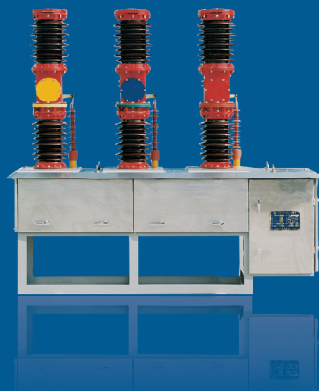


VACUUM CIRCUIT BREAKER



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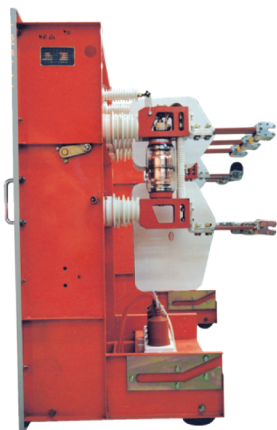


ISO9001

ISO14001

OHSAS18001

ZN28-12C SERIES INDOOR AC MEDIUM-VOLTAGE VACUUM CIRCUIT BREAKER JYN2 AND KYN1 TYPE HANDCART VACUUM CIRCUIT BREAKER



GENERALS

ZN28-12C Vacuum Circuit Breaker is derived from ZN28 series, three-phase 50Hz indoor medium voltage apparatus. It has JYN2 and KYN1 type handcart Vacuum Circuit Breaker and mainly equipped in distribution system and applied to control and protect furnace transformer, HV motor, capacitor bank, power plant and substation for frequent operation.

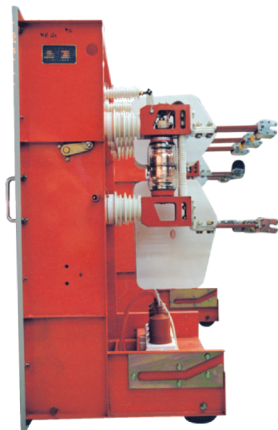
OPERATING ENVIRONMENT CONDITION

1. Ambient temperature: $-15^{\circ}\text{C} \sim +40^{\circ}\text{C}$
2. (storage and transport permissible at -30°C)
3. Altitude: Less than 2000m
4. Relative humidity: Daily average value is not more than 95%; monthly average value is not more than 90%;
5. Saturated steam pressure: Daily average value is not more than 2.2kPa; monthly average value is not more than 1.8kPa.
6. Earthquake intensity: No more than degree 8
7. No operation at places such as fire danger, explosion, severe pollution, chemical corrosion and frequent violent vibration.

TECHNICAL PARAMETERS

No.	Name	Unit	630	1250-25	1250-	1600	2000	3150-40
			1250	-20	31.5	-31.5	2500	3150
1	Rated voltage	kV	12					
2	Rated current	A	630	1250		1250	2000	2000 2500 3150
3	Rated power frequency withstand voltage for 1 min	kV	42					
	Insulation level	kV	75					
4	Rated short open circuit current	kA	20	25	31.5	40		
5	Rated operation sequence		0-0.3s-C0-180s-C0					
6	Rated short closed circuit current	kA	50	63	80	100		
7	Rated peak withstand current	kA	50	63	80	100		
8	Rated short-time withstand current	kA	20	25	31.5	40		
9	Rated short-time withstand time	S	4					
10	On/off times of Rated short current	times	30			30(20)		
11	Rated open time	ms	≤ 100					
12	Mechanical life	times	10000					

ZN28-12C SERIES INDOOR AC MEDIUM-VOLTAGE VACUUM CIRCUIT BREAKER JYN2 AND KYN1 TYPE HANDCART VACUUM CIRCUIT BREAKER



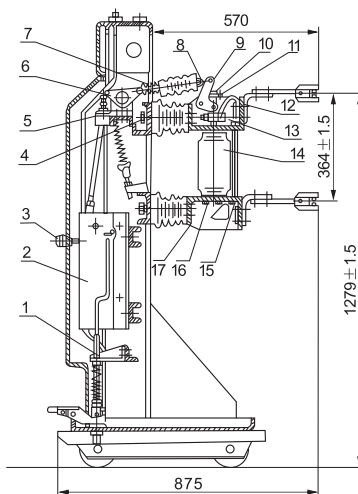
No.	Name	Unit	Data	
			20KA	31.5KA,40KA
1	Contact opening size	mm	11 ± 1	
2	Contact extra size		4 ± 1	
3	Permissible wear thickness of moving and static contact		3	
4	Average speed of switch on	Low voltage	0.60 ± 0.2	
		Rated voltage		
		High voltage		
5	Average speed of switch off	Low voltage	1.1 ± 0.2	
		Rated voltage		
		High voltage		
6	Switch on time	Low voltage	≤ 100	
		Rated voltage		
		High voltage		
7	Switch off time	Low voltage	≤ 0.6	
		Rated voltage		
		High voltage		
8	Bounce time of contact on	ms	≤ 2	
9	Three phase switch off synchronicity of the time difference		≤ 2	
10			μ Ω	≤ 50

STRUCTURAL FEATURE

The product overall framework is handcart assembling style, each arc extinguishing chamber is fixed on mount of outgoing line by two pieces of insulators, driving contact rod by regulating lever, adopting flexible joint to conduct open-close switch current. The structure is stable and wallop is light when switching on. Their operation mechanism is CD17 electromagnetic mechanism and CT19 spring mechanism optionally.

OUTLINE AND MOUNTING DIMENSIONS

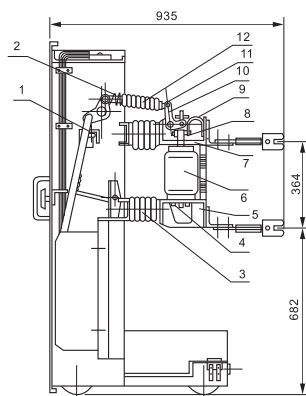
JYN2 handcart Vacuum Circuit Breaker



- 1.interlocking mechanism
- 2.operation mechanism
3. tripping button
4. bolt
5. filling piece for space adjusting
6. main shaft
- 7.contact spring
8. adjusting bolt for contacting travel
- 9.regulating lever
- 10.guide rod
- 11.guide plate
- 12.moving bracket
- 13.binding bolt of conductive clamp
- 14.vacuum interrupter
- 15.bolt
16. set bolt of arc extinguishing
17. fixed bracket

ZN28-12C SERIES INDOOR AC MEDIUM-VOLTAGE VACUUM CIRCUIT BREAKER JYN2 AND KYN1 TYPE HANDCART VACUUM CIRCUIT BREAKER

KYN1 HANDCART VACUUM CIRCUIT BREAKER



1. filling piece for space adjusting
2. contact pressure spring
3. insulator
4. bolt of Vacuum interrupter
5. down-bracket
6. vacuum interrupter
7. up-bracket
8. bolt of conductive clamp
9. flexible joint
10. regulating lever
11. adjusting bolt for contacting travel
12. draw rod

ORDERING INFORMATION

- | | |
|------------------------------|------------------------------|
| 1. type and parameter | 4. operation mechanism |
| 2. switchgear type and width | 5. with /or without arrester |
| 3. rated operating voltage | 6. special requirement |

ZN73-12(VS1) INDOOR VACUUM CIRCUIT BREAKER

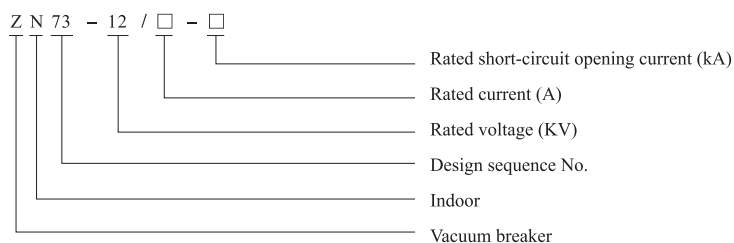
GENERALS

ZN73-12(VS1) Indoor AC high-voltage vacuum breaker is applicable to making and breaking load of various character and also for frequent operation in power systems of 3-phase, AC 50HZ and with rated voltage of 12 KV. It can be used for protecting and controlling of electrical equipment in industrial plants, mines, power generation plants and substations.

Vacuum breaker complies with national standard GB1984 and JB3855.



MODEL MEANING



ZN73-12(VS1) INDOOR VACUUM CIRCUIT BREAKER

AMBIENT CONDITIONS FOR OPERATION



1. Ambient temperature: max +40°C; min -10°C.
2. Altitude: not exceeding 2000m.
3. Relative humidity: daily average relative humidity: $\leq 95\%$. Monthly average relative humidity: $\leq 90\%$. Daily average saturated steam pressure: $\leq 2.2 \times 10^{-3}$ Mpa. Average monthly saturated steam pressure: $\leq 1.8 \times 10^{-3}$ Mpa. During the period of high degree of humidity, it may cause condensation when the temperature pelts down.
4. Earthquake intensity: not exceeding 8.
5. There shall be no danger of inflammability and explosion, no chemical corrosion and intensive vibration at the operation place.
6. The location using this product is a place not always oscillates acutely.

MAIN TECHNICAL PARAMETERS

Table 1

Rated voltage kV		12			
Rated frequency Hz		50			
Rated insulation level	Power frequency withstand voltage for 1 min	42/48 (virtual value)			
	Lightning impulse withstand voltage	75/85(peak value)			
Rated operation sequence		Off-t-on/off-t'-on/off*			
resistance of Major loop		≤ 50			
Mechanical service life times		10000			
Type	Rated current A	Rated short-circuit opening current kA	Rated short-circuit closing current (peak value) kA	Sustained time at rated short-circuit current (s)	On/off times at rated short-circuit current
ZN73-12/630-20	630	20/25	50/63	4	100
ZN73-12/1250-20	1250				
ZN73-12/1250-31.5	1250	31.5	80		50
ZN73-12/1600-31.5	1600				
ZN73-12/2000-31.5	2000				
ZN73-12/2500-31.5	2500	40	100		30
ZN73-12/1250-40	1250				
ZN73-12/1600-40	1600				
ZN73-12/2000-40	2000				
ZN73-12/2500-40	2500				
ZN73-12/3150-40	3150				

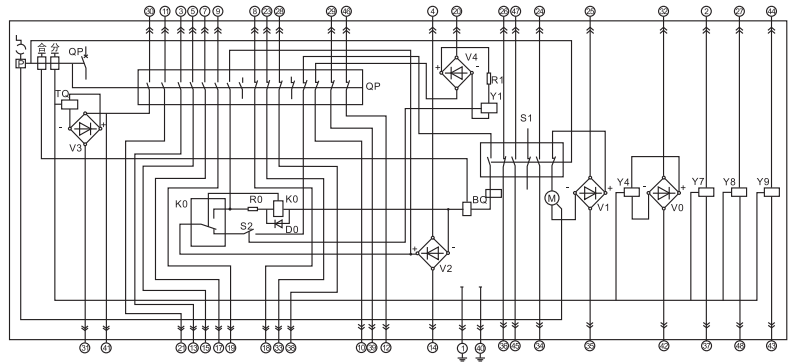
NOTE: when short-circuit opening current is 20,25,31.5kA, $t=0.3s$, $t'=180s$.
when short-circuit opening current is 40kA, $t=180s$, $t'=180s$



