



#### ZW7 - 40.5 high voltage outdoor circuit breaker

ZW7 - 40.5 series high voltage outdoor circuit breaker can be used for 50HZ 40.5kv outdoor high voltage electrical equipment. They are mainly used in controlling and protection of outdoor power transmission and transformation system of 35kv, also in normal operation and short-circuit protection for all kinds of power grid and frequent operation place.

Attached spring operating structure and electromagnet operating structure can manipulate electric opening and closing in a distance, or accumulate energy for manual operation. The design performance strictly sticks to our national standard GB1984 - 89 for high voltage alternating current vacuum circuit breaker, and meet the requirements of International Electro technical Commission (IEC) IEC-56 for high voltage alternating current vacuum circuit breaker. These series of VCBs are ceramic pillar type. Vacuum interrupter is installed in upper part of ceramic insulator. It has characteristics of well tightness and high temperature endurance, non-combustion and non-exploration, easy mounting, anti-aging and long service life.

#### Ambient condition

1. Altitude: up to 2500m
2. Ambient temperature: max +40°C min -35°C
3. Wind pressure:  $\leq 700\text{Pa}$ (equals to wind speed 34m/s)
4. Earthquake intensity:  $\leq 8$  degree
5. Air contamination degree: degree
6. Max daily temperature variation:  $\leq 25^\circ\text{C}$

#### Order instruction

Complete model and order quantity of the product

Rated current and rated voltage

Rated short circuit breaking current, operation voltage

Configuration of mutual inductor

Required accessory and quantity

Other requirement please contact with us directly



ZW38 - 40.5 series overhead ceramic insulator high voltage outdoor circuit breaker

ZW38 - 40.5 series overhead ceramic insulator high voltage outdoor circuit breaker is a type of 50HZ three-phase alternating current high voltage switch equipment. It 's mainly used in normal operation and short-circuit protection for all kinds of power grid. Attached type CT19-IVB spring operating structure and electromagnet operating structure can manipulate electric opening and closing in a distance, or accumulate energy for manual operation.

Vacuum interrupter is put in the insulator fulfilled with SF6 to protect it from effect of outer circumstances, thus anti-contamination, anti-condensation, and reliable. Each VCB can equip with 6-12pieces of current transformer according to customer's requirement.

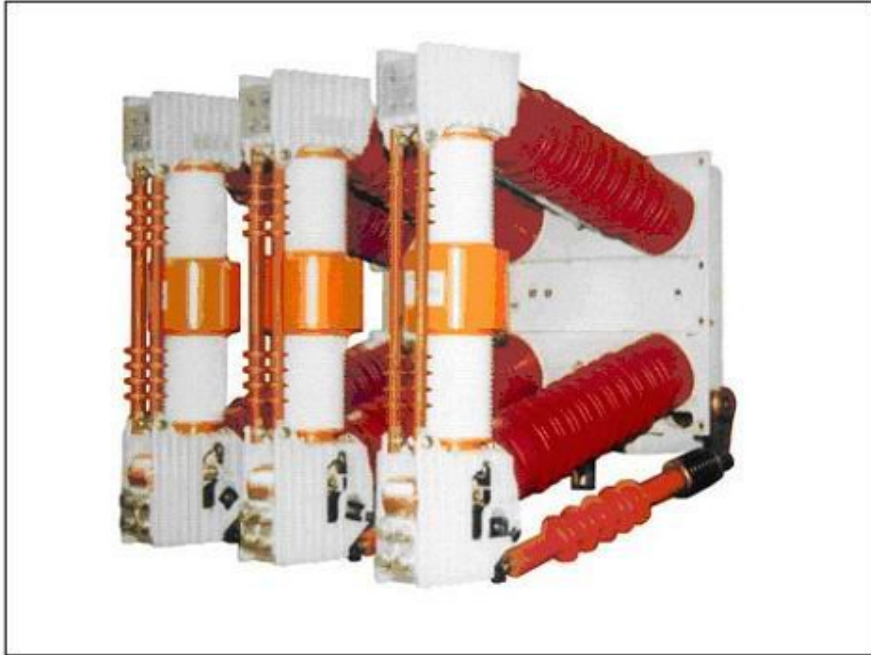
The design performance strictly sticks to our national standard GB1984 - 89 for high voltage alternating current vacuum circuit breaker, and meet the requirements of International Electro technical Commission (IEC) IEC-56 for high voltage alternating current vacuum circuit breaker. It has characteristics of simple structure, small size and easy mounting,.

#### Ambient condition

- 1 Ambient temperature: max +40°C min -35°C
- 2 Relative humidity: daily average relative humidity:  $\leq 90\%$ ; monthly average relative humidity  $\leq 95\%$
- 3 Altitude: plain type  $\leq 1000\text{m}$ ; plateau type  $\leq 3000\text{m}$
- 4 Wind pressure:  $\leq 700\text{Pa}$ (equals to wind speed 34m/s)
- 5 Earthquake intensity:  $\leq 8$  degree(horizontal acceleration is 0.25g,vertical acceleration is 0.125g )
- 6 Air contamination degree: degree
- 7 Min nominal creepage distance: 31mm/kv

#### Order instruction

- Complete model and order quantity of the product
- Rated current and rated voltage
- Rated short circuit breaking current, operation voltage
- Configuration of mutual inductor
- Required accessory and quantity
- Other requirement please contact with us directly



#### ZN12-40.5 three-phase indoor circuit breaker

The mechanism of this VCB is designed as a whole with vacuum interrupter. Specialized 3AF type spring operating structure from Siemens can be operated by manual or carry out direct current energy saving operation. It's can be designed as 350mm,400mm,460mm and other kinds of phase space, which matches better with different kinds of switchgear, such as fixed type XGN17-40.5,type JYN1-40.5,KY10-40.5.

