

ZW-36 Outdoor High-Voltage Vacuum Circuit-Breaker



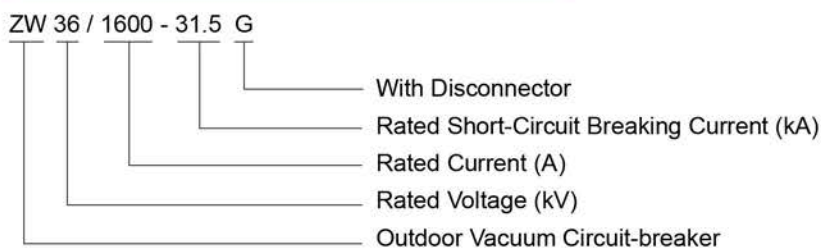
Summary

The circuit breaker adopts porcelain pole structure, spring operation device and it can undertake tasks like opening operation and closing operation nearby or remotely. It also has the advantages such as excellent interruption performance, short arcing time, long electrical endurance, simple structure and convenience to be installed and maintained. Moreover, it can be used to open or close load current, overload current and short-circuit current. It was applicable at transformer substations, power plants, rural power distribution automation grids and occasions where frequent operations are needed.

Applied Standard

- IEC62271 High-voltage switchgear and controlgear
- GB1984-2003 High-voltage AC Circuit Breaker
- GB3804-2004 3.6~40.5KV High-voltage AC Load Switch
- DL/T402-2007 Order Technical Conditions of High-voltage AC Breaker
- GB/T11022-2011 Common Technical Requirements for High-voltage Switchgear and Control Equipment Standard