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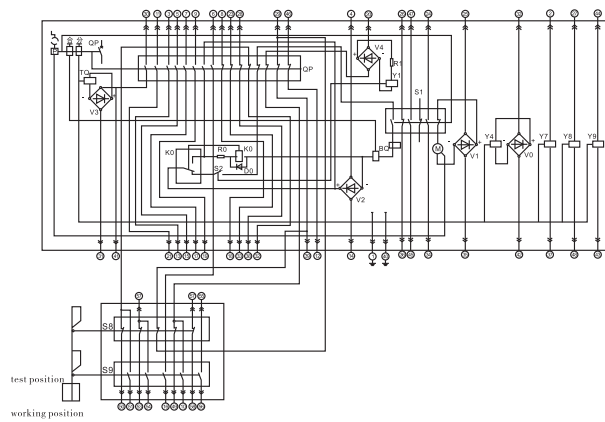
VACUUM CIRCUIT BREAKER

ZN73-12(VS1) INDOOR VACUUM CIRCUIT BREAKER



- K0-Trip-proof relay mechanism
- R0, R1-Current limiting Resistor
- Y7-Y9-Indirect over current release (optional part)
- P-Manual operation mechanism
- D0-Diode
- Y4-Under voltage release(optional part)
- V0-V4-rectifying element
- Y1-Locked eletromagnet (optional part)
- TQ-Switch off release
- S2-Auxiliary switch of locked eletromagnet(optional part)
- QF-Auxiliary switch of circuit breaker's main contait
- HQ-Switch on release
- M-Energy stored motor
- S1-Sensitive switch

Drawing1: Fixed type schematic diagram



- K0-Trip-proof relay mechanism
- D0-Diode
- R0, R1-Current limiting Resistor
- Y4-Under voltage release(optional part)
- Y7-Y9-Indirect over current release (optional part)
- V0-V4-rectifying element
- P-Manual operation mechanism
- Y1-Locked eletromagnet (optional part)
- HQ-Switch on release
- TQ-Switch off release
- M-Energy stored motor
- S9-Auxiliary switch which used in working position
- S8-Auxiliary switch which used in test position
- S2-Auxiliary switch of locked eletromagnet(optional part)
- S1-Sensitive switch
- QF-Auxiliary switch of circuit breaker's main contait

Drawing2: Withdrawable type schematic diagram

Table 2 Mechanism character of the circuit breaker

Table 2

Name	Unit	Data			
Contact opening size	mm	11 ± 1			
Contact extra size		3.5 ± 0.5			
Three phase switch off synchronicity of the time difference	ms	≤ 2			
Bounce time of contact on		≤ 2			
Switch off time		≤ 50			
Switch on time		≤ 100			
Average speed of switch off	m/s	0.9~1.3			
Average speed of switch on		0.4~0.8			
Pressure of contact surface of switch on contact	N	20k A	25kA	31.5k A	40k A
		2000 ± 200	2400 ± 200	3100 ± 200	4750 ± 250
Permissible wear thickness of moving and static contact	mm	3			

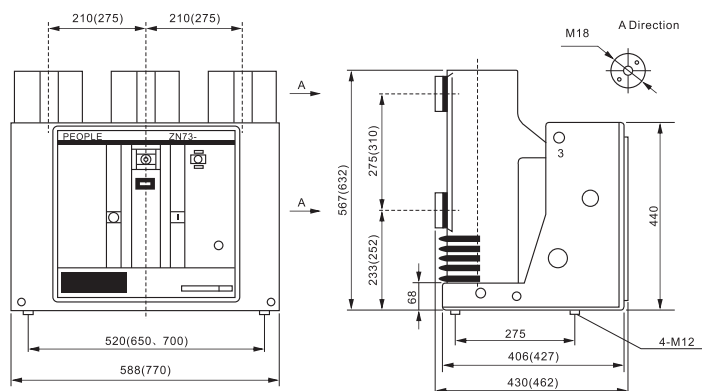
ZN73-12(VS1) INDOOR VACUUM CIRCUIT BREAKER

Table 3 Technical parameter of operation machine

Operation power		AC/DC	
Rated voltage		220V/110V	
Rated frequency	Switching-off release	264W	
	Switching-on release	264W	
	Energy stored generator	20kA 25kA 31.5kA	40kA
		70W	100W
Voltage range in normal operation	Switching-off release	65%~120% Rated voltage	
	Switching-on release	85%~110% Rated voltage	
	Energy stored generator	85%~110% Rated voltage	
Energy-stored time		≤ 10S	

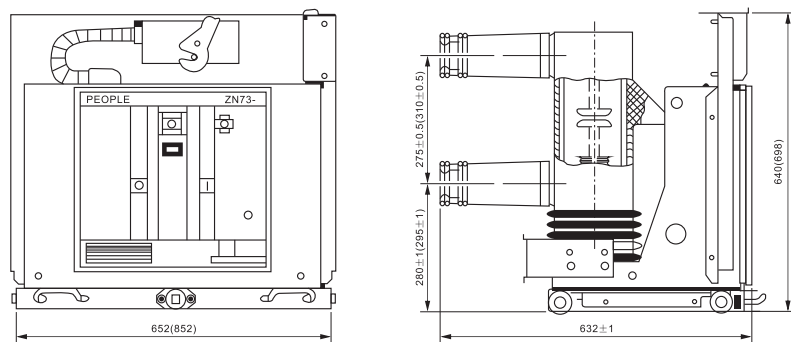


OUTLINE AND MOUNTING DIMENSIONS



Note: The data in parenthesis is for VCB which rated current is more than 1600A

Drawing1: Outline dimension of fixed type



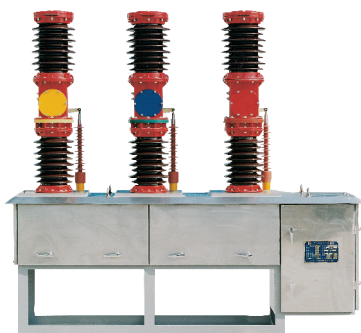
Note: The data in parenthesis is for VCB which rated current is more than 1600A

Drawing2: Outline dimension of withdrawable type

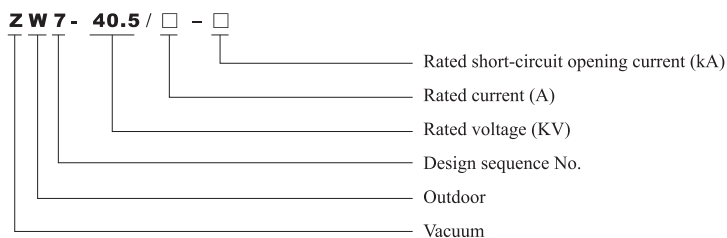
ZW7-40.5 TYPE OUTDOOR MEDIUM-VOLTAGE VACUUM CIRCUIT BREAKER

GENERALS

ZW7-40.5/2000-31.5 outdoor HV vacuum circuit breaker can be used in the power system with rated voltage 40.5KV, rated current up to 2000A and three-phase AC 50HZ to protect the equipment in industrial and mineral enterprises, power plants and substations. It can be used as a connecting circuit breaker in the workplaces of frequent operation. This product complies with the standards of the GB1984-89 AC HV Circuit Breaker, IEC56 HV AC Circuit Breaker and JB3385-1996 3.6-40.5KV Indoor AC HV Vacuum Circuit Breakers.



MODEL MEANING



AMBIENT CONDITIONS FOR OPERATION

1. Ambient temperature: max +40°C; min -40°C.
2. Altitude: not exceeding 2000m.
3. Wind pressure: less than 700Pa (equal to wind speed 34m/s)
4. Air pollution: class 3

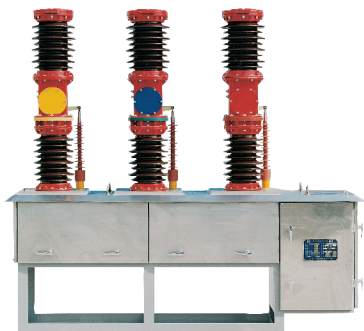
MAIN TECHNICAL PARAMETERS

Table 1

No.	Name	Unit	Data		
1	Rated voltage	75/85(peak value)	kV	40.5	
2	Rated Insulation level	Power frequency withstand voltage for 1 min	dry test	kV	95
			wet test	kV	80
		Lightning impulse withstand voltage		kV	185
3	Rated current		A	1250/1600/2000	
4	Rated short open circuit current		kA	20/25/31.5	
5	Rated operation sequence			0-0.3s-C0-180s-C0	
6	Rated breaking current for capacitor bank		A	400	
7	Rated short closed circuit current		times	20	
8	Rated short time withstand current(peak value)		kA	50/63/80	
9	Rated withstand current(peak value)		kA	50/63/80	
10	Rated short time withstand current		kA	20/25/31.5	
11	Rated short circuit persistent time		S	4	
12	Rated making time		S	≤0.08	
13	Mechanical life		times	10000	
14	Rated operating voltage and rated voltage of auxiliary circuit		V	AC、DC 220、110	

ZW7-40.5 TYPE OUTDOOR MEDIUM-VOLTAGE VACUUM CIRCUIT BREAKER

Table 2

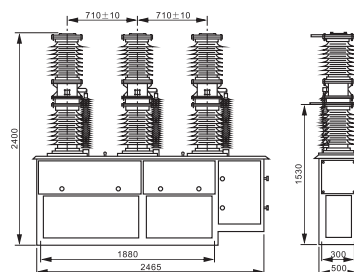


No.	Name	Unit	Data
1	Contact opening size	mm	22 ± 2
2	Contact extra size	mm	4 ± 1
3	Average speed of switch off	m/s	1.5 ± 0.2
4	Average speed of switch on	m/s	0.7 ± 0.2
5	Bounce time of contact on	ms	≤ 3
6	Three phase switch off synchronicity of the time difference	ms	≤ 2
7	Switch on time	ms	≤ 150
8	Switch off time	ms	≤ 60
9	DC resistor of per phase circuit	$\mu\Omega$	≤ 100

Notes: The DC resistance value of each phase circuit does not include the resistance value of current transformer.

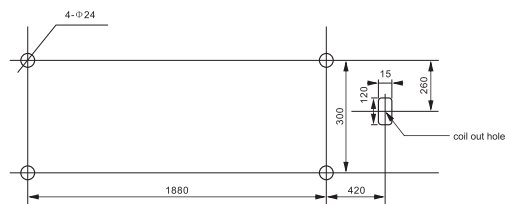
OUTLINE AND MOUNTING DIMENSIONS

1. Outline dimension

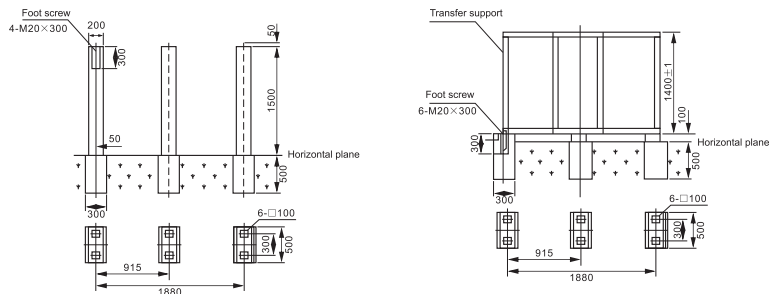


2. Outline size

2.1 Outline size please see drawing



2.2 Installs the foundation dimensional drawing



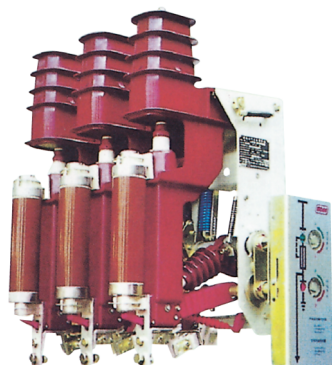
ORDERING INFORMATION

1. type and parameter
2. switchgear type and width
3. rated operating voltage
4. operation mechanism
5. with /or without arrester
6. special requirement

