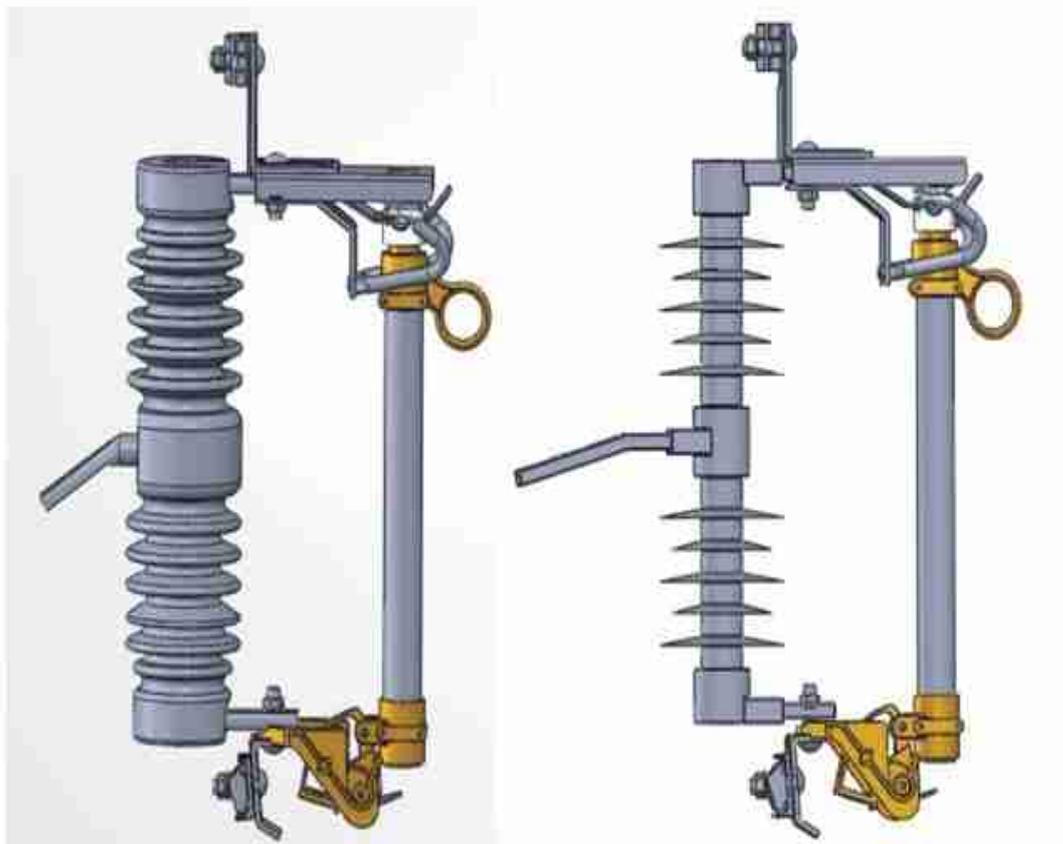


DROPOUT FUSE CUTOUT

Run Series Outdoor Dropout Fuse

Cutout Specs and Operation Instruction





SAFETY



This is just the operation instruction and can not replace the safety training or actual experiment. The people who has professional technology and is familiar with the product can operate or maintain. Professional operator should have the following characteristics:

- 1.Familiar and understand this operation instruction;
- 2.Have the operation certification of high-voltage and low voltage;
- 3.Experienced the training in power transmission &cutting, restoring and grounding of high voltage equipments and get the authorization.
- 4.Experienced the protection equipments training such as charged overalls, safety glasses, helmets, rubber gloves, hot stick, etc.

★safety instructions

 Danger: Dangerous, Death or injury occurs if you touch. Obey the local safety operation rules when work near with high-voltage or low-voltage line.

Warning: Read carefully and understand the operation instruction when install, operate, maintain and before using the equipment. Improper operation will cause people death or equipment damage.

Warning: The equipment can not used to protect people. Please obey the local safety operation rules, or will cause people hurt& death and equipment damage.

Product description and installation

★ Description

Run series Dropout fuse cutout is jet type fuse cutout. It can offer excellent fault current and over current protection to transformer, capacitor, cable and lines in overhead distribution system.

★ Standard

GB311.1 Insulator and coordinate of high voltage equipment

GB11022 Technical requirements of AC high voltage switch equipment.

