CECI
www.gridinsulators.com

sales@gridinsulators.com

+86-371-61311983 / +86-18937178812

Molly

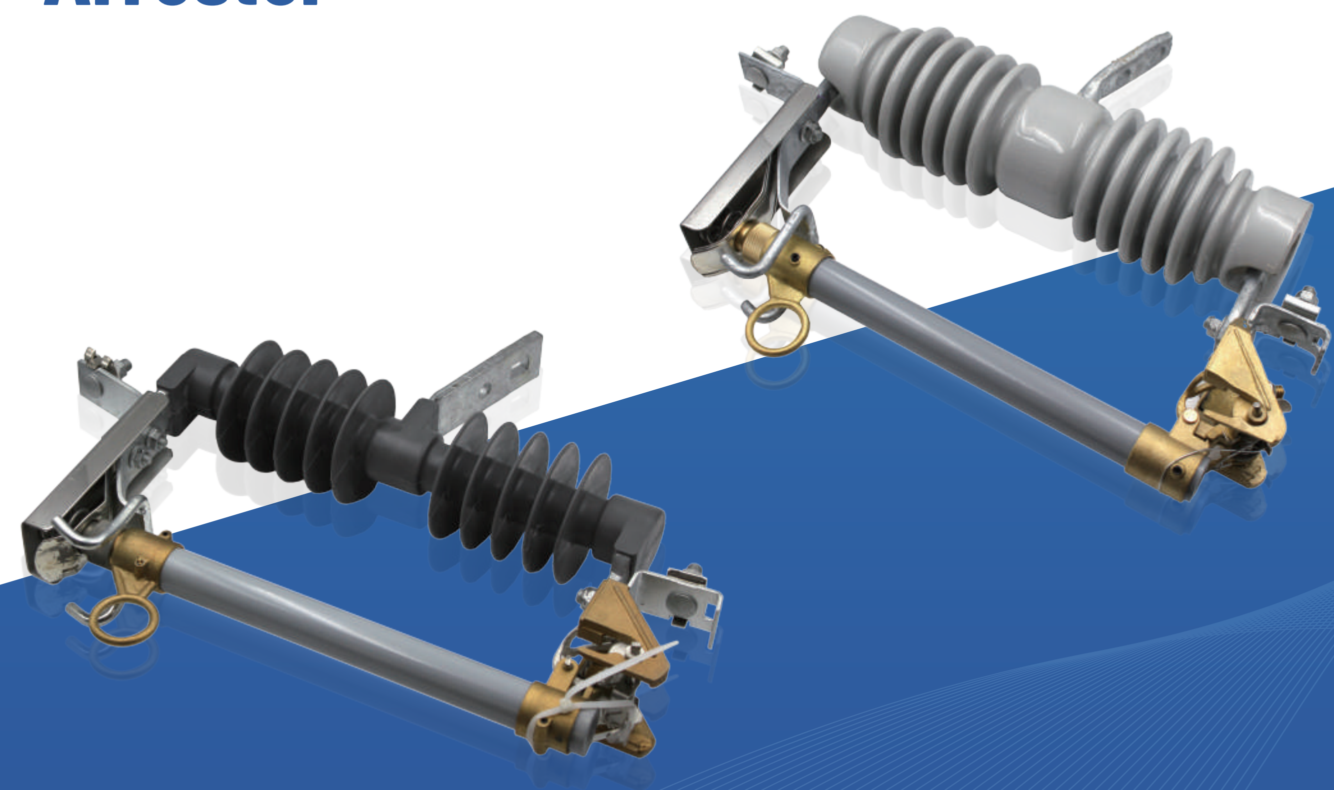
+86 19515526916

NO. 12,Shangwu Waihuan Road, CBD, Zhengzhou , China .

CECI

PRODUCT CATALOG

- Fuse Cut Out
- Arrester



China Energy And
Chemical Industry Co.,Ltd.

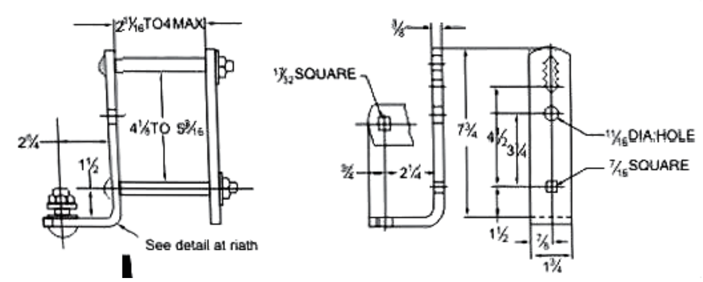
01 Product Introduction

Drop out fuse cutouts and loadswitching fuse cutouts are for outdoor used high voltage protective device.To be connected with in coming feeder of distributing transformer or distribution lines it mainly protect transformer or lines form short circuit and overload,and on/off loading current

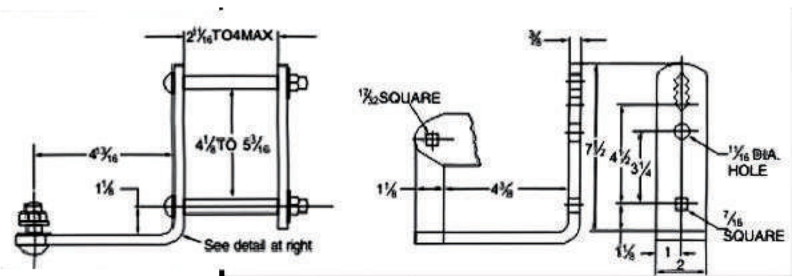
Drop out fuse cutout is composed of insulator supports and fuse tube,static contacts is fixed on two sides of insulator support and moving contact is installed on two ends of fuse tube.Fuse tube is composed of inside are extinguishing tube,outer phenolic compound paper tube or epoxy glass tube.

