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Drop-out Fuse Cutout Series

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HV Drop Out Fuse Cutout

General

Drop Out Fuse Cutout is a kind of outdoor high voltage protection device. It is connected with the incoming feeder of the distribution transformer or distribution lines and primarily used to protect transformers or lines against the impact raised by short circuit, overload and switching current. The drop-out fuse cutout is composed of insulator support and a fuse carrier, static contacts that are fixed on two sides of insulator support and moving contact installed on two ends of fuse carrier. The interior of the fuse carrier is the extinguishing tube while the exterior is made of phenolic compound paper tube or epoxy glass.

During normal operation, the fuse link is tightened to form the closing position. In fault current situation, the fuse link melts and an electrical arc is formed. The arc-extinguishing tube is heated and explosion of gas occurs which causes high pressure inside the fuse carrier tube and makes the tube to separate from the contacts. The contact is relaxed once the fuse element melts.

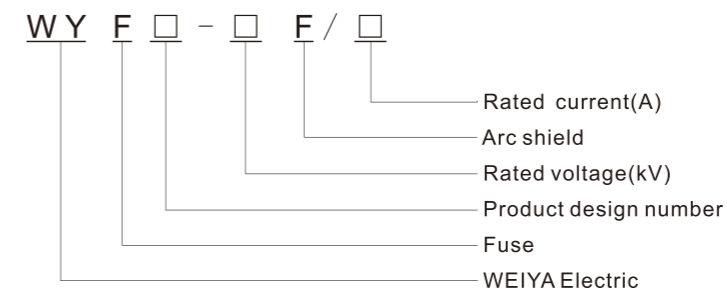
The fuse cutout is now in the open position, the operator needs to switch the current off. The moving contact can be pulled off by an insulated hot sticker. The main contact and auxiliary contact are connected.

Conditions of Application

Ambient environment:

- a) Temperature: $-40^{\circ}\text{C} \leq T \leq 40^{\circ}\text{C}$
- b) Altitude above sea level: $\leq 1000\text{m}$
- c) Max. wind speed: $\leq 35\text{m/s}$
- d) Earthquake intensity: ≤ 8 degree