#### Ambient condition

- 1 Ambient temperature: max +40°C min -15°C(conveyance under -30°C is allowed)
- 2 Altitude:  $\leq 1000\text{m}$
- 3 Relative humidity: daily average relative humidity:  $\leq 95\%$ ; monthly average relative humidity  $\leq 90\%$ , daily average saturated vapor pressure  $\leq 2.2 \times 10^{-3} \text{ MPa}$  , monthly average value  $\leq 1.8 \times 10^{-3} \text{ MPa}$
- 4 Earthquake intensity:  $\leq 8$  degree
- 5 The installation should be free from fire, explosion, severe vibration, chemical corrosion and serious pollution

#### Order instruction

- Complete model and order quantity of the product
- Rated current, rated voltage, distance of each poles
- Rated short circuit breaking current, operation voltage
- Required accessory and quantity
- Other requirement please contact with us directly



ZN23-40.5 indoor high voltage vacuum circuit breaker

ZN23-40.5 indoor high voltage vacuum circuit breaker is the indoor installation in 35kv,50Hz three phase current system. They are applicable to control and protect of high-voltage electromotor, transformer, capacitor in mining industrial enterprise, power station, transformer substation.

The strength is 1.Non-contamination, non-fire hazard, non-exploration;

2.Long mechanical life;

3. Nearly no need to maintain

4.Can be frequent operated. Both type CT19BN spring operating structure or the CD10III electromagnetic operating structure can be chosen.

This type of product conforms to the requirement of GB1984-89 and DL402-91standard for alternating current high voltage circuit breaker.

Ambient condition

1 Ambient temperature: max +40°C min -15°C(conveyance under -30°C is allowed)

2 Altitude:  $\leq 1000\text{m}$

3 Relative humidity: daily average relative humidity:  $\leq 95\%$ ; monthly average relative humidity  $\leq 90\%$ , daily average saturated vapor pressure  $\leq 2.2 \times 10^{-3}$  MPa , monthly average value  $\leq 1.8 \times 10^{-3}$  MPa

4 Earthquake intensity:  $\leq 8$  degree

5 The installation should be free from fire, explosion, severe vibration, chemical corrosion and serious pollution

Order instruction

Complete model and order quantity of the product

Rated current and rated voltage

Rated short circuit breaking current, operation voltage

Required accessory and quantity, rated voltage of open and close coil

Other requirement please contact with us directly



#### ZN85-40.5 indoor high voltage vacuum circuit breaker

ZN85-40.5 type indoor high voltage vacuum circuit breaker is appropriate to 40.5kv,50Hz three phase current system, applicable to break loading current ,over load current ,fault current in mining industrial enterprise, power station, transformer substation. The layout of circuit breaker and operating mechanism are assembled up and down, which reduced the depth of circuit breaker effectively. Three poles interrupter and jointed charged body are isolated by epoxy resin insulator. This composite isolate structure meets the requirement of air and creepage distance and decreased the circuit breaker volume. Main conductive circuit ,vacuum interrupter, moving and fixed conductive joint are mounted in the cylinder, which makes the distance of each pole is only 300mm.Main circuit electrical joints are reliable all fixed joint. Specialized designed spring operating structure is fixed in the frame of circuit breaker. This simple design makes the output curve and performance greatly matches to 40.5kv circuit breaker. The overall layout is reasonable, simple and free of maintain. It can be used in frequent and harsh operating condition.

#### Ambient condition

- 1 Ambient temperature: max +40°C min -15°C(conveyance under -30°C is allowed)
- 2 Altitude:  $\leq 1000\text{m}$
- 3 Relative humidity: daily average relative humidity:  $\leq 95\%$ ; monthly average relative humidity  $\leq 90\%$ , daily average saturated vapor pressure  $\leq 2.2 \times 10^{-3}$  MPa , monthly average value  $\leq 1.8 \times 10^{-3}$  MPa
- 4 Earthquake intensity:  $\leq 8$  degree
- 5 The installation should be free from fire, explosion, severe vibration, chemical corrosion and serious pollution

#### Order instruction

Complete model and order quantity of the product

Rated current, rated voltage, rated short circuit breaking current

Rated voltage of operation mechanism open and close release, rated voltage of energy saving motor

Required accessory and quantity

Other requirement please contact with us directly



#### ZN28(A)-12 indoor high voltage vacuum circuit breaker

ZN28(A)-12 series vacuum circuit breaker is a kind of 12kv,50Hz three phase current high voltage indoor switch device. It sticks to the stander of GB1984-89.It can be mounted together with the operating structure as a whole and also can be separated.ZN28-12(integrated structure) and ZN28A(segregated structure) can be applied to various kinds of fixed switchgear, such as GG-1A(Z),XGN2-12A(Z).This product can matches to CD17 direct current electromagnetic operating structure and CT17,CT19 spring operating structure.

#### Ambient condition

- 1 Ambient temperature: max +40°C min -15°C(conveyance under -30°C is allowed)
- 2 Altitude:  $\leq 1000\text{m}$
- 3 Relative humidity: daily average relative humidity:  $\leq 95\%$ ; monthly average relative humidity  $\leq 90\%$ , daily average saturated vapor pressure  $\leq 2.2 \times 10^{-3}$  MPa , monthly average value  $\leq 1.8 \times 10^{-3}$  MPa
- 4 Earthquake intensity:  $\leq 8$  degree
- 5 The installation should be free from fire, explosion, severe vibration, chemical corrosion and serious pollution

#### Order instruction

- Complete model and order quantity of the product
- Rated current and rated voltage
- Rated short circuit breaking current, operation voltage
- Required accessory and quantity
- Other requirement please contact with us directly



#### ZW8-12(G) outdoor high voltage vacuum circuit breaker

ZW8-12(G) series assembled circuit breaker is kind of 12kv,50Hz three phase current high voltage outdoor switch device consist of ZW8-12 circuit breaker and isolator. They are mainly used for breaking loading current, over load current, fault current in rural or urban power grid and small-scale power system and also used as segment switch. Vacuum interrupter is in the metal case, taking advantage of SMC insulate material to realize phase insulation and ground insulation. Operation structure of this circuit breaker is CT23 spring energy saving operation structure, which can be dividing into motor and manual.