Load switch fuse cutout provides enforced elastic auxiliary contacts and arc-extinguishing enclosure for switching on/off loading current.

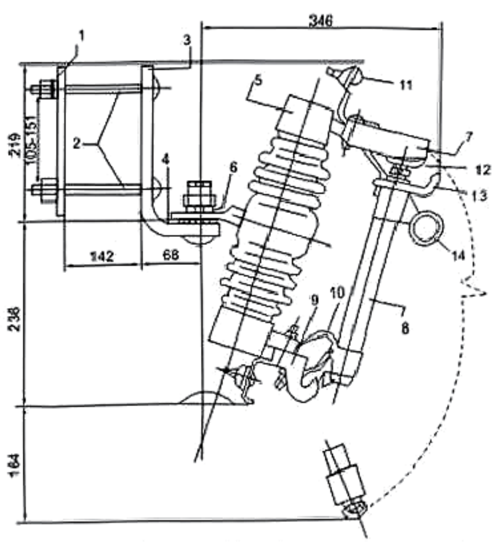
At normally working via fuse link tightened the fuse tube is fixed to form up of close position.In case system current faults,fault current result in fuse melt immediately and take place electric are,which let are-extinguishing tube being heated and explode a lot of gas.This will produce high pressure and blow off the are along the tube. After fuse link melt,moving contact has no lightened strength again,mechanism is locked and fuse tube drop out. Cutout now is in open position.When it needs to switch off during cutout loading,operator shall via insulating operating bar pull the moving contact,at its beginning main contact and auxiliary static contact is contacted still. Whiling pulling the auxiliary contact is separated between auxiliary contacts there occur electric arc and the arc will be lengthened in arc-extinguishing enclosure gap and meanwhile arc-extinguishing explode gas to blow off the are during current passing zero.

