energy as well as relay protection in electric system. Characteristics of product; Realize oil free to protect the environment Exemp annual preventative test of oil-immresed products so as to realize maintenance free and save abundant manpower and material resources. Excellent equipment of transformer station with no one on watch Its manufacturing materials are antflaming and self extinguishing with waterproof and flameproof performance.

Modelimplication

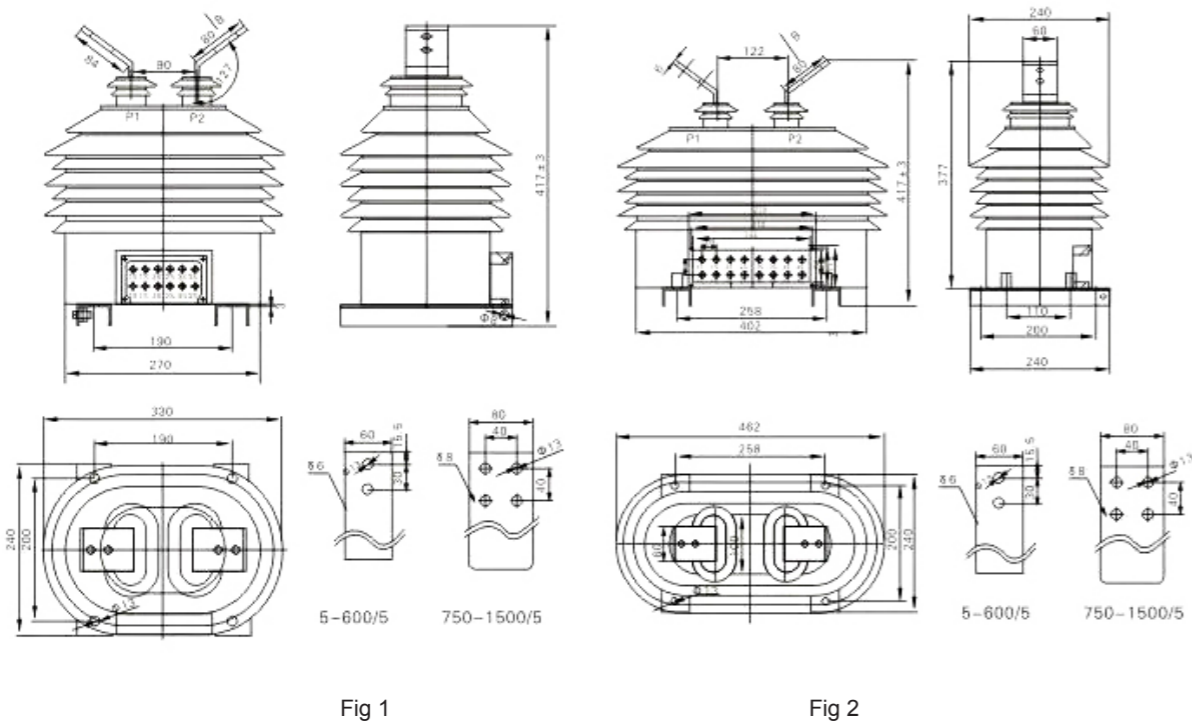


Main Technical Parameters

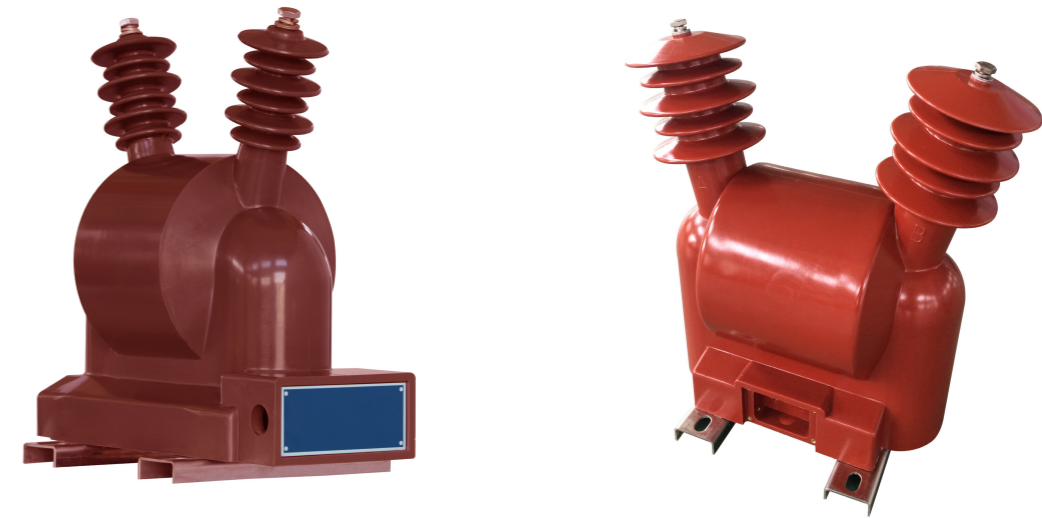
- Product function accord with IEC standards and GB 1208-2006 《 Current transformer 》 .
- Rated insulating level: 12/42/75kv
- Load power factor: COS ϕ =0.8(lagging)
- Rated frequency: 50Hz
- Rated secondary current: 5A(2A, 1A)
- Can be made into different kinds of complex transformation ratio structures
- Its main technical parameters refer to Table 1