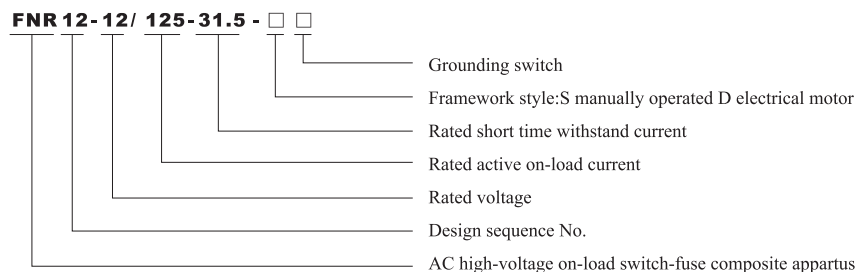
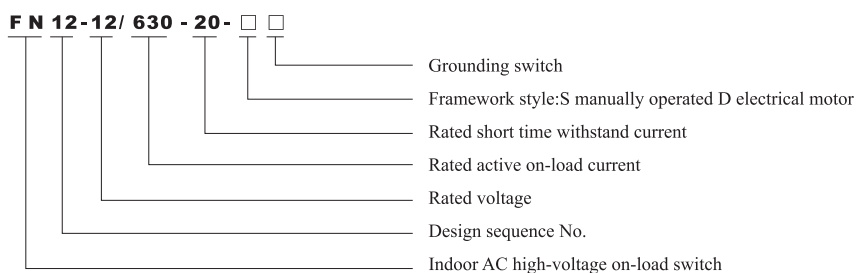
FN12-12 TYPE OUTDOOR MEDIUM-VOLTAGE VACUUM CIRCUIT BREAKER

GENERALS

The composite apparatus of FN12-12 and FNR12-12 is three-phase high-voltage switchgear with rated voltage 12kV, rated frequency 50Hz, applying to separate and close load current, closed-loop current, charging current of no-load transformer and cable, to close the short circuit current and assembling equip load switch of grounding switch. It can bear short circuit current. It is mainly applied as loading control and short circuit protection in downtown distribution station of three-phase ring net or terminal power supply and industrial consumer.



OPERATING ENVIRONMENT CONDITION



TECHNICAL PARAMETERS

No.	Name	Unit	FN12-12/630	FNR12-12/125
1	Rated voltage	kV	12	
2	Rate Frequency	Hz	50	
3	Rated current	A	630	125
4	Lightning impulse withstand voltage	kV	To earth and between phase 75, across insulator 85	
5	Power frequency withstand voltage for 1 min	kV	To earth and between phase 42, across insulator 48	
6	Rated short time withstand current	kA	20(4S)	
7	Rated peak withstand current	kA	50	
8	Rated short closed circuit current	kA	50	
9	Rated short open circuit current	kA		31.5
10	Minimum breaking current	kA		Subject to characteristic curve of fuse
11	Rated transfer current	kA		1.5
12	Maximum breaking current Ireference value	kA		1.8
13	Capacity of breaking no-load transformer	kVA		1600
14	Rated charging current of breaking cable	A		16
15	Breaking times of rated active on-load current	次	>100	
16	Gate-seperate time of striker triggering load switch	S		<0.06
17	Short time withstand current of grounding switch	kA	20(2S)	
18	Peak withstand current of grounding switch	kA	50	
19	Operating voltage		AC/DC 220	

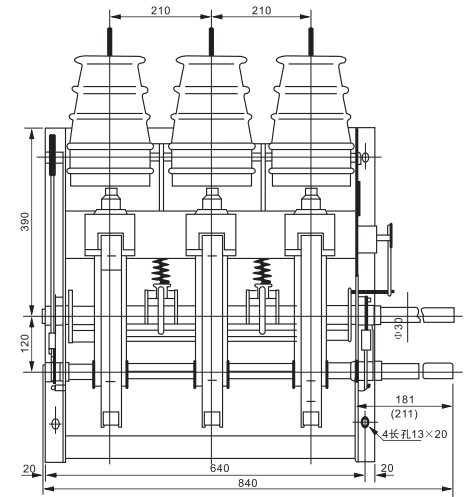
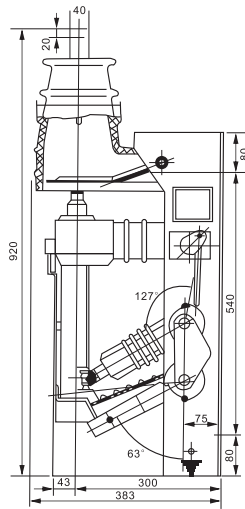
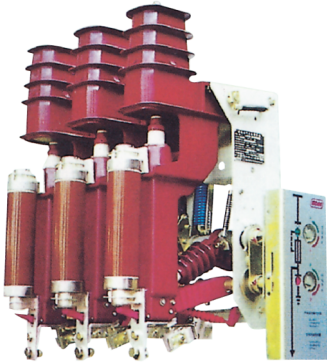


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VACUUM CIRCUIT BREAKER

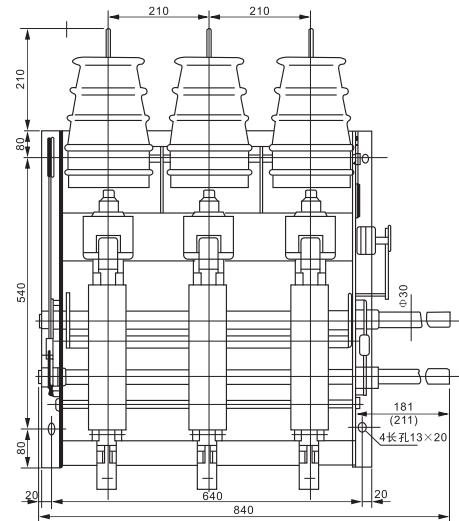
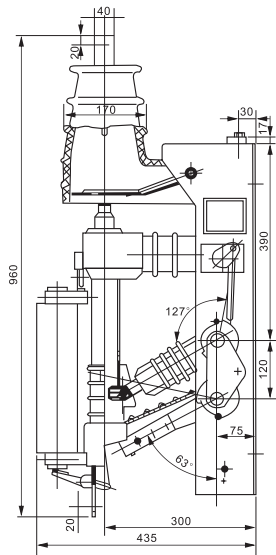
FN12-12 TYPE OUTDOOR MEDIUM-VOLTAGE VACUUM CIRCUIT BREAKER

OUTLINE AND MOUNTING DIMENSIONS



Notes: The user specially requires the principle axis nose with hole $\Phi 10$, the size should 870mm

Drawing 1: Outline diagram of FN12-12 style indoor high-voltage load switch

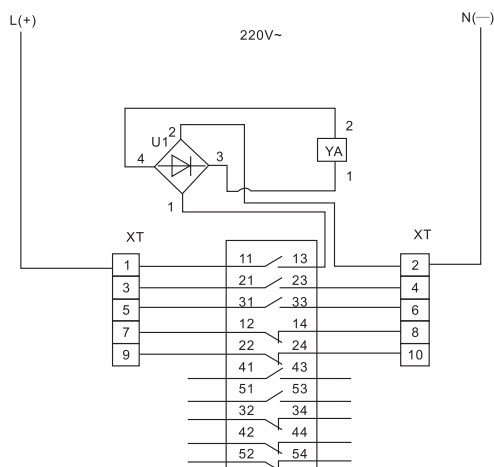
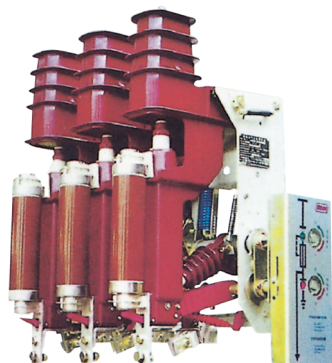


Notes: The user specially requires the principle axis nose with hole $\Phi 10$, the size should 870mm

Drawing 2: Structural representation, outline and installing dimension diagram of load switch-fuse composite apparatus.

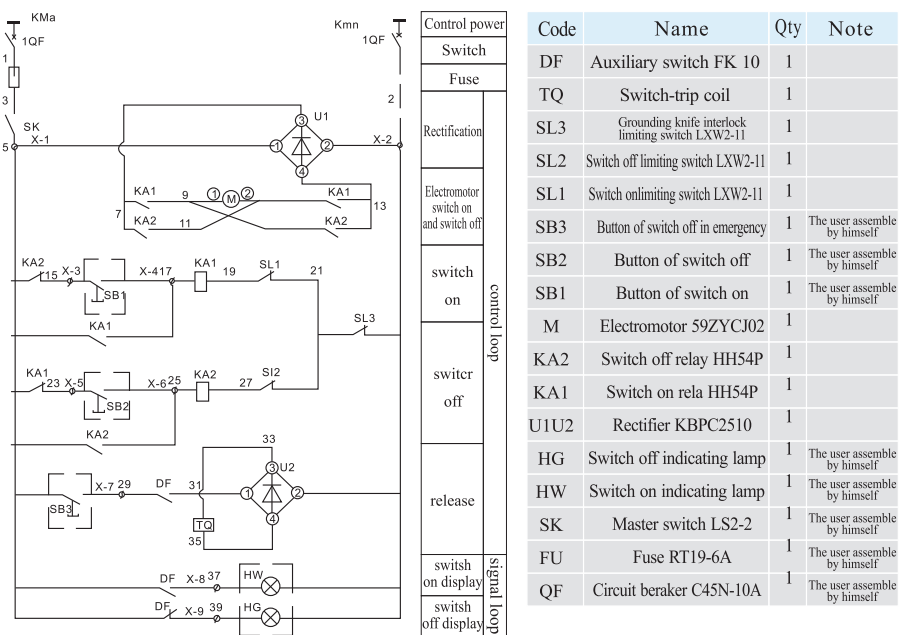
FN12-12 TYPE OUTDOOR MEDIUM-VOLTAGE VACUUM CIRCUIT BREAKER

SCHEMATIC DIAGRAM OF MOTOR SWITCH-OFF AND MOTOR OPERATION MECHANISM



Code	Name	Qty	Note
FU	Fuse 6A	1	The user assemble by himself
YA	Switch-off electromagnet (220V~)	1	5WXJ.617.001G
U1	Bridge style full wave rectifier	1	KBPC25-10
S	Auxiliary switch	1	F10-10/W
XT	Connection terminal row	1	JH9 660V/15A

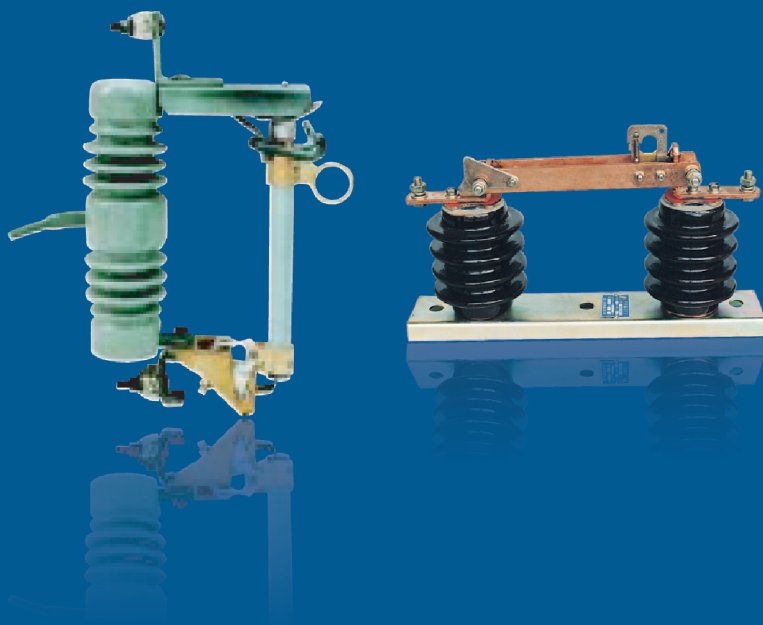
Drawing3: Schematic diagram of motor switch off



