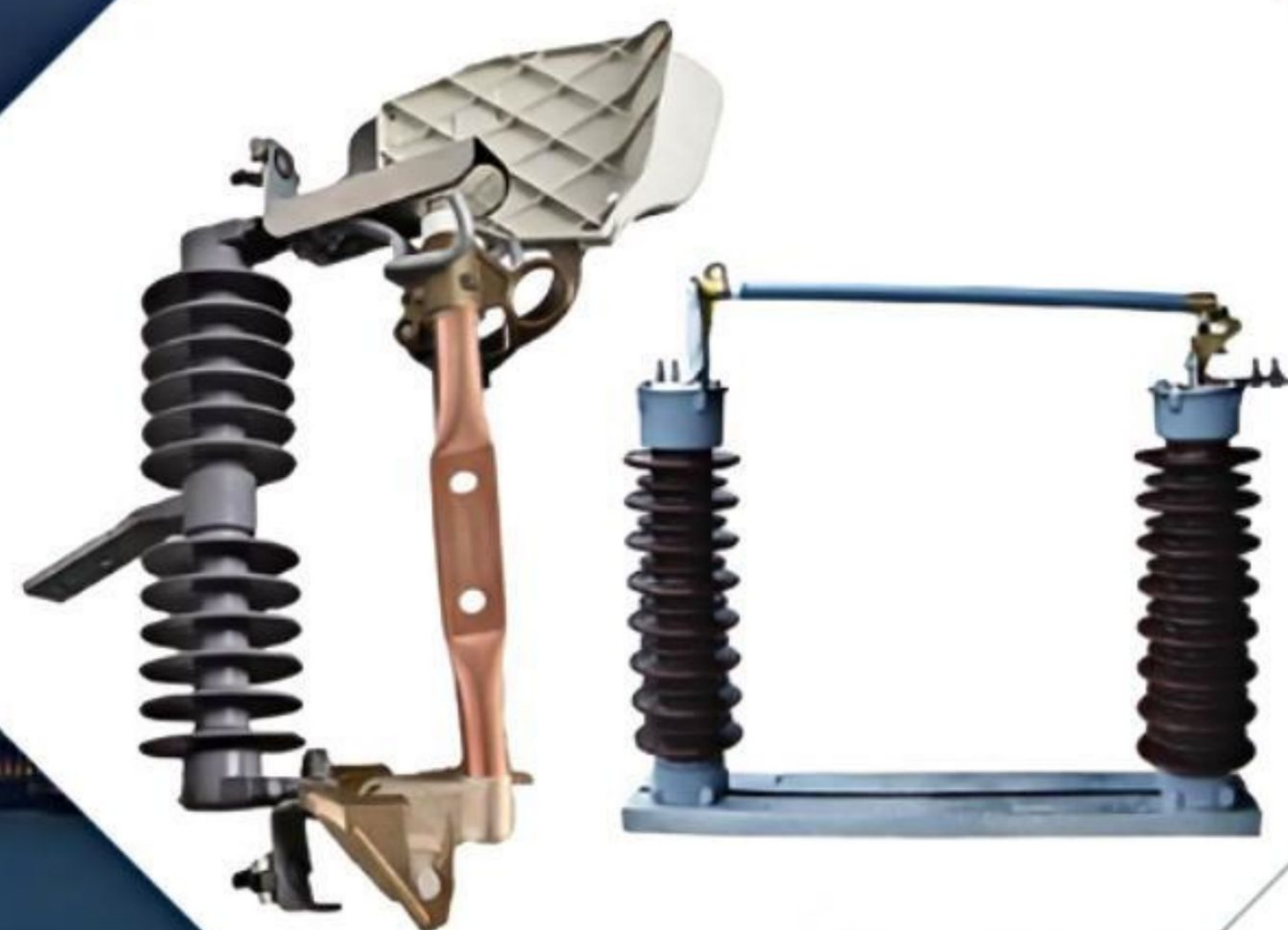


XIKAI

Fuse cutout

Short-circuit and overload
protection , breaking and
closing load currents



Constructing
World Bridge of Power System,
Providing Excellent Products From
XIYA

Key Of Power Electric Professional

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- Disconnecting Switch
- SF6 & Vacuum Circuit Breaker
- Surge Arrester
- Fitting&Clamp (Hardware)
- Wall Bushing
- Loadbreak Switch
- Fuse Cutout
- Whole Set Cabinet
- Cable Accessories



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XIKAI

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Outdoor High-voltage Dropout Fuse Cutouts

Fuse Cutouts

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Fuse Cutouts

• Application

The primary purpose of any fuse cutouts is to provide protection to the lines of your system and the various apparatus on those lines such as transformers and capacitor banks. Fuse cutouts provide reliable protection from low-level overloads that just melt the fuse link, intermediate faults, and very high faults, through maximum interrupting capacity.

• Quality Construction

Top Contact

The top contact is attached to the galvanized-steel hood by a stainless rivet to provide a smooth self-aligning action during closing even in severely corrosive environments. The top contact provides a socket-type cavity for latching the fuse holder and prevents any possible "over-travel" of the fuse holder. The top contact is made of a highly conductive copper strip with silver-plated embossments to resist corrosion. The contacts are held under constant pressure designed to maintain firm contact with the fuse holder contact surface until fault interruption is accomplished."

Hinge

The hinge on the Fuse cutout employs large pivot areas for the fuse holder's trunnion and is cast of a copper alloy chosen for its strength and corrosion resistance. The hinge contacts are highly conductive copper alloy stampings and are plated to assure low resistance current transfer from the trunnion casting. The parallel current paths are backed up by high strength cantilever springs and are riveted to the hinge castings. Fuse holder can be dropped into place and easily lifted up and out. No tricky maneuvering.

Fuse holder

The solid cap on the single vent fuse holder is a copper alloy, silver-plated to provide efficient current transfer. An integral ring is provided in the top tube casting for opening and closing the fuse holder with conventional disconnect tools from the ground, from a bucket truck or from the pole.

The toggle type trunnion casting is a selective silver-plated bronze for efficient current transfer to the lower hinge contacts. A cam shaped projection on each side of the trunnion casting provides high pressure parallel current paths to the lower contacts. These projections, or pivot pins, are cast full round for smooth rotational operation in the hinge. The link ejector assists in arc interruption during low fault current or excessive overload conditions. A groove in the center of the link ejector allows the fuse link's pigtail to go directly from the fuse tube to the attachment nut. A curved ejector minimizes bending stresses in the pigtail to prevent broken strands. A stainless steel torsion spring on the link ejector helps to rapidly eject the link from the bore of the fuse holder during interruption. The 200 ampere link ejector has a wider groove area and increased spring force to accommodate the larger links.

Fuse tube

The 1/2-inch inside diameter of the Fuse cutouts 100 ampere fuse tube increases internal pressure giving superior and reliable expulsion action. During frequently encountered intermediate fault ranges this diameter also permits higher TRV (transient recovery voltage) values to be tolerated. This small bore design eliminates any concern related to high impedance phase-to-phase faults on ungrounded wye and delta systems.

The inside liner is constructed of a synthetic arc-quenching material. The tube is made of fiberglass which permits the smaller bore and provides a higher burst strength. It is protected from the weather and environment by a special ultra-violet resistant coating.

Also, the XIYA fuse tube operates with fuse links from all major suppliers.

Outdoor High-voltage Dropout Fuse Cutouts

Fuse Cutouts

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Mounting Bracket

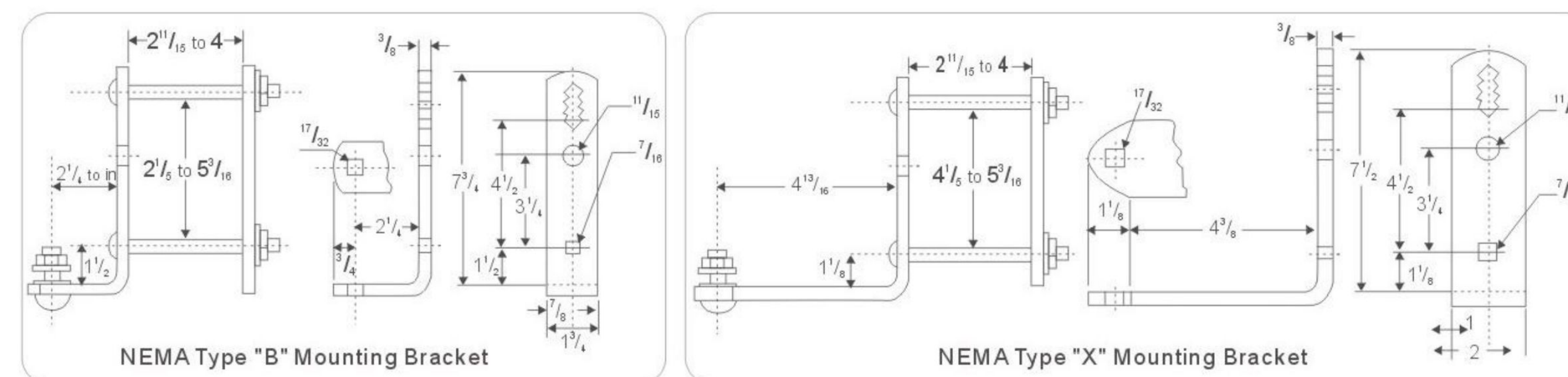
Fuse cutouts come packed one per carton including a NEMA Heavy Duty "B" bracket with captive 11/2" bolt for cross arm mounting.

Type "X" bracket, also for cross arm mounting, provides 25/8" additional clearance between the cross arm and the cutout.

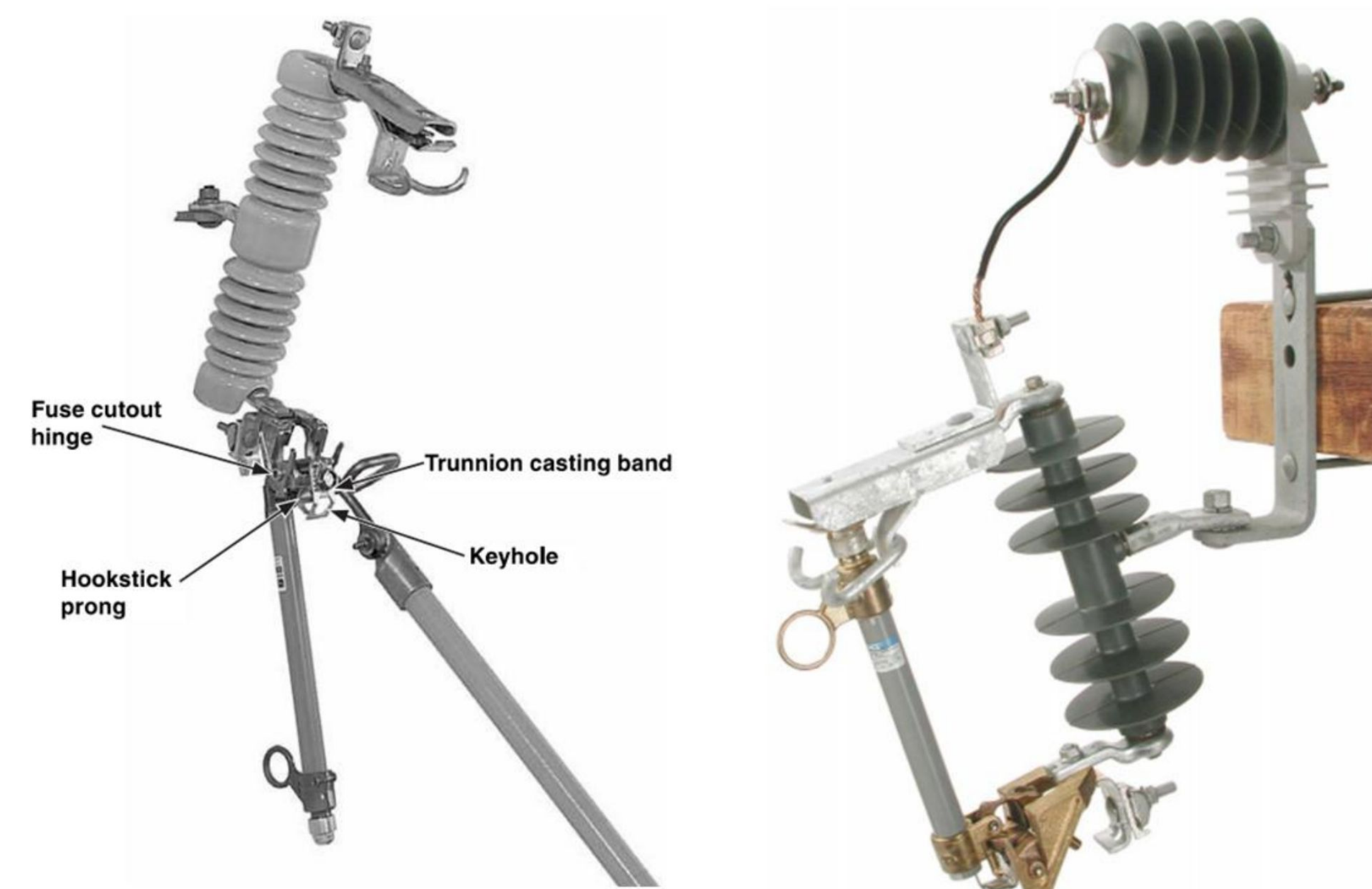
Higher Interrupting Capacities

By using a copper arc shortening rod inside the top of the fuse tube, higher interrupt ratings are obtainable. An arc shortening rod is attached to the cap of some fuse tube and lowers the fuse link within the fuse tube. This permits a much shorter arc, resulting in less arc energy, and higher interrupting capacities.

For 200 A tubes, it allows for full voltage rating. It is necessary to use fuse links with removable button heads when arc shortening rods are employed.