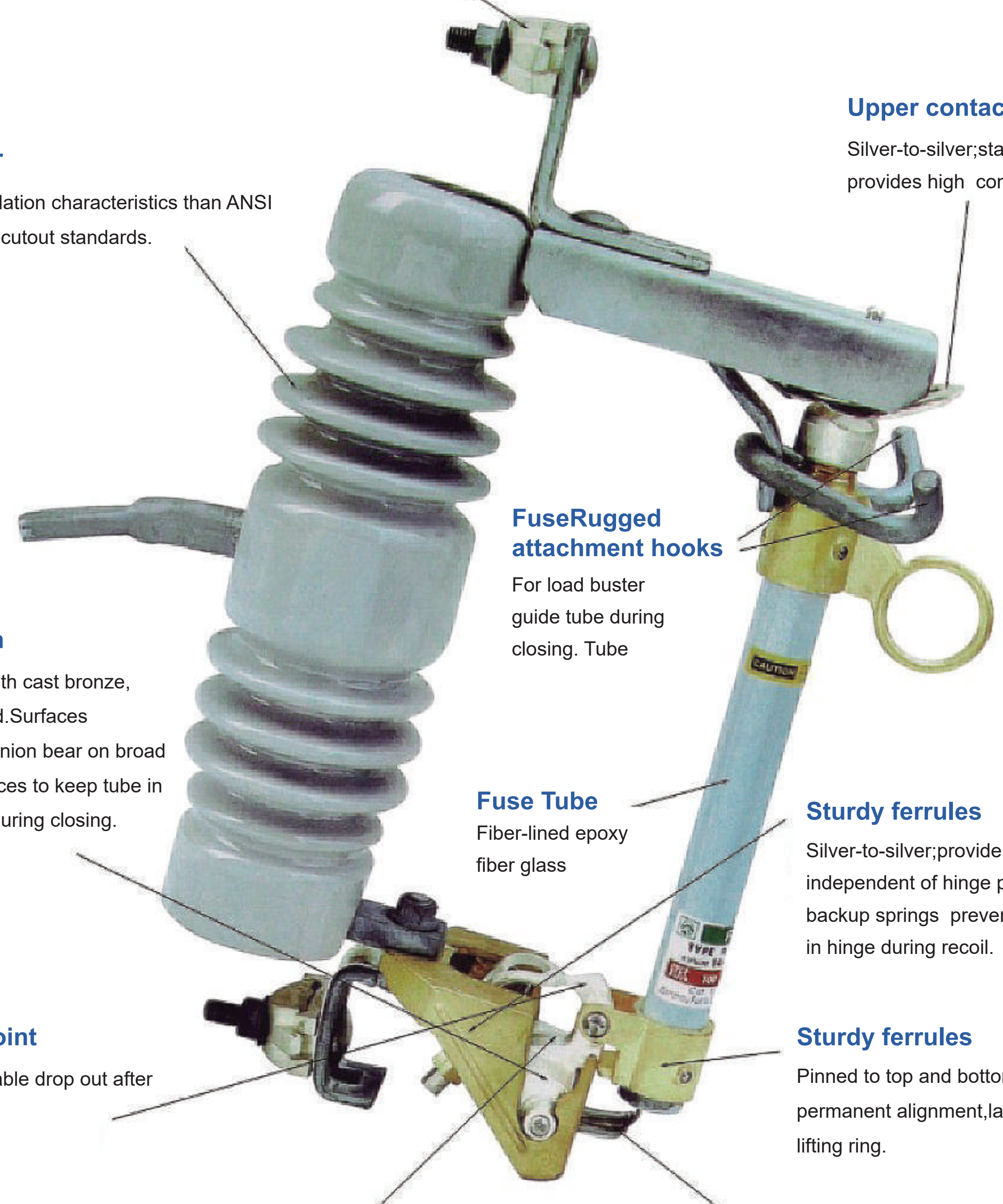


NEMA Type B Mounting Braket-Adjustable for 3°×4'to 4°×5°Crossarm



Extended Mounting Bracket-Adjustable for 3"×4°to 4'×5"Crossarm





Parallel-grove connector

Tinplated cast copper,for ease of conductor connecting accommodates two conductors of unlikes ize in a single connector.Other styles of connectors are also available.

One-piece channel(hood)

Heavy galvanized steel(which is also used for inserts, hangers,and structural bolts and nuts)

Upper contacts

Silver-to-silver;stainless steel spring provides high contact pressure.

Insulator

Higher insulation characteristics than ANSI distribution-cutout standards.

FuseRugged attachment hooks

For load buster guide tube during closing. Tube

Trunnion

High-strength cast bronze, silver plated.Surfaces around trunnion bear on broad hinge surfaces to keep tube in alignment during closing.

Fuse Tube

Fiber-lined epoxy fiber glass

Sturdy ferrules

Silver-to-silver;provide dual current path, independent of hinge pivot.Stainless-steel backup springs prevent arcing when tube rises in hinge during recoil.

Toggle joint

Assure reliable drop out after operation.

Sturdy ferrules

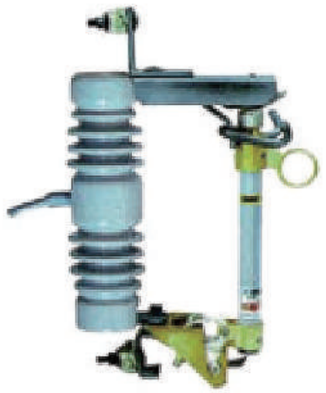
Pinned to top and bottom of tube for permanent alignment,large accessible lifting ring.

Pocket

Secures tube in hinge during closing.

Flipper

Gives high-speed terminal separation quick cable flip-out,and(in conjunction with the toggle joint)reduces transmission of forces to fuse link during closing.



10KV-15KV

Type	Rated volage KV)	Rated current (A)	Breaking current (A)	Impulse votage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kg)	Dimensions (cm)
FSC-1	15	100	10000	110	40	220	7.3	38.5×34.5×10.5
FSC-1	15	200	12000	110	40	220	7.3	

10KV-15KV

Type	Rated volage KV)	Rated current (A)	Breaking current (A)	Impulse votage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kg)	Dimensions (cm)
FSC-2	15	100	8000	110	40	350	3.5	42×35×10
FSC-2	15	200	10000	110	40	350	3.5	

10KV-15KV

Type	Rated volage KV)	Rated current (A)	Breaking current (A)	Impulse votage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kg)	Dimensions (cm)
FSC-3	15	100	10000	110	45	380	3.5	48.5×35×10.5
FSC-3	15	200	12000	110	45	380	3.5	

10KV-15KV

Type	Rated volage KV)	Rated current (A)	Breaking current (A)	Impulse votage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kg)	Dimensions (cm)
FSC-4	11	100	6000	110	45	530	16.2	62×56×13.5
FSC-4	11	200	8000	110	45	530	16.2	

10KV-15KV

Type	Rated volage KV)	Rated current (A)	Breaking current (A)	Impulse votage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kg)	Dimensions (cm)
FSC-5	15	100	10000	110	40	260	8.5	48.5×44×13.5
FSC-5	15	200	12000	110	40	260	8.5	

10KV-15KV

Type	Rated volage KV)	Rated current (A)	Breaking current (A)	Impulse votage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kg)	Dimensions (cm)
FSC-5	15	100	10000	110	40	300	7.5	39×34.5×10.5
FSC-5	15	200	12000	110	40	300	7.5	

15KV-27KV

Type	Rated volage KV)	Rated current (A)	Breaking current (A)	Impulse votage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kg)	Dimensions (cm)
FSC-7	15	100	10000	125	45	320	8.5	48.5×35×10.5
FSC-7	15	200	12000	125	45	350	8.5	

15KV-27KV

Type	Rated volage KV)	Rated current (A)	Breaking current (A)	Impulse votage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kg)	Dimensions (cm)
FSC-8	15	100	8000	125	45	320	12	50×36×13
FSC-8	15	200	10000	125	45	320	12	

10KV-15KV

Type	Rated volage KV)	Rated current (A)	Breaking current (A)	Impulse votage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kg)	Dimensions (cm)
FSC-3	15	100	10000	110	45	380	3.5	48.5×35×10.5
FSC-3	15	200	12000	110	45	380	3.5	

24KV-27KV

Type	Rated volage KV)	Rated current (A)	Breaking current (A)	Impulse votage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kg)	Dimensions (cm)
FSC-10	24	100	8000	150	65	530	12	50.5×36×17
FSC-10	25	200	10000	150	65	530	12	

33KV-36KV

Type	Rated volage KV)	Rated current (A)	Breaking current (A)	Impulse votage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kg)	Dimensions (cm)
FSC-11	36	100	6000	170	70	720	15.5	66×37×17
FSC-11	36	200	8000	170	70	720	15.5	