Product Model and Implication

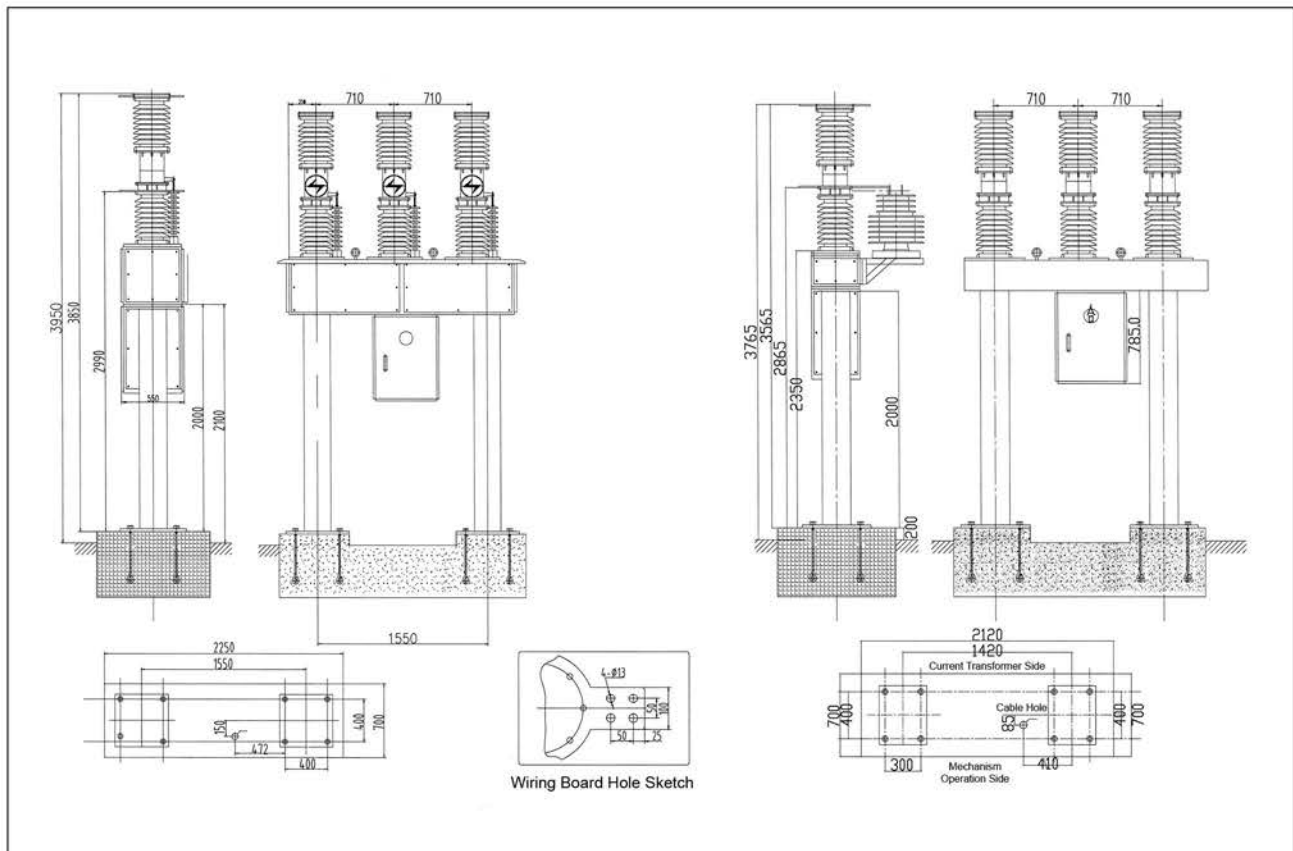


ZW-36 Outdoor High-Voltage Vacuum Circuit-Breaker

Main Technical Parameters

NO	Item	Unit	Value
01	Rated voltage	kV	36
02	Rated current	A	2000
03	Rated frequency	Hz	50 or 60
04	1 min ac withstand voltage(wet)(dry)phase to phase, to ground/gap	kV	80 95/118
05	Lightning impulse withstand voltage(peak)phase to phase, to ground/gap	kV	185/215
06	Rated short-circuit breaking current	kA	31.5
07	Rated short-circuit breaking times	times	30
08	Rated peak withstand current	kA	80
09	Rated short-time withstand current/duration	kA/s	31.5/4
10	Rated short-circuit making current	kA	80
11	Resistance of main circuit	$\mu\Omega$	≤ 80
12	Mechanical life	times	10000

Outline Dimensions



To be Leading in the Field
To be First Class in the World

ZW32-12 Outdoor High-Voltage Vacuum Circuit Breaker



Summary

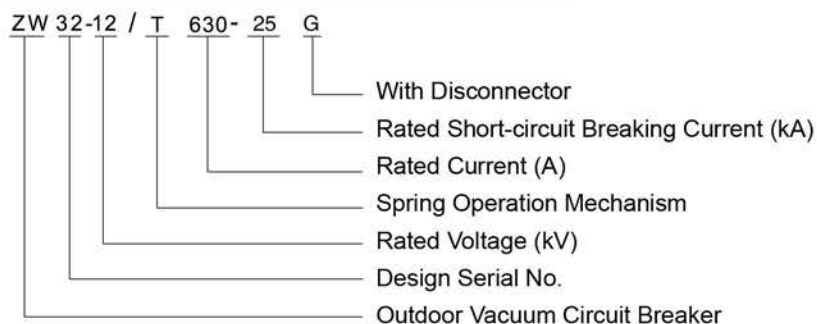
The circuit breaker is a kind of outdoor distribution equipment integrates switch technology, advanced network technology and microcomputer processing technology into itself. It is combined by three-phase integrated and embedded poles, current transformer, spring operation device and enclosure. The product is highly intellectualized and has the functions such as protection, monitoring and controlling. Besides, a variety of communication protocols is presented for selection. Its modularized design and easy operations for upgrade and maintenance make the convenience for clients. It is widely used in transformer substations, industrial and mining enterprises, rural power distribution automation grids and occasions where frequent operations are needed.

One-sided or double-sided disconnecter can be selected, and there is a three-phase linkage in it. An obvious insulation distance can be seen on the disconnecter when it is open. Moreover, there is an existence of linkage which is used to avoid misoperations between disconnecter and circuit-breaker. The safety for using and the convenience of maintenance will be guaranteed.