Note: Following the cross-reference of metric system and British system (1 in=25.4mm)

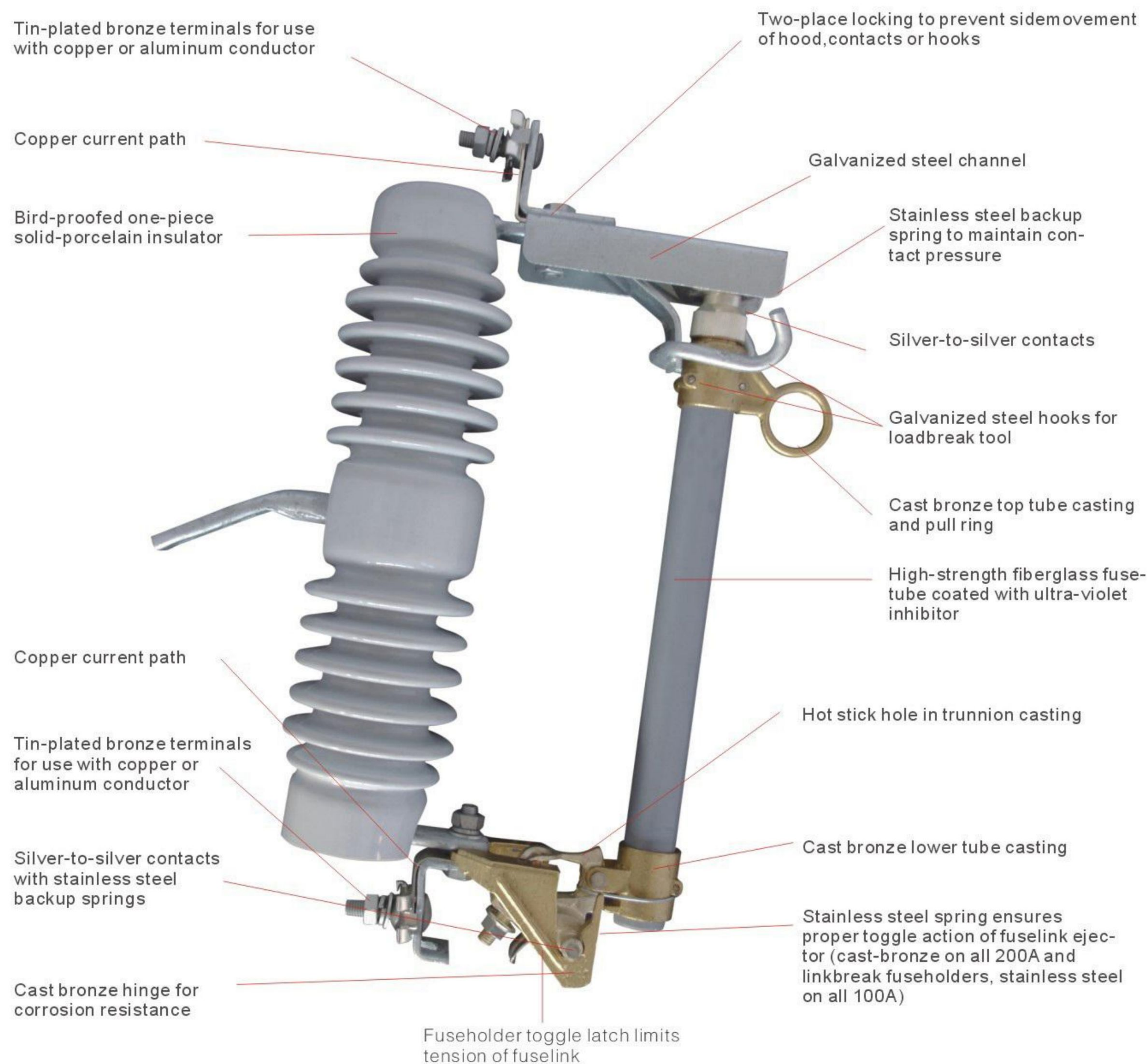


Outdoor High-voltage Dropout Fuse Cutouts

XK1 Series Porcelain Housing Dropout Fuse Cutouts

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Parts Designation of Fuse Cutouts for Type XK1



Mechanical assist: Fuseholder is available with a torsional spring on trunnion to aid drop out operation in corrosive environments.

Large nut to fasten fuselink without breaking strands



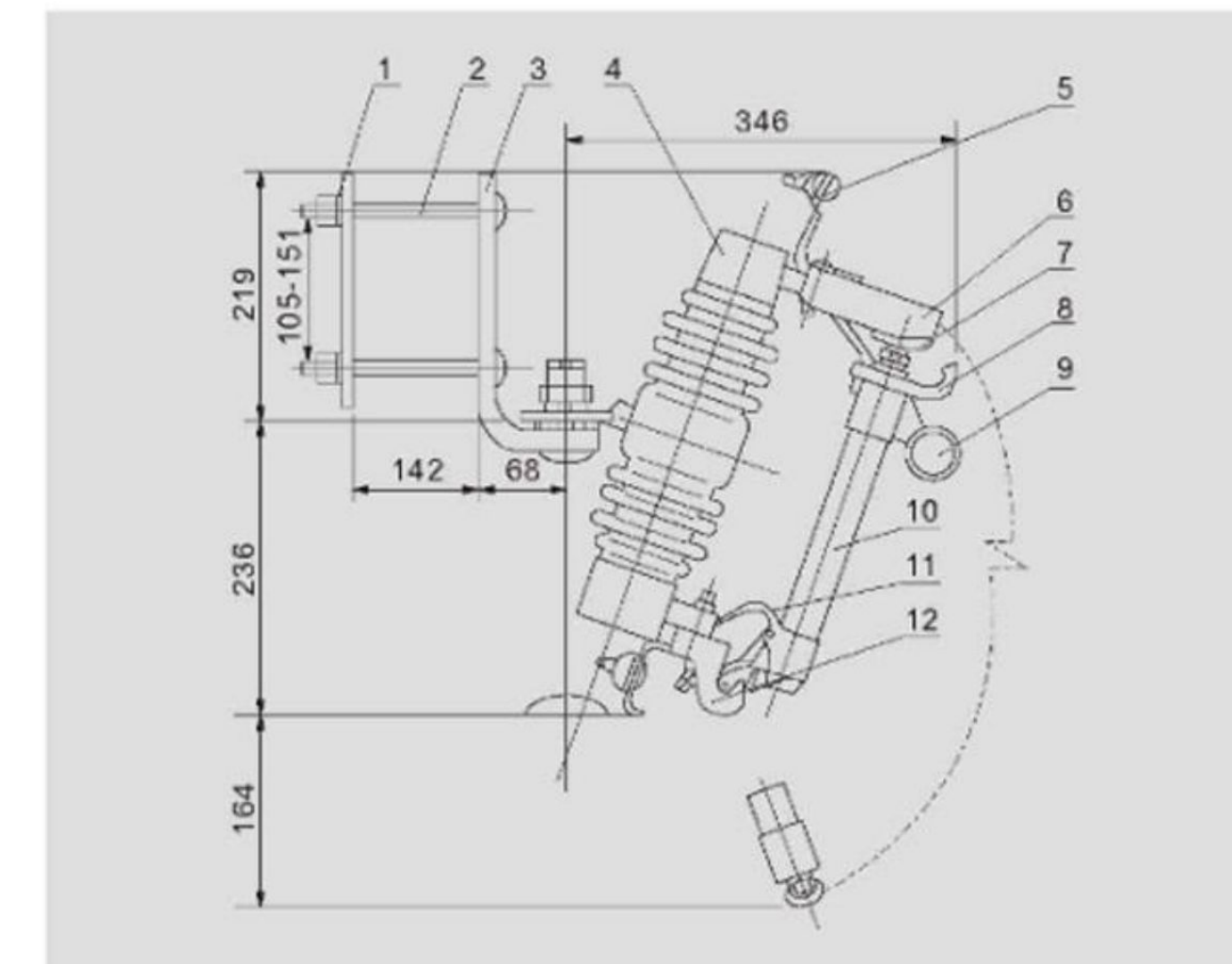
Outdoor High-voltage Dropout Fuse Cutouts

XK1 Series Porcelain Housing Dropout Fuse Cutouts

技术参数 Technical Parameter

编号 No.	部件名称 Description
1	背板 Back Plate
2	长螺杆 Long Bolts
3	安装支架 Mounting Bracket
4	瓷件(或陶瓷绝缘子) Porcelain
5	接线座 Connector
6	上支座 Upper Housing
7	上触头 Upper Contacts
8	附属钩 Attachment Hooks
9	操作环 Operation Ring
10	熔丝管 Fuse Tube
11	套环接头 Toggle Joint
12	下支座 Lower Housing

外形尺寸 Overall Dimensions



熔丝的选择 Selection of fuse

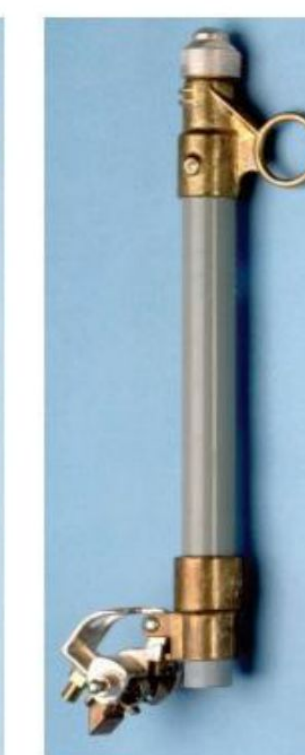
The choice of fuse should be able to ensure that the distribution transformer internal or high, low-voltage lead-out bushing short-circuit can be quickly fused. In practice, the following principles are usually followed: for the fitting transformer with a capacity below 160kVA, the fuse is selected by 2 ~ 3 times of the rated current of the transformer; for the distribution transformer with a capacity of 160kVA or above, the fuse is selected by 1.5 ~ 2 times.

The choice of fuse wire must consider whether the fuse wire's fusing characteristics can match with the superior protection time, which is the key issue to decide whether the fuse wire protection can be effective. The operation time of quick break protection for distribution lines is very short, about 0.1 s. According to the characteristic curve of the fuse, the current of the fuse should not be less than 20 times of the rated current within 0.1 s. This data is to ensure that the fuse and the first end of the circuit breaker with the necessary conditions.

In actual operation, for substations with short-circuit capacity of more than 50MVA, 50 ~ 150mm aluminum lines are main lines, distribution transformers less than 1250kVA within 1km from substations, or transformers less than 800kVA within 2km, and 400kVA transformer outlet short-circuit current within 10km can reach the fuse rated current more than 20 times (fuse by 1.5 times selection). For the over-current protection of distribution lines, the operation time is longer, it is easier to cooperate. This shows that for most distribution transformers can be used as fuse protection. The selection of fuse specific specifications can be referred to the table.

熔丝的技术参数 Technical parameter of fuse

Transformer capacity (kVA)	Rated current (A)	Fuse specification
10	0.58	3
20	1.15	3
30	1.73	3 ~ 5
50	2.89	5 ~ 10
63	3.64	7.5 ~ 10
80	4.62	10 ~ 15
100	5.77	10 ~ 15
125	7.22	15 ~ 20
160	9.24	15 ~ 20
200	11.55	20
315	18.19	30



Cooper ARC-shortening rod

100 & 200A Fuse holder

300A Fuse blade

100 & 200A Fuse holder

300A Fuse blade

Outdoor High-voltage Dropout Fuse Cutouts

XK1 Series Porcelain Housing Dropout Fuse Cutouts

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12kV-15kV

Code 代码	Type 型号	Rated Voltage 额定电压 (kV)	Rated Current 额定电流 (A)	Breaking Current 开断电流 (A)	Impulse Voltage 冲击电压 (BIL)	Power-frequency withstand voltage 工频耐压 (kV)	Leakage distance 爬距 (mm)	Weight 重量 (kg)	Dimensions 包装尺寸 寸组 (cm)
XK ₁	RW12	12	100	6300	110	40	250	6.5	39X30X10
XK ₁	RW12	12	200	12500	110	40	250	6.6	



12kV-15kV

Code 代码	Type 型号	Rated Voltage 额定电压 (kV)	Rated Current 额定电流 (A)	Breaking Current 开断电流 (A)	Impulse Voltage 冲击电压 (BIL)	Power-frequency withstand voltage 工频耐压 (kV)	Leakage distance 爬距 (mm)	Weight 重量 (kg)	Dimensions 包装尺寸 寸组 (cm)
XK ₁	RW12	12	100	6300	110	40	250	6.5	39X30X10
XK ₁	RW12	12	200	12500	110	40	250	6.6	



12kV-15kV

Code 代码	Type 型号	Rated Voltage 额定电压 (kV)	Rated Current 额定电流 (A)	Breaking Current 开断电流 (A)	Impulse Voltage 冲击电压 (BIL)	Power-frequency withstand voltage 工频耐压 (kV)	Leakage distance 爬距 (mm)	Weight 重量 (kg)	Dimensions 包装尺寸 寸组 (cm)
XK ₁	RW12	12	300	1600	110	42	230	7.7	40X30X11
XK ₁	RW12	12	400	1600	110	42	230	8.2	



15kV-24kV

Code 代码	Type 型号	Rated Voltage 额定电压 (kV)	Rated Current 额定电流 (A)	Breaking Current 开断电流 (A)	Impulse Voltage 冲击电压 (BIL)	Power-frequency withstand voltage 工频耐压 (kV)	Leakage distance 爬距 (mm)	Weight 重量 (kg)	Dimensions 包装尺寸 寸组 (cm)
XK ₁	RW12	15	100	8000	125	45	320	8.3	50X36X12.5
XK ₁	RW12	15	200	10000	125	45	320	8.4	