Rated primary current (A)	Accurate grade Combination	Rated Secondary Output (VA)					Rated Short-time thermal-current (KA virtual value)	Rated Dynamic stability Current (KA virtual valuc)
		0.2	0.2S	0.5S	0.5	10P(15)		
20-40;40						6.3	15	
30-60;60						9	22.5	
40-75;75						15	37.5	
50-100;100						18	45	
75-150;150						25	55	
100-200;200	0.2S/0.2/100P 0.2/10P					50	110	
150-300;300	or	10	10	15	15			
200-400;400	0.5/10P 0.5S/0.5/10P					60	130	
300-600;600								
400-800;800								
500-1000;1000								
1200-1500						80	100	
2000-3000								

Outline & Mounting Dimensions



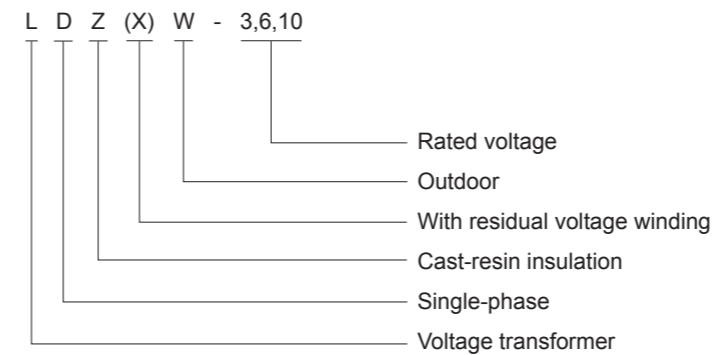
JDZW(X)-3,6,10 Outing Voltage Transformer



Outline

JDZW-10 type is outdoor full-enclosed type voltage transformer. This product special outdoor insulative casting (Swiss Ciba CW5837) which has quality of anti-agingjong age, anti-ultraviolet ray. It is used for voltage power measurement in outdoor alternate power system with frequency 50-60Hz, rated voltage 10KV and below.

Modelimplication



Instrument Transformer Series

Main Technical Parameters

Type	Rated voltage ratio (kV)	Rated frequency (Hz)	Accuracy classes combination	Rated output(VA)	Max. output(VA)	Rated insulation level(kV)
JDZW-3	3/0.1	50,60	0.2	40	800	3.6/25/40
			0.5	100		
JDZW-6	6/0.1	50,60	0.2	40	800	7.2/32/60
			0.5	100		
JDZW-10	10/0.1	50,60	0.2	40	800	12/42/75
			0.5	100		
JDZW-3	3/0.1/0.1	50,60	0.2/0.2	20/20	400	3.6/25/40
			0.2/0.5	20/30		
			0.5/05	30/30		
JDZW-6	6/0.1/0.1	50,60	0.2/0.2	20/20	400	7.2/32/60
			0.2/0.5	20/30		
			0.5/05	30/30		
JDZW-10	10/0.1/0.1	50,60	0.2/0.2	20/20	400	12/42/75
			0.2/0.5	20/30		
			0.5/05	30/30		
JDZXW-3	$3/\sqrt{3}/0.1/\sqrt{3}/0.1/3$	50,60	0.2/6P(3P)	30/100	600	3.6/25/40
			0.5/6P(3P)	60/100		
JDZXW-6	$6/\sqrt{3}/0.1/\sqrt{3}/0.1/3$	50,60	0.2/6P(3P)	30/100	600	7.2/32/60
			0.5/6P(3P)	60/100		
JDZXW-10	$10/\sqrt{3}/0.1/\sqrt{3}/0.1/3$	50,60	0.6/6P(3P)	30/100	600	12/42/75
			0.5/6P(3P)	60/100		

Outline & Mounting Dimensions