Applied standard

- IEC62271 High-voltage switchgear and controlgear
- GB1984-2003 High-voltage AC Circuit Breaker
- GB3804-2004 3.6~40.5KV High-voltage AC Load Switch
- DL/T402-2007 Order Technical Conditions of High-voltage AC Breaker
- GB/T11022-2011 Common Technical Requirements for High-voltage Switchgear and Control Equipment Standard

Product Model and Implication

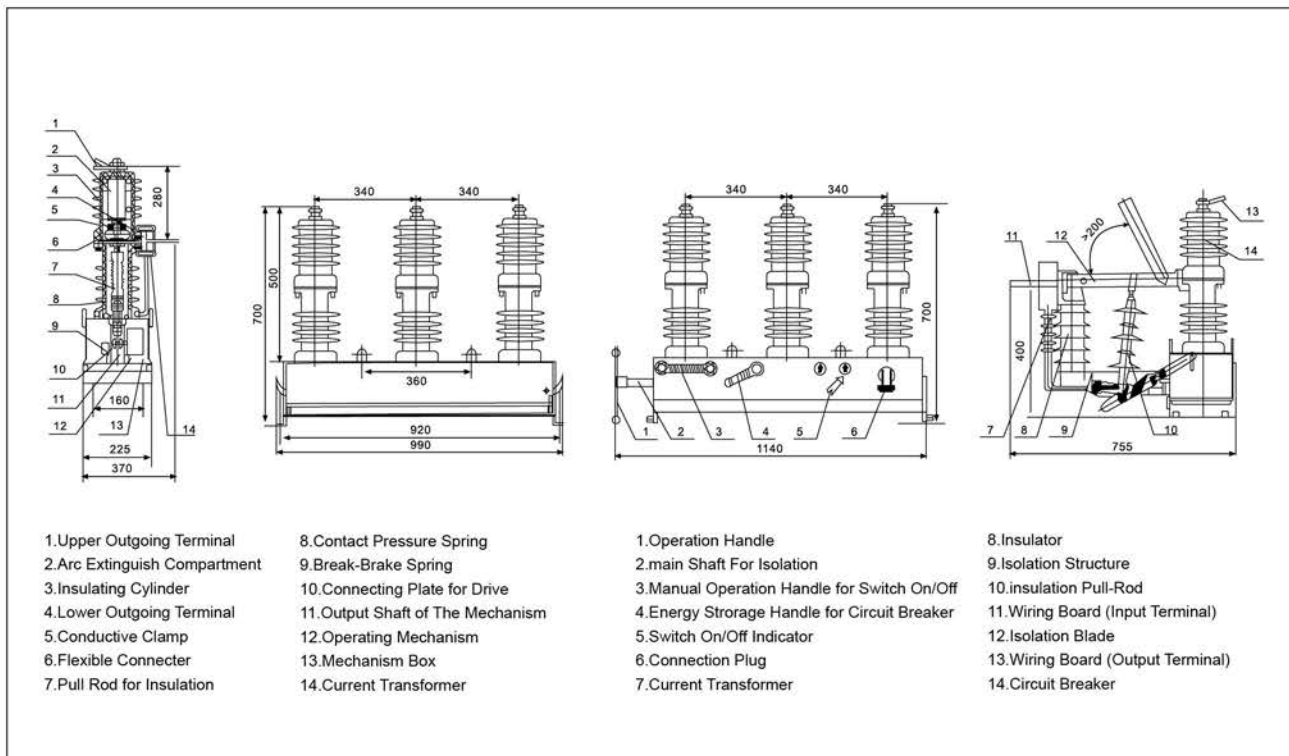


ZW32-12 Outdoor High-Voltage Vacuum Circuit Breaker

Main Technical Parameters

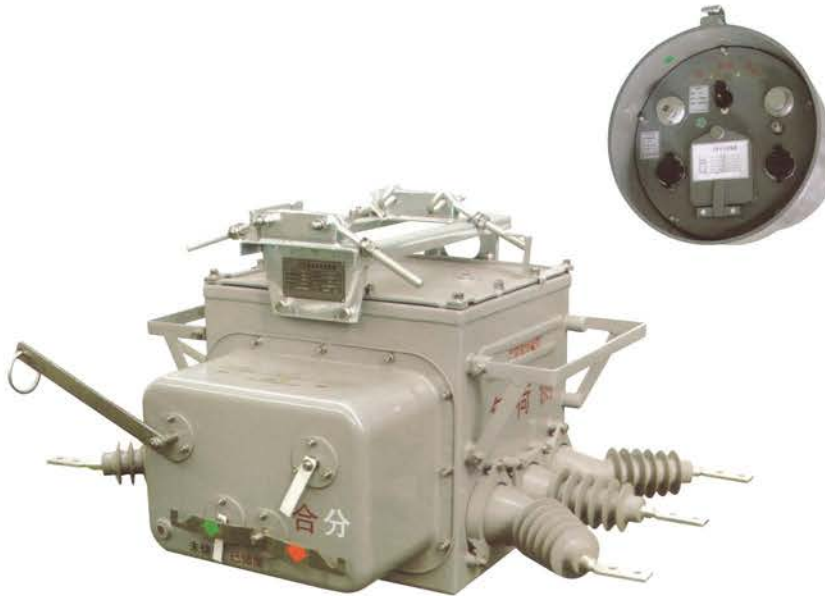
NO.	Item	Unit	Value	
01	Rated voltage	kV	12	24
02	Rated current	A	630	1250
03	Rated frequency	Hz	50, 60	50, 60
04	1-min ac withstand voltage(wet)(dry)phase to phase, to ground/gap	kV	34 42/48	50 65
05	Lightning impulse withstand voltage(peak)phase to phase, to ground/gap	kV	75/85	125
06	Rated short-circuit breaking current	kA	20	25
07	Rated short-circuit breaking times	times	30	
08	Rated peak withstand current	kA	50	
09	Rated short-time withstand current	kA/s	20/4	25/4
10	Rated short-circuit making current(peak)	kA	50	63
11	Resistance of main circuit	$\mu\Omega$	≤ 80 (insolation) ≤ 150 (without insolation)	
12	Mechanical life	times	10000	

Outline Dimensions



To be Leading in the Field
To be First Class in the World

