

## RB01 Outdoor Power Factor Compensate Device

### Summary

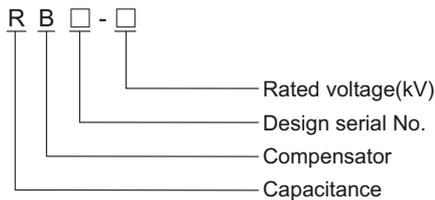
RB series pole mounted AC high voltage parallel capacitor device (compensator), is used to improve power factor, reduce power consume in 12kV and 7.2kV power system. It accords with stand of IEC600271-109.

### Ambient condition

1. Altitude:  $\leq 1000\text{mm}$ ;
2. Ambient air temperature:  $-40^{\circ}\text{C}\sim+45^{\circ}\text{C}$ ;
3. Earthquake intensity: 8 degree;
4. Sunlight radiate:  $\leq 0.1\text{W}/\text{cm}^2$ ;
5. Air condition: no explosive gas, steam and volatile dust.



### Model



### Product feature

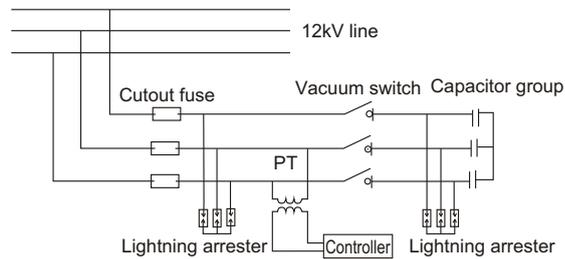
1. Intelligentize control  
Voltage-time controlled by microsoft.
2. Multi match  
It can matched with VSP5-12 pole mounted vacuum load break switch, ZW27-12 high voltage VCB and ZW43 – 12 outdoor high voltage VCB which manufactured by HEAG.
3. Optional fuse group  
The capacity of fuse group can be selected by client accordingly.
4. Protection  
One set of lightning arrester on two sides of switch to avoid damaged by over-voltage.
5. Compact structure  
Its compose of vacuum load break switch, controller, capacitor, lightning arrester and current transformer in one complete structure .
6. Simple operating principle  
The switch will be closing when the voltage lower than the limited value, the capacitor will make reactive compensate, the switch will be opening when the voltage higher than the limited value, the capacitance exit the line. The voltage can be set by the client accordingly.

### Technical specification

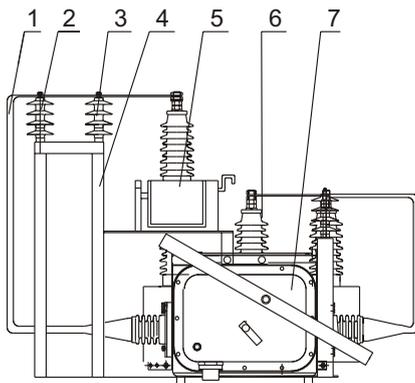
No.	Item	Unit	Data
1	Rated voltage	kV	12
2	Rated current	A	630
3	Rated short-time withstand current(4s)	kA	12.5,16,20
4	Electrical life	Times	1000
5	Rated short-circuit making current(peak)	kA	31.5,40,50

No.	Item	Unit	Data
6	Rated peak withstand current	kA	31.5,40,50
7	Rated short-time withstand current/duration	kA/s	12.5,16,20/4
8	Mechanical life	Times	10000
9	Net weight	kg	145
10	1min P.F. Withstand voltage	kV	50
11	Rated breaking capacitor current	A	200,400

## Product drawing

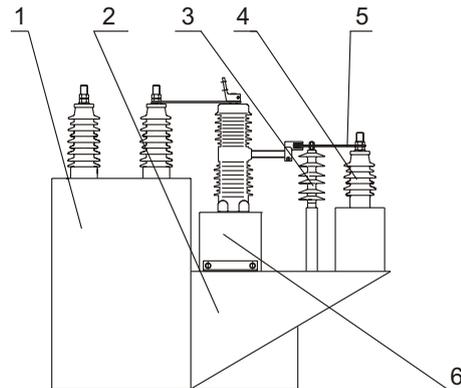


## Product structure



VSP5-12 Pole mounted vacuum load break group

1. Cable
2. Post insulator
3. Lightning arrester
4. Frame
5. PT
6. Capacitor group
7. VSP5-12 Pole mounted vacuum load break switch



ZW43-12 Pole mounted VCB group

1. Capacitor
2. Install frame
3. Lightning arrester
4. Power transformer
5. Busbar
6. ZW43-12/D630-20 Outdoor high voltage VCB