HV FUSE LINKS AND BASES

HV Fuse Links

3.6 / 7.2 kV 6.3 - 500 A

HV Fuse Links

6 / 12 kV 6.3 - 250 A

HV Fuse Links

20 / 24 kV 6.3 - 200 A

HV Fuse Base (Holder) 3.6/7.2kV for Fuse Link 125A 3.6/7.2kV 63kA Ø76x292 mm

HV Fuse Bases

3.6 / 7.2 kV 6/12kV 20/24 kV

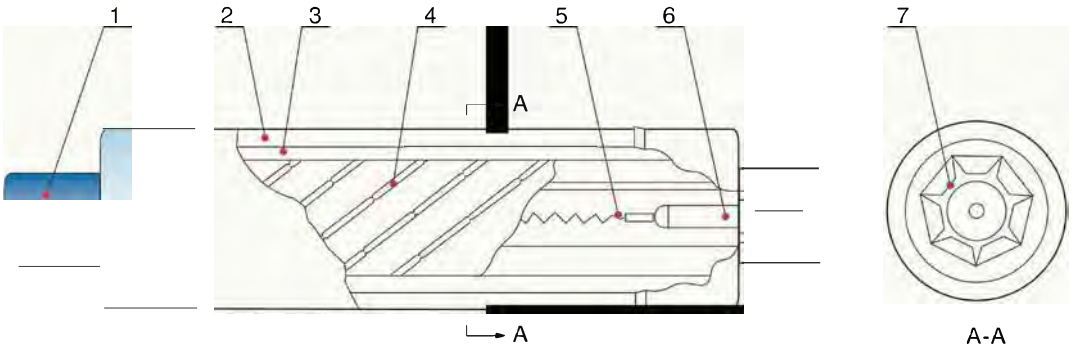
Contents

01

Product usage

This series of product is applied to power system with indoor AC 50Hz-60Hz, rated voltage being 3.6Kv-40.5Kv, and it could be cooperation-used with other protection electric device (such as vacuum connector, load switch ect) to be overload or short circuits protection components of high-voltage motor, power transformer, instruments transformer, and other electrical equipment.

The demonstrated diagram of product's structure



1.TERMINAL CAP
2.PRCELAIN TUBE
3.ARC-PERISHED FILLER
4.MELTING-BODY
5.COIL RESISTANCE
6.STRIKER DEVICE
7.STAR-SHAPED FRAMEWORK

Product characteristics of new high-voltage limit-current fuse

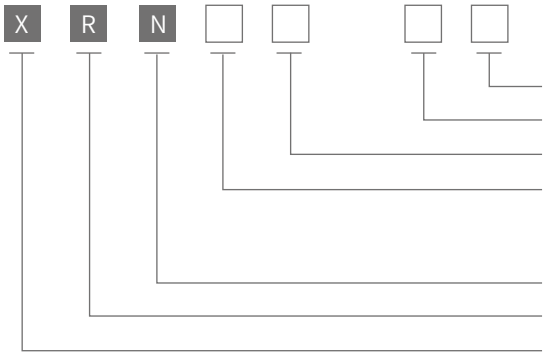
The high-Volt current-limit fuse of our company are the high-quality products with world advanced leve which are developed on basis of absorbing the same product's advantages domestical and abroad. This product owns the following characteristics:

1. with high broken-ability,the broken current can achieve 63KA.
2. Small power-consumption,low temperature-rising.
3. with fast motion properties, its ampere-second performance is faster than domestically produced product of same kind at present.Taking fuse component with rated current being 100A for example, the pre-arc time doesn't exceed 0.1Sif electrified with 1000A anticipated current.
4. The ampere-second per for man ce error is with in ± 10%
5. Matched with spring type collision device.this collision device own properties of big contacted surface and small intensity of pressurc. Consequently,smashin g or puncturing switch and striker would not occur when operator pushes switch for link-lock motion.
6. Specification standardization.
7. Own big limit-current function.
8. The product's performance is up to GB15166.2 and IEC60282-1 standard.
9. Could break down reliably any fault current from minimum broken current to rated broken circuit, additionally our company could produce various non-standard product awarding to user's demand.

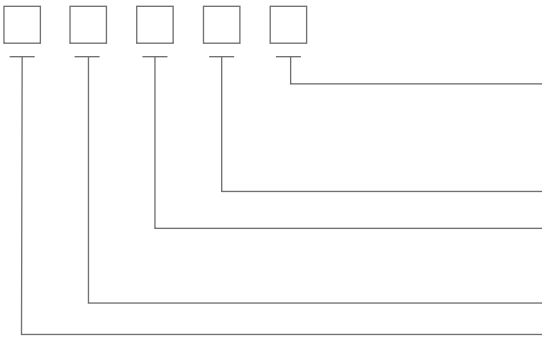
Order notice

1. The name, type,specification,quantity and whether having fuse fittings or not of the ordered product in order process.
2. Besides this product,our company could produce various specialized fuse device according to user demand.

Type instruction



CHINESE TYPE
rated current: A
rated voltage: KV
Design number
Protected object: T-transformer protection M-motor protection
P-instruments transformer protection
use place: indoor
product's name: fuse
structure characteristic:limit-current type



BRITISH TYPE
Connection way: J-inserted way, O,F,D-bus bar, O,F-plane wiring terminal, C,D-bent-hook wiring terminal

device:A,H-having, N-not having
Length: F=254mm L=292mm G=359mm N=403mm