Product Description

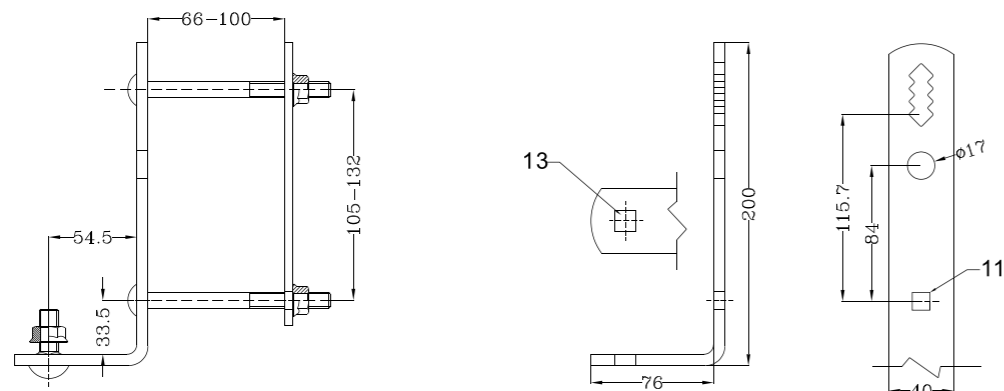
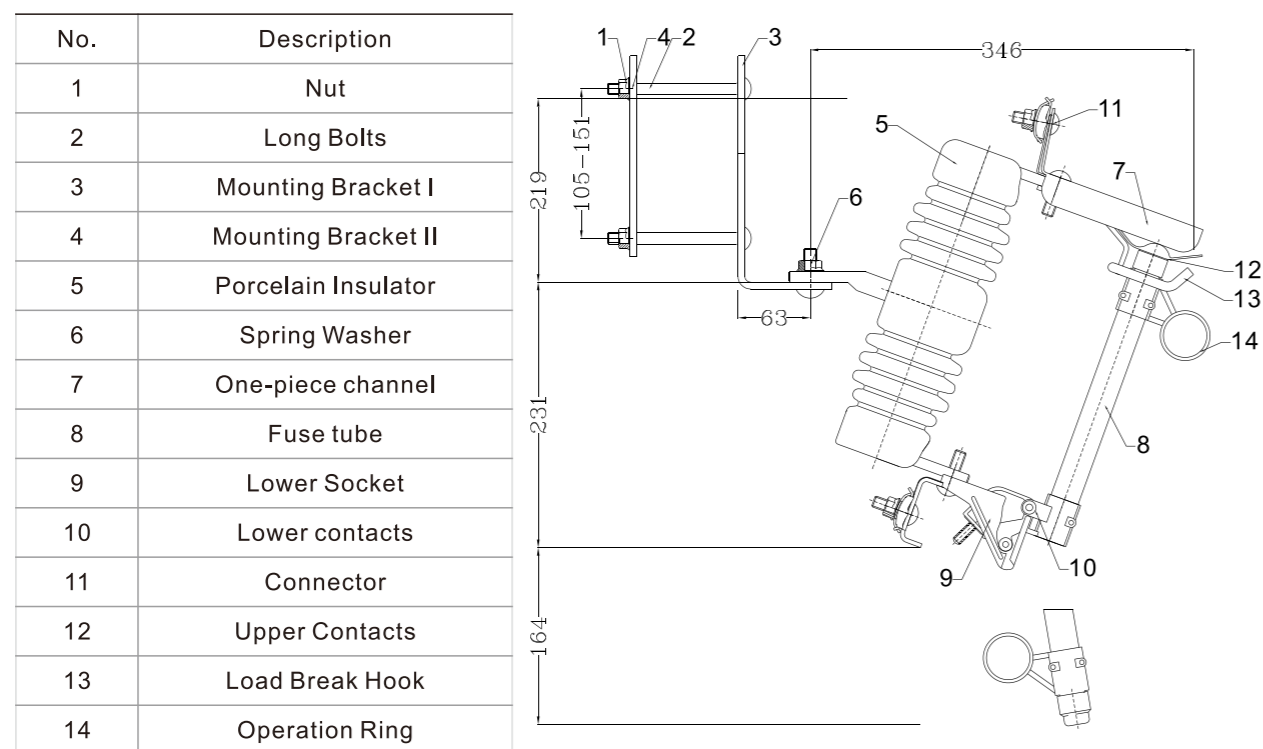


Standard

WYF type design and test meet the following standard requirements:

- NEMASG-2-1986
- ANSIC37.41.1994
- ANSIC37-42-1989 GB
- GB 15166.3-1994
- DL/T 640-1997

Structural Diagram



WYF-1



WYF-2



WYF-3

Type	Rated Voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (kV)	Power-frequency withstand voltage(kV)	Creepage distance (mm)	Weight (kg)	Dimensions (cm)
WYF-1	10-12	100	10,000	110	42	245	6.5	38.5×34.5×10.5
	10-12	200	12,000	110	42	245	6.5	38.5×34.5×10.5
WYF-2	10-12	100	10,000	110	40	250	7	38.5×34.5×10.5
	10-12	200	12,000	110	40	250	7	38.5×34.5×10.5
WYF-3	10-12	100	6,000	110	40	340	7.5	49×27×11
	10-12	200	8,000	110	40	340	7.5	49×27×11