#### Ambient condition

- 1 Ambient temperature: max +40°C min -40°C
- 2 Altitude:  $\leq 2000\text{m}$
3. Wind pressure:  $\leq 700\text{Pa}$ (equals to wind speed 34m/s)
- 3 Relative humidity: daily average relative humidity:  $\leq 95\%$ ; monthly average relative humidity  $\leq 90\%$
- 4 Air contamination degree: III degree, far away from corrosive and combustible gas
- 5 No frequent violent vibration
- 6 Silicon rubber which is used as isolate medium should meet the appliance field requirement of GB655386.

#### Order instruction

- Complete model and order quantity of the product
- Rated current, rated voltage, rated breaking current
- Transform ratio of assembled current mutual inductor
- Operation pattern (electrical or manual)
- Operation voltage
- Application place
- Other requirement please contact with us directly





ZW8-12(G)electric PT outdoor vacuum circuit breaker

ZW8-12(G)electric PT type assembled circuit breaker is kind of 12kv,50Hz three phase current high voltage outdoor switch device consist of ZW8-12 circuit breaker and isolator. They are mainly used for breaking loading current, over load current, fault current in rural or urban power grid and small-scale power system and also used as segment switch. It has the characteristic of auto-energy getting and saving, which can be opening and closing in the circumstance of power off, realizing remote control and wired distance control and distribution network automation. It can be also used as inlet and outlet switch within substation and power off splattering switch without substation, to realize loop net power supply. This product is a intellect switch can both protect & control power source.

Operation structure of this circuit breaker is CT23 spring energy saving operation structure, which can be dividing into motor and manual.

#### Ambient condition

- 1 Ambient temperature: max +40°C min -40°C
- 2 Altitude:  $\leq 2000\text{m}$
3. Wind pressure:  $\leq 700\text{Pa}$ (equals to wind speed 34m/s)
- 3 Relative humidity: daily average relative humidity:  $\leq 95\%$ ; monthly average relative humidity  $\leq 90\%$
- 4 Air contamination degree: III degree, far away from corrosive and combustible gas
- 5 No frequent violent vibration
- 6 Silicon rubber which is used as isolate medium should meet the appliance field requirement of GB655386.

#### Order instruction

- Complete model and order quantity of the product
- Rated current, rated voltage, rated breaking current
- Assembled isolator (Obvious fracture)
- Transform ratio of assembled current mutual inductor
- Operation voltage
- Application place
- Other requirement please contact with us directly





ZW6-12(G) outdoor high voltage vacuum circuit breaker

ZW6-12/t630-20 type indoor high voltage vacuum circuit breaker is appropriate to 50Hz three phase alternating current system, applicable to open and close loading current. The function of this product is protection of overload or short circuit, and auto recloses. It can also assemble surge current delay protector or disconnecting switch with function of lightning protection.

Operation structure of this circuit breaker is CT23 spring energy saving operation structure, which can be dividing into motor and manual.

Ambient condition

- 1 Ambient temperature: max +40°C min -40°C
- 2 Altitude:  $\leq 2000\text{m}$
3. Wind pressure:  $\leq 700\text{Pa}$ (equals to wind speed 34m/s)
- 3 Relative humidity: daily average relative humidity:  $\leq 95\%$ ; monthly average relative humidity  $\leq 90\%$
- 4 Air contamination degree: III degree, far away from corrosive and combustible gas
- 5 No frequent violent vibration
- 6 Silicon rubber which is used as isolate medium should meet the appliance field requirement of GB655386.

Order instruction

- Complete model and order quantity of the product
- Rated current, rated voltage, rated breaking current
- Transform ratio of assembled current mutual inductor
- Operation pattern (electrical or manual)
- Operation voltage
- Application place
- Other requirement please contact with us directly



#### ZW32-12(G) outdoor high voltage vacuum circuit breaker

ZW32-12(G) type outdoor high voltage vacuum circuit breaker is appropriate to 50Hz three phase alternating current system, applicable for power grid breaking, loading current, overload current and circuit breaking current closing in power system. They can be used as segment switch in urban 12kv power grid, also assemble disconnecting switch according to customer's requirement to be a assembled circuit breaker.

#### Ambient condition

- 1 Ambient temperature: max +40°C min -40°C
- 2 Altitude:  $\leq 2000\text{m}$
3. Wind pressure:  $\leq 700\text{Pa}$ (equals to wind speed 34m/s)
- 3 Relative humidity: daily average relative humidity:  $\leq 95\%$ ; monthly average relative humidity  $\leq 90\%$
- 4 Air contamination degree: III degree, far away from corrosive and combustible gas
- 5 Max daily temperature variation:  $\leq 25^\circ\text{C}$
- 6 Earthquake intensity:  $\leq 8$  degree
- 7 The installation should be free from fire, explosion, severe vibration, chemical corrosion and serious pollution

#### Order instruction

- Complete model and order quantity of the product
- Rated current, rated voltage, rated breaking current, operation voltage
- Transform ratio of assembled current mutual inductor
- Other requirement please contact with us directly



#### ZW38-12 outdoor high voltage vacuum circuit breaker

ZW38-12 outdoor high voltage vacuum circuit breaker is appropriate to 12kv, 50Hz three phase alternating current system, applicable for power grid breaking, loading current, overload current and circuit breaking current closing in transformer substation and power system of industrial and mining enterprises. They can be used as segment switch. When assembled with controller it can realize automation of distribution network.

#### Ambient condition

- 1 Ambient temperature: max +40°C min -35°C
- 2 Altitude:  $\leq 2500\text{m}$
3. Wind pressure:  $\leq 700\text{Pa}$ (equals to wind speed 34m/s)
- 3 Earthquake intensity:  $\leq 8$  degree
- 4 Air contamination degree: III degree
- 5 Max daily temperature variation:  $\leq 25^\circ\text{C}$

#### Order instruction

- Complete model and order quantity of the product
- Rated current, rated voltage
- Rated short circuit breaking current, operation voltage
- Required accessory and quantity
- Other requirement please contact with us directly



#### ZW10-12 outdoor high voltage vacuum circuit breaker

ZW10-12 outdoor high voltage vacuum circuit breaker is a type of three phase alternating switch. They are mainly used in 12kv, 630A,50HZ current system of rural grid, urban grid, mine, railway, port. They are especially appropriate to outdoor overhead network, switching over and protecting power grid by breaking and closing loading current, overload current and circuit breaking current.