Drawing4: Schematic diagram of motor operation mechanism



DROP-OUT FUSE



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DROP-OUT FUSE

DROP-OUT FUSE SERIES

12KV-15KV

Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kG)	Dimensions (cm)
PEP-1	15	100	10000	110	40	250	7.3	38.5x34.5 x10.5
PEP-1	15	200	12000	110	40	250	7.3	



12KV-15KV

Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kG)	Dimensions (cm)
PEP-2	15	100	10000	110	40	250	7.5	40 x 34.5 x 11
PEP-2	15	200	12000	110	40	250	7.5	



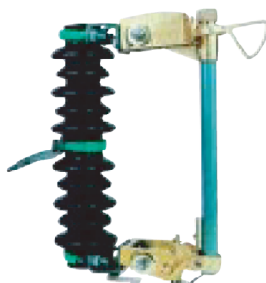
12KV-15KV

Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kG)	Dimensions (cm)
PEP-3	15	100	10000	110	40	250	7.3	38.5 x 34.5 x 10.5
PEP-3	15	200	12000	110	40	250	7.3	



12KV-15KV

Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kG)	Dimensions (cm)
PEP-4	15	100	8000	110	40	340	7.5	42 x 33 x 11.5
PEP-4	15	200	10000	110	40	340	7.5	





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DROP-OUT FUSE

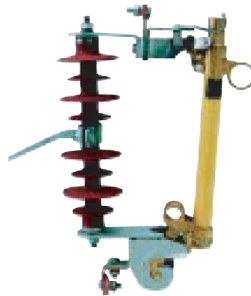
DROP-OUT FUSE SERIES

12KV-15KV



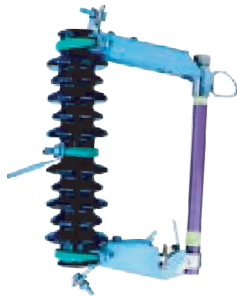
Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kG)	Dimensions (cm)
PEP-5	15	100	10000	110	40	350	3.5	42x35
PEP-5	15	200	12000	110	40	350	3.5	x 11

12KV-15KV



Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kG)	Dimensions (cm)
PEP-6	15	100	10000	110	40	350	3.8	45 x 35
PEP-6	15	200	12000	110	40	350	3.8	x 12

12KV-15KV



Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kG)	Dimensions (cm)
PEP-7	15	100	6000	110	42	340	7.5	49 x 27
PEP-7	15	200	8000	110	42	340	7.5	x 11.5

12KV-15KV



Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kG)	Dimensions (cm)
PEP-8	15	100	6000	110	45	530	12	51.5x51.5
PEP-8	15	200	8000	110	45	530	12	x 13



DROP-OUT FUSE SERIES

12KV-15KV



Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kG)	Dimensions (cm)
PEP-9	15	100	10000	110	40	300	7.5	39x34.5 x10.5
PEP-9	15	200	12000	110	40	300	7.5	

10KV-15KV



Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kG)	Dimensions (cm)
PEP-10	15	100	10000	110	45	380	7.3	45.5x35.5 x10.5
PEP-10	15	200	12000	110	45	380	7.3	

10KV-15KV



Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kG)	Dimensions (cm)
PEP-11	15	100	10000	110	40	260	8.5	48.5 x 44 x 13.5
PEP-11	15	200	12000	110	40	260	8.5	

12KV-15KV



Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kG)	Dimensions (cm)
PEP-12	15	100	10000	125	45	350	8.5	48 x 34.5 x 10.5
PEP-12	15	200	12000	125	45	350	8.5	

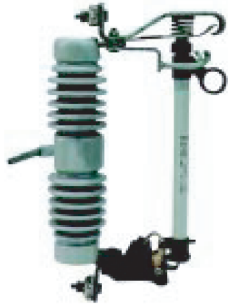


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DROP-OUT FUSE

DROP-OUT FUSE SERIES

15KV-27KV



Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kG)	Dimensions (cm)
PEP-13	15	100	10000	125	45	350	8.8	51.5x34 x 12
PEP-13	15	200	12000	125	45	350	8.8	

15KV-27KV



Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kG)	Dimensions (cm)
PEP-14	15	100	10000	125	45	350	8.5	45 x 34.5 x 10
PEP-14	15	200	12000	125	45	350	8.5	

15KV-27KV



Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kG)	Dimensions (cm)
PEP-15	15	100	10000	125	45	350	8.5	48 x 35 x 10.5
PEP-15	15	200	12000	125	45	350	8.5	

15KV-27KV



Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kG)	Dimensions (cm)
PEP-16	15	100	10000	125	45	350	12	50 x 36 x 13
PEP-16	15	200	12000	125	45	350	12	



DROP-OUT FUSE SERIES

15KV-27KV



Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kG)	Dimensions (cm)
PEP-17	15	100	10000	125	45	350	8.5	48x35 x10.5
PEP-17	15	200	12000	125	45	350	8.5	

24KV-27KV



Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kG)	Dimensions (cm)
PEP-18	24	100	8000	150	65	530	12	48 x 34.5 x 14
PEP-18	24	200	10000	150	65	530	12	

24KV-27KV



Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kG)	Dimensions (cm)
PEP-19	24	100	8000	150	65	540	12	49 x 35 x 14
PEP-19	24	200	10000	150	65	540	12	

24KV-27KV



Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kG)	Dimensions (cm)
PEP-20	24	100	8000	150	65	470	13	56 x 38 x 10.5
PEP-20	24	200	10000	150	65	470	13	



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DROP-OUT FUSE

DROP-OUT FUSE SERIES

27KV-33KV

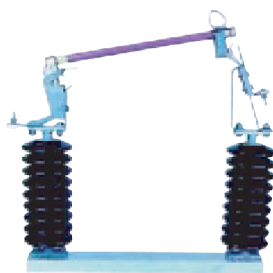


Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kG)	Dimensions (cm)
PEP-21	30	100	6000	170	70	700	15	56 x 38 x 14.5
PEP-21	30	200	8000	170	70	700	15	



33KV-36KV

Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kG)	Dimensions (cm)
PEP-22	33	100	10000	170	70	720	15.5	57 x 38 x 14.5
PEP-22	33	200	12000	170	70	720	15.5	



33-36KV

Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kG)	Dimensions (cm)
PEP-23	33	100	8000	170	70	820	27.5	68 x 17 x 15
PEP-23	33	200	10000	170	70	820	27.5	



12KV-15KV

Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)	Weight (kG)	Dimensions (cm)
PEP-24	15	100	10000	125	45	350	8.0	50 x 36 x 13
PEP-24	15	200	12000	125	45	350	8.0	



DROP-OUT FUSE SERIES

10KV-15KV

Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)
PEP-G(a)	10-15	100	10000	110	40	380
PEP-G(a)	10-15	200	12000	110	40	380



10KV-15KV

Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)
PEP-G(b)	10-15	100	10000	110	40	380
PEP-G(b)	10-15	200	12000	110	40	380

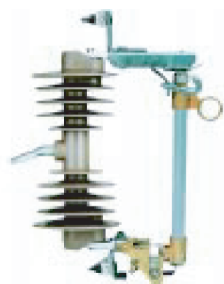
24KV-27KV

Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)
PEP-G(c)	24-27	100	6000	150	65	560
PEP-G(c)	24-27	200	8000	150	65	560



24KV-27KV

Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)
PEP-G(d)	24-27	100	6000	150	65	650
PEP-G(d)	24-27	200	8000	150	65	650



24KV-27KV

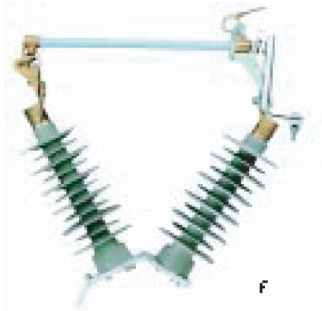
Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)
PEP-G(e)	24-27	100	6000	150	65	800
PEP-G(e)	24-27	200	8000	150	65	800





DROP-OUT FUSE SERIES

27KV-33KV

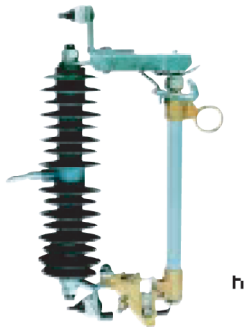


Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)
PEP-G(f)	27-33	100	6000	170	70	1070
PEP-G(f)	27-33	200	8000	170	70	1070

27KV-33KV



Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)
PEP-G(g)	27-33	100	6000	170	70	620
PEP-G(g)	27-33	200	8000	170	70	620



30KV-33KV

Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)
PEP-G(h)	30-33	100	6000	170	70	680
PEP-G(h)	30-33	200	8000	170	70	680



36KV-38KV

Type	Rated voltage (kV)	Rated current (A)	Breaking current (A)	Impulse voltage (BIL)	Power-frequency withstand voltage	Leakage distance (mm)
PEP-G(i)	36-38	100	6000	180	75	820
PEP-G(i)	36-38	200	8000	180	75	820



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DROP-OUT FUSE

KB KU KS TYPE OF FUSE WIRE(FUSE LINK)

“KB” “KU” “KS” type fuses belong to “K” type fuse, it has general type, universal type and screw type, It according as IEC-282 standard. This product apply to drop-off type fuse of 11~36KV grade.



Rated current (A)	Dimension (mm)						Quantity/ carton	
	AB				C	D		F
1 to 25	12.5	0.2	19.0	0.2	Note 1	2.0	6.5	500
30 to 40	12.5	0.2	19.0	0.2	Note 1	3.0	8.0	500
50 to 100	19.0	0.3	Not applicable		Note 1	5.0	10.0	250
140 to 200	19.0	0.3	Not applicable		Note 1	7.0	12.0	150

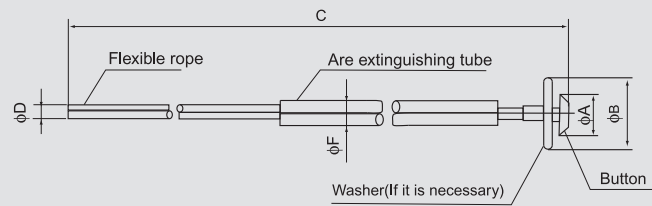
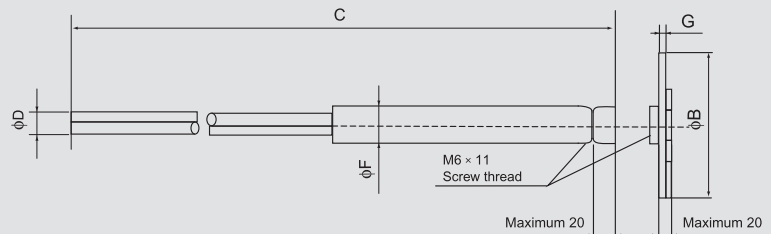