GB15166.4 Experiment methods of AC high voltage fuse cutout

GB15166.3 AC high voltage fuse cutout jet fuse cutout

★ Working environment

Temperature	- 40°C -- 50°C
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Altitude	3000m.
Seismic resistance capability	8 grade level below
Relative humidity	less than 90%
The maximum wind speed	34m/s
Polluted level	IV
Thickest ice covered	10mm
Installation site	pole-mounted outdoor

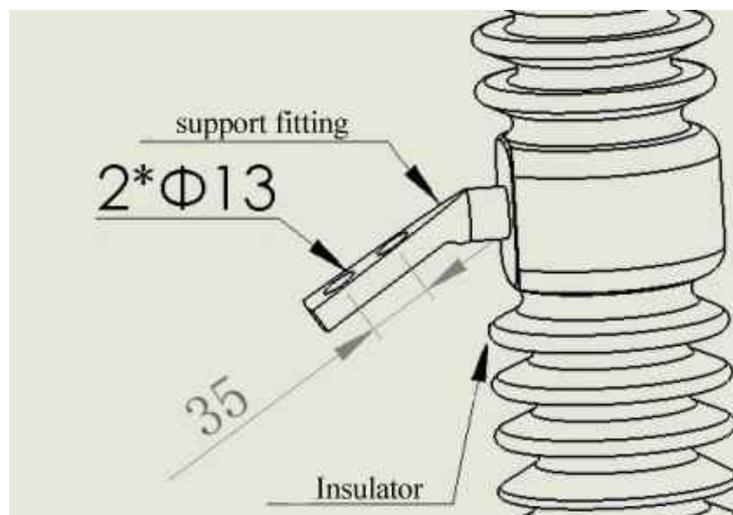


Technical parameters

Rated voltage	12KV
Rated current	100A 200A
Rated breaking capacity	100KVA 200KVA 250KVA
Frequency withstand voltage	42KV
Lightning impulse withstand voltage	125KV
Rated short circuit breaking current	12.5KA(effective values)
	16KA(peak)
Working time	2000 times

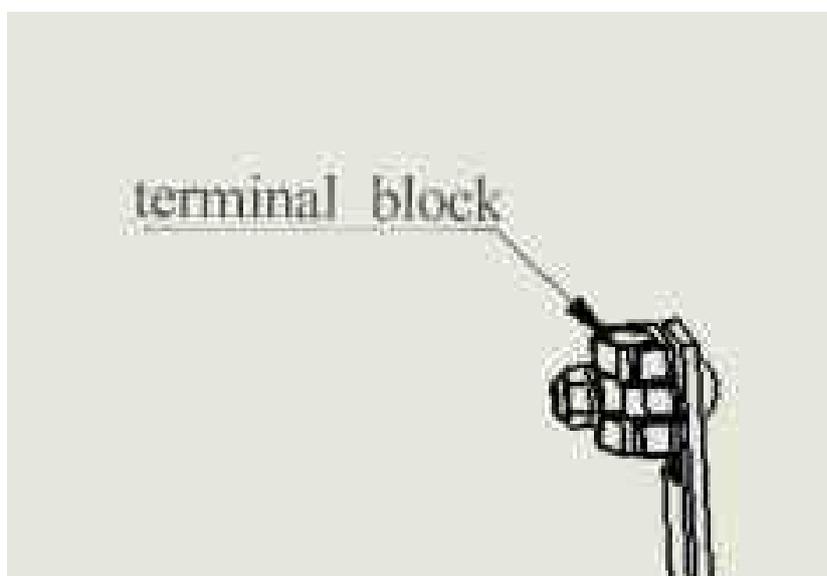
★ Installation

1. Trestle



Double holes type fittings. Put the fittings on the cross arm with 35mm pitch or mounting bracket, fix it with 2 M12 bolts, nuts, spacer and flat mat, and lock the nut tightly.