WYF-4



WYF-5



WYF-6

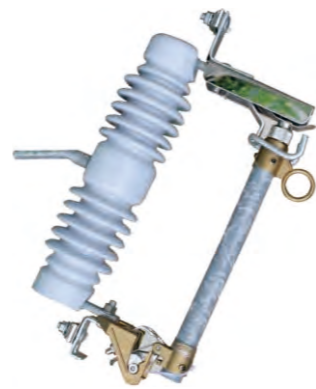
Type	Rated Voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (kV)	Power-frequency withstand voltage(kV)	Creepage distance (mm)	Weight (kg)	Dimensions (cm)
WYF-4	10-12	100	10,000	110	40	245	8	48.5×44.5×13.5
	10-12	200	12,000	110	40	245	8	48.5×44.5×13.5
WYF-5	10-12	100	10,000	110	40	250	7.3	39.5×36.5×10.5
	10-12	200	12,000	110	40	250	7.3	39.5×36.5×10.5
WYF-6	10-12	100	10,000	110	40	245	7	38.5×34.5×10.5
	10-12	200	12,000	110	40	245	7	38.5×34.5×10.5



WYF-7



WYF-8



WYF-9

Type	Rated Voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (kV)	Power-frequency withstand voltage(kV)	Creepage distance (mm)	Weight (kg)	Dimensions (cm)
WYF-7	10-12	100	10,000	110	40	245	6.8	38.5×34.5×10.5
	10-12	200	12,000	110	40	245	6.8	38.5×34.5×10.5
WYF-8	10-12	100	10,000	110	45	350	3.8	45×34×11.5
	10-12	200	12,000	110	45	350	3.8	45×34×11.5
WYF-9	15	100	10,000	125	45	350	8.2	51.5×34×12
	15	200	12,000	125	45	350	8.2	51.5×34×12



WYF-13



WYF-14



WYF-15

Type	Rated Voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (kV)	Power-frequency withstand voltage(kV)	Creepage distance (mm)	Weight (kg)	Dimensions (cm)
WYF-13	15	100	10,000	125	45	350	9.5	51.5×34×12
	15	200	12,000	125	45	350	9.5	51.5×34×12
WYF-14	15	100	10,000	125	45	320	9.5	45×34.5×12
	15	200	12,000	125	45	320	9.5	45×34.5×12
WYF-15	15	100	6,300	110	42	380	8	49×34×11
	15	200	8,000	110	42	380	8	49×34×11



WYF-10



WYF-11



WYF-12

Type	Rated Voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (kV)	Power-frequency withstand voltage(kV)	Creepage distance (mm)	Weight (kg)	Dimensions (cm)
WYF-10	15	100	10,000	125	45	350	8.5	45×34.5×12
	15	200	12,000	125	45	350	8.5	45×34.5×12
WYF-11	15	100	10,000	125	45	350	11	50×34×12
	15	200	12,000	125	45	350	11	50×34×12
WYF-12	15	100	10,000	125	45	350	9	51.5×34.5×12
	15	200	12,000	125	45	350	9	51.5×34.5×12



WYF-16



WYF-17



WYF-18

Type	Rated Voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (kV)	Power-frequency withstand voltage(kV)	Creepage distance (mm)	Weight (kg)	Dimensions (cm)
WYF-16	15	100	6,300	110	42	350	8.8	61×42×13
	15	200	8,000	110	42	350	8.8	61×42×13
WYF-17	15	100	10,000	125	45	380	4.5	49×25×12
	15	200	12,000	125	45	380	4.5	49×25×12
WYF-18	24-27	100	10,000	150	65	560	5.5	51×34×14.5
	24-27	200	12,000	150	65	560	5.5	51×34×14.5



WYF-19



WYF-20



WYF-21

Type	Rated Voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (kV)	Power-frequency withstand voltage(kV)	Creepage distance (mm)	Weight (kg)	Dimensions (cm)
WYF-19	24-27	100	10,000	150	65	560	7	51×34×14.5
	24-27	200	12,000	150	65	560	7	51×34×14.5
WYF-20	24-27	100	8,000	150	50	530	12	48.5×34.5×15
	24-27	200	10,000	150	50	530	12	48.5×34.5×15
WYF-21	24-27	100	8,000	150	65	520	12	48×34.5×14
	24-27	200	10,000	150	65	520	12	48×34.5×14