Fig.B.1a button type

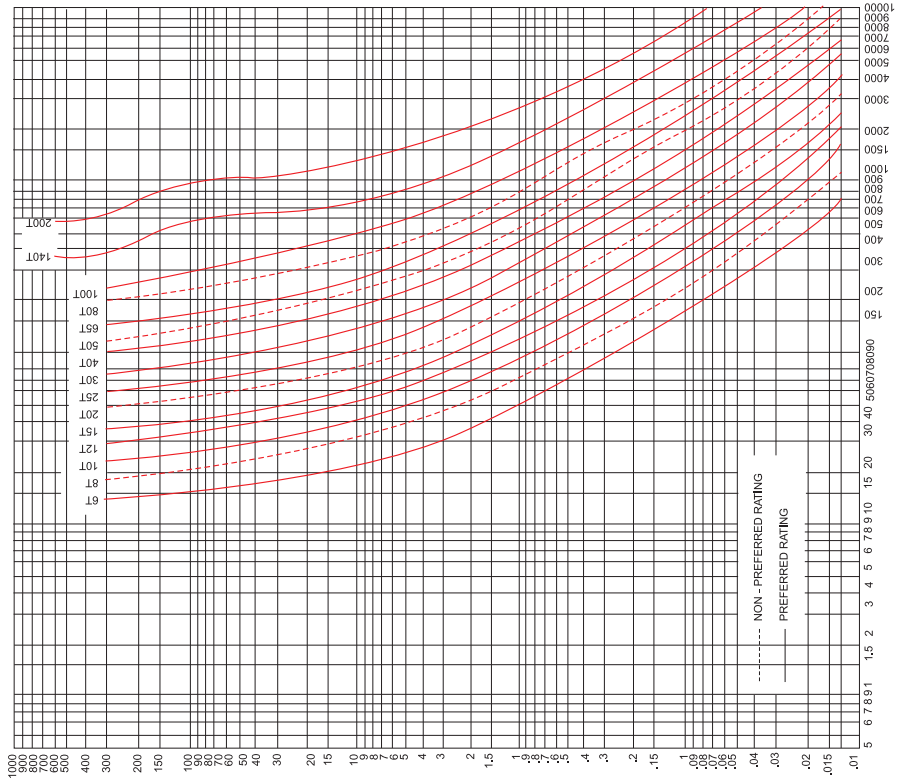
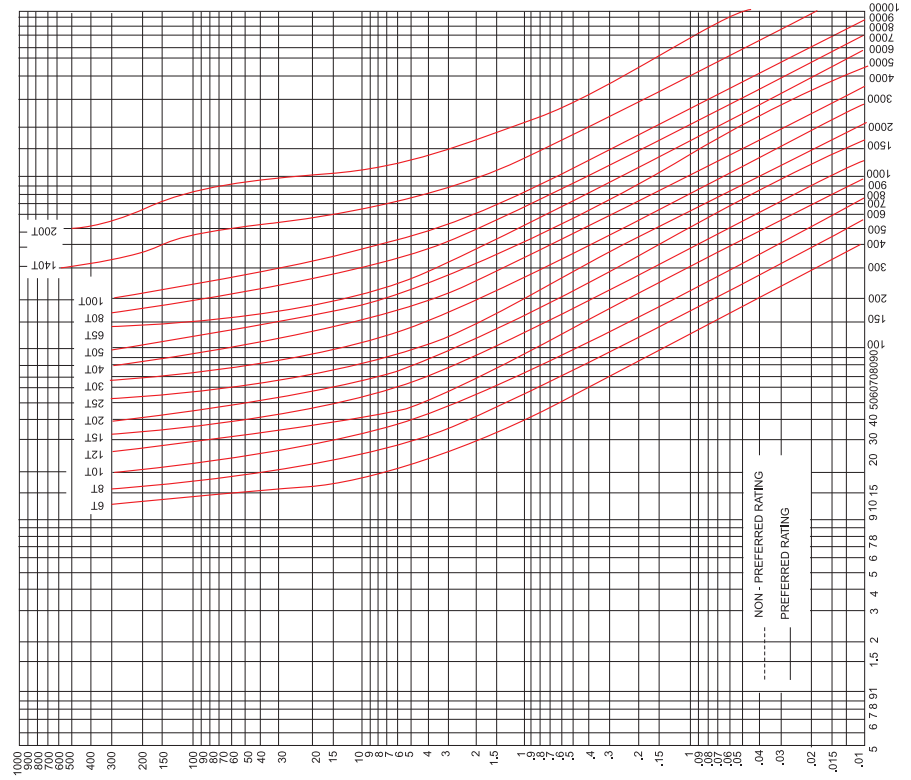




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DROP-OUT FUSE

KB KU KS TYPE OF FUSE WIRE CURRENT IN AMPERS

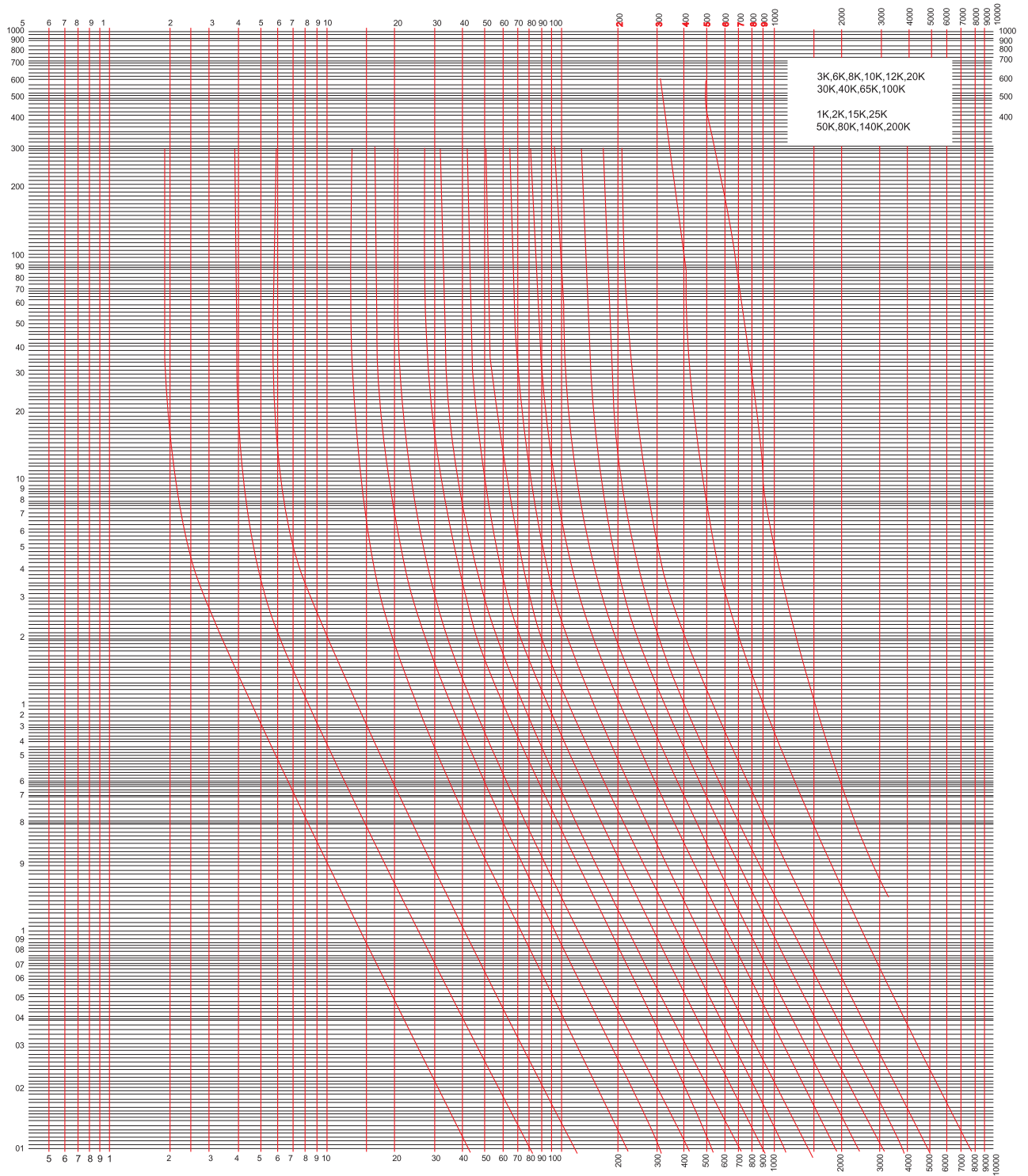




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DROP-OUT FUSE

KB KU KS TYPE OF FUSE WIRE CURRENT IN AMPERS



FOR FULL RANGE TRANSFORMER PROTECTION



CHARACTERISTIC BRIEF

1. Rated voltage from 7.2KV to 40.5KV
2. Wide range of rated current from 6.3A to 200A
3. Full range performance options available at 12KV and 24KV
4. Powerful pyrotechnic or spring striker
5. H.R.C.
6. Current-limiting
7. Low power dissipation, low temperature rise
8. Operation extremely quickly, high reliability
9. With primary coil of transformer in series
10. Isolating & protecting transformer
11. Conforming to standards: GB15166.2 DIN43625 BS2692-1 IEC60282-1

MODEL ILLUSTRATION

12 S D L A J 16

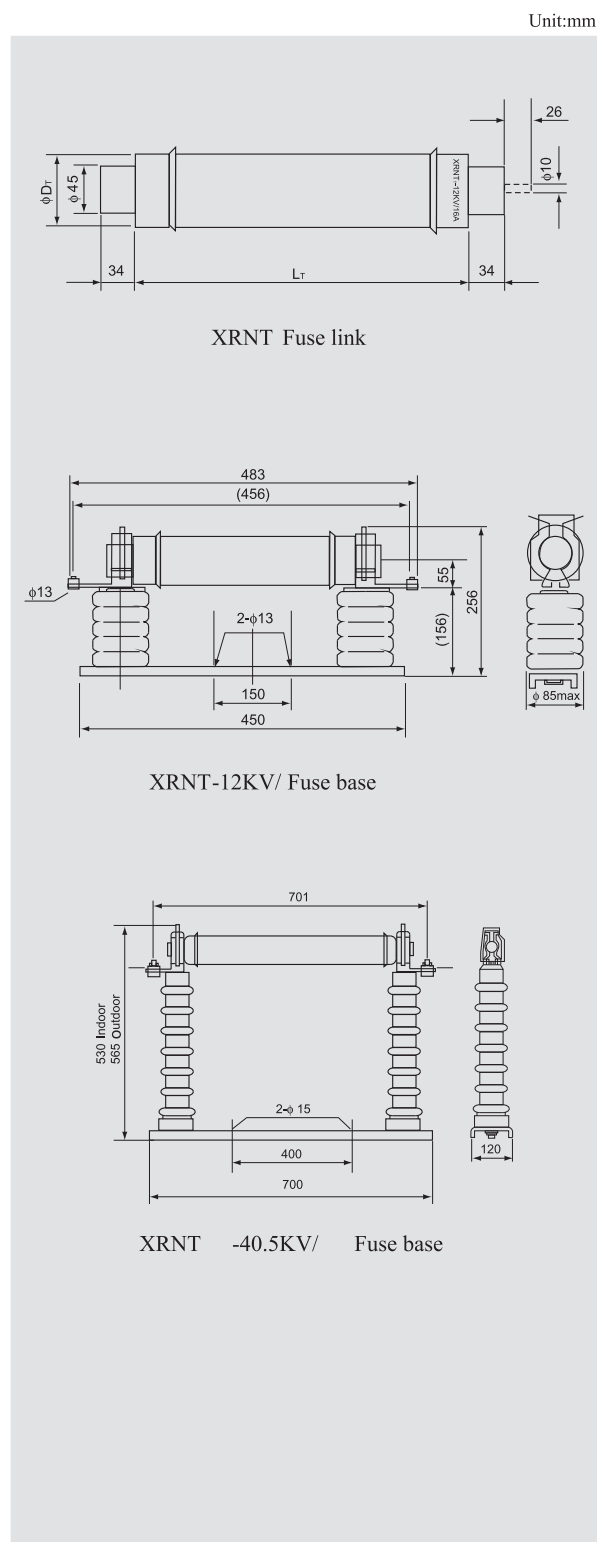
- Rated current (A)
- J: Ferrule to DIN 43625
- N: None striker
- A: With Striker
- Fuse link length: L=292mm;
M=422mm; Q=537mm
- Fuse link diameter: D=φ51mm;
F, I, K=φ76mm; X=φ88mm
- S: DIN Range
- F: Full Range
- Rated voltage (KV)