#### Ambient condition

- 1 Ambient temperature: max +40°C min -40°C
- 2 Altitude:  $\leq 250\text{m}$
3. Wind pressure:  $\leq 700\text{Pa}$ (equals to wind speed 34m/s)
- 4 Relative humidity: daily average relative humidity:  $\leq 95\%$ ; monthly average relative humidity  $\leq 90\%$
- 5 Air contamination degree: III degree, far away from corrosive and combustible gas
- 6 No frequent violent vibration
- 7 Silicon rubber which is used as isolate medium should meet the appliance field requirement of GB655386.

#### Order instruction

- Complete model and order quantity of the product
- Rated current, rated voltage, rated breaking current
- Assembled isolator (Obvious fracture)
- Transform ratio of assembled current mutual inductor
- Operation pattern (electrical or manual)
- Operation voltage
- Application place
- Other requirement please contact with us directly



#### ZN12-12 indoor high voltage vacuum circuit breaker

ZN12-12 indoor high voltage vacuum circuit breaker is a type of 12kv,50HZ three phase alternating switch. The mechanism and vacuum interrupter are designed to be a whole. Specialized 3AF type spring operating structure from Siemens can be operated by manual or carry out direct current energy saving operation. It's can be designed as 210mm,230mm,250mm,275mm and other kinds of phase space, which matches better with different kinds of switchgear, such as handcart type JYN2-12,JYN6-12,KYN2-12.

#### Ambient condition

- 1 Ambient temperature: max +40°C min -15°C(conveyance under -30°C is allowed)
- 2 Altitude:  $\leq 1000\text{m}$
- 3 Relative humidity: daily average relative humidity:  $\leq 95\%$ ; monthly average relative humidity  $\leq 90\%$ ; daily average saturated vapor pressure  $\leq 2.2 \times 10^{-3}$  MPa; monthly average value  $\leq 1.8 \times 10^{-3}$  MPa
- 4 Earthquake intensity:  $\leq 8$  degree
- 5 The installation should be free from fire, explosion, severe vibration, chemical corrosion and serious pollution

#### Order instruction

- Complete model and order quantity of the product
- Rated current, rated voltage, distance of each poles
- Rated short circuit breaking current, operation voltage
- Required accessory and quantity
- Other requirement please contact with us directly



#### ZN63A(VS1)-12 indoor high voltage vacuum circuit breaker

ZN63A(VS1)-12 vacuum circuit breaker is a type of indoor power distribution equipment. It 's developed by bring in technical of ABB cooperation combining our domestic situation. It can be used in double deck cabinet, fixed cabinet for protecting and controlling in transformer substation and power system of industrial and mining enterprises. They are especially appropriate to oil forbidden, maintenance free, and frequent operation places, strictly stick to the stander of GB-1984,DL403and IEC No.56,No.694.

Main characters:

1. Operation mechanism and circuit breaker are combined together, making the layout reasonable, concision and beauty.
2. Stereoscopic isolate cylinder can protect circuit breaker from influence outside. Thus it can be applied to every special condition.
3. Handcart and fixed type meet the need of different mounting requirement.
4. Maintenance free. Only a little cleaning or lubrication would be enough.

Ambient condition

1 Ambient temperature: max +40°C min -15°C(conveyance under -30°C is allowed)

2 Altitude:  $\leq 1000\text{m}$

3 Relative humidity: daily average relative humidity:  $\leq 95\%$ ; monthly average relative humidity $\leq 90\%$ ; daily average saturated vapor pressure  $\leq 2.2 \times 10^{-3}$  MPa; monthly average value  $\leq 1.8 \times 10^{-3}$  MPa

4 Earthquake intensity:  $\leq 8$  degree

5 The installation should be free from fire, explosion, severe vibration, chemical corrosion and serious pollution

Order instruction

Complete model and order quantity of the product

Rated current, rated voltage

Rated short circuit breaking current, operation voltage

Required accessory and quantity

Other requirement please contact with us directly



#### ZN63A(VS1)-12 Side mounting indoor high voltage vacuum circuit breaker

ZN63A(VS1)-12 Side mounting vacuum circuit breaker is a type of high voltage switch equipment which appropriate to 12kv, 50Hz three phase alternating current system, applicable for protecting and controlling, especially appropriate to frequent operation and short circuit places. This type is mainly used in fixed type switchgear, can not only use alone, but also in loop network, box-type and other kinds of nonstandard power supply system.

#### Ambient condition

- 1 Ambient temperature: max +40°C min -15°C(conveyance under -30°C is allowed)
- 2 Altitude:  $\leq 1000\text{m}$
- 3 Relative humidity: daily average relative humidity:  $\leq 95\%$ ; monthly average relative humidity  $\leq 90\%$ ; daily average saturated vapor pressure  $\leq 2.2 \times 10^{-3}$  MPa; monthly average value  $\leq 1.8 \times 10^{-3}$  MPa
- 4 Earthquake intensity:  $\leq 8$  degree
- 5 The installation should be free from fire, explosion, severe vibration, chemical corrosion and serious pollution

#### Order instruction

- Complete model and order quantity of the product
- Rated current, rated voltage, distance of each poles
- Rated short circuit breaking current
- Rated voltage of operation mechanism open and close release, rated voltage of energy saving motor
- Required accessory and quantity
- Other requirement please contact with us directly





#### HGP(ZN63A-12) embedded indoor high voltage vacuum circuit breaker

In the field of medium voltage, especially for 12kv, vacuum circuit breaker has become the main product. This has inseparable relationship with development of embedded technique. The pole isolator has experienced three stage--air isolation, compound isolation, and embedded isolation, which is the third generation of VCB. In first generation, electric part is totally exposed to the air, it's isolation level will be changed with different air humidity, dust and bump during the transportation. In the second stage, vacuum interrupter was protected by epoxy resin. But this kind of cylinder does not cover all the charged part, they will be still affected by external environment. The third stage—embedded poles, fully making use of APG craft, covering all part of vacuum interrupter and two outlet bottoms. Thus not only decreased the size and increased the tolerance of vacuum interrupter, but also making the epoxy resin become the mail isolator and mechanical supporter. The electric-field distribution and stress distribution is better than all shape of isolation division plate structure. This type of VCB has handcart and fixed structure,, which marches to KYN28A,XGN2,GG-IA or other switchgear, and also can be used for non-oil reform .