WYF-25



WYF-26



WYF-27

Type	Rated Voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (kV)	Power-frequency withstand voltage(kV)	Creepage distance (mm)	Weight (kg)	Dimensions (cm)
WYF-25	33-36	100	10,000	170	70	720	14.5	63×38×14.5
	33-36	200	12,000	170	70	720	14.5	63×38×14.5
WYF-26	33-36	100	10,000	170	70	900	14.8	61×38×15.5
	33-36	200	12,000	170	70	900	14.8	61×38×15.5
WYF-27	33-36	100	10,000	170	70	720	7.5	61×34×11.5
	33-36	200	12,000	170	70	720	7.5	61×34×11.5



WYF-22



WYF-23



WYF-24

Type	Rated Voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (kV)	Power-frequency withstand voltage(kV)	Creepage distance (mm)	Weight (kg)	Dimensions (cm)
WYF-22	24-27	100	8,000	150	65	520	13	58×44.5×17
	24-27	200	10,000	150	65	520	13	58×44.5×17
WYF-23	24-27	100	8,000	150	65	530	12	49×35×14
	24-27	200	10,000	150	65	530	12	49×35×14
WYF-24	33-36	100	6,000	170	70	660	14	56×38×14.5
	33-36	200	8,000	170	70	660	14	56×38×14.5



WYF-28



WYF-29



WYF-30

Type	Rated Voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (kV)	Power-frequency withstand voltage(kV)	Creepage distance (mm)	Weight (kg)	Dimensions (cm)
WYF-28	35-38	100	6,300	175	95	1145	16	90×40×13
	35-38	200	8,000	175	95	1145	16	90×40×13
WYF-29	33-36	100	8,000	170	70	820	27.5	68×17×15
	33-36	200	10,000	170	70	820	27.5	68×17×15
WYF-30	33-36	100	6,300	170	70	870	16	90×40×13
	33-36	200	8,000	170	70	870	16	90×40×13

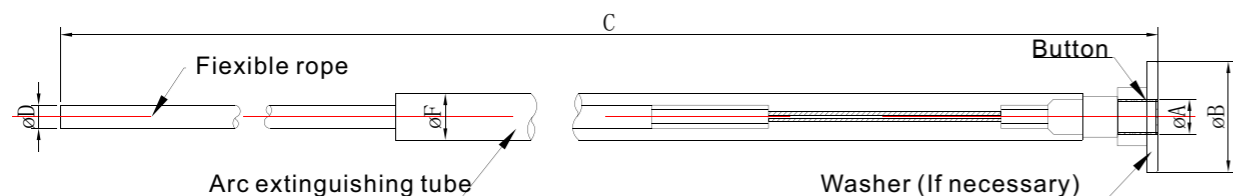
Fuse Link / Element for Drop Out Fuse Cutout

General

"K" and "T" type fuse links / elements are divided into "KB, KU, KS" sub-types fuse links / elements which refers to general type, universal type and screw type per IEC-282 standard. They are applicable to drop-out fuse cutout with 11-36kV.

1. Latest model with button: it is made of "K" type fuse link with 6-8 melting speed and "T" type with 10-13 melting speed. They are widely used for drop out fuse cutout - WYF 1, 2, 4-14, 17-27.

2. General model with button: it is made of traditional silver and copper alloy with melting rate of 10-13. It applies to drop out fuse cutout - WYF 3, 15, 16, 28, 29, 30.



Rated current (A)	Dimension(mm)					Qty/CTN
	A	B	C	D	F	
1~25	12.5±0.2	19.0±0.2	Note 1	2.0	6.5	500
30~40	12.5±0.2	19.0±0.2	Note 1	3.0	8.0	500
50~100	19.0±0.3	N/A	Note 1	5.0	10.0	250
140~200	19.0±0.3	N/A	Note 1	7.0	12.0	150

Note 1: Lengths of the Expulsion Fuse links are 530mm~660mm and 787mm for 11kV~27kV and 33kV~38kV.