ZW20-12 Outdoor High-Voltage Vacuum Circuit-Breaker



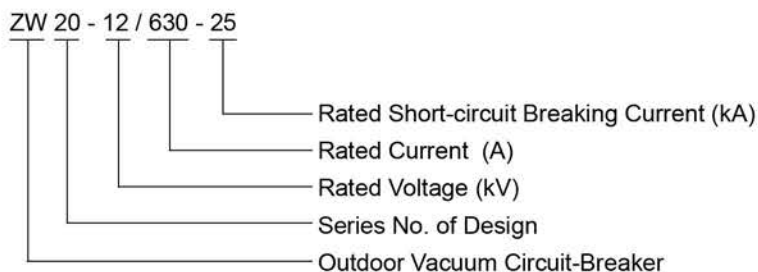
Summary

The circuit breaker is a combination of switching technology, modern network technology and computer processing technology in one the outdoor distribution equipment. It is a three-phase box sealing structure, highly intelligent and sets protection, monitoring and control in one combined operation. It has stable closing-open operation quality and supports a variety of communication protocols, The modular design makes it is easy to upgrade and maintain. It is suitable in substation, industrial and mining enterprises, urban and rural power distribution grid and places of frequent operation. The installation of disconnector and three-phase linkage is on your choice. The fracture of disconnector is obviously visible in the OFF stage and have anti-error-lock with the breaker body, which makes it safe and easy maintenance.

Applied Standard

IEC62271 High-voltage switchgear and controlgear
GB1984-2003 High-voltage AC Circuit Breaker
GB3804-2004 3.6~40.5KV High-voltage AC Load Switch
DL/T402-2007 Order Technical Conditions of High-voltage AC Breaker
GB/T11022-2011 Common Technical Requirements for High-voltage Switchgear and Control Equipment Standard