FOR FULL RANGE TRANSFORMER PROTECTION

XRNT SELECTION TABLE

Model	Rated voltage U _n (KV)	Rated current I _n (A)	Diameter Length D _r L _r (mm)	Breaking capacity I _b (KA)	
XRNT	7.2 10 12	6.3	φ 51 × 292	63	
		10			
		16			
		20			
		25			
		31.5			
		40	φ 76 × 292		
		50			
		63			
		80			
		100			
		125			
	17.5 24	160	φ 88 × 292	50	
		200			
		6.3	φ 51 × 442		63
		10			
		16			
		20			
	25				
	31.5				
	40	φ 76 × 442			
	50				
	63				
	80				
100					
125					
36 40.5	160	φ 88 × 442	40		
	200				
	6.3	φ 51 × 537			
	10				
	16				
	20				
25					
31.5					
40	φ 76 × 537				
50					
63					

XRNT EXTERNAL&INSTALLATIONDIMENSIONS





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HV H.R.C FUSE SERIES

FOR USE IN OIL SWITCHGEAR



CHARACTERISTIC BRIEF

1. Rated voltage from 3.6KV to 12KV
2. Wide range of rated current from 6.3A to 250A
3. Powerful pyrotechnic striker
4. Unique tripe seal
5. H.R.C.
6. Current-limiting
7. Low power dissipation, low temperature rise
8. Operation extremely quickly, high reliability
9. Mainly used for back-up protection in transformers of American type
10. Conforming to standards: GB15166.2 BS2692-1 / IEC60282-1

MODEL ILLUSTRATION

12 O E F M A 63

- Rated current (A)
- A: No Tags
- H or M: Striker to BS2692-1
- Fuse link length: F=254mm; G=359mm
- Fuse link diameter: E,H,L= 63mm
- O: Fuse sealed for use in oil switchgear
- Rated voltage (KV)



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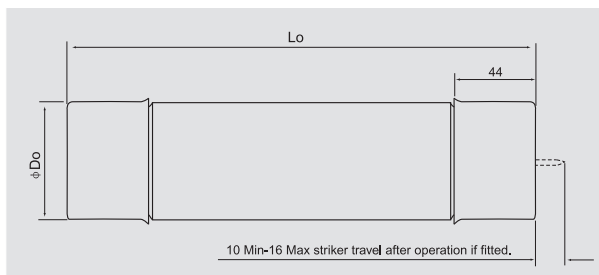
HV H.R.C FUSE SERIES

FOR USE IN OIL SWITCHGEAR

XRNO 1 SERIES SELECTION TABLE

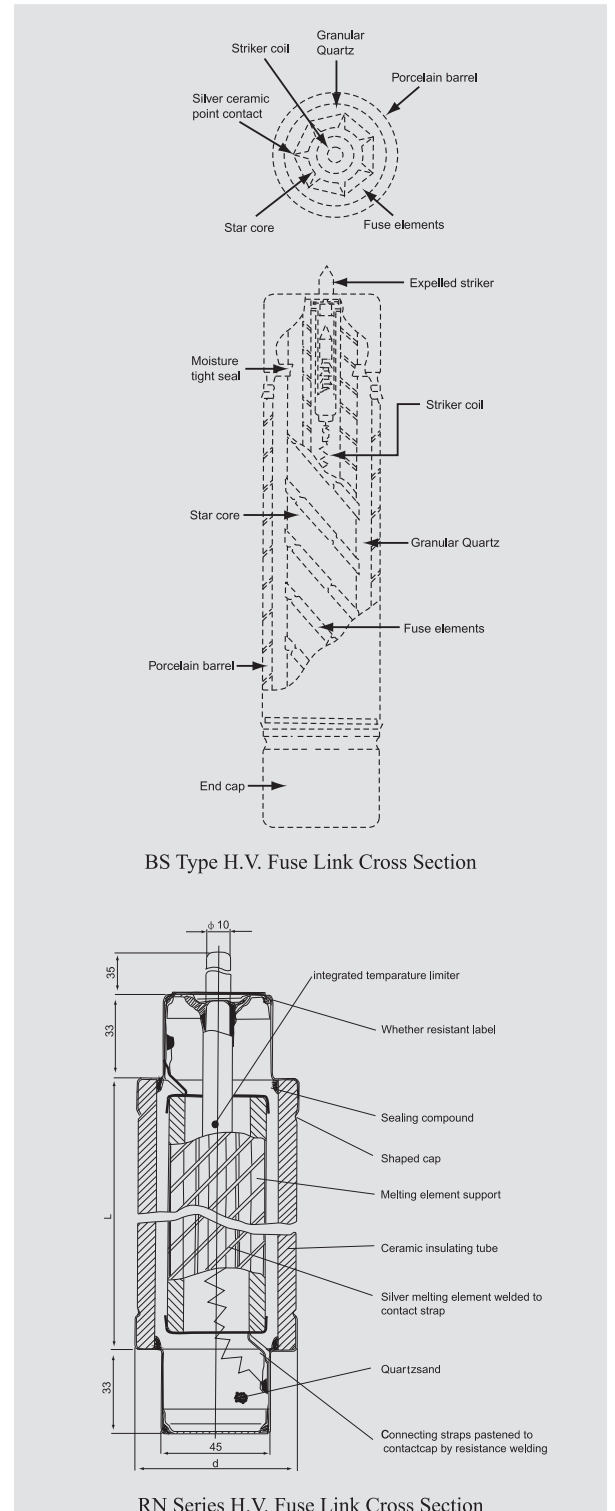
Model	Rated voltage Un(KV)	Rated current n(A)	Diameter Length DO LO (mm)	Breaking capacity I(KA)	
XRNO1	3.6	6.3	φ 63 × 254	50	
		10			
		16			
		20			
		25			
		31.5			
		40			
		50			
		63			
		80			
		100			
		125			
		160			
		200			
		250			
	7.2	7.2	80	φ 63 × 359	45
			100		
			112		
			100		
			125		
			140		
			160		
			160		
			160		
			160		
12	12	6.3	φ 63 × 359	40	
		10			
		16			
		20			
		25			
		31.5			
		40			
		50			
		63			
		71			
80					
90					
100					
125					

XRNO 1 External Dimensions

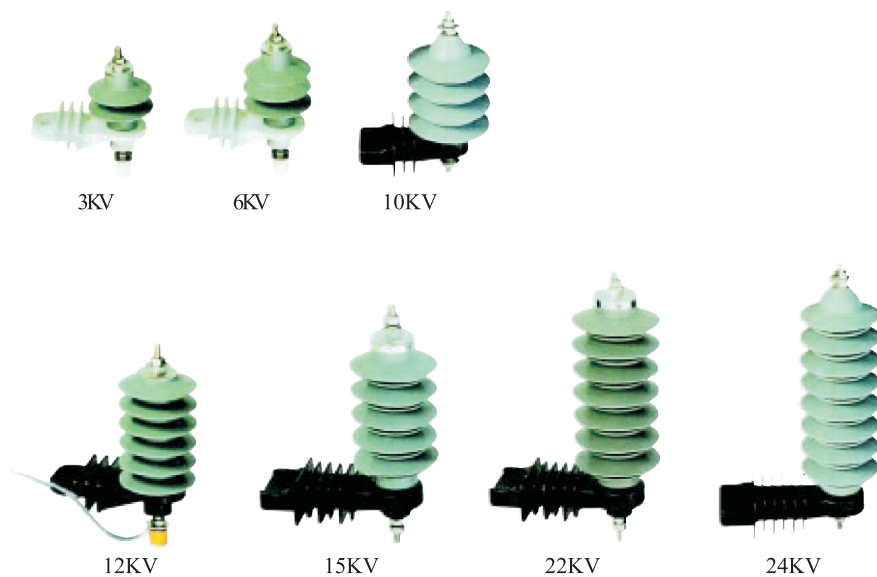


BS&DIN TYPE H.V. FUSE LINK CROSS SECTION COMPARED

Unit:mm

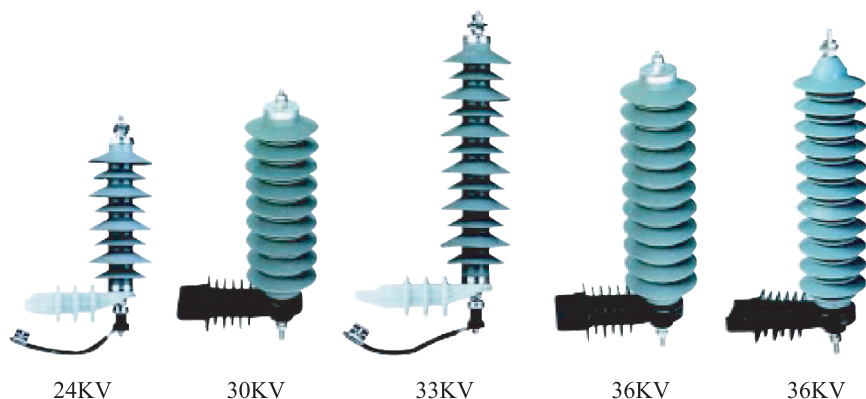


POLYMERIC HOUSED METAL-OXIDE SURGE ARRESTER WITHOUT GAPS NOMINAL DISCHARGE CURRENT 5KA(3-36KV)



Type	MOA Rated voltage KV(rms)	MCOV KV(rms)	Current impulse Residual Voltage			2ms Rectangular current impulse withstand KV(crest)	4/10s High current impulse withstand KV(crest)
			1/4s Lightning current impulse KV(crest)	8/20s Lightning current impulse KV(crest)	30/60s Switching current impulse KV(crest)		
HY5W-3	3	2.55	11.3	9	8.9	150	65
HY5W-6	6	5.1	22.6	18	16.8	150	65
HY5W-9	9	7.65	33.7	27	23.8	150	65
HY5W-10	10	8.4	36	30	23	150	65
HY5W-11	11	9.4	40	33	30	150	65
HY5W-12	12	10.2	42.2	36	27	150	65
HY5W-15	15	12.7	51	45	38.5	150	65
HY5W-18	18	15.3	61.5	54	46.2	150	65
HY5W-21	21	17.0	71.8	63	54.2	150	65
HY5W-24	24	19.5	82	72	62	150	65
HY5W-27	27	22.0	92	81	69.8	150	65
HY5W-30	30	24.4	102	90	79	150	65
HY5W-33	33	27.5	112	99	86.7	150	65
HY5W-36	36	29.0	123	108	92.4	150	65

POLYMERIC HOUSED METAL-OXIDE SURGE ARRESTER WITHOUT GAPS NOMINAL DISCHARGE CURRENT 10KA(3-36KV)