24KV-27KV

Type	Rated volage KV)	Rated current (A)	Breaking current (A)	Impulse votage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kg)	Dimensions (cm)
FSC-12	27	100	6000	150	65	470	13	56×38×10.5
FSC-12	27	200	10000	150	65	470	13	

27KV-33KV

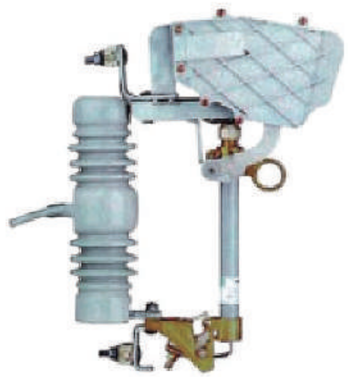
Type	Rated volage KV)	Rated current (A)	Breaking current (A)	Impulse votage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kg)	Dimensions (cm)
FSC-13	33	100	6000	170	70	660	15	59×37×17
FSC-13	33	200	8000	170	70	660	15	

36KV-38KV

Type	Rated volage KV)	Rated current (A)	Breaking current (A)	Impulse votage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kg)	Dimensions (cm)
FSC-14	36	100	6000	180	75	850	17	65×37×17
FSC-14	36	200	8000	180	75	850	17	

10KV-15KV

Type	Rated volage KV)	Rated current (A)	Breaking current (A)	Impulse votage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kg)	Dimensions (cm)
FSC-15	15	100	10000	110	40	230	7.5	49×35×11.5
FSC-15	15	200	12000	110	45	230	7.5	



15KV-27KV

Type	Rated volage KV)	Rated current (A)	Breaking current (A)	Impulse votage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kg)	Dimensions (cm)
FSC-16	15	100	10000	125	45	230	9.4	55×44×11.5
FSC-16	15	200	12000	125	45	230	9.4	

24KV-27KV

Type	Rated volage KV)	Rated current (A)	Breaking current (A)	Impulse votage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kg)	Dimensions (cm)
FSC-17	24	100	10000	150	65	530	12	55×44.5×20
FSC-17	24	200	12000	150	65	530	12	

36KV-38KV

Type	Rated volage KV)	Rated current (A)	Breaking current (A)	Impulse votage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kg)	Dimensions (cm)
FSC-18	36	100	6000	170	70	850	17.5	72.5×44.5×18
FSC-18	36	200	8000	170	70	850	17.5	

24KV-27KV

Type	Rated volage KV)	Rated current (A)	Breaking current (A)	Impulse votage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kg)	Dimensions (cm)
FSC-19	24	100	6000	150	65	620	3.8	40×36×12
FSC-19	24	200	8000	150	65	620	3.8	

30KV-33KV

Type	Rated volage KV)	Rated current (A)	Breaking current (A)	Impulse votage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kg)	Dimensions (cm)
FSC-20	33	100	6000	170	70	680	5.3	60 ×35.5×12
FSC-20	33	200	8000	170	70	680	5.3	

36KV-38KV

Type	Rated volage KV)	Rated current (A)	Breaking current (A)	Impulse votage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kg)	Dimensions (cm)
FSC-21	36	100	6000	180	75	820	6	66×35.5×12
FSC-21	36	200	8000	180	75	820	6	

Fuse Cut Out Accessories












Lightning Arrester

3KV 180mm

6KV 180mm

10KV 420mm

12KV 365mm

15KV 500mm

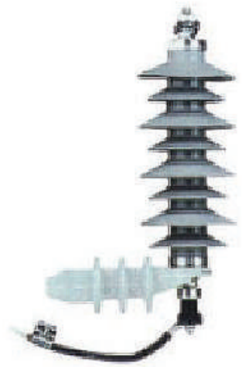
22KV 655mm

24KV 735mm

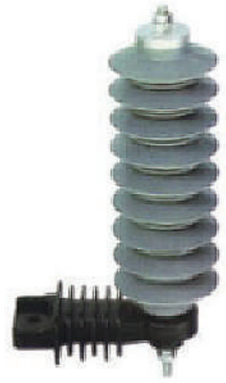
Polymeric Housed Metal-oxide Surge Arrester Without Gaps
Nominal Discharge Current 5KA(EXPORT)

Type	MOA Rated voltage	MCOV	Current Impulse Residual Voltage			2ms Rectangular current impulse withstand	4/10µs High current impulse withstand
			1/4µs Lightning current impulse	8/20µs Lightning current impulse	30/60µs Switching current impulse		
	KV(ms)	KV(ms)	KV(crest)	KV(crest)	KV(crest)	A	KA(crest)
YH5W-3	3	2.55	11.3	9	8.9	150	65
YH5W-6	6	5.1	22.6	18	16.8	150	65
YH5W-9	9	7.65	33.7	27	23.8	150	65
YH5W-10	10	8.4	36	30	23	150	65
YH5W-11	11	9.4	40	33	30	150	65
YH5W-12	12	10.2	42.2	36	27	150	65
YH5W-15	15	12.7	51	45	38.5	150	65
YH5W-18	18	15.3	61.5	54	46.2	150	65
YH5W-21	21	17.0	71.8	63	54.2	150	65
YH5W-24	24	19.5	82	72	62	150	65
YH5W-27	27	22.0	92	81	69.8	150	65
YH5W-30	30	24.4	102	90	79	150	65
YH5W-33	33	27.5	112	99	86.7	150	65
YH5W-36	36	29.0	123	108	92.4	150	65