Product Model and Implication

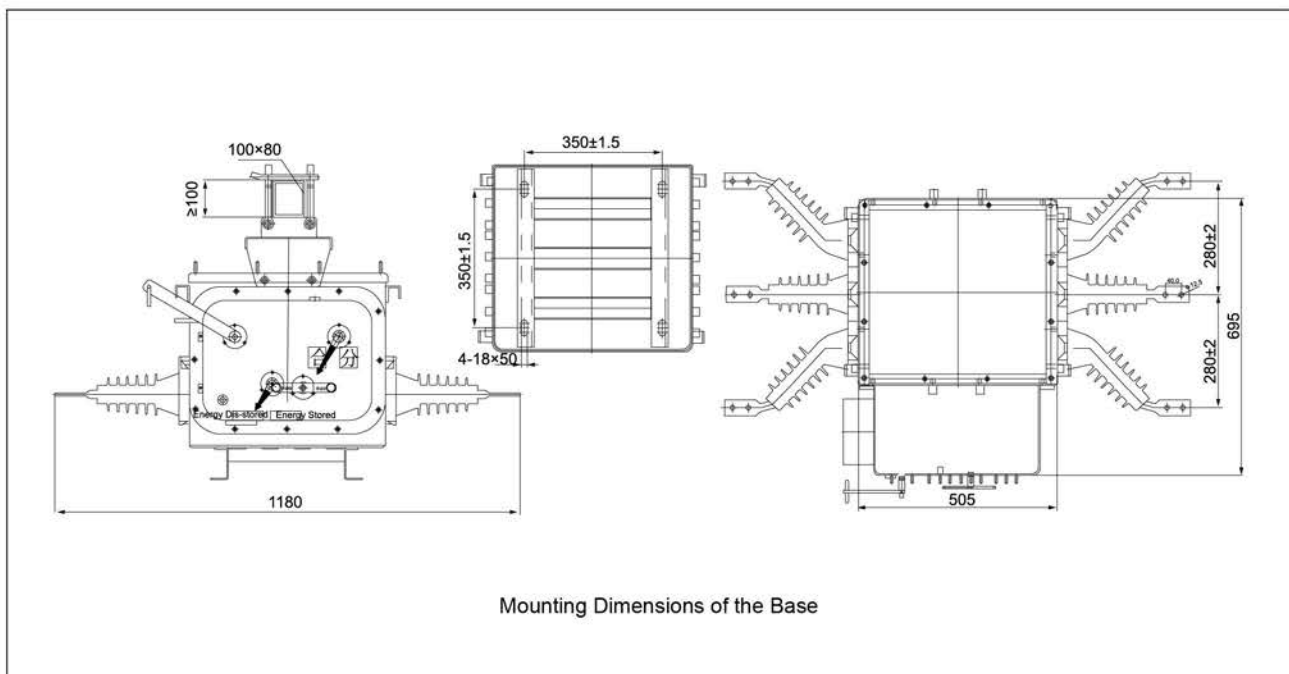


ZW20-12 Outdoor High-Voltage Vacuum Circuit-Breaker

Main Technical Parameters

NO.	Item	Unit	Value
01	Rated voltage	kV	12
02	Rated current	A	630, 1000
03	Rated frequency	Hz	50 or 60
04	1min Frequency withstand voltage(wet)(dry)phase to phase, phase to earth/fracture	kV	34 42/48
05	Lighting impulse withstand voltage(peak)phase to phase, phase to earth/fracture	kV	75/85
06	Rated short-cut current	kA	20
07	Times of breaking rated short-cut current	times	30
08	Rated withstand current (peak)	kA	50
09	Rated short-time withstand current/duration	kA/s	20/4
10	Rated shout-cut making current	kA	50
11	Resistance of main circuit	$\mu\Omega$	≤ 150 (insolation) ≤ 200 (without insolation)
12	Rated N2 gas pressure (gage pressure)	MPa	0.01
13	Mechanical life	times	10000
14	Net weight	kg	140

Outline Dimensions



TO be Leading in the Field
TO be First Class in the World

ZW10-12 Outdoor High-Voltage Vacuum Circuit-Breaker



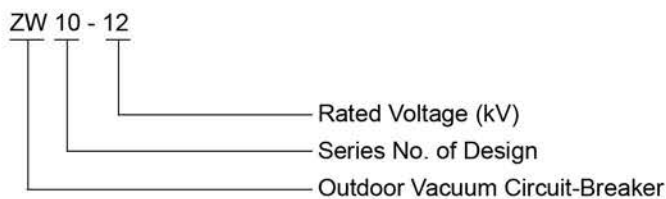
Summary

The circuit breaker was reduced after trolley wire was replaced by insulate were. tis a combination of switching technology, modern network technology and computer processing technology in one the outdoor distribution equipment. It is a three-phase box sealing structure, highly intelligent and sets protection, monitoring and control in one combined operation. It has stable closing-open operation quality and supports a variety of communication protocols, the modular design makes it is easy to upgrade and maintain. It is suitable in substation, industrial and mining enterprises, urban and rural power distribution grid and places of frequent operation.