#### Ambient condition

- 1 Ambient temperature: max +40°C min -15°C(conveyance under -30°C is allowed)
- 2 Altitude:  $\leq 1000\text{m}$
- 3 Relative humidity: daily average relative humidity:  $\leq 95\%$ ; monthly average relative humidity  $\leq 90\%$ ; daily average saturated vapor pressure  $\leq 2.2 \times 10^{-3}$  MPa; monthly average value  $\leq 1.8 \times 10^{-3}$  MPa
- 4 Earthquake intensity:  $\leq 8$  degree
- 5 The installation should be free from fire, explosion, severe vibration, chemical corrosion and serious pollution

#### Order instruction

Complete model and order quantity of the product

Rated current, rated voltage, distance of each poles

Rated short circuit breaking current

Rated voltage of operation mechanism open and close release, rated voltage of energy saving motor

Other requirement please contact with us directly



#### HGP(ZN63A-24) embedded indoor high voltage vacuum circuit breaker

HGP(ZN63A-24) embedded indoor high voltage vacuum circuit breaker is a new series of VCB designed and developed by our company. The main designing concept is guiding electric circuit to make use of the characteristics of embedded isolator, improving operation mechanism to make it's insurability more stable, more reliable, and breaking performance largely enhanced. Thus really achieve maintenance free and longer mechanical life & electrical endurance. They are applicable for protecting and controlling single busbar system electric equipment in mining industrial enterprise, power station, transformer substation. They are appropriate for frequent operation and other special places. It sticks to the national standard of GB1984-2003 *Alternating current high voltage circuit breaker*, IEC62271-100 *Alternating current high voltage circuit breaker*, and DL/T403 *10-35kv indoor high voltage circuit breaker order technical terms*.

#### Ambient condition

- 1 Ambient temperature: max +40°C min -15°C (conveyance under -30°C is allowed)
- 2 Altitude:  $\leq 1000\text{m}$
- 3 Relative humidity: daily average relative humidity:  $\leq 95\%$ ; monthly average relative humidity  $\leq 90\%$ ; daily average saturated vapor pressure  $\leq 2.2 \times 10^{-3}$  MPa; monthly average value  $\leq 1.8 \times 10^{-3}$  MPa
- 4 Earthquake intensity:  $\leq 8$  degree
- 5 The installation should be free from fire, explosion, severe vibration, chemical corrosion and serious pollution

#### Order instruction

Complete model and order quantity of the product

Rated current, rated voltage, rated short circuit breaking current, distance of each poles  
Rated voltage of operation mechanism open and close release, rated voltage of energy saving motor

Required accessory and quantity

Other requirement please contact with us directly



#### VBM8/VBM9-40.5 indoor high voltage vacuum circuit breaker

VBM8/VBM9-40.5 indoor high voltage vacuum circuit breaker is a domestic leading product new product research and developed by our company. The main characteristic of dominant electric circuit is fixed in enclosed three-poles isolate cylinder. The brand new kind of operation mechanism is in front of the circuit, structure is simple and reliable. This kind of VCB is widely applied to electric factory, power grid, metallurgy, petrify, city infrastructure project such as air port, underground. It can protect and control cable, overhead line, transform and electromotor, generator and capacitor bank.

It has perfect mechanical and electric interlock device, extremely reliability and service life, ensure the safety of operator and the instrument. Each mechanical data are all sticks to GB1984, GB/T11022 and electric industrial standard DL403.IEC62271-100, IEC56 and other formulation of main industrial countries.

#### Ambient condition

- 1 Ambient temperature: max +40°C min -15°C(conveyance under -30°C is allowed)
- 2 Altitude:  $\leq 1000\text{m}$
- 3 Relative humidity: daily average relative humidity:  $\leq 95\%$ ; monthly average relative humidity  $\leq 90\%$ ; daily average saturated vapor pressure  $\leq 2.2 \times 10^{-3}$  MPa; monthly average value  $\leq 1.8 \times 10^{-3}$  MPa
- 4 Earthquake intensity:  $\leq 8$  degree
- 5 The installation should be free from fire, explosion, severe vibration, chemical corrosion and serious pollution

#### Order instruction

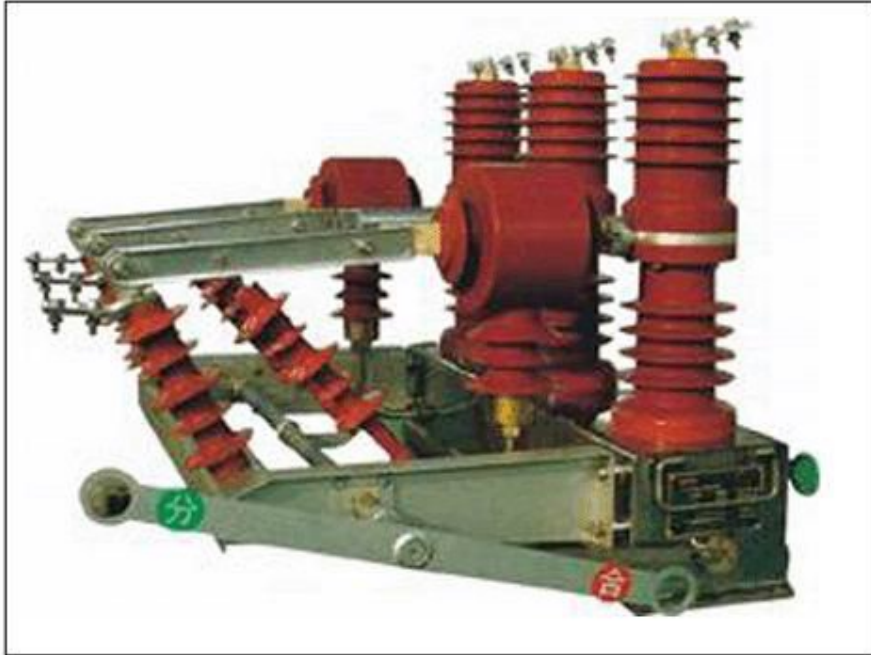
Complete model and order quantity of the product