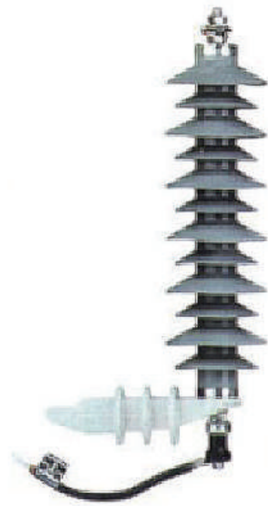
Lightning Arrester



24KV 600mm



30KV 890mm



33KV 900mm

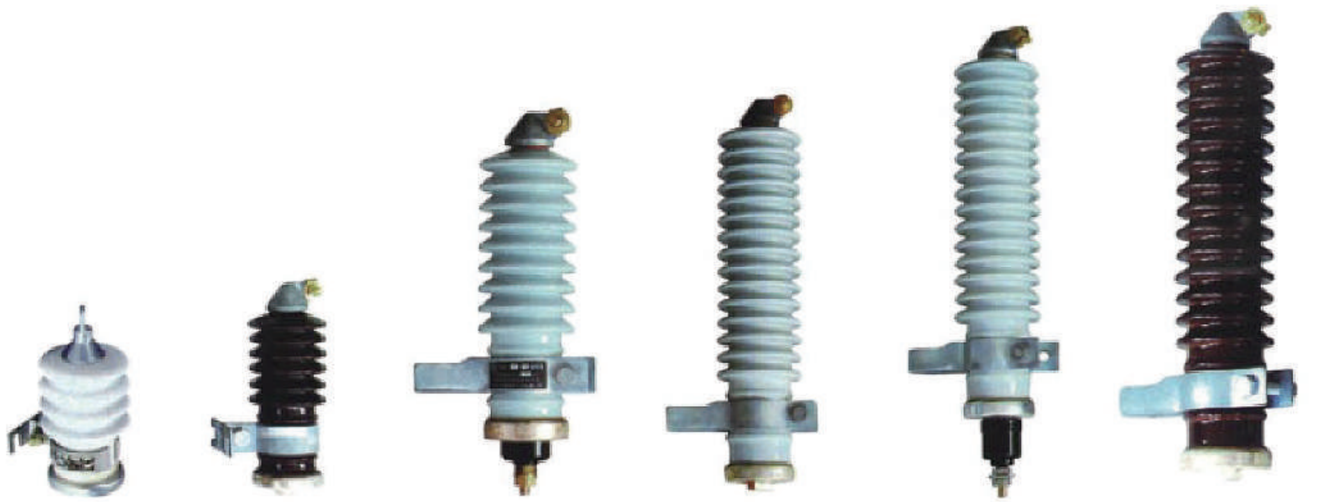
36KV 970mm

36KV 1100mm

Polymeric Housed Metal-oxide Surge Arrester Without Gaps
Nominal Discharge Current 10KA(EXPORT)

Type	MOA Rated voltage	MCOV	Current Impulse Residual Voltage			2ms Rectangular current impulse withstand	4/10µs High current impulse withstand
			1/4µs Lightning current impulse	8/20µs Lightning current impulse	30/60µs Switching current impulse		
	KV(ms)	KV(ms)	KV(crest)	KV(crest)	KV(crest)	A	KA(crest)
YH10W-3	3	2.55	11.3	9	8.9	250	100
YH10W-6	6	5.1	22.6	18	16.8	250	100
YH10W-9	9	7.65	33.7	27	23.8	250	100
YH10W-10	10	8.4	36	30	23	250	100
YH10W-11	11	9.4	40	33	30	250	100
YH10W-12	12	10.2	42.2	36	27	250	100
YH10W-15	15	12.7	51	45	38.5	250	100
YH10W-18	18	15.3	61.5	54	46.2	250	100
YH10W-21	21	17.0	71.8	63	54.2	250	100
YH10W-24	24	19.5	82	72	62	250	100
YH10W-27	27	22.0	92	81	69.8	250	100
YH10W-30	30	24.4	102	90	79	250	100
YH10W-33	33	27.5	112	99	86.7	250	100
YH10W-36	36	29.0	123	108	92.4	250	100