Outdoor High-voltage Dropout Fuse Cutouts

XK1 Series Porcelain Housing Dropout Fuse Cutouts

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15kV-27kV

Code 代码	Type 型号	Rated Voltage 额定电压 (kV)	Rated Current 额定电流 (A)	Breaking Current 开断电流 (A)	Impulse Voltage 冲击电压 (BIL)	Power-frequency withstand voltage 工频耐压 (kV)	Leakage distance 爬距 (mm)	Weight 重量 (kg)	Dimensions 包装尺寸 寸组 (cm)
XK ₁ -F	RW12	15	100	8000	125	45	320	8	58X40X15
XK ₁ -F	RW12	15	200	12500	125	45	320	8	



15kV-27kV

Code 代码	Type 型号	Rated Voltage 额定电压 (kV)	Rated Current 额定电流 (A)	Breaking Current 开断电流 (A)	Impulse Voltage 冲击电压 (BIL)	Power-frequency withstand voltage 工频耐压 (kV)	Leakage distance 爬距 (mm)	Weight 重量 (kg)	Dimensions 包装尺寸 寸组 (cm)
XK ₁	RW12	15	100	8000	125	45	320	8.3	50X36X12.5
XK ₁	RW12	15	200	10000	125	45	320	8.4	



15kV-27kV

Code 代码	Type 型号	Rated Voltage 额定电压 (kV)	Rated Current 额定电流 (A)	Breaking Current 开断电流 (A)	Impulse Voltage 冲击电压 (BIL)	Power-frequency withstand voltage 工频耐压 (kV)	Leakage distance 爬距 (mm)	Weight 重量 (kg)	Dimensions 包装尺寸 寸组 (cm)
XK ₁	RW12	15	100	8000	125	45	320	8.3	50X36X12.5
XK ₁	RW12	15	200	10000	125	45	320	8.4	



24kV-27kV

Code 代码	Type 型号	Rated Voltage 额定电压 (kV)	Rated Current 额定电流 (A)	Breaking Current 开断电流 (A)	Impulse Voltage 冲击电压 (BIL)	Power-frequency withstand voltage 工频耐压 (kV)	Leakage distance 爬距 (mm)	Weight 重量 (kg)	Dimensions 包装尺寸 寸组 (cm)
XK ₁	RW12	24	100	6300	150	65	470	11	50X38X12
XK ₁	RW12	24	200	10000	150	65	470	11.5	

Outdoor High-voltage Dropout Fuse Cutouts

XK1 Series Porcelain Housing Dropout Fuse Cutouts

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33kV-36kV

Code 代码	Type 型号	Rated Voltage 额定电压 (kV)	Rated Current 额定电流 (A)	Breaking Current 开断电流 (A)	Impulse Voltage 冲击电压 (BIL)	Power-frequency withstand voltage 工频耐压 (kV)	Leakage distance 爬距 (mm)	Weight 重量 (kg)	Dimensions 包装尺寸 寸组 (cm)
Xk ₁	RW12	33	100	1000	170	70	660	13.2	64X35X18
XK ₁	RW12	33	200	12500	170	70	660	13.5	



12kV-15kV

Code 代码	Type 型号	Rated Voltage 额定电压 (kV)	Rated Current 额定电流 (A)	Breaking Current 开断电流 (A)	Impulse Voltage 冲击电压 (BIL)	Power-frequency withstand voltage 工频耐压 (kV)	Leakage distance 爬距 (mm)	Weight 重量 (kg)	Dimensions 包装尺寸 寸组 (cm)
HXK ₁	HRW12	12	100	6300	110	40	250	6	60X36X11.5
HXK ₁	HRW12	12	200	12500	110	40	250	6	



15kV-27kV

Code 代码	Type 型号	Rated Voltage 额定电压 (kV)	Rated Current 额定电流 (A)	Breaking Current 开断电流 (A)	Impulse Voltage 冲击电压 (BIL)	Power-frequency withstand voltage 工频耐压 (kV)	Leakage distance 爬距 (mm)	Weight 重量 (kg)	Dimensions 包装尺寸 寸组 (cm)
HXK ₁	HRW12	27	100	8000	125	45	600	6.5	50X36X12.5
HXK ₁	HRW12	27	200	12500	125	45	600	6.5	



35kV-40.5kV

Code 代码	Type 型号	Rated Voltage 额定电压 (kV)	Rated Current 额定电流 (A)	Breaking Current 开断电流 (A)	Impulse Voltage 冲击电压 (BIL)	Power-frequency withstand voltage 工频耐压 (kV)	Leakage distance 爬距 (mm)	Weight 重量 (kg)	Dimensions 包装尺寸 寸组 (cm)
HXK ₁	HRW12	35	100	6300	170	70	1100	14	71X36X15
HXK ₁	HRW12	35	200	8000	170	70	1100	15	

Outdoor High-voltage Dropout Fuse Cutouts

XK2 Series Porcelain Housing Dropout Fuse Cutouts



15kV-27kV

Code 代码	Type 型号	Rated Voltage 额定电压 (kV)	Rated Current 额定电流 (A)	Breaking Current 开断电流 (A)	Impulse Voltage 冲击电压 (BIL)	Power-frequency withstand voltage 工频耐压 (kV)	Leakage distance 爬距 (mm)	Weight 重量 (kg)	Dimensions 包装尺寸 寸组 (cm)
XK ₂	RW12	15	100	10000	125	45	320	7.5	50X36X12.5
XK ₂	RW12	15	200	12500	125	45	320	7.5	



33kV-36kV

Code 代码	Type 型号	Rated Voltage 额定电压 (kV)	Rated Current 额定电流 (A)	Breaking Current 开断电流 (A)	Impulse Voltage 冲击电压 (BIL)	Power-frequency withstand voltage 工频耐压 (kV)	Leakage distance 爬距 (mm)	Weight 重量 (kg)	Dimensions 包装尺寸 寸组 (cm)
XK ₂	RW12	33	100	10000	170	70	660	13.2	64X35X18
XK ₂	RW12	33	200	12500	170	70	660	13.5	



33kV-36kV

Code 代码	Type 型号	Rated Voltage 额定电压 (kV)	Rated Current 额定电流 (A)	Breaking Current 开断电流 (A)	Impulse Voltage 冲击电压 (BIL)	Power-frequency withstand voltage 工频耐压 (kV)	Leakage distance 爬距 (mm)	Weight 重量 (kg)	Dimensions 包装尺寸 寸组 (cm)
XK ₂	RW12	35	100	6300	170	70	720	14	63X37X16.5
XK ₂	RW12	35	200	12500	170	70	720	15	



24kV-27kV

Code 代码	Type 型号	Rated Voltage 额定电压 (kV)	Rated Current 额定电流 (A)	Breaking Current 开断电流 (A)	Impulse Voltage 冲击电压 (BIL)	Power-frequency withstand voltage 工频耐压 (kV)	Leakage distance 爬距 (mm)	Weight 重量 (kg)	Dimensions 包装尺寸 寸组 (cm)
HXK ₂	HRW12	24	100	8000	150	65	540	7	50X38X16
HXK ₂	HRW12	24	200	12500	150	65	540	7	

Outdoor High-voltage Dropout Fuse Cutouts

XK3 Series Porcelain Housing Dropout Fuse Cutouts

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15kV-27kV

Code 代码	Type 型号	Rated Voltage 额定电压 (kV)	Rated Current 额定电流 (A)	Breaking Current 开断电流 (A)	Impulse Voltage 冲击电压 (BIL)	Power-frequency withstand voltage 工频耐压 (kV)	Leakage distance 爬距 (mm)	Weight 重量 (kg)	Dimensions 包装尺寸 (cm)
XK ₃	RW12	15	100	8000	125	45	340	7.5	50X36X12.5
XK ₃	RW12	15	200	12500	125	45	340	7.5	



12kV-15kV

Code 代码	Type 型号	Rated Voltage 额定电压 (kV)	Rated Current 额定电流 (A)	Breaking Current 开断电流 (A)	Impulse Voltage 冲击电压 (BIL)	Power-frequency withstand voltage 工频耐压 (kV)	Leakage distance 爬距 (mm)	Weight 重量 (kg)	Dimensions 包装尺寸 (cm)
XK ₃ -F	RW12	15	100	8000	125	45	340	8	58X40X15
XK ₃ -F	RW12	15	200	12500	125	45	340	8	



15kV-27kV

Code 代码	Type 型号	Rated Voltage 额定电压 (kV)	Rated Current 额定电流 (A)	Breaking Current 开断电流 (A)	Impulse Voltage 冲击电压 (BIL)	Power-frequency withstand voltage 工频耐压 (kV)	Leakage distance 爬距 (mm)	Weight 重量 (kg)	Dimensions 包装尺寸 (cm)
XK ₄	RW12	24	100	6300	110	40	470	6.5	40X36X11.5
XK ₄	RW12	24	200	12500	110	40	470	6.5	



10kV-12kV

Code 代码	Type 型号	Rated Voltage 额定电压 (kV)	Rated Current 额定电流 (A)	Breaking Current 开断电流 (A)	Impulse Voltage 冲击电压 (BIL)	Power-frequency withstand voltage 工频耐压 (kV)	Leakage distance 爬距 (mm)	Weight 重量 (kg)	Dimensions 包装尺寸 (cm)
Xk ₄	RW5	11	100	8000	125	45	320	6.5	40X36X11.5
XK ₄	RW5	11	200	12500	125	45	320	6.5	

Outdoor High-voltage Dropout Fuse Cutouts

Porcelain Housing Dropout Fuse Cutouts



33kV-36kV

Code 代码	Type 型号	Rated Voltage 额定电压 (kV)	Rated Current 额定电流 (A)	Breaking Current 开断电流 (A)	Impulse Voltage 冲击电压 (BIL)	Power-frequency withstand voltage 工频耐压 (kV)	Leakage distance 爬距 (mm)	Weight 重量 (kg)	Dimensions 包装尺寸 (cm)
Xk ₄	RW5	33	100	6300	170	70	660	20	66X33.5X17
XK ₄	RW5	33	200	8000	170	70	660	28	



15kV-27kV

Type 型号	Rated Voltage 额定电压 (kV)	Rated Current 额定电流 (A)	Breaking Current 开断电流 (A)	Impulse Voltage 冲击电压 (BIL)	Power-frequency withstand voltage 工频耐压 (kV)	Leakage distance 爬距 (mm)	Weight 重量 (kg)	Dimensions 包装尺寸 (cm)
XK-15	15	100	6300	125	45	400	6.5	51X33X11.5
XK-15	15	200	12500	125	45	400	7	



24kV-27kV

Type 型号	Rated Voltage 额定电压 (kV)	Rated Current 额定电流 (A)	Breaking Current 开断电流 (A)	Impulse Voltage 冲击电压 (BIL)	Power-frequency withstand voltage 工频耐压 (kV)	Leakage distance 爬距 (mm)	Weight 重量 (kg)	Dimensions 包装尺寸 (cm)
HRW 12-27	27	300	25	170	70	720	8.5	73X36X16
HRW 12-27	27	400	25	170	70	720	9	



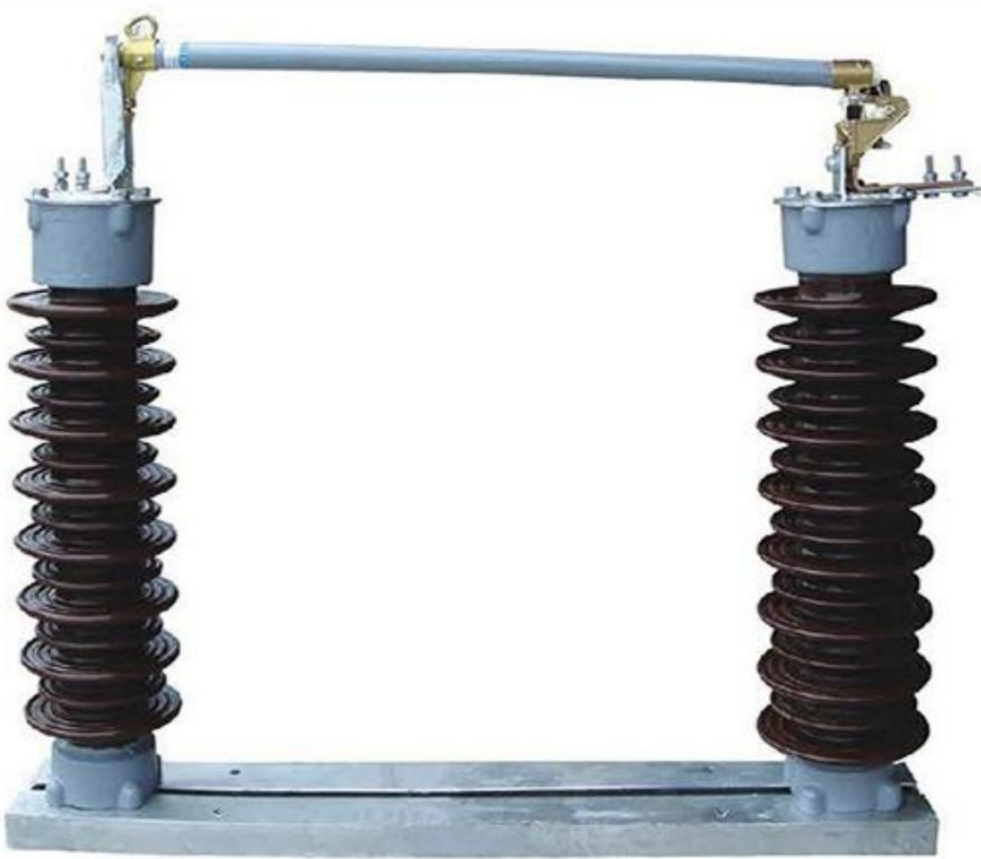
10kV-12kV

Code 代码	Type 型号	Rated Voltage 额定电压 (kV)	Rated Current 额定电流 (A)	Breaking Current 开断电流 (A)	Impulse Voltage 冲击电压 (BIL)	Power-frequency withstand voltage 工频耐压 (kV)	Leakage distance 爬距 (mm)	Weight 重量 (kg)	Dimensions 包装尺寸 (cm)
Xk ₄	RWV	11	100	8000	125	45	320	6.5	73X36X16
XK ₄	RWV	11	200	12500	125	45	320	6.5	

Outdoor High-voltage Dropout Fuse Cutouts

RW Series Porcelain Housing Dropout Fuse Cutouts

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RW6-66KV

Scope of application

1. Basic conditions of use of the product:
- ① Altitude: common type does not exceed 3000m.
 - ② The ambient temperature is not higher than +40°C and not lower than -40°C.
2. The product is not suitable for the following places:
- ① Places with burning or explosion hazards;
 - ② Places with severe vibration or impact;
 - ③ Areas with serious dirt and salt spray.