Applied Standard

- IEC62271 High-voltage switchgear and controlgear
- GB1984-2003 High-voltage AC Circuit Breaker
- GB3804-2004 3.6~40.5KV High-voltage AC Load Switch
- DL/T402-2007 Order Technical Conditions of High-voltage AC Breaker
- GB/T11022-2011 Common Technical Requirements for High-voltage Switchgear and Control Equipment Standard

Product Model and Implication

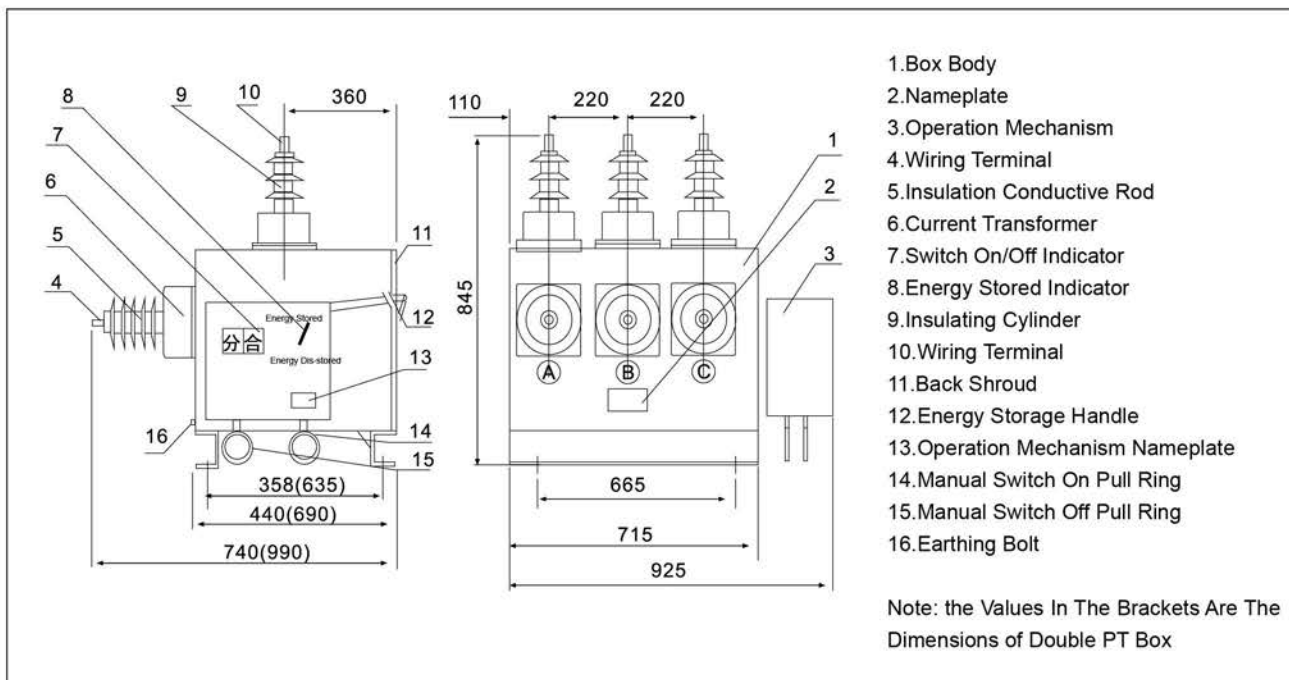


ZW10-12 Outdoor High-Voltage Vacuum Circuit-Breaker

Main Technical Parameters

NO.	Item	Unit	Value
01	Rated voltage	kV	12
02	Rated current	A	630, 1250
03	Rated frequency	Hz	50 or 60
04	1min Frequency withstand voltage(wet)(dry)phase to phase, phase to earth/fracture	kV	34 42/48
05	Lighting impulse withstand voltage(peak)phase to phase, phase to earth/fracture	kV	75/85
06	Rated short-cut current	kA	20
07	Times of breaking rated short-cut current	times	30
08	Rated withstand current (peak)	kA	50
09	Rated short-time withstand current/duration	kA/s	20/4
10	Rated shout-cut making current	kA	50
11	Resistance of main circuit	$\mu\Omega$	≤ 150 (insolation) ≤ 200 (without insolation)
12	Mechanical life	times	10000
13	Net weight	kg	150

Outline Dimensions



TO be Leading in the Field
TO be First Class in the World

ZW8-12/ Outdoor High-voltage Vacuum Circuit-breaker with Intelligent Controller



Applicable with Electronic PT with Short Distance Tele-control

Applicable with Electric Power Automatic Switch Device

Applicable with Intelligent Automatic Reclosing

Summary

The circuit breaker is a green products, which is with three-phase total box-type seal structure, and without oil, gas pollution, the product is with vacuum interrupting, which has the features of safety, reliability, compact and easy installation, It also has the function of overload and short circuit protection and automatic reclosing. The product can equipped with vacuum interrupter linkage disconnect or (visible isolating distance) and electronic remote control, according to user needs, which can help us to realize remote control operation. This product is applicable to 12kV distribution line voltage level, small substation.