Lightning Arrester

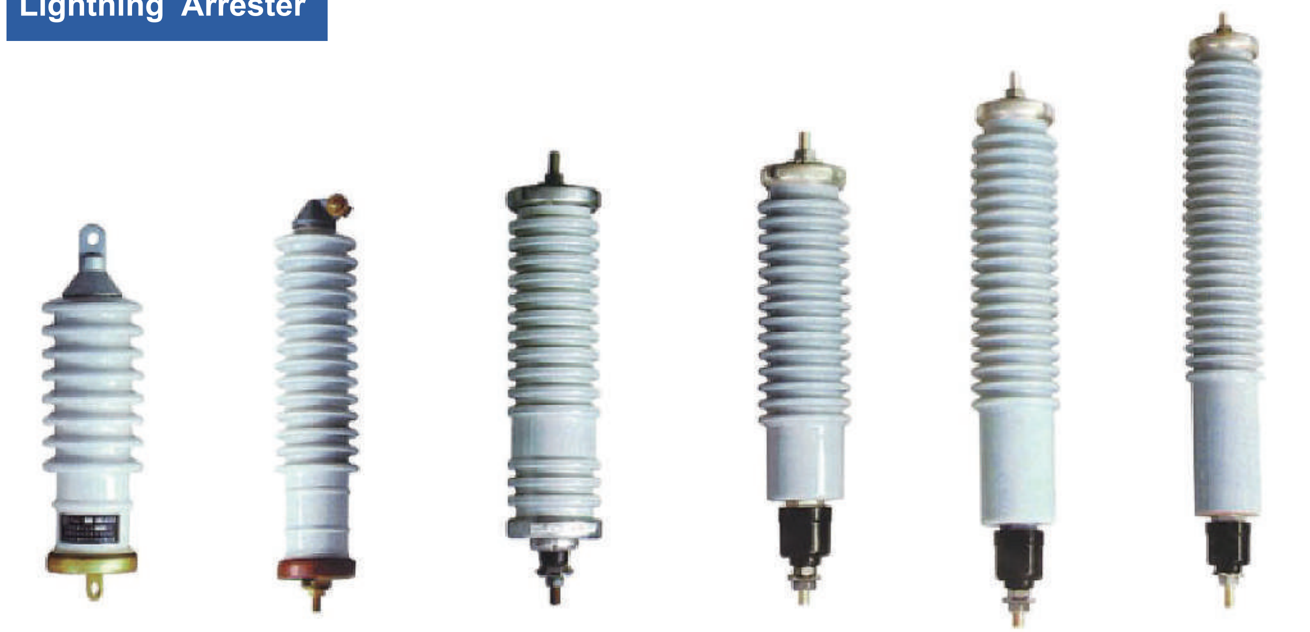


3KV 220mm 6KV 280mm 10KV 350mm 24KV 510mm 24KV 510mm 24KV 460mm

Porcelain Housed Metal-oxide Surge Arrester With Series Gaps Nominal Discharge Current 5KA(EXPORT)

Type	MOA Rated voltage	Power frequency discharge voltage	1.2/50μs Impulse discharge voltage ≤	8/20μs Lightning impulse residual voltage ≤	2ms Rectangular current impulse withstand	4/10μs High current impulse withstand
	KV(ms)	KV(rms)	KV(crest)	KV(crest)	A	KA(crest)
Y5C-3	3	5.5	9	9	150	65
Y5C-6	6	11	18	18	150	65
Y5C-9	9	16	27	27	150	65
Y5C-10	10	18	30	30	150	65
Y5C-11	11	20	33	33	150	65
Y5C-12	12	22	36	36	150	65
Y5C-15	15	26	45	45	150	65
Y5C-18	18	33	54	54	150	65
Y5C-21	21	36	63	63	150	65
Y5C-24	24	40	72	72	150	65

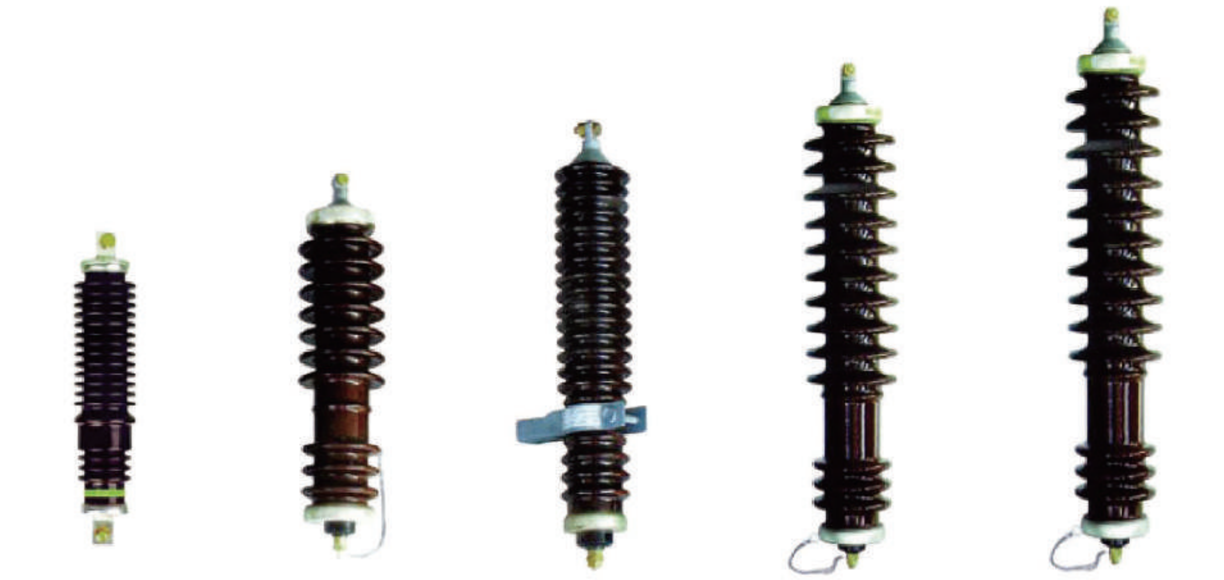
Lightning Arrester



10KV 350mm 18KV 510mm 10KV 340mm 10KV 340mm 12KV 490mm 18KV 655mm

Porcelain Housed Metal-oxide Surge Arrester With Series Gaps Nominal Discharge Current 10KA(EXPORT)