Application

RW6-66 outdoor high-voltage fuse is suitable for short-circuit and circuit protection of power transformers on 66kV transmission lines. Under certain conditions, it is suitable for no-load lines, no-load transformers and small load currents. Under certain conditions, it can pull and close no-load overhead lines, no-load transformers and small load currents.

The product structure is shown in the figure. It consists of four main parts: rod insulator, contact conductive system and fuse tube.

When the product is running, it is connected to the circuit. During normal operation, when the fuse is tensioned, the movable joints on the fuse tube are locked, so the fuse tube can be in the closed position under the pressure of the upper static contact. When the system fails, the dark current A very high pressure is formed in the pipe, and a strong vertical blow is formed along the pipe, so that the arc is rapidly elongated.

When the current crosses zero, it goes out due to strong deionization. After the fuse is blown, the lower moving contact loses tension and turns down, releasing the locking mechanism, and the fuse tube rotates and falls under the action of the elastic force of the contact and the weight of the fuse tube itself, forming a clearly visible isolation gap. The fuse tube is made of steel paper tube epoxy glass cloth composite tube, and the epoxy glass cloth is directly rolled on the steel paper tube during manufacture, so it has high mechanical strength and can ensure the rated breaking capacity to be broken smoothly for three consecutive times .

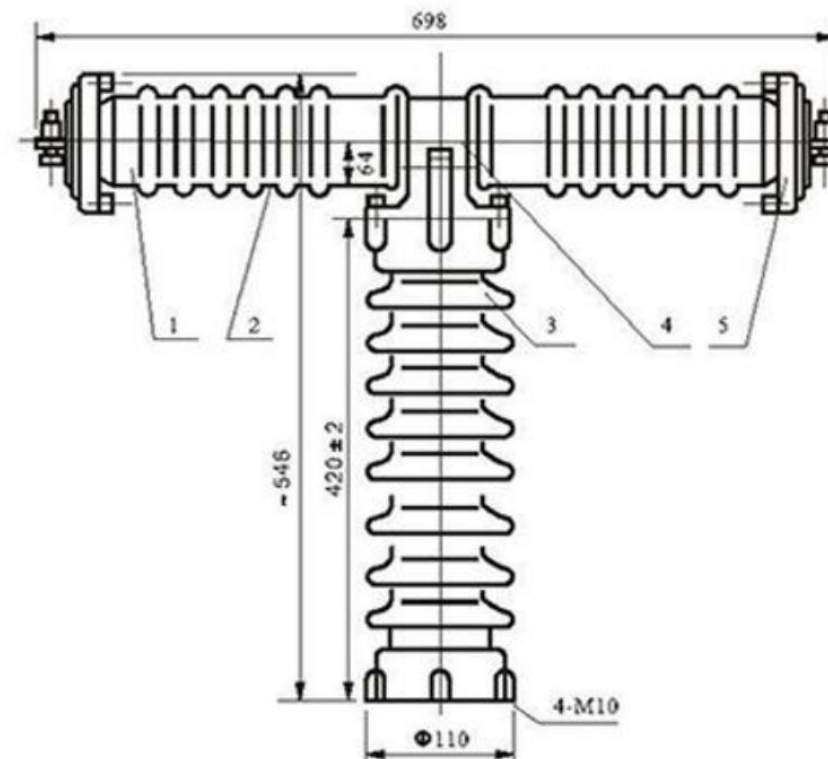
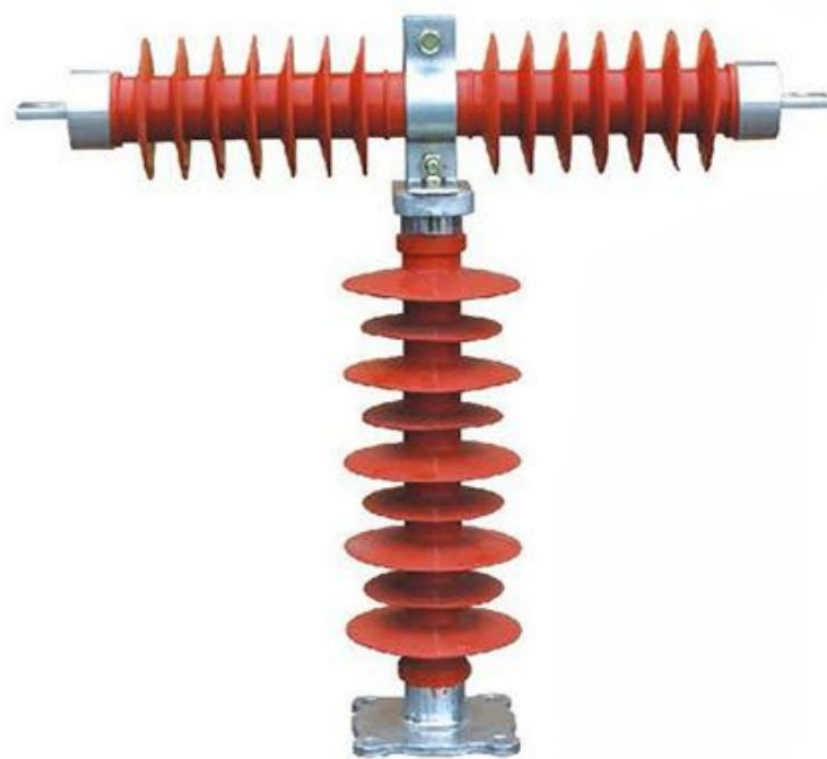
Major Technical Date

Type	Rated Voltage(kv)	Rated Current(A)	Short flow capacity upper limit(MVA)	Short flow capacity lower limit(MVA)	Weight (kg)
RW6-66KV/100A	66	100	500	20	180KG
RW6-66KV/200A	66	200	800	—	

Dropout Fuse Cutouts

High-voltage Current-limiting Fuse

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1. Fuse tube 2. Porcelain sleeve 3. Rod type post insulator 4. Fastening method 5. Terminal cap

Note Structure

The fuse is composed of a melt tube, a porcelain sleeve, a fastening method, a rod-shaped post insulator and a terminal cap.

Use the method of press-fitting to fix the terminal caps and melt tubes at both ends in the porcelain bushing, and then use the fastening method to fix the porcelain bushing on the rod-shaped post insulator. The structure description and dimensions are shown in the figure.

The melt pipe adopts the raw material with high silicon oxide content as the arc extinguishing medium, and the metal wire with small diameter is used as the fuse.

When the overload current or short-circuit current flows through the fuse tube, the fuse will be blown immediately, and the arc will occur in several parallel narrow gaps. The metal vapor in the arc will penetrate into the stone sand and be strongly dissociated, quickly dissociated.

The arc is extinguished.

Therefore, this kind of fuse has good performance and large breaking capacity.

Technical Parameter

Type	Rated Voltage (kV)	Rated Current (A)	Capacity of largest blanking of three-phase	Fuse current (A)	The max breaking current (kA)	Overtoltage multiple Do not exceed	Weight (kg)	Note
RXWO-35/0.5 RW10-35/0.5	35	0.2	1000	0.6 ~ 1.8	16	Voltage of 2.5 times of rating	23	Protection voltage transformer
RXWO-35/2 RW10-35/2	35	2	200	3 ~ 4	14		23	Protect Power Lines
RXWO-35/3 RW10-35/3	35	3	200	4.5 ~ 6	14		23	
RXWO-35/5 RW10-35/5	35	5	200	8 ~ 10	14		23	
RXWO-35/7.5 RW10-35/7.5	35	7.5	200	1 ~ 15	14		23	
RXWO-35/10 RW10-35/10	35	10	200	15 ~ 20	14		23	

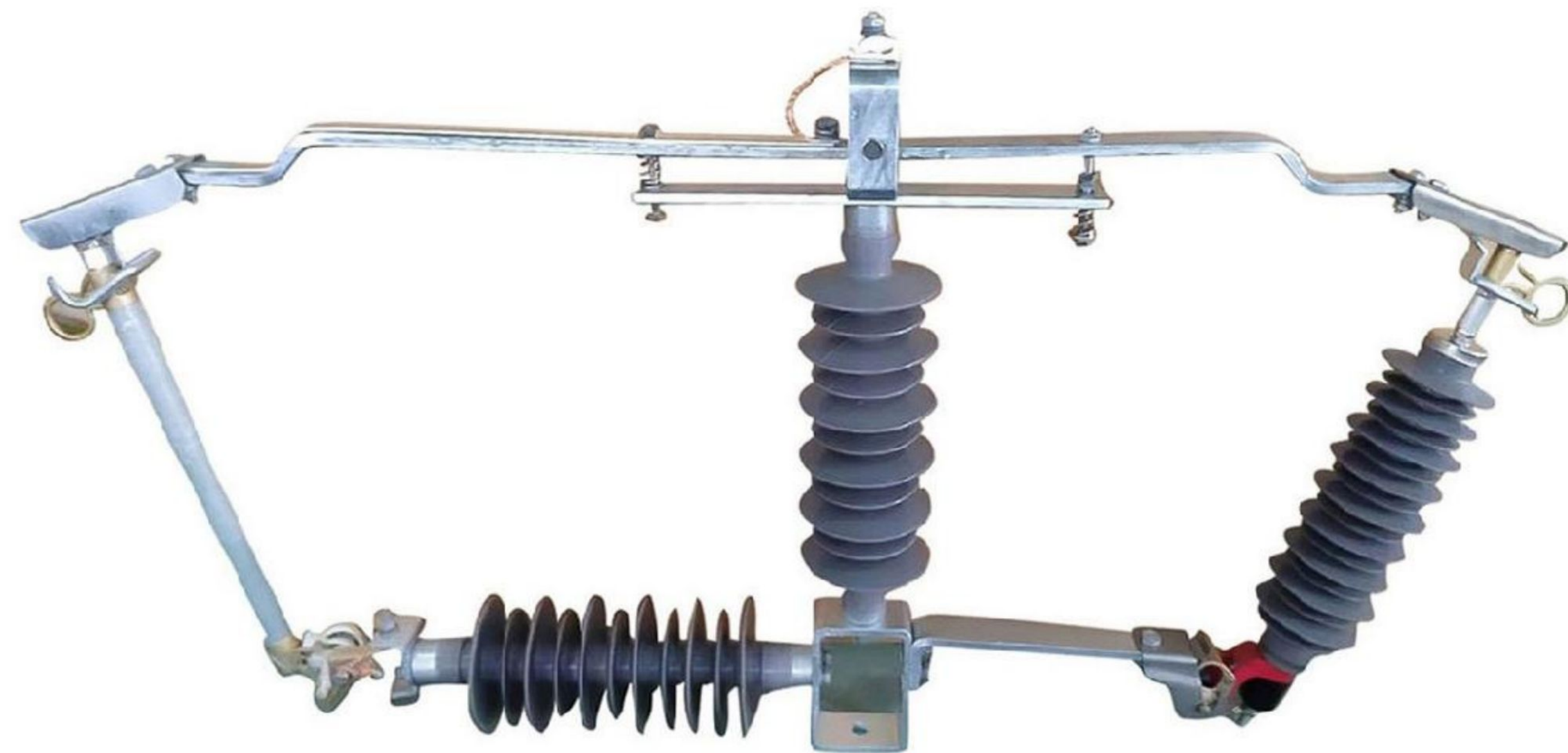
Outdoor High-voltage Dropout Fuse Cutouts

Fuse cutout and surge arrester combine

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Introduction

The Combi-cut-out is a transformer protection isolator that combines both a drop out surge arrester and fuse carrier expulsion link into one.



Surge arrester

The surge arrester housed in the Combi unit, will protect both the fuse and transformer from over voltages. In the event of a surge arrester failure the Combi unit will isolate that particular phase of the transformer thereby eliminating further over-voltage to that phase of transformer. This provides a fail to safe system to protect the transformer.

Fuse carrier

The fuse carrier will operate as to isolate an overloaded or faulty transformer. The subsequent phase is isolated when the current drawn through the fuse element exceeds the rating thereof.

Function

The Combi unit is designed to protect distribution transformers from lightning and over voltage and isolate faulty transformers. The size of the transformers it can protect are between 16kVA -- 1MVA on medium voltage networks ranging 3,3kV, 6,6kV, 12kV, 24kV up to 36kV.

Ratings

- Operating voltages - 12kV, 24kV and 36kV.
- Continuous current rating is 100A.
- Load break current on the base 7A.
- The breaking capacity is 4kA for the 12kV, 24kV & 36kV. (Greater fault levels are available on request)
- Creepage - Coastal applications

Dropout Fuse Cutouts Accessory

Fuse cutout and surge arrester combine



The operator has zero chance of falling, getting shocked or any other injury.

Replace surge arresters with a hotstick

It is much safer & more cost effective to replace a surge arrester from ground level.

Nuisance fusing eliminated

The Combi Unit configuration does not allow for error in connections of the fuse and surge arrester. The Combi Unit needs to be installed within 1 meter of the transformer and ensures that the fuse and surge arrester are connected in parallel. The fuse cannot be placed into the surge arresters holder or vice versa because they vary in length.

Convenient to maintain

The surge arrester takes 3 minutes to replace rather than 3 hours. The older, conventional surge arresters do not have live line link stick replacement features. The Combi Unit therefore enhances safety during surge arrester maintenance.