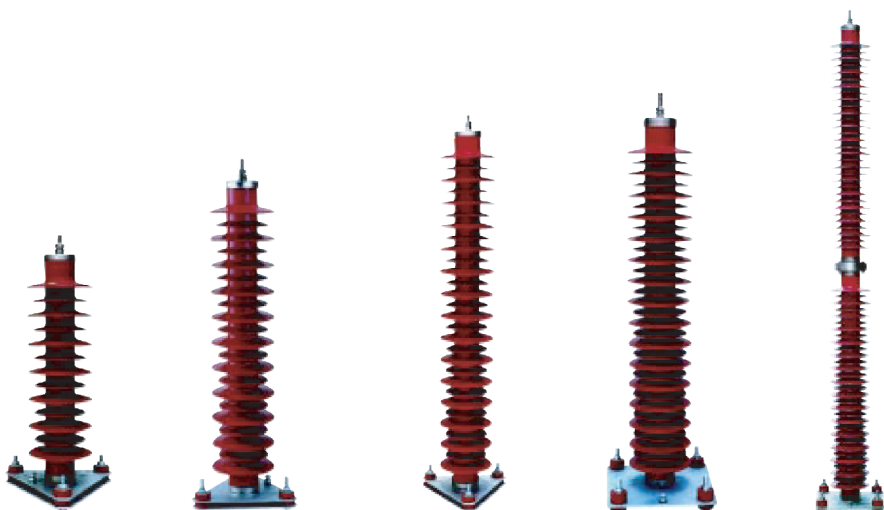
Type	MOA Rated voltage KV(rms)	MCOV KV(rms)	Current impulse Residual Voltage			2ms Rectangular current impulse withstand KV(crest)	4/10s High current impulse withstand KV(crest)
			1/4 s Lightning current impulse KV(crest)	8/20 s Lightning current impulse KV(crest)	30/60 s Switching current impulse KV(crest)		
HY10W-3	3	2.55	11.3	9	8.9	250	100
HY10W-6	6	5.1	22.6	18	16.8	250	100
HY10W-9	9	7.65	33.7	27	23.8	250	100
HY10W-10	10	8.4	36	30	23	250	100
HY10W-11	11	9.4	40	33	30	250	100
HY10W-12	12	10.2	42.2	36	27	250	100
HY10W-15	15	12.7	51	45	38.5	250	100
HY10W-18	18	15.3	61.5	54	46.2	250	100
HY10W-21	21	17.0	71.8	63	54.2	250	100
HY10W-24	24	19.5	82	72	62	250	100
HY10W-27	27	22.0	92	81	69.8	250	100
HY10W-30	30	24.4	102	90	79	250	100
HY10W-33	33	27.5	112	99	86.7	250	100
YH10W-36	36	29.0	123	108	92.4	250	100

PORCELAIN HOUSED METAL-OXIDE SURGE ARRESTER WITHOUT GAPS (3-36KV)



Type	Rated voltage of arrester KV	Max. continuous operating voltage	D.C.(U1mA) reference voltage kV not less than	Nominal discharge current	Max residual voltage(peak)			Current impulse withstand discharge capacity	
					Steep current impulse KV	Lightning impulse current KV	Switching current impulse KV	2000 s A	4/10s KA
Y1.5W-0.28/1.3	0.28	0.24	0.6	1.5	1.4	1.3		75	25
Y1.5W-0.5/2.6	0.5	0.42	1.2	1.5	2.7	2.6		75	25
Y5W-3/10	3	2.55	5.5	5	11.3	10	8.9	150	65
Y5W-6/20	6	5.2	11	5	22.6	20	17.8	150	65
Y10W-3/10	3	2.55	5.2	10	11.3	10	8.9	250	100
Y10W-6/20	6	5.2	10.8	10	22.6	20	17.8	250	100
Y5W-9/30	9	7.70	16.0	5	34	30	26.8	150	65
Y5W-11/36	11	9.4	19.5	5	41.5	36	32.7	150	65
Y5W-12/39	12	10.2	21.5	5	45.3	39	35.7	150	65
Y10W-9/30	9	7.7	16.0	10	34	30	26.8	250	100
Y10W-11/36	11	9.4	19.2	10	41.5	36	32.7	250	100
Y10W-12/39	12	10.2	21.3	10	45.3	39	35.7	250	100
Y5W-15/42	15	12.75	22.0	5	47.5	42	35.8	150	65
Y5W-18/50	18	15.3	26.5	5	57.0	50	43.0	150	65
Y10W-15/42	15	2.75	22.0	10	47.5	42	35.8	250	100
Y10W-18/50	18	15.3	26.0	10	57.0	50	43.0	250	100
Y5W-21/62	21	17.1	33.4	5	70.0	62	54.2	150	65
Y5W-24/70	24	19.5	38.0	5	80.0	70	62.0	150	65
Y10W-21/62	21	17.1	33.0	10	70.0	62	54.2	250	100
Y10W-24/70	24	19.5	37.0	10	80.0	70	62.0	250	100
Y5W-36/100	36	30.4	54.5	5	115	100	86.7	150	65
Y10W-36/100	36	30.4	54.0	10	115	100	86.7	250	100

POLYMERIC HOUSED METAL-OXIDE SURGE ARRESTER (35-220KV)



HY5W-35KV

HY5W-66KV
HY10W-66KV

HY5W-110KV

HY10W-110KV

HY10W-220KV

Type	Rated voltage of arrester kV	Nominal voltage of system (virtual value) kV	Continuous operating voltage (virtual value) kV	Reference voltage not less than D.C (U _{1mA}) kV	Max residual voltage(peak)			2000 s rectangular impulse current (peak value) A	4/10 s impulse current (peak value) KA	The max. leakage current of 0.75DC reference voltage A
					Steep current impulse KV	Lightning impulse current KV	Switching current impulse KV			
HY5WZ-42/134	42	35	23	73	154	134	114	150	65	50
HY5WZ-51/134	51	35	40.8	73	154	134	114			
HY5WZ-52.7/134	52.7	35	40.8	73	154	134	114			
HY5WZ-54/134	54	35	41	73	154	134	114	400	65	50
HY5W-75/215	75	66	60	123	248	215	183			
HY5W-90/224	90	66	72.5	130	258	224	190			
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			
HY5W-100/260	100	110	78	145	291	260	221	400	65	50
HY5W-102/266	102	110	79.6	148	297	266	226			
HY5W-108/281	108	110	84	157	315	281	239			
HY10W-100/260	100	110	78	145	291	260	221	600	100	50
HY10W-102/266	102	110	79.6	148	297	266	226			
HY10W-108/281	108	110	84	157	315	281	239			
HY10W-200/520	200	220	156	290	582	520	442	600	100	60
HY10W-204/532	204	220	159	296	594	532	452			
HY10W-216/562	216	220	168.5	314	630	562	478			

PORCELAIN HOUSED METAL-OXIDE SURGE ARRESTER WITH GAPS(35-110KV)



Y5W-35KV
Y10W-35KV



Y5W-35KV
Y10W-35KV



Y5W-66KV
Y10W-66KV



Y5W-110KV
Y10W-110KV

Type	Rated voltage of arrester KV	Nominal voltage of system (virtual value) KV	Continuous operating voltage (virtual value) KV	Reference voltage not less than D.C (U1ma) KV	Max residual voltage(peak)			2000 s rectangular impulse current (peak value) A	4/10s impulse current (peak value) KA	The max. leakage current of 0.75DC reference voltageA
					Steep current impulse KV	Lightning impulse current KV	Switching current impulse KV			
Y5WZ-42 /134W	42	35	23	73	154	134	114	150	65	50
Y5WZ-51 /134W	51	35	40.8	73	154	134	114			
Y5WZ-52.7 /134W	52.7	35	40.8	73	154	134	114			
Y5WZ-54 /134W	54	35	41	73	154	134	114			
Y5W-75/215	75	66	60	123	248	215	183	400	65	50
Y5W-90/224	90	66	72.5	130	258	224	190			
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			
Y5W-100/260	100	110	78	145	291	260	221	400	65	50
Y5W-102/266	102	110	79.6	148	297	266	226			
Y5W-108/281	108	110	84	157	315	281	239			
Y10W-100/260	100	110	78	145	291	260	221	600	100	50
Y10W-102/266	102	110	79.6	148	297	266	226			
Y10W-108/281	108	110	84	157	315	281	239			

COMPOSITE INSULATOR SERIES

PRODUCT INTRODUCTION

FPQ pin composite insulator for powerlines
 FXBW Rod suspension composite insulators
 FS cross-arm composite insulator
 FZS Rod post composite insulator

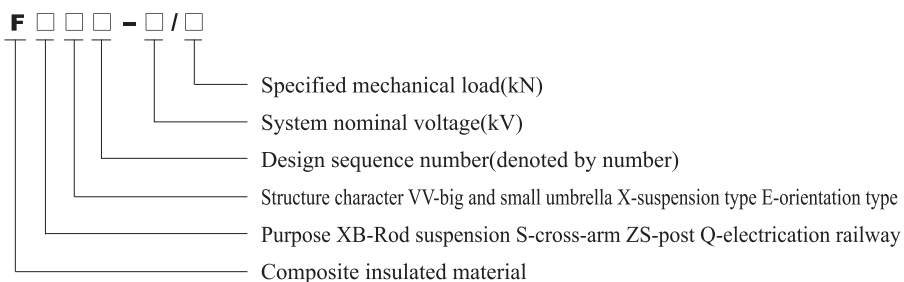
PRODUCT STRUCTURE

The series products are composed of fiberglass epoxy resin lead out pole, silicon-rubber skirt and hardware. Adopted the whole liquid-compression technique in the silicon rubber skirt, the insulator solves the interface electrical breakdown, which is the key problem to the reliability of the composite insulator. With special colloid installation and compression joint technique in the connection of the fiberglass epoxy resin lead-out pole and the hardware, the insulator has the advantages of strong intensity, beautiful figure, small volume, and light weight. The zinc plated hardware, which can be interchanged with porcelain insulator, can protect again strust. The product has reliable colloid installation and compression joint structure, no damage to core pole and can greatly exert its mechanical intensity.

PRODUCT PERFORMANCE

1. Excellent electrical performance, strong mechanical intensity, the extension intensity of fiberglass epoxy resin lead-out pole can be 2 times higher than general steel, and about 10 fold to porcelain material, which can effectively increase the reliability of safeoperation.
2. Good resistance to nastiness. strong anti-defilement capacity, the flashover voltage is 1.6-2 times to the porcelain insulator with same creepage distance, not require clean, can be safely operated in heavy nastiness zone.
3. Small volume, light weight(only 1/6-1/19 of the porcelain insulator with same voltage grade), flexible structure, easy for transportation and installation.
4. The silicon rubber skirt has good hydrophobicity and the whole structure can protect against damp, not require the monitor of preventive performance insulation, not require clean and reduce daily maintenance.
5. Good seamed performance, strong resistance to electrical erosion, withstand creepage tracing of skirt material can reach TMA4.5 degree the product, have excellent resistance to erosion, resistance to low temperature and can be applicable for the zone with the temperature from -40 to+50.
6. Strong resistance to impact and shock, good resistance to brittleness and creep properties, hard to crash, bend, and wrest, can be interchanged with porcelain and glass insulator.

TYPE EXPLANATION

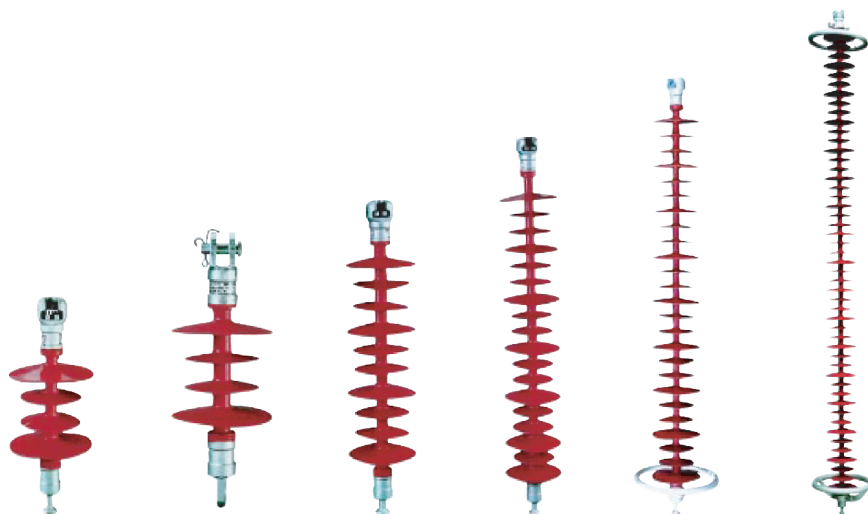




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COMPOSITE INSULATOR SERIES

COMPOSITE INSULATOR SERIES



FXBW4-10/70 FXBW4-10/70C FXBW4-35/70 FXBW4-66/70 FXBW4-110/70 FXBW4-220/100
 FXBW4-10/100 FXBW4-10/100C FXBW4-35/100 FXBW4-66/100 FXBW4-110/100 FXBW4-220/160

SUMMARY

The product is suitably applies to the power lines with high mechanical tensile and long span in grimy zone. It has the features of light weight, small volume, hard to crash.