Rated current, rated voltage, rated short circuit breaking current

Rated voltage of operation mechanism open and close release, rated voltage of energy saving motor

Required accessory and quantity

Other requirement please contact with us directly



ZW32M-12 permanent magnetic outdoor high voltage vacuum circuit breaker  
ZW32M-12 outdoor three-poles high voltage permanent magnetic mechanism are mainly opening and closing loading current, overload current and circuit breaking current in power system. They are appropriate in protecting and controlling power system in mining industrial enterprise, also in rural grid and frequent operation places. This kind of product not only conserved all the reasonable part and excellent characteristics of type ZW32, but also make the largely enhanced mechanical life of the whole device including vacuum interrupter, reaching 50000 times. Free of maintenance within 20000 times during operation.

#### Ambient condition

- 1 Ambient temperature: max +40°C min -40°C
- 2 Altitude:  $\leq 2000\text{m}$
3. Wind pressure:  $\leq 700\text{Pa}$ (equals to wind speed 34m/s)
- 4 Air contamination degree: III degree
- 5 The installation should be free from fire, explosion, severe vibration, chemical corrosion and serious pollution
- 6 Earthquake intensity:  $\leq 8$  degree

#### Order instruction

- Complete model and order quantity of the product
- Rated current, rated voltage, rated short circuit breaking current
- Need mutual inductor or not, transform ratio of assembled current mutual inductor
- Need isolate switch or not
- Specific requirement of protection, measurement, controlling system of the device
- Cable length between circuit breaker and controller
- Other requirement please contact with us directly



#### ZN73M-12 high voltage indoor vacuum circuit breaker

ZN73M-12 high voltage indoor vacuum circuit breaker is appropriate to 12kv, 50Hz three phase alternating current system, applicable for power grid breaking, loading current, overload current and circuit breaking current closing in transformer substation and power system of industrial and mining enterprises, especially for switching different nature of load and frequent operation. Permanent magnetic mechanism makes the component decreased 70% compared with spring mechanism. Vertical magnetic filed structure vacuum interrupter makes the operation more simple and reliable, breaking ability is good too. Sealed insulate cylinder makes better isolate characteristics. The life span of magnetic mechanism reaches to 100,000 times and mechanical life 30,000 times, thus especially appropriate to frequent operation places. Fault alarm, antibounce shutting, adjustable charging voltage and optional overload, undervoltage protection function have all indicate it's intelligence.

This type of VCB can be divide into two types: handcart and fixed type. They can match to KYN28A ,XGN2,GG-IA switchgear also carry out non-oil reform.

#### Ambient condition

- 1 Ambient temperature: max +40°C min -15°C(conveyance under -30°C is allowed)
- 2 Altitude:  $\leq 1000\text{m}$
- 3 Relative humidity: daily average relative humidity:  $\leq 95\%$ ; monthly average relative humidity  $\leq 90\%$ ; daily average saturated vapor pressure  $\leq 2.2 \times 10^{-3}$  MPa; monthly average value  $\leq 1.8 \times 10^{-3}$  MPa
- 4 Earthquake intensity:  $\leq 8$  degree
- 5 The installation should be free from fire, explosion, severe vibration, chemical corrosion and serious pollution

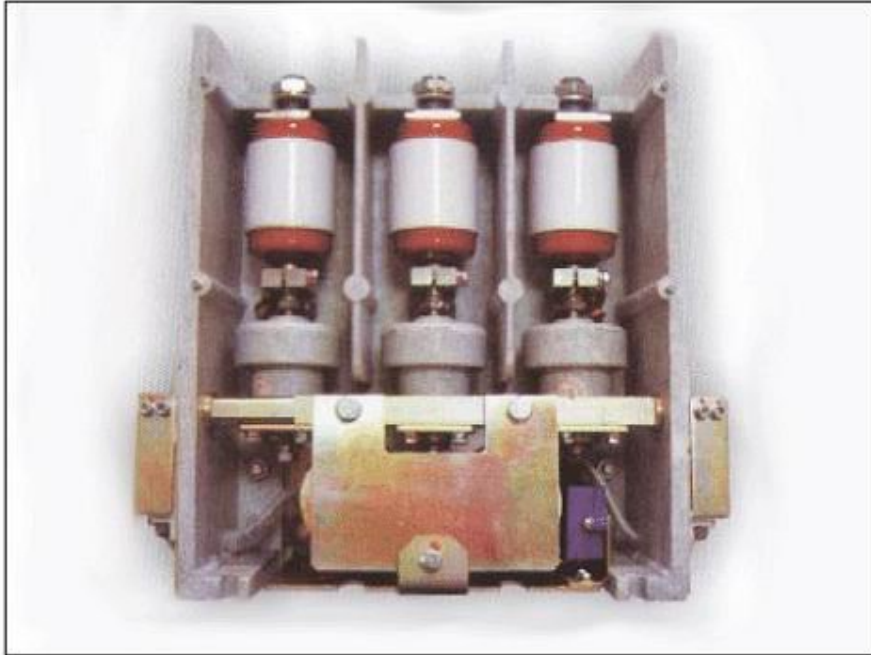
#### Order instruction

Complete model and order quantity of the product

Rated current, rated voltage, rated short circuit breaking current, distance of each poles  
 Rated voltage of operation mechanism open and close release, rated voltage of energy saving motor