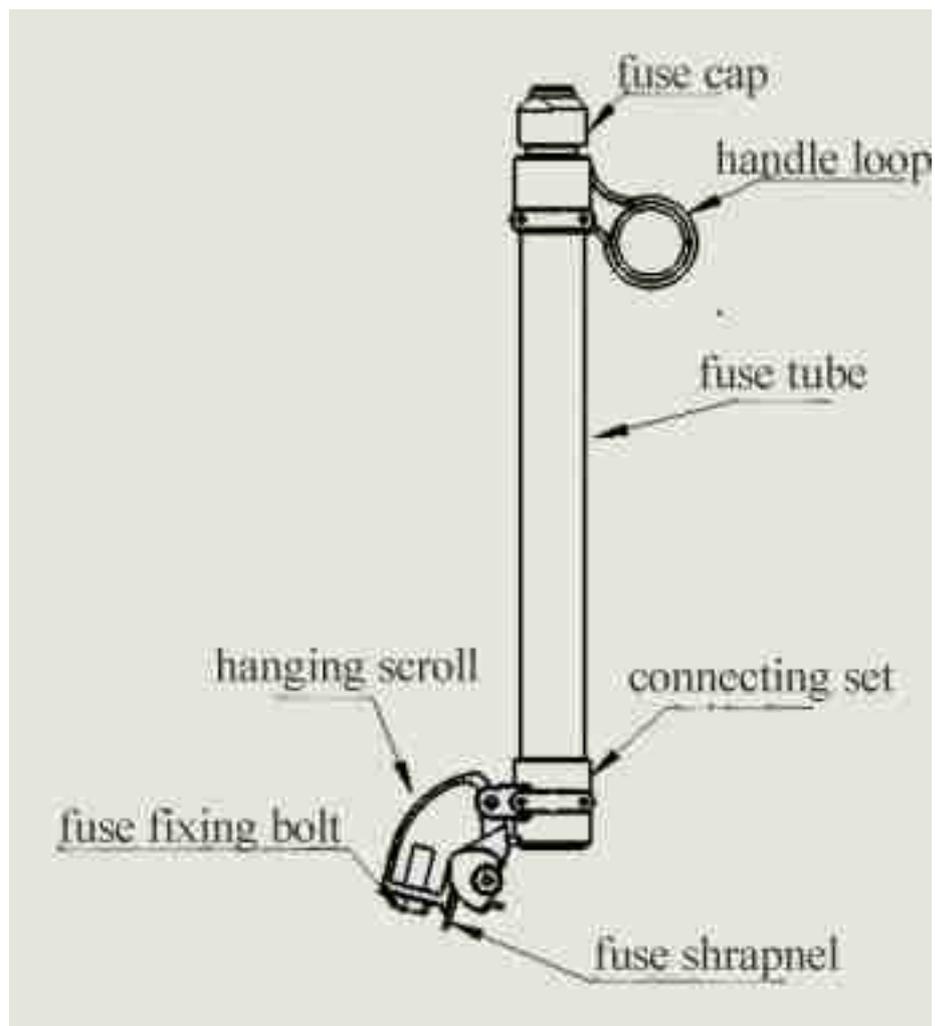
2. Line connection



2.1 Loose the clamp;

2.2 Put the wires into the clamp; (Note: when use the aluminum wires, Antioxidant treatment must be finished before put the wires into the clamp.)

2.3 Tighten the clamp and the tightening torque not less than 30N.m



3. Fuse wire

3.1 Remove the fuse cap on the top of fuse;

3.2 Insert the fuse wire into tube and tighten the fuse cap;

3.3 Pull the fuse wire from the bottom of the tube, press it on the fuse shrapnel, fix clockwise on the bolt along with shrapnel slot.

3.4 Keep the fuse tension and tighten the nut using wrench;

3.5 Cut the redundant fuse wire, and the fuse wire's length can not over 13 cm(it will hurt the surrounded equipment if the left fuse wire too long;)

4. Fuse tube

4.1 Install the fuse wire on the tube;

4.2 Hang the operating lever on the hanging scroll of the tube;

4.3 Hang the tube on the hook ;

4.4 Remove the operating lever;

4.5 Let operation lever hook the operation loop;

4.6 Push the tube to the close switch position quickly, and check the closing carefully;

4.7 Take out the operation lever carefully from the operation loop to avoid opening tube.



Opening – closing operation sequence

1. Opening operation, first pull intermediate phase, then two sides, the reason is when the intermediate phase was cut out, the current is less than the two sides, so the arc is small and will not be dangerous to the two sides.

2. Closing operation sequence: two side phase--intermediate phase. When close the two sides phase fuse cutout, it will create higher current, at the same time, the intermediate phase has been cut, and the long distance between the two sides phase can prevent the short circuit.

3. In the windy weather, closing operation sequence: intermediate phase---wind-back phase –windward phase ; Opening operation sequence: windward phase –wind-back phase-intermediate phase to avoid the short circuit when the wind blow arc.

Notice in operation

1. When the operator open the dropout fuse cutout , the operator must use the insulator rod which has suitable voltage and qualified, wear insulation gloves, safety cap, protection glasses, insulation shoes or stand on the dry wooden platform, and should have partner to ensure the safety.

2. The impact is avoided when the operator open, close the dropout fuse cutout. The impact will hurt the fuse cutout such as break the insulator, deform static and dynamic contact, pull out operation loop and

so on. Strong strength will hurt fuse cutout and open and close must be in place.

3. When closing the fuse cutout, the strength sequence :
slow(begin)-fast(when the dynamic contact close to the static contact)-
slow(dynamic contact close to the end)

4. When opening the fuse cutout, the strength sequence:
slow(begin)-fast(when the dynamic contact close to the static contact)-
slow(dynamic contact close to the end)

5. Fast can prevent arc to make short circuit and burn contacts, slow is to prevent operation impact and hurt fuse cutout.



Fuse cutout operation and maintenance management

1. Fuse cutout rated current should be accordance with the fuse link and overload current;
2. Operate fuse cutout carefully.
3. Fuse cutout must use standard fuse link, not the copper or aluminum;
4. New installed fuse cutout or changed fuse cutout should be tested and meet the quality requirement;
5. Check whether the connection between static and dynamic contact are consistent, and no burn mask.

6. Rotator part is flexible, no corrosion, no rust, the accessory part is good, the spring is not corrosion or rust situation.

7. The fuse link is good;

8. Check whether the fuse tube is burned when the air created, and internal diameter changed;

9. Clean insulator and check whether damaged, cracked or discharged;

10. Check whether the fuse cutout connect lead between the up and down have the loosen, discharged, overheat situation.

11. Deal with ASAP if something wrong.

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