Applied Standard

IEC62271 High-voltage switchgear and controlgear

GB1984-2003 High-voltage AC Circuit Breaker

GB3804-2004 3.6~40.5KV High-voltage AC Load Switch

DL/T402-2007 Order Technical Conditions of High-voltage AC Breaker

GB/T11022-2011 Common Technical Requirements for High-voltage Switchgear and Control Equipment Standard

ZW8-12/ Outdoor High-voltage Vacuum Circuit-breaker with Intelligent Controller

Main Technical Parameters

NO	Item	Unit	Value
01	Rated voltage	kV	12
02	Rated current	A	630
03	Rated frequency	Hz	50 or 60
04	1min power frequency withstand voltage(wet)(dry)to phase/to earth/to fracture	kV	34 42/48
05	Lightning impulse withstand voltage(peak)to phase/ to earth/ to fracture	kV	75/85
06	Rated short circuit breaking current	kA	20
07	Time for breaking short circuit current	times	30
08	Rated short circuit making current(peak)	kA	50
09	Rated short time withstand current	kA/s	20/4
10	Rated short circuit making current	kA	50 or 63
11	Main circuit resistance	$\mu\Omega$	≤ 120 (insolation) ≤ 150 (without insolation)
12	Mechanical life	times	10000

Outline Dimensions

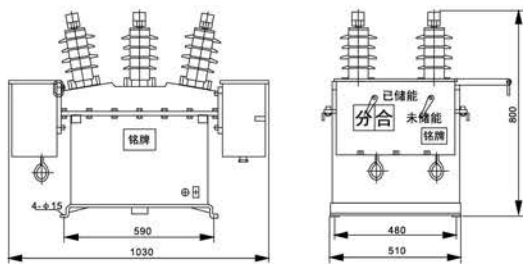


Fig 1. Outline Drawing and Mounting Dimensions of ZW8-12 with Electronic PT Circuit Breaker

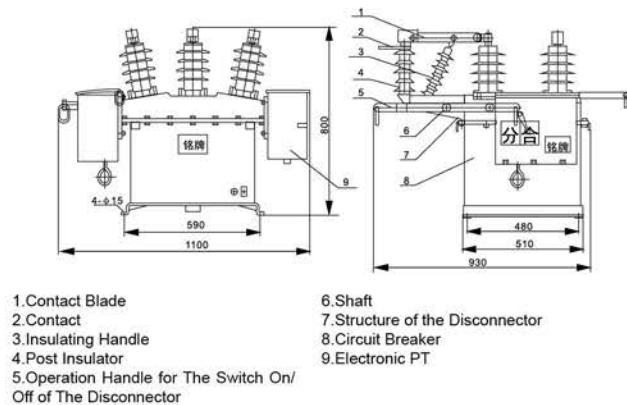


Fig 2. Outline Drawing and Mounting Dimensions of ZW8-12 with disconnector breaker



We believe communication is the cornerstone in any business relationship. Our engineers, program managers and sales representatives will work closely with you at each stage from design to production. We pride ourselves on our quick responses and services.

A TRUST WORTHY BUSINESS PARTNER FOR YOUR COMPANY

Our success is based on a combination of key factors: competitive pricing, experimental research, state of the art technologies, on-time schedules, and most importantly, commitment and dedication from our employees to ensure your success!



HUNAN ELECTRIC POWER INSULATOR & APPARATUS FACTORY

Add: No.6 Lisan Road, Liling, Hunan, China

Tel: +86-731-23812612 23812315 23813076

Fax: +86-731-23812688 23042618

E-mail: sales@sandian-electric.com chinactvt@gmail.com

Web: <http://www.sandian-electric.com> www.chinactvt.com