MAIN ELECTRICAL PARAMETER

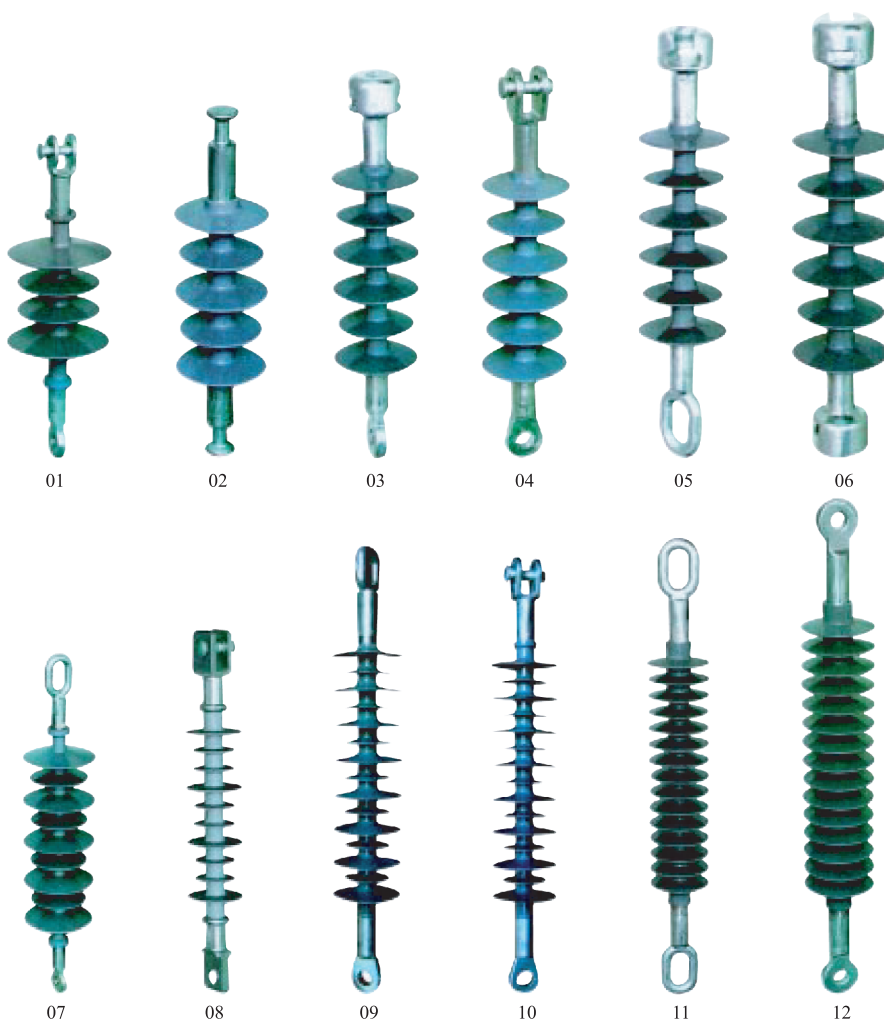
Product designation	Product type	Rated voltage kV	Specified mechanical load kN	Joint structure mark	Section length H(mm)	Min. arcing distance L _{mm}	Min. nominal creepage distance L _{mm}	Lightning impulse withstand voltage (peak value) should exceed kV	Power frequency wet withstand voltage(1 minute) not less than kV	Product weight kg
Bar type hang composite insulator	FXBW4-10/70	10	70	16	380 15	200	400	165	50	2.2
	FXBW4-10/100	10	100	16	380 15	200	400	165	50	2.2
	FXBW4-10/70C	10	70	16	380 15	200	400	165	50	2.2
	FXBW4-10/100C	10	100	16	380 15	200	400	165	50	2.2
	FXBW4-35/70	35	70	16	650 15	450	1015	230	95	3.4
	FXBW4-35/100	35	100	16	650 15	450	1015	230	95	3.4
	FXBW4-66/70	66	70	16	940 15	700	1900	410	185	4.7
	FXBW4-66/100	66	100	16	940 15	700	1900	410	185	4.7
	FXBW4-110/70	110	70	16	1240 15	1000	3150	550	230	6.1
	FXBW4-110/100	110	100	16	1240 15	1000	3150	550	230	6.1
	FXBW4-220/100	220	100	16	2240 30	1900	6300	1000	395	8.8
	FXBW4-220/160	220	160	20	2240 30	1900	6300	1000	385	10.8



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COMPOSITE INSULATOR SERIES

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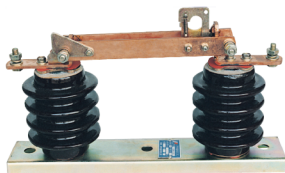
MAIN ELECTRICAL PARAMETER

Product type	Rated voltage kV	Specified mechanical load kN	Section length H(mm)	Arcing distance L.(mm)	Min. creepage distance Lc.mm	Diameter of shed D.(mm)	Lightning impulse withstand voltage (peak) (kV)	P.F.wet withstand voltage (virtual value) (kV)
FXBW-12/70	12	70	390	180	460	98/88	105	42
FXBW-15/70	15	70	445	225	620	98/88	105	42
FXBW-24/70	24	70	450	235	635	148/118	150	42
FXBW-28/70	28	70	560	380	1250	88	230	95
FXBW-33/70	33	70	560	380	1130	92/62	230	95
FXB-36/70	36	70	580	380	1250	88	230	95
FXBW-36/70	36	70	650	450	1320	148/118	230	95

GW1-12 OUTDOOR HIGH VOLTAGE ISOLATING SWITCH

GENERALS

GW1-7.2, 12/200,400,600 outdoor high voltage isolating switch is applied to outdoor circuitry of high voltage switchgear, it can make disconnection and change over circuit when with voltage but no load in the circuit .



ENVIRONMENTAL SERVICE CONDITION

1. AC50 (60)Hz outdoor switchgear
2. Elevation: 1300m and below
3. Ambient air temperature: -40℃ — +40℃
4. Place without conductive dust, corrosive gas, water vapor.
5. Place without fire and explosive danger.
6. Place without regular severe vibration

TECHNICAL PARAMETERS

Type	Rated voltage (kV)	Rated current (A)	Stability degree of short circuit current(kA)			Weight (kg)
			Utmost through current		Thermal stable current in 10 seconds (virtual value)	
			Amplitude value	Virtual value		
GW1-7.2/200	7.2	200	15	9	5	12
GW1-7.2/400	7.2	400	25	15	10	12
GW1-12/200	12	200	15	9	5	20
GW1-12/400	12	400	52	16	10	20
GW1-12/600	12	600	35	21	14	21

STRUCTURAL FEATURE

1. GW1-12 outdoor high voltage isolating switch is 3 phases apparatus comprised of 3 single pole isolating switches. Each single pole isolating switch has same components such as brace of base and operational insulator's front and back fixed contact, switch blade, angle of arcing.

A: base: the base is made of armor plate, and the shaft with draw arm crosses its central section. Holes broached on the base are to fix post insulator, mount earthing bolt and fix each single pole isolating switch. The trench hole on top is set for draw arm

B: brace and operational insulator is adopted ZPA-6 type (7.2KV) and ZPA-10 type (12KV) pin insulator, its minimum bending resistance and rupturing load is 375 and 500Kg Function of middle operational insulator is as draw rod, its top and bottom fixed by collets, the top connect to switch blade and the bottom connect to draw arm

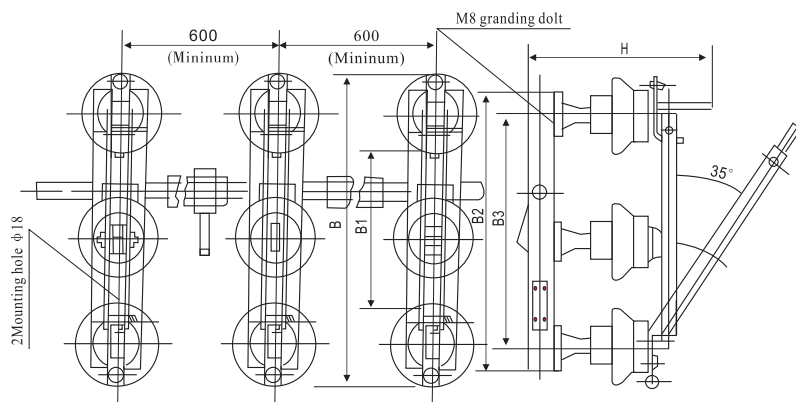
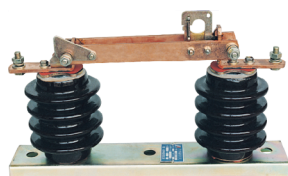
C: front and back fixed contact: blade adapter and blade tongue is made of red copper, which is fixed above the post insulator, and both sides of the top of curving sections is reliably connected to the switch blade

D: switch blade: 400A and 600A type and made of two pieces rectangular red copper plate, and 200A type is made of one piece of red copper plate and steel plate galvanized. The both side of switch blade set with helical springs in order to adjust connection pressure

F: angle of arcing: made by two pieces of $\Phi 5$ stylus, the fixed mounting on blade tongue and the moving mounting on blade itself.

GW1-12 OUTDOOR HIGH VOLTAGE ISOLATING SWITCH

THE CONTOUR AND INSTALLING DIMENSION

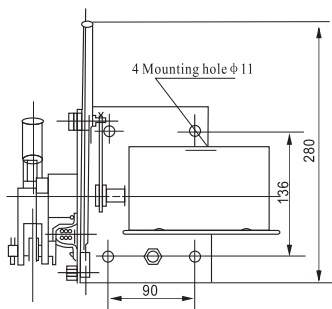


Figuration drauing of GW1-7.2、12/200.400.600 shyle isolating switch

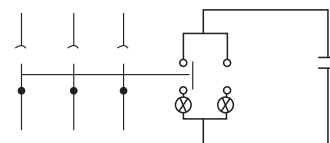
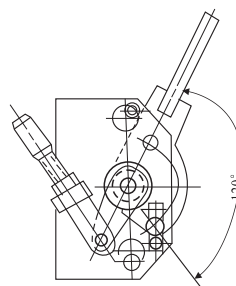
Type	H	B	B ₁	B ₂	B ₃
	GW1-7.2/200	328	580	280	500
GW1-7.2/400	328	580	280	500	420
GW1-12/200	370	670	370	620	510
GW1-12/400	370	670	370	620	510
GW1-12/600	370	670	370	620	510

2. GW1-7.2, 12/200,400,600 outdoor high voltage isolating switch adopts CS8-1 manual operation mechanism. The F1 auxiliary switch fixed on splint of mechanism, and its moving arm connect to dowel of mechanism handle. The open angle of auxiliary switch is same as handle opened.

The auxiliary switch normally functioned as signal indication and also can be electrical interlocked if required.



CS8-1 Figuration drawing of CS8-1 hand power operation mechanism



Signal conneting diagram of auxiliary switch