No customer outage for maintenance

Previously, surge arresters required a scheduled outage which may have taken weeks to arrange. The Combi Unit surge arrester is replaced immediately on the spot, when it requires replacement.

No customer outage for maintenance

When the surge arrester blows it isolates the phase thus ensuring that no further surges can continue to damage the transformer until a new one is installed. The user cannot turn the power on until a new surge arrester is installed. This is called unique surge arrester alert.

Outdoor High-voltage Dropout Fuse Cutouts

Other Fuse Cutouts(OEM)

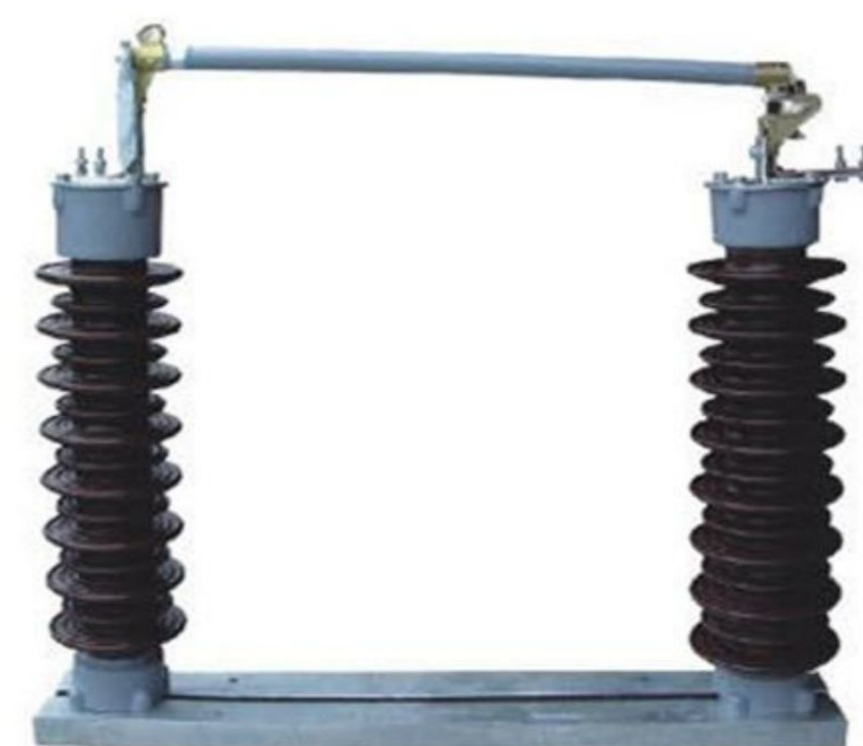
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33-36KV



33-36KV



RW6-66KV / 100A



Outdoor Enclosed Jet Fuse



12-15KV

- Widely used in transformer protection
The world's first successful research and development and put into use
Fully sealed, fully insulated
high performance, high reliability
Performance characteristics of fully insulated enclosed jet fuse:
1. The fuse has the ability to open and close the load current;
 2. The body and lead wire of the fuse adopt an integrated structure, which has a high degree of insulation;
 3. The live parts are sealed inside the ceramic sleeve to ensure long-term stable performance:
 - (1) The interior is not easy to be polluted
 - a) The electrode is not easy to rust
 - b) Insulation resistance drop due to contamination is less likely to occur
 - (2) Effectively prevent dust pollution and salt pollution.

Dropout Fuse Cutouts Accessory

Hookstick Tool

Key of Power
Electric Professional
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• Hookstick, portable loadbreak tool

HookStick is first attached to a universal pole at least six feet long. It is positioned across the front of the Cutouts, with the HookStick anchor hung on the attachment hook on the far side of the cutout. The pull ring of the fuse tube or disconnect blade is engaged with HookStick's pull-ring hook and held fast with HookStick's pull-ring of the fuse tube or disconnect blade is engaged with HookStick's pull-ring hook and held fast HookStick's pull-ring latch. As the universal pole is pulled downward with a firm, steady stroke, and as HookStick is extended to its maximum length, the cutout is opened and the current is diverted through HookStick-at the same time HookStick's opening stroke, its internal trigger trips, the charged operating spring is released, the internal contact are separated, and the circuit is positively interrupted, the only sound is that of HookStick tripping.

Circuit interruption is independent of the speed at which the HookStick tool is operated. All that is required is a smooth operating stroke until the tool is extended to its maximum length. The resetting latch the tool in the open position for removal from the cutout-and until released to reset HookStick for its next operation.

• 1. Attach

Reach across the front of the cutout and attach HookStick's anchor to the attachment hook on the far side of the cutout, and then engage its pull ring with HookStick's pull-ring hook.

HookStick's pull-ring latch prevents disengagement of the cutout pull ring and HookStick's pulling hook.

• 2. Pull

A firm, steady downward pull on HookStick-to its maximum extended length-opens the cutout in the normal manner as the current is diverted through HookStick. At a predetermined point in the opening stroke, HookStick trips, breaking the circuit positively.

• 3. Remove

HookStick is disengaged by first removing its anchor from the cutout attachment hook. Then, with the blade in the open position, HookStick is removed from the pull ring with a simple "roll-off" motion.

Dropout Fuse Cutouts Accessory

Fuse Link

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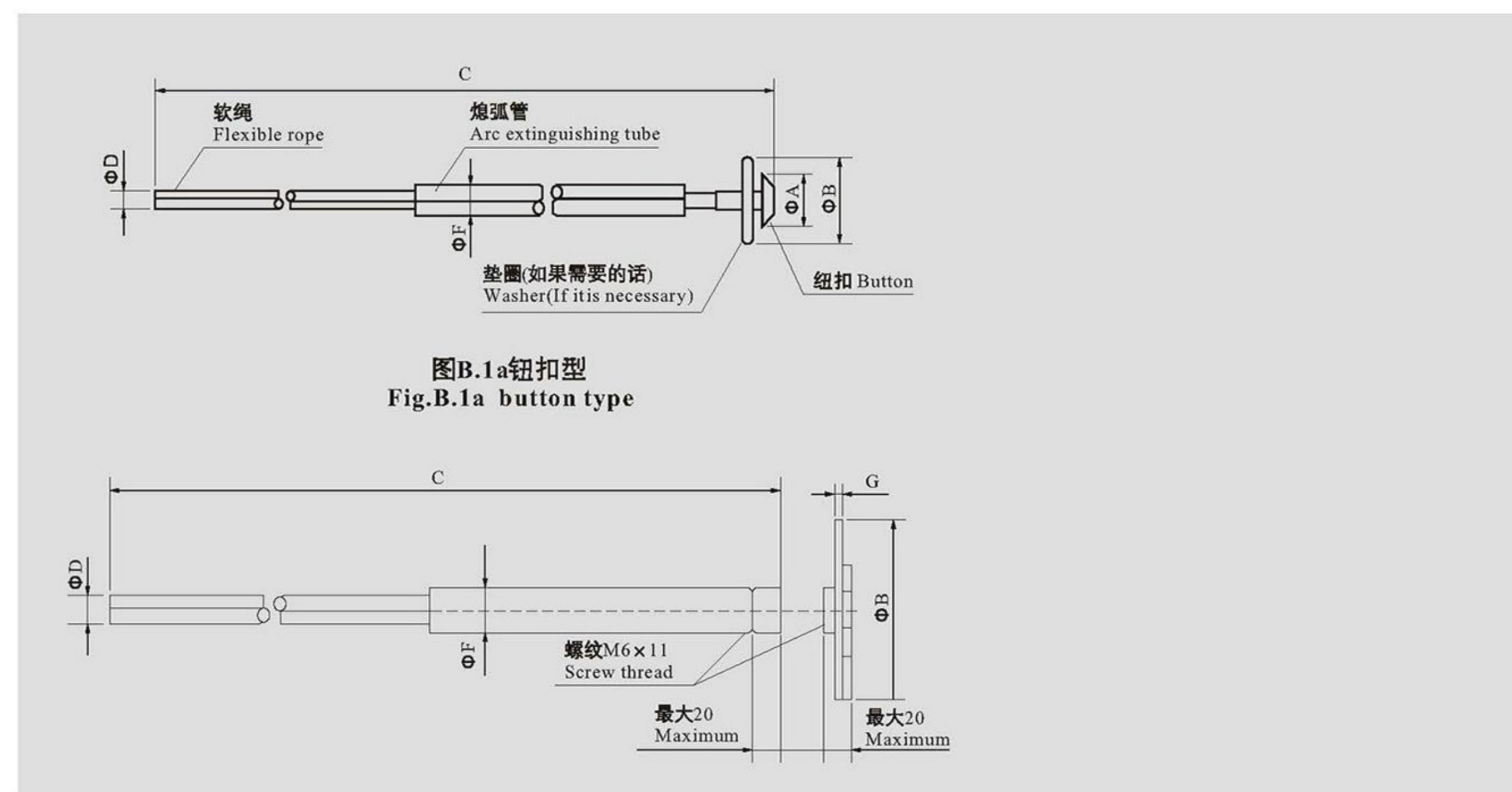


"KB、KU、KS" 型熔丝(FUSE LINK)

属“K”、“T”型熔断丝根据 IEC-282 标准,有普通式、万能式、螺纹式三种类型。此产品适用于 11~36kV 电压等级跌落式熔断器。

"KB、KU、KS" type fuses belong to "K" and "T" type fuse, it has general type, universal type and screw type available according to IEC-282 standard. The product drop-off type fuse of 11~36kV grade.

外形尺寸 Overall Dimensions



技术参数 Technical Parameter

额定电流 Rated Current (A)	尺寸 Dimension (mm)					数量/箱 Quantity/catron
	A	B	C	D	F	
1 ~ 25	12.5 ± 0.2	19.0 ± 0.2	注(Note)1	2.0	6.5	500
30 ~ 40	12.5 ± 0.2	19.0 ± 0.2		3.0	8.0	500
50 ~ 100	19.0 ± 0.3	不适用 (Not applicable)		5.0	10.0	250
140 ~ 200	19.0 ± 0.3			7.0	12.0	150

Dropout Fuse Cutouts Accessory

Fuse Link

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新型带扣熔丝

采用新型熔体“K”型熔丝化速率为6-8,“T”型熔化速率10-13,属国家资源部推广产品,广泛应用 RW10、RW11、RW20、PRWG1、PRWG2 型等跌落式熔断器。

The new type fuse link with button: The product is made of "K" type fuse link is 6-8 melting speed, and "T" type with 10-13 melting speed, these two types of are link are popularized by National Resource Department and are widely applied to RW10、RW11、RW20、PRWG1、PRWG2 type and so on drop off type fuse.

普通带扣熔丝

采用传统的银铜合金,其熔化速率为10-13,此产品适用于 RW10、RW11、RW20、PRWG1、PRWG2 等跌落式熔断器。

The general fuse link with button: The product is made of traditional silver and copper alloy, and its melting rate is 10-13. It applies to RW10、RW11、RW20、PRWG1、PRWG2 type and so on drop off type fuse.

无扣普通熔丝

采用传统的银铜合金,其熔化速率为10-13,此产品适用于 RW1-10、RW3、RW4、RW5、RW7 等跌落式熔断器。

The general fuse link with button: The product is made of traditional silver and copper alloy, and its melting rate is 10-13. The product applies to RW1-10、RW3、RW4、RW5、RW7 and so on drop-out type fuse.

新型带扣熔丝

采用新型熔体“T”型熔丝熔化速率为10-13,此产品适用于 RW6-66kV、RW5-35kV 跌落式熔断器上。

The new type fuse "T" type, and its melting rate is 10-13, it applies to RW6-66kV、RW5-35kV on drop-out type fuse.

高压电容器专用熔断熔丝

BR1、BR2、BRW、BRN、BRW2、BR、RN、RNYI、RNG、BR₂W、RW 型熔断器供10kV及以下的电力系统中的星形连接的电容器组合单台电容器的内部故障保护之用。能可靠、迅速地断开故障电容器,从而避免因电容器内部由元件击穿而引起可能的爆炸事故,使电网继续安全运行。

The special fuse for high voltage capacitor: BR1、BR2、BRW、BRN、BRW2、BR、RN、RNYI、RNG、BR₂W and RW type fuse is used as internal fault protection for single capacitor of star connection capacitor combination in 10kV and less power system, the product and disconnect the fault capacitor reliably and quickly so as to avoid explosion accident as a result of component break down inside the capacitor to ensure that the power net operates continuously and safely.