Required accessory and quantity

Other requirement please contact with us directly



#### JCZ5-7.2(12) alternating current vacuum contactor

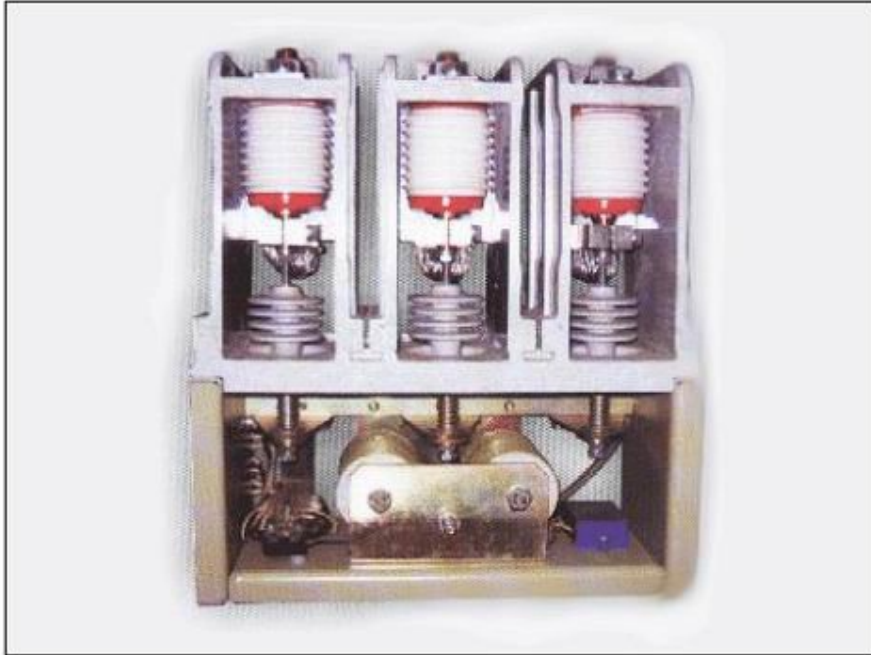
JCZ5-7.2(12) series alternating current vacuum contactor have adopted international prevalent up-down layout, convenient to use and maintain for the reason of small size, light weight and low noise, easily apt to make-up F-C circuit complete set of equipment. They are especially appropriate to frequent operation places to direct or distance connect or break the main circuit in the area of coal, petroleum, chemical industry, metallurgy, electric power, mechanical, transportation and so on..

#### Ambient condition

- 1 Ambient temperature: max +40°C min -15°C(conveyance under -30°C is allowed)
- 2 Altitude:  $\leq 1000\text{m}$
- 3 Relative humidity: daily average relative humidity:  $\leq 95\%$ ; monthly average relative humidity  $\leq 90\%$ ; daily average saturated vapor pressure  $\leq 2.2 \times 10^{-3}$  MPa; monthly average value  $\leq 1.8 \times 10^{-3}$  MPa
- 4 Earthquake intensity:  $\leq 8$  degree
- 5 The installation should be free from fire, explosion, severe vibration, chemical corrosion and serious pollution

#### Order instruction

- Complete model and order quantity of the product
- Rated current, rated voltage, operation voltage
- Required accessory and quantity
- Other requirement please contact with us directly



#### CKG□-7.2(12) alternating vacuum contactor

Our CKG3-7.2kv,CKG4-12kv series alternating current vacuum contactor have adopted international prevalent up-down layout, convenient to use and maintain for the reason of small size, light weight and low noise, easily apt to make-up F-C circuit complete set of equipment. They are especially appropriate to frequent operation places to direct or distance connect or break the main circuit in the area of coal, petroleum, chemical industry, metallurgy, electric power, mechanical, transportation and so on..

#### Ambient condition

- 1 Ambient temperature: max +40°C min -15°C(conveyance under -30°C is allowed)
- 2 Altitude:  $\leq 1000\text{m}$
- 3 Relative humidity: daily average relative humidity:  $\leq 95\%$ ; monthly average relative humidity  $\leq 90\%$ ; daily average saturated vapor pressure  $\leq 2.2 \times 10^{-3}$  MPa; monthly average value  $\leq 1.8 \times 10^{-3}$  MPa
- 4 Earthquake intensity:  $\leq 8$  degree
- 5 The installation should be free from fire, explosion, severe vibration, chemical corrosion and serious pollution

#### Order instruction

- Complete model and order quantity of the product
- Rated current, rated voltage, operation voltage
- Required accessory and quantity
- Other requirement please contact with us directly





FZ(R)N21-12D alternating high voltage vacuum load break switch

FZN21-12D/T630-20 series three poles alternating current vacuum load break switch-fuse protector combination. It has merit of excellent breaking ability, small size, long electric life, free of maintenance, can break rated current, overload current (FZN21-12D/T125-31.5 can break short circuit current) and prevent device from phase-default operation. The switch has an obvious visible isolate fracture to assemble earth switch and electric spring mechanism, thus can conduct remote control.

Ambient condition

- 1 Ambient temperature: max +40°C min -25°C (conveyance under -30°C is allowed), average temperature  $\leq 35^{\circ}\text{C}$  within 24 hours
- 2 Altitude:  $\leq 1000\text{m}$
- 3 Relative humidity: daily average relative humidity:  $\leq 95\%$ ; monthly average relative humidity  $\leq 90\%$
- 4 Earthquake intensity:  $\leq 8$  degree
- 5 Air contamination degree: II degree
- 6 The installation should be free from fire, explosion, severe vibration, chemical corrosion and serious pollution

Order instruction

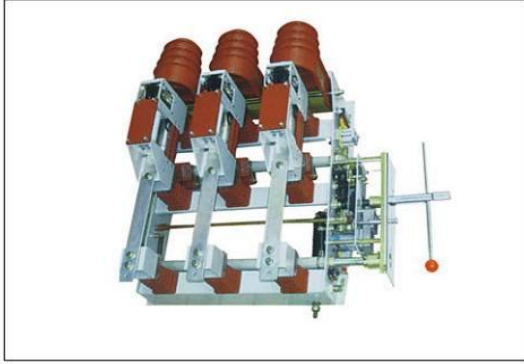
Complete model and order quantity of the product

Rated current, rated voltage, rated voltage of operation mechanism

Need panel, earth switch, fuse protector or not, what is the rated current and quantity of fuse protector

Required accessory and quantity

Other requirement please contact with us directly



FZ(R)N25-12D indoor high voltage vacuum load break switch

FZ(R)N25-12D/T630-20 indoor high voltage three-poles vacuum load break switch is appropriate to protect and control electrical system in mining industrial enterprise, power station, transformer substation. They are mainly used to close and break load current, closed loop current, non-load transformer, cable charging current.