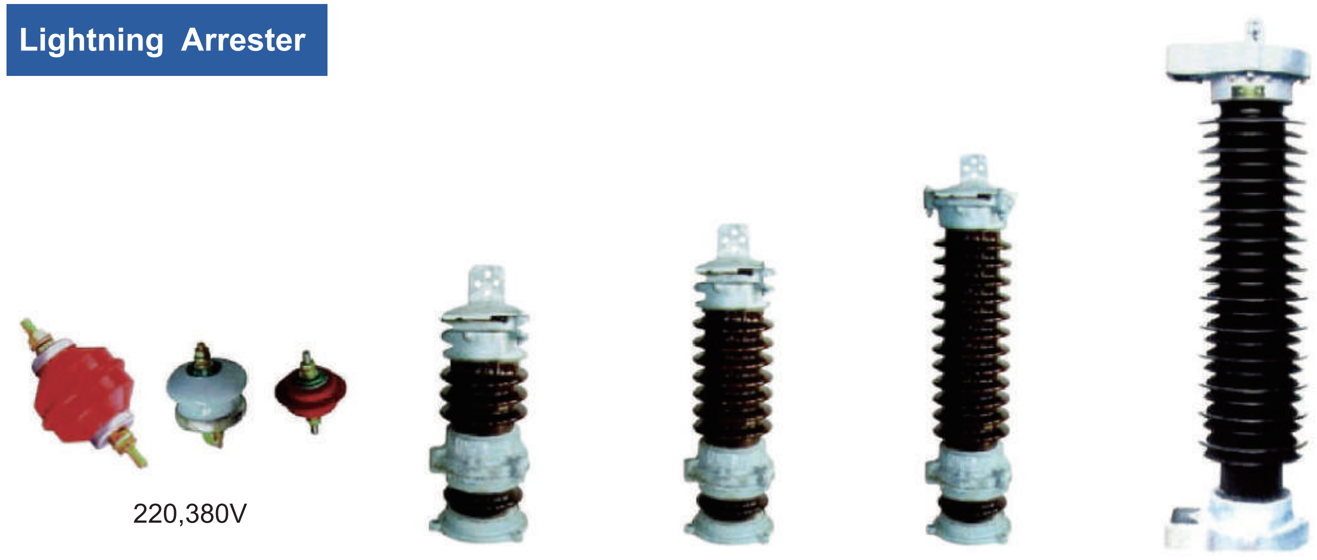
Type	MOA Rated voltage	Power frequency discharge voltage	1.2/50μs Impulse discharge voltage ≤	8/20μs Lightning impulse residual voltage ≤	2ms Rectangular current impulse withstand	4/10μs High current impulse withstand
	KV(ms)	KV(rms)	KV(crest)	KV(crest)	A	KA(crest)
Y10C-3	3	5.5	9	9	200	65
Y10C-6	6	11	18	18	200	65
Y10C-9	9	16	27	27	200	65
Y10C-10	10	18	30	30	200	65
Y10C-11	11	20	33	33	200	65
Y10C-12	12	22	36	36	200	65
Y10C-15	15	26	45	45	200	65
Y10C-18	18	33	54	54	200	65
Y10C-21	21	36	63	63	200	65
Y10C-24	24	40	72	72	200	65



11KV 460mm　15KV 640mm　24KV 630mm　33KV 910mm　36KV 1170mm

Porcelain Housed Metal-oxide Surge Arrester Without Gaps Norminal Discharge Current 10KA(EXPORT)

Type	MOA Rated voltage	Power frequency discharge voltage	1.2/50μs Impulse discharge voltage ≤	8/20μs Lightning impulse residual voltage ≤	2ms Rectangular current impulse withstand	4/10μs High current impulse withstand
	KV(ms)	KV(rms)	KV(crest)	KV(crest)	A	KA(crest)
Y5C-11	11	20	33	33	150	100
Y5C-12	12	22	36	36	150	100
Y5C-15	15	26	45	45	150	100
Y5C-24	24	40	72	72	150	100
Y5C-33	33	54	99	99	150	100
Y5C-36	36	61	108	108	150	100
Y10C-10	10	18	30	30	150	100
Y10C-12	12	22	36	36	150	100
Y10C-15	15	26	45	45	150	100
Y10C-24	24	40	72	72	150	100
Y10C-33	33	56	99	99	150	100
Y10C-36	36	61	130	170	150	100

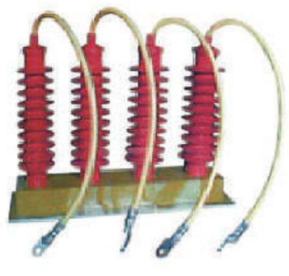


220,380V　12KV　24KV　66KV　110KV

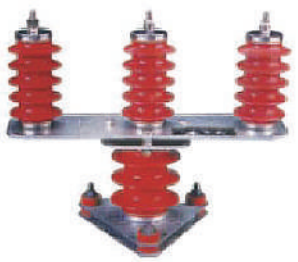
Porcelain Housed Metal Oxide Surge Arrester With Series Gaps

Service condition	Type	Rated voltage	Nominal voltage (virtval value) KV	MCOV (Vrtual value) KV	Direct (U1mA) reference voltage ≥KV	Max current impusse Residual voltage			2ms Rectangular current impulse withstand	4/10μs High current impulse with stand KA	0.75 Direct reference current μA
						1/4μs steep current impulse	8/20μs Lightning impulse Residual Voltage	30/60μs Lightning impulse Residual Voltage			
Substation (Z)	Y5WZ-42/134	42	35	23	73	154	134	114	150	65	50
	Y5WZ-51/134	51	35	40.8	73	154	134	114			
	Y5WZ-52.7/134	52.7	35	40.8	73	154	134	114			
	Y5W-54/134	54	35	41	73	154	134	114			
Substation	Y5W-75/215	75	66	60	123	248	215	183	400	65	50
	Y5W-90/224	90	66	72.5	130	258	224	190			
	Y5W-100/260	100	110	78	145	291	260	221			
	Y5W-102/260	102	110	79.6	148	297	266	226			
	Y5W-108/281	108	110	84	157	315	281	239			
Substation	Y10W-75/250	75	66	60	127	288	250	213	600	100	50
	Y10W-75/223	75	66	60	127	256	223	190			
	Y10W-75/230	75	66	60	127	265	230	196			
	Y10W-90/224	90	66	72.5	130	258	224	190			
	Y10W-90/232	90	66	72.5	130	266	232	198			
	Y10W-90/235	90	66	72.5	130	270	235	201			
Substation	Y10W-10/260	100	110	78	145	291	260	221	600	100	50
	Y10W-102/226	102	110	79.6	148	297	266	226			
	Y10W-108/281	108	110	84	157	315	281	239			