Dropout Fuse Cutouts Accessory

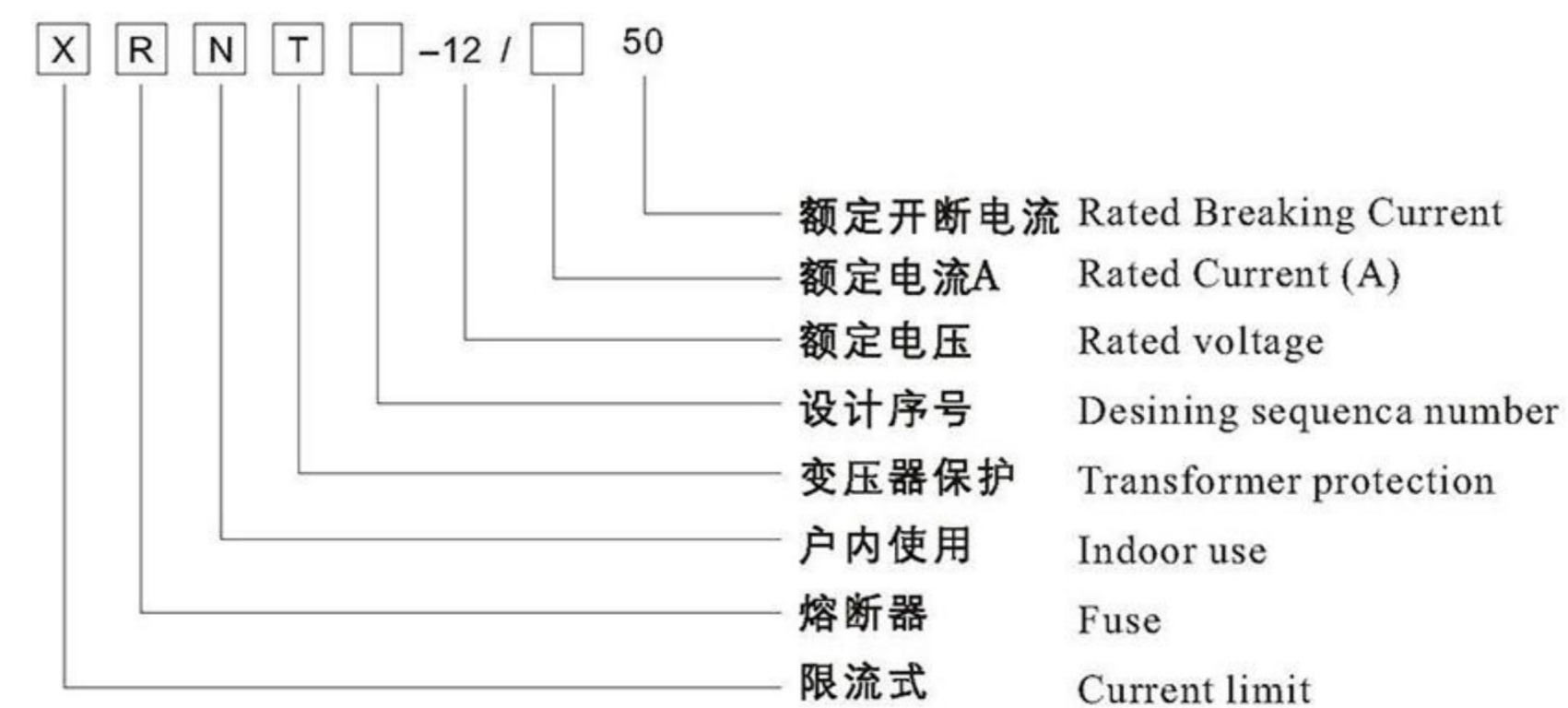
High-voltage Current-limiting Fuse

Key of Power
Electric Professional
>

本产品适用于户内交流50Hz, 额定电压12kV系统, 可与其他开关电器如负荷开关中、真空接触器配合使用, 作为电力变压器其它电力设备短路、过载的保护元件, 又是高压开关柜、环网柜、高/低压预装式变电站必备的配套产品。

It can be used in indoor system of 50Hz and rated voltage of 12kV. Used together with other switch facilities such as loading switches, vacuum contactors, it can protect electric transformers and other electric facilities against overload or circuit break. It is also a necessary accessory for high-voltage switch box, circular circuit cabinet, high/low voltage top-loading transformer substation.

国内型号 Domestic Types



同等国外型号 Abroad Counterparts



型号 Type	等同型号 Counterpart	额定电压 Rated voltage (kV)	熔断器额定电流 Rated current of the fuse(A)	熔体额定电流 Rated current of the fuse limit(A)
XRNT-12	SDLAJ	12,24,36	63	6.3,10,16,20,25,31.5,40,50,63
	SFLAJ	12,24,36	100	50,63,71,80,100
	SKLAJ	12,24,36	125	125
		12,24,36	200	160,200

Dropout Fuse Cutouts Accessory

High-voltage Current-limiting Fuse

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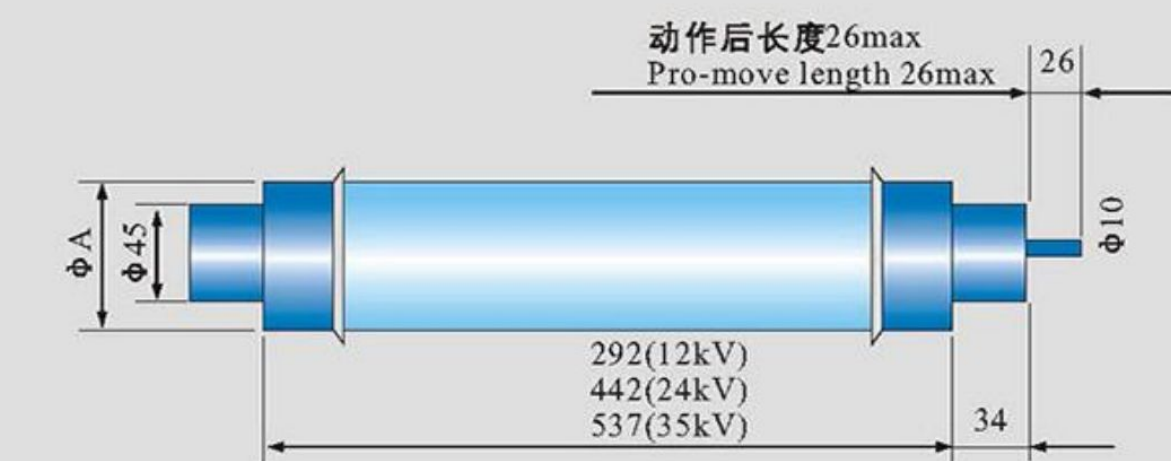


图1/a 熔断器 Chat 1/a fuselink

注: φA: 51mm (<63A) φ76mm (>40A) φ88(160A和200A)

Note: φA: 51mm (<63A) φ76mm (>40A) φ88(160A and 200A)

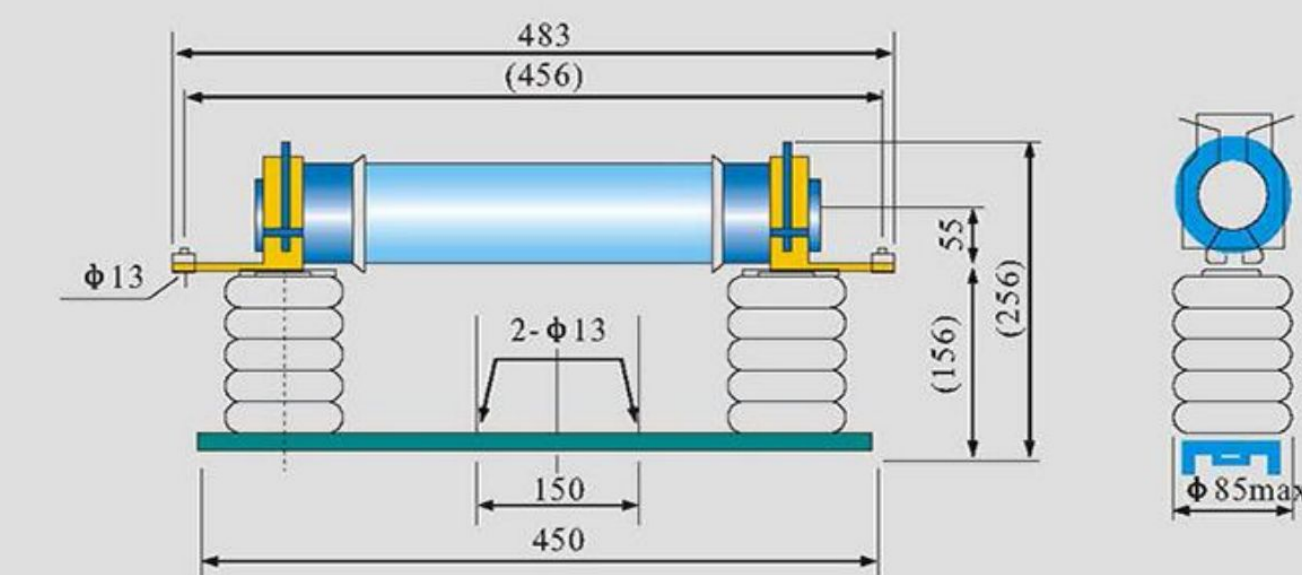
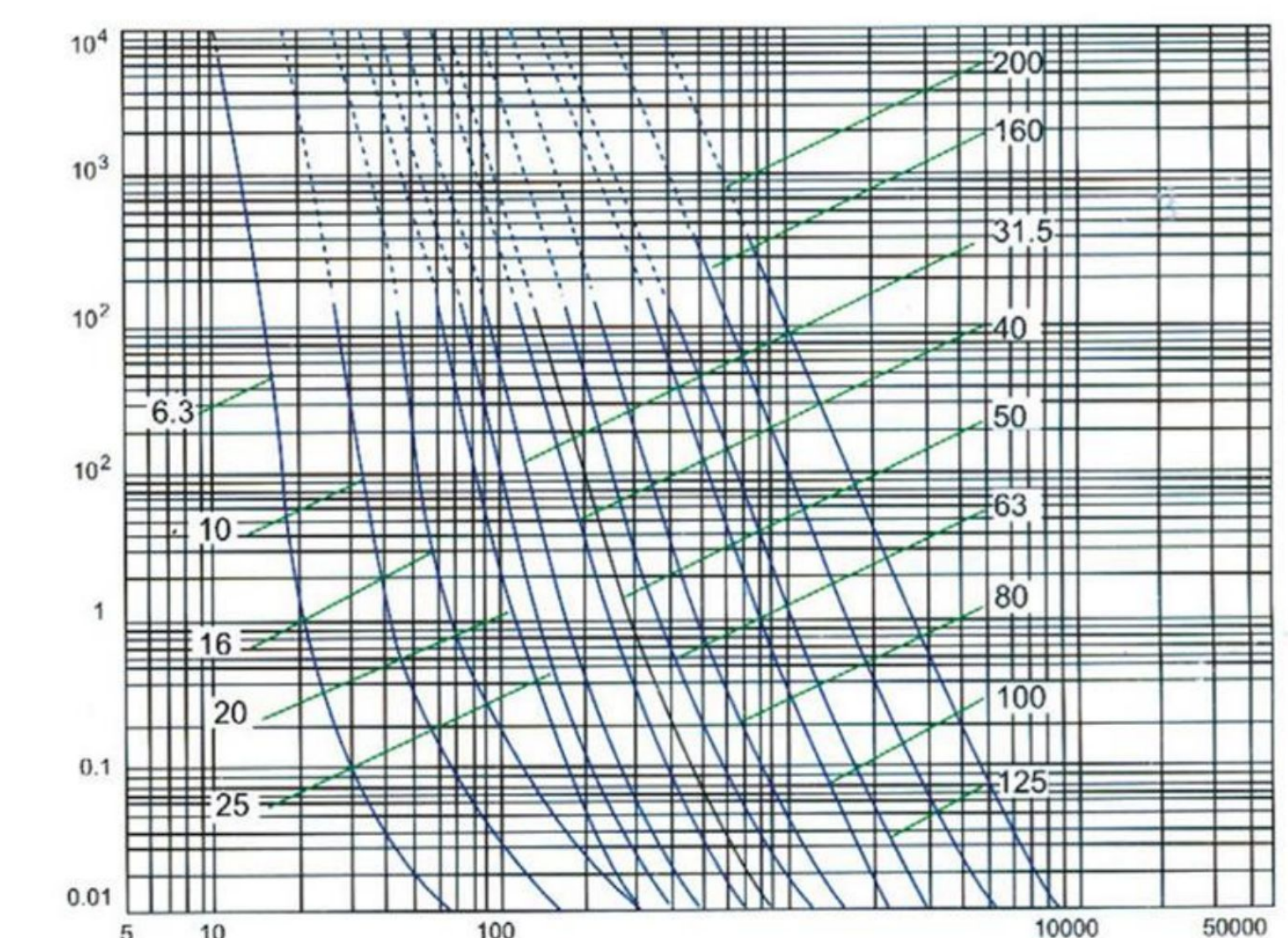


图1/b 熔断器 Chat 1/b fuselink(12KV)

主要技术数据 Major Technica Date



预期电流有效值(A): Anticipated current valid value(A)