FZRN25-12D/T125-31.5 type 50Hz indoor alternating current load break switch -fuse protector combination have both manual and electrical operation mechanism to realize three control requirement of electric system. Assembled earth switch can bear short circuit current.

FZN25-12D,FZRN25-12D vacuum contactor and assembled electric equipment can be used for three-poles circuit grid and urban terminal power supply distribution and industrial power equipment. Assembled equipment is more reliable, economical than circuit breaker in protection of circuit grid, bi-radial power supply unit and cabinet transformer substation. Manual operation routine is in the right hand of load break switch. We can also supply front or left operation according to customer's requirement.

Ambient condition

- 1 Ambient temperature: max +40°C min -25°C(conveyance under -30°C is allowed), average temperature  $\leq 35^{\circ}\text{C}$  within 24 hours
- 2 Altitude:  $\leq 1000\text{m}$
- 3 Relative humidity: daily average relative humidity:  $\leq 95\%$ ; monthly average relative humidity  $\leq 90\%$
- 4 Earthquake intensity:  $\leq 8$  degree
- 5 Air contamination degree: II degree
- 6 The installation should be free from fire, explosion, severe vibration, chemical corrosion and serious pollution
- 7 Non-frequent violent vibration.

Order instruction

Complete model and order quantity of the product

Rated current, rated voltage, rated voltage of operation mechanism

Need panel, earth switch, fuse protector or not, what is the rated current and quantity of fuse protector

Required accessory and quantity

Other requirement please contact with us directly



#### FZW32-12 outdoor high voltage vacuum load break switch

FZW32-12/T630-20 type outdoor high voltage isolate vacuum switch is a new generation of high voltage electrical equipment developed by both home and overseas advanced technology. Each of the technical performance have reach the standard of GB3804 and IEC.

They are designed for the construction and reform of urban and rural grid. The bottom of the product has adopted stainless steel and galvanized carbon steel with ultraviolet-proof coating material, to make sure it's normal outdoor operation. Each stainless steel component can ensure it's durability, stability, water-proof and salt fog against ability.

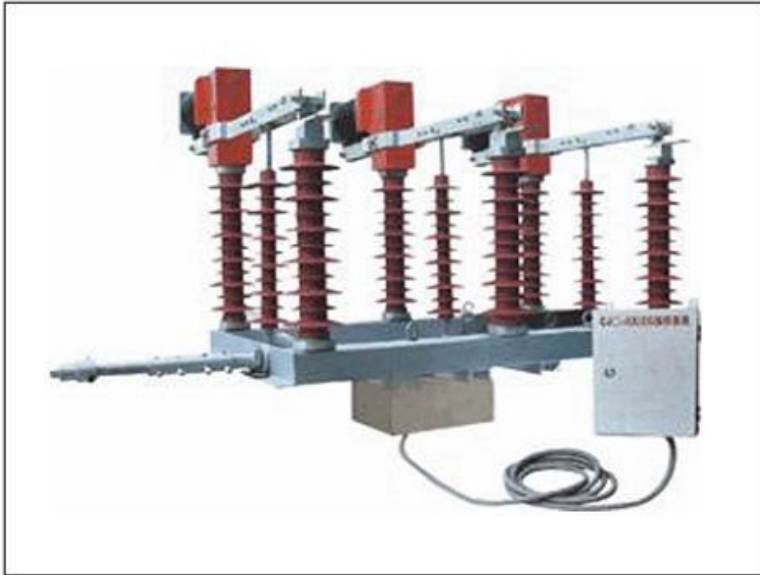
It has characteristic of small size, light weight, good appearance, easy operation, strong breaking ability, long electrical life maintenance free and obvious fracture. It can adopt manual single-pole operation and also electric, distance operation.

#### Ambient condition

- 1 Ambient temperature: max +40°C min -40°C
- 2 Altitude:  $\leq 2000\text{m}$
- 3 Wind pressure:  $\leq 700\text{Pa}$ (equals to wind speed 34m/s)
- 4 Relative humidity: daily average relative humidity:  $\leq 95\%$ ; monthly average relative humidity  $\leq 90\%$
- 5 Air contamination degree: IV degree
- 6 Earthquake intensity:  $\leq 8$  degree, no frequent violent vibration.

#### Order instruction

- Complete model and order quantity of the product
- Rated current, rated voltage
- Manual or electric operation
- Installation method
- Required accessory and quantity
- Other requirement please contact with us directly



FZW32-40.5 outdoor alternating current high voltage vacuum load break switch

FZW -40.5/T1250-25 outdoor high voltage isolate vacuum switch is a new generation of high voltage electrical equipment developed by both home and overseas advanced technology. Each of the technical performance have reach the standard of GB3804 and IEC.

They are designed for the construction and reform of urban and rural grid. The bottom of the product has adopted stainless steel and galvanized carbon steel with ultraviolet-proof coating material, to make sure it's normal outdoor operation. Each stainless steel component can ensure it's durability, stability, water-proof and salt fog against ability.

It has characteristic of small size, light weight, good appearance, easy operation, strong breaking ability, long electrical life maintenance free and obvious fracture. It can adopt manual single-pole operation and also electric, distance operation.

Ambient condition

1 Ambient temperature: max +40°C min -40°C

2 Altitude:  $\leq 2000\text{m}$

3 Wind pressure:  $\leq 700\text{Pa}$ (equals to wind speed 34m/s)

4 Relative humidity: daily average relative humidity:  $\leq 95\%$ ; monthly average relative humidity  $\leq 90\%$

5 Air contamination degree: IV degree

6 Earthquake intensity:  $\leq 8$  degree, no frequent violent vibration.

Order instruction

Complete model and order quantity of the product

Rated current, rated voltage

Manual or electric operation

Installation method

Required accessory and quantity

Other requirement please contact with us directly