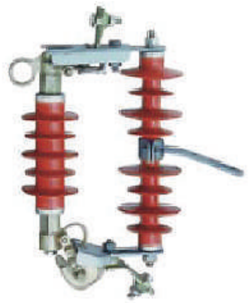
Lightning Arrester



35KV



6、10KV



XHY5W-17/150

Application

Three-phase Integrated arrester of FBP is a kind of traditional arrester.It is able to prevent electrical equipment from the damage of lightning,It mainly fit for pretective transformer,switch,electric model,parallel connection balance capacitor which the voltage is below 350V,and different kinds vacuum open circuit apparatus.It can set up in many kinds of high voltage switch in the cabinet.Like KYN, GBC,JYN,GCSI,XGNect.

Work Principle

The key technique of Three-phase integrated lightning arrester consists in offering a good wiring method,using four units lightning rod instead of six,however,it has the same function.

Way Of Wiring

Three-phase Integrated lightning arrester of FBP adopts compound outside connection,silicon material,and it can be made once at a time from a model,The high voltage cable also adopts silicon material It needn't pay any attention to the distance between the phases when you set up i.Just connect with the joins with sign.The vest connect with A,B,C.Generally the length of cable in a bout 600mm.offer the length of cable according to the customers need when you order it.

Three-phase Integrated Metal-Oxide Surge Arrester Without Gaps

Destinatinon	Type	System Voltage	MOA Rated Voltage	MCOV	1mA Reference Voltage at 1mA DC≥	8/20μs Residual Voltage on nominal currents≤	2ms Rectangular current impulse withstand
		KV(ms)	KV(rms)	KV(ms)	KV(-)	KV(crest)	A
Distribution	YH5WS-10/30×2	6	10	8.0	16.0/15.0※	30.0	100
	YH5WS-17/50×2	10	17	13.6	26.5/25.0※	50.0	100
Substation	YH5WS-10/27×2	6	10	8.0	15.0/14.4※	27.0	150
	17/45×2	10	17	13.6	25.0/24.0※	45.0	150
	51/160×51/134	35	51	40.8	88.0/73.0※	160.0/134.0	150
Capacitor	10/27×2	6	10	8.0	15.0/14.4※	27.0	400
	17/46×2	10	17	13.6	25.0/24.0※	46.0	400
	51/150×51/134	35	51	40.8	88.0/73.0※	150.0/134.0	400
Motor	8/25×8/18.7	6.3	8	6.3	15.0/11.2※	25.0/18.7	200
	13.5/41.5×13.5/31	10.5	13.5	10.5	25.0/18.6※	41.5/31	200
Generator	8/25×8/18.7	6.3	8	6.3	15.0/11.2※	25.0/18.7	400
	13.5/41.5×13.5/31	10.5	13.5	10.5	25.0/18.6※	41.5/31.0	400

Lightning Arrester

6KV

10KV

35KV

66KV

110KV

110KV

Polymeric Housed Metal Oxide Surge Arrester With Series Gaps

Service condition	Type	Rated voltage KV	Nominal voltage (virtval value) KV	MCOV (Vrtual value) KV	Direct (U1MA) reference voltage KV	Max current impusse Residual voltage			2ms Rectangular current impulse withstand A	4/10μs High current impulse with stand KA	0.75 Direct reference current μs KA
						μs steep	8/20μs Lightning impulse Residual Voltage	30/60μs Lightning impulse Residual Voltage			
Substation (Z)	YH5WZ-42/134	42	35	23	73	154	134	114	150	65	50
	YH5WZ-51/134	51	35	40.8	73	154	134	114			
	YH5WZ-52.7/134	52.7	35	40.8	73	154	134	114			
	YH5W-54/134	54	35	41	73	154	134	114			
Substation	YH5W-75/215	75	66	60	123	248	215	183	400	65	50
	YH5W-90/224	90	66	72.5	130	258	224	190			
	HY5W-100/260	100	110	78	145	291	260	221			
	HY5W-102/260	102	110	79.6	148	297	266	226			
	HY5W-108/281	108	110	84	157	315	281	239			
Substation	HY10W-75/250	75	66	60	127	288	250	213	600	100	50
	HY10W-75/223	75	66	60	127	256	223	190			
	HY10W-75/230	75	66	60	127	265	230	196			
	HY10W-90/224	90	66	72.5	130	258	224	190			
	HY10W-90/232	90	66	72.5	130	266	232	198			
	HY10W-90/235	90	66	72.5	130	270	235	201			
Substation	HY10W-10/260	100	110	78	145	291	260	221	600	100	50
	HY10W-102/226	102	110	79.6	148	297	266	226			
	HY10W-108/281	108	110	84	157	315	281	239			