图2 XRNT3A-12 时间-电流特性曲线

chart 2 XRNT3A-12 Time-Current Property Curve

Low Voltage Fuse

Bolting type fuse

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Dimension drawing

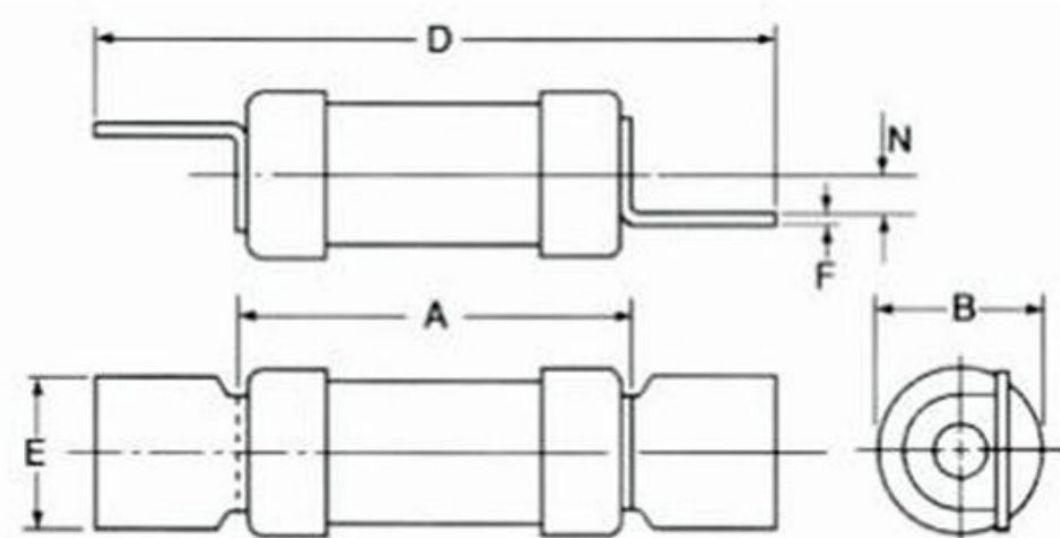


Fig. 7.1

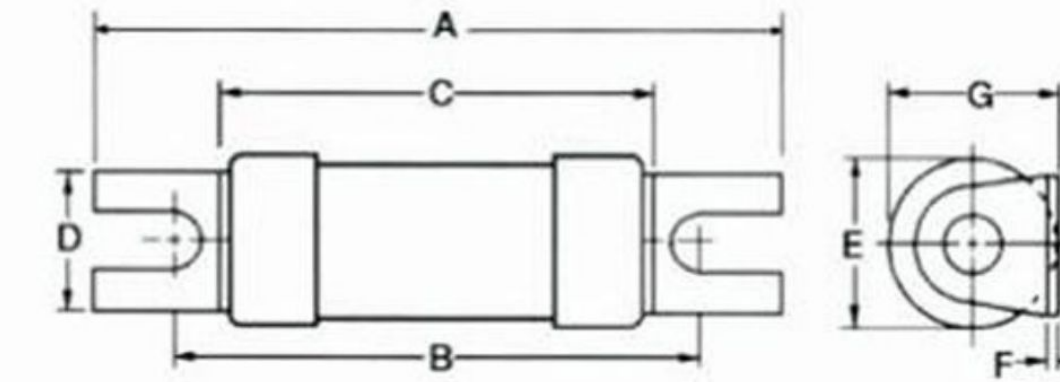


Fig. 7.2

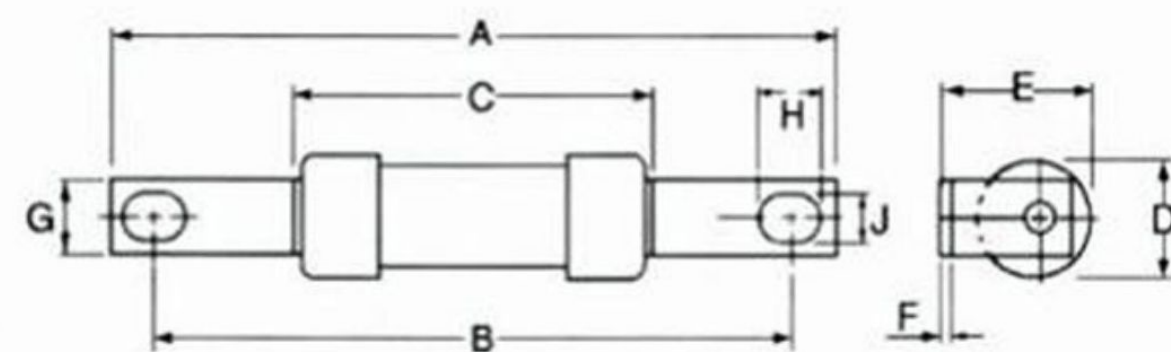


Fig. 7.3

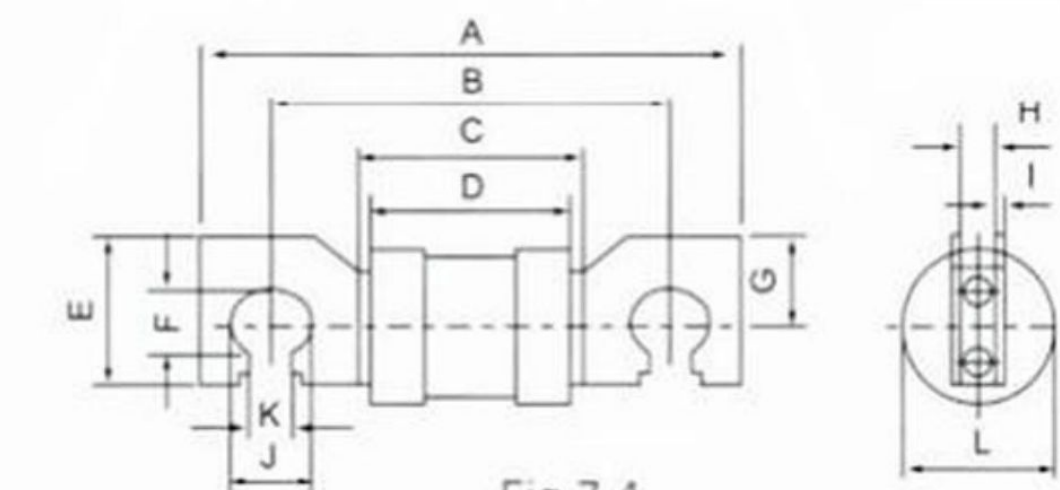


Fig. 7.4

制造等级 Size	尺寸 Dimensions(mm) Fig. 7.1					
	A	B	D	E	F	N
SSD	23.0	12.0	47.0	13.0	0.8	3.2
NSD & NSD20M	34.5	13.8	58.5	12.7	0.8	3.5
NSD20M36 & NSD32M	34.5	17.5	58.5	12.7	0.8	3.5
ESD-32A	35.5	13.8	68.0	15.0	12	3.5
ESD40-63A	35.5	17.5	68.0	15.0	12	3.5
ESD63M	35.5	21.0	68.0	15.0	12	3.5

制造等级 Size	尺寸 Dimensions(mm) Fig. 7.2						
	A	B	C	D	E	F	G
NITD	55.0	44.0	34.6	11.2	13.8	0.8	14.0
NITD32M	55.0	44.0	35.6	11.2	17.5	1.2	18.5

制造等级 Size	尺寸 Dimensions(mm) Fig. 7.2									
	A	B	C	D	E	F	G	H	J	
AAO	85	73	35.5	13.7	14.0	1.2	8.7	8.0	5.5	
AAO32M	85	73	54.5	21.0	22.3	1.2	8.7	8.0	5.5	
BAO	87	73	54.5	21.0	22.5	1.2	12.7	8.0	5.5	
BAO63M	87	73	54.5	21.0	22.5	1.2	12.7	8.0	5.5	
CEO	110	94	58.5	21.0	24.5	3.2	14.3	11.0	8.7	
CEO100M 125 & 160	110	94	58.5	25.8	26.8	3.2	14.3	11.0	8.7	
CEO100M200	110	94	47.0	31.0	29.5	3.2	19.0	10.0	9.0	
OSD	95.0	73	54.5	21.0	22.5	1.2	12.7	8.0	5.5	
OSD100M	95.0	73	54.5	26.0	25.7	1.2	12.7	8.0	5.5	
DEO	110	110	47.0	31.0	29.5	3.2	19.0	10.0	9.0	
DEO200M	110	110	47.0	31.0	29.5	3.2	19.0	10.0	9.0	

制造等级 Size	尺寸 Dimensions(mm) Fig. 7.2											
	A	B	C	D	E	F	G	H	I	J	K	L
J-82(≤300A)	110	82	45.2	40.5	30	14.8	18	6.5	2.4	17.5	9.8	31
J-82(>300A)	110	82	44.8	40	30	14.4	18	6.5	2.4	17.5	9.8	38
J-92	131	92	46.8	40	39	17.4	20.7	8.7	3.2	20.7	10.9	38

Low Voltage Fuse

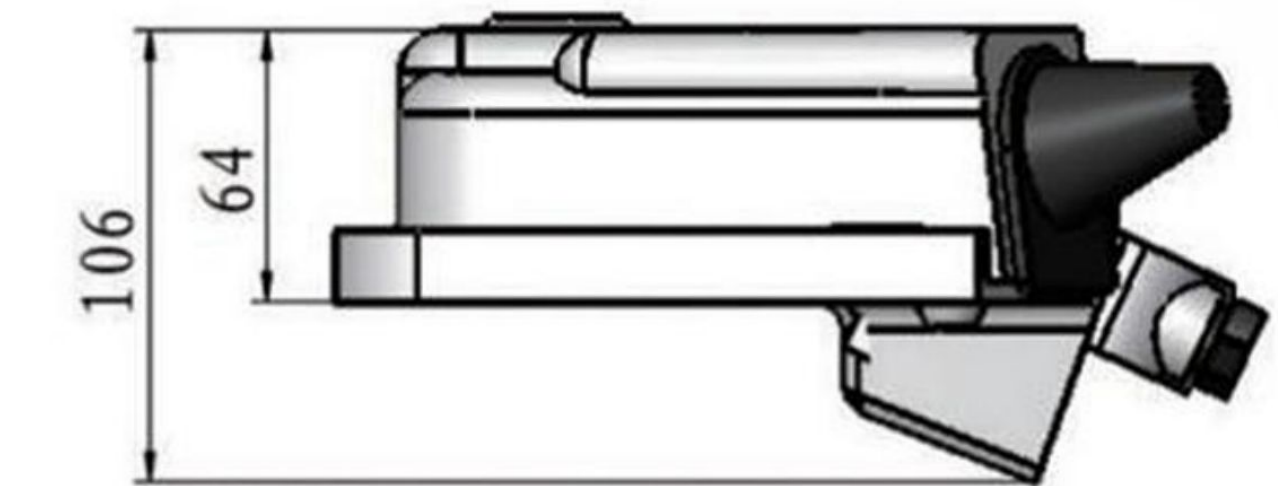
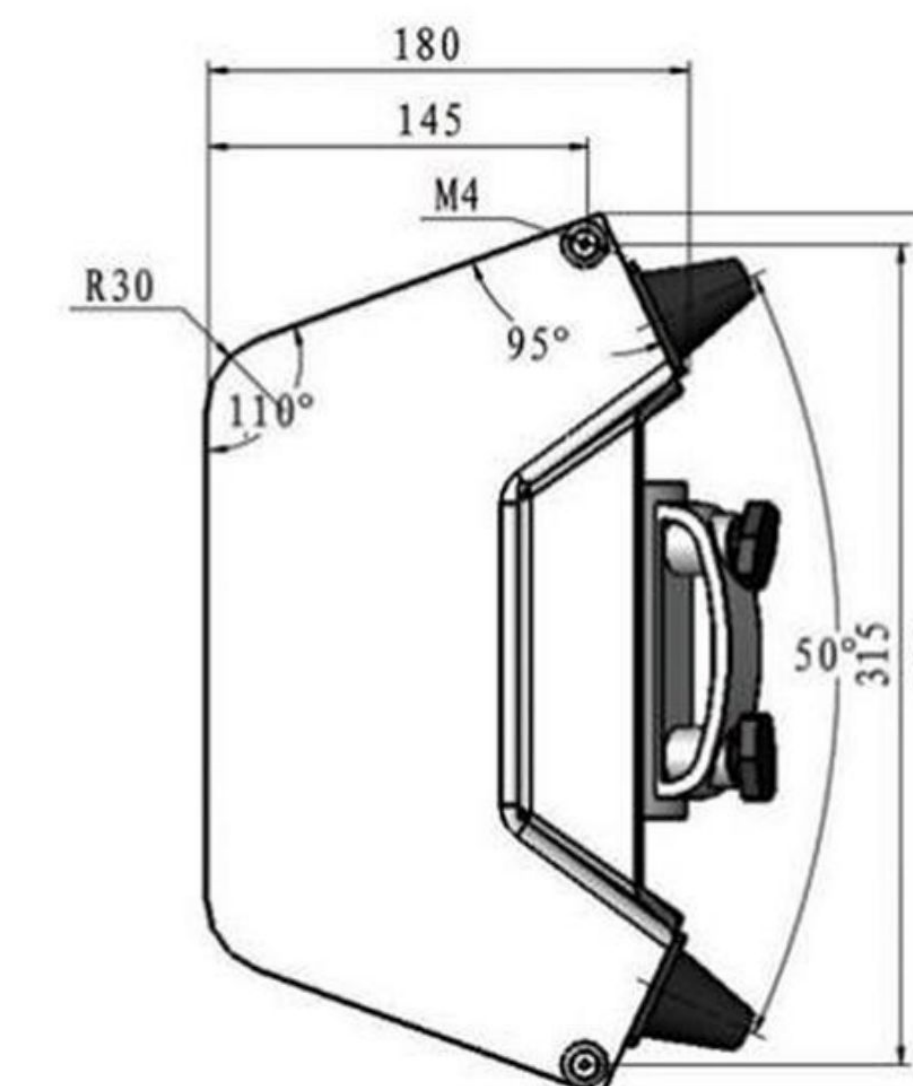
Bolting fuse holder

Key of Power
Electric Professional
>

This series fuse holder is suitable for J types 82mm fuse link, rated current to 400A. It is mainly used for protecting the electrical circuit against overload and short circuits (gG/gL); it also may derive for protecting the semiconductor device and others complete set installment from short-circuit (aR) as well as the electric motor from short-circuit (aM). The rated breaking capability for this series fuse is to 415V 80KA. This series fuse conforms to national standard GB13539 and international electrical committee standard IEC60269.



Dimension drawing



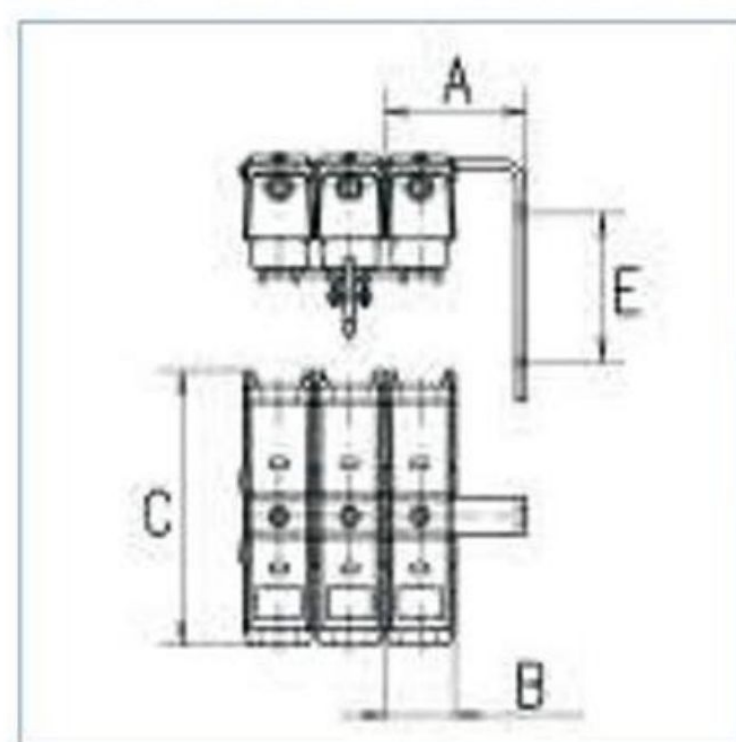
Low Voltage Fuse

Low-voltage fuse switch disconnectors

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Disconnecting fuse switch Modular type for Al- and Cu-strands

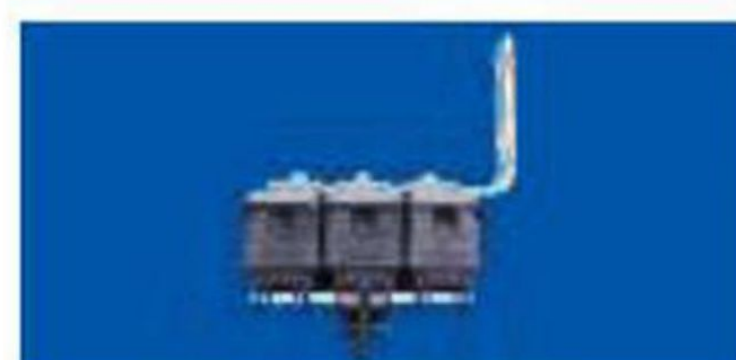
The number and design of the elements can be chosen according to the following numbering system.



Material: glassfibre reinforced polyamide
aluminium-alloy
copper, tinned
steels, hot dip galvanized

L.-Nr.	Dimensions in mm				kg
	C	B	A	E	
FSD00	235	65	115	90	1,5
FSD 1-2	300	80	160	200	2,00

The number of disconnecting elements needed can be chosen specifically to the customer's requirements. For this purpose, there are the corresponding connecting links. To describe the variations which are available the numbering system is shown below.



Numbering system

Number 1 to 3	L.-Nr.	Size	Modular types
	562	160A/00	Individual operation of all segments
	564	160A/00	To operate together
	566	400A/1-2	Individual operation of all segments
	568	400A/1-2	To operate together

Number 4 to 5	L.-Nr.	Number of phases
	1/	1 phase; no neutral
	2/	2 phase; no neutral
	3/	3 phases; no neutral
	1N	1 phase and 1 neutral link
	2N	2 phases and 1 neutral link
	3N	3 phases and 1 neutral link

Number 6	L.-Nr.	Number of terminals	
		Incoming	Outgoing
	1	1	1
	2	1	2
	3	2	1
	4	2	2

Number 7 to 9	L.-Nr.	Composition of terminals
	VC1	V-terminal with counter piece Cu; 1 bolt
	VI1	V-terminal with counter piece Cu; 1 socket head screw
	L13	Connection with cable lug 13mm

Number 10	L.-Nr.	Indicator
	A	Inspection glass, transparent
	B	Mechanical indicator, yellow
	D	Signal lamp in case fuse is failing
	E	Mechanical indicator, yellow and signal lamp in case fuse is failing

Low Voltage Fuse

Low-voltage fuse switch disconnectors

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Low-voltage fuse switch Disconnectors

Xiya's fuse switch Disconnectors provide safe controlled disconnection of electrical power to individual users and power units in combination with short circuit devices, that allows safe maintenance intervention by protecting against short circuit and earth current leakage.

The fuse switch Disconnectors consist of a glass fibre reinforced plastic housing and a dismantable switch flap which contains the fuses. The base body carries the connecting terminals which connects the fuse contacts. Arc suppressing chambers above the fuse contacts limit and quench the power arc that may occur during switching, preventing thermal overload of the fuse switch connector. Both aluminium and copper conductors can be connected to the disconnector.

The switch flaps are equipped with fuse holders suitable for NH fuse inserts, disconnecting links or short-circuit devices.



Xiya also offers fuse switch Disconnectors in **compact design** (3 phases + neutral conductor in one housing) in addition to **modular designs**. These provide the user with multiple phase options, including an additional neutral conductor, and offers the user in opportunity to switch individual phases, or all phases simultaneously.

The two types of the fuse switch Disconnector are available for different NH fuses:

FSD-00: for NT Fuse Size 00 (max. 160 A)
for disconnecting blades of no more than max. 250 A



Modular design

FSD-1-2: for NT Fuse Size 1 (max. 250 A)
for NT Fuse Size 2 (max. 400 A)
for disconnecting blades of no more than max. 630 A

Both sizes offer various connection possibilities, are completely weather-proof and offer touch safe contact for wild life. A mechanical and electrical fuse indicator option that shows if fuses are mounted and ready for use can be specified.

Xiya offer a full range of adapters for different types of operating systems, including additional attachment available on request.

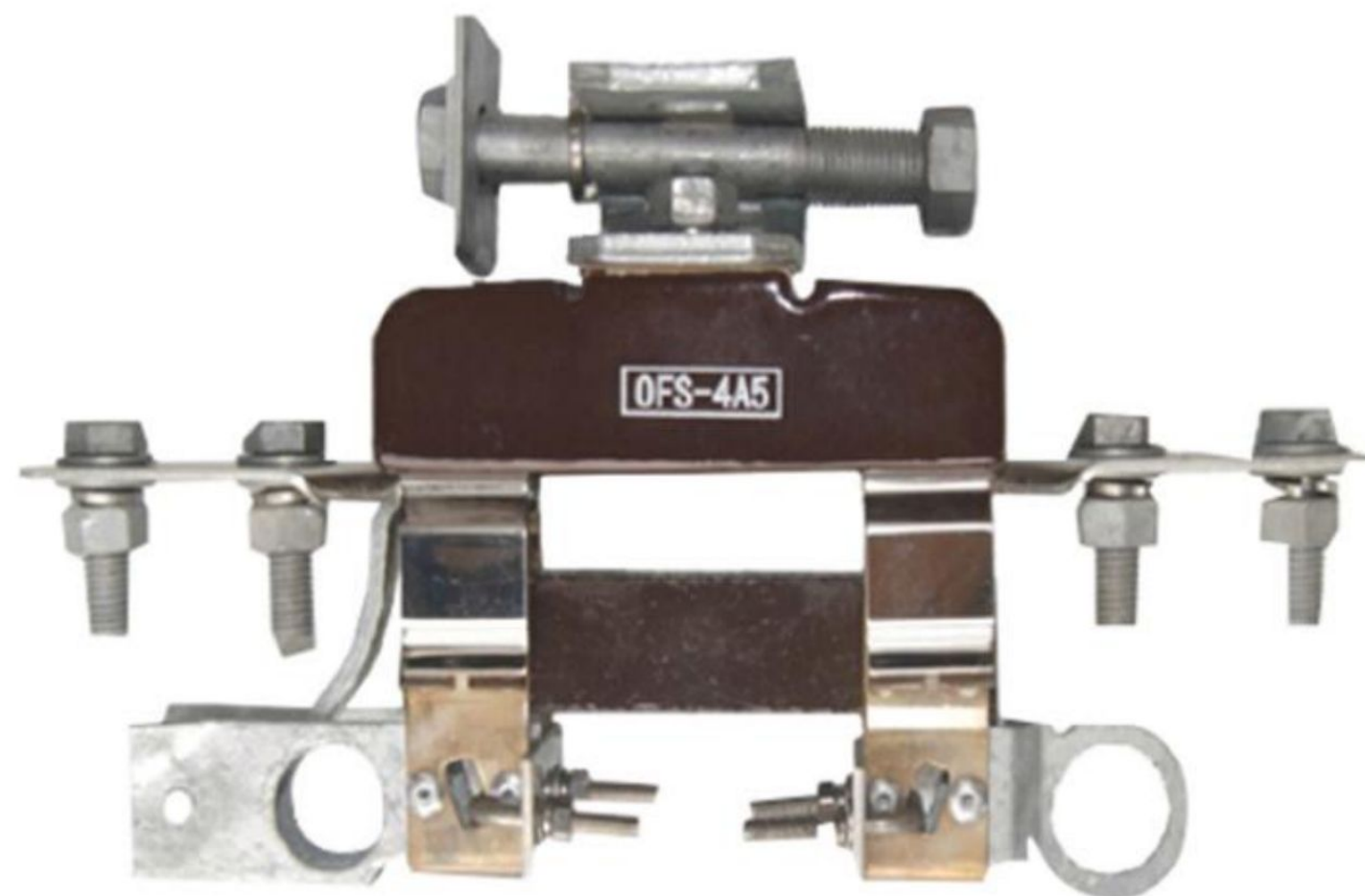


Cross section through a disconnector chamber

Low Voltage Fuse

OFS-4A5 Low Tension Fuse Switch

Key of Power
Electric Professional
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Introduction

Low tension fuse switch is designed and manufactured according to IEC 60947-3. OFS-4A5 is single pole and single throw switch type.

It is nonenclosure fuse switch which suitable for outdoor installation.

They are available for low tension HRC fuse that accordance to IEC 60269-2-1 series Section I-Fuse with fuse link with blade contacts size 0,1,2 and Section II-Fuse with fuse link for bolted connection size B0,B1,B2,B3,B4. It is utilization categories AC-22B that mean it can switching on mixed resistive and inductive load, including moderate overload. OFS-4A5 is suitable for installation on cross-arm 100x100 mm cross-section, in horizontal underhung position.

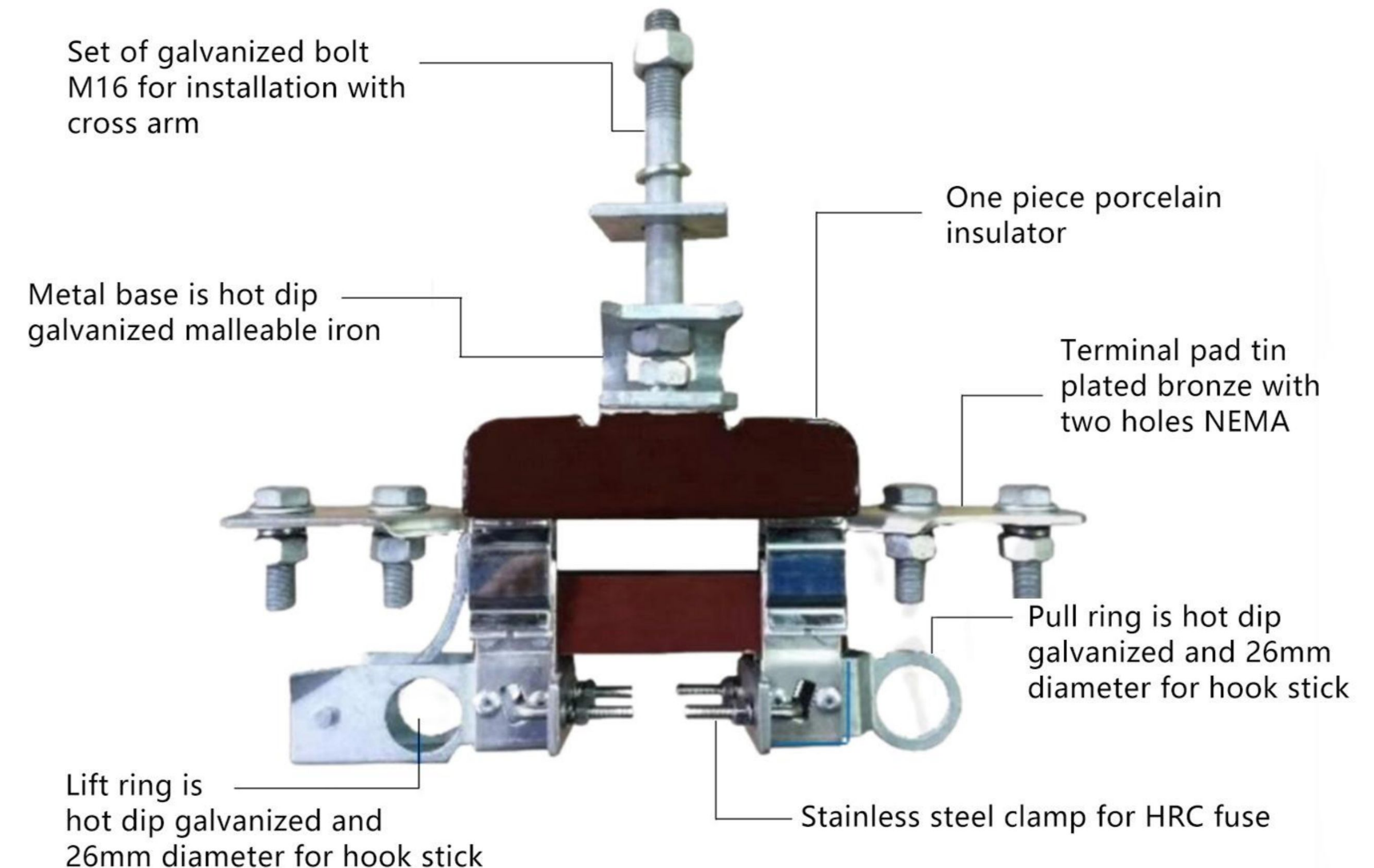
Technical data

Volt(V)	Ampere(A)	IC(kA)	BIL(kV)	Catalog number
500	400	80	12	OFS-4A5

Low Voltage Fuse

OFS-4A5 Low Tension Fuse Switch

Key of Power
Electric Professional
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Standard Feature

- Design and manufacture accordance to IEC60947-3
- Suits HRC fuse bolted connections type size B1 to B4 and blade contacts type size 0 to 2 accordance to IEC60269-2-1
- Single pole -Single throw switch
- Rated maximum voltage 500V and 400A maximum current
- Suits NEMA PAD 2 Hole terminal
- Suits standard hook-sticks
- On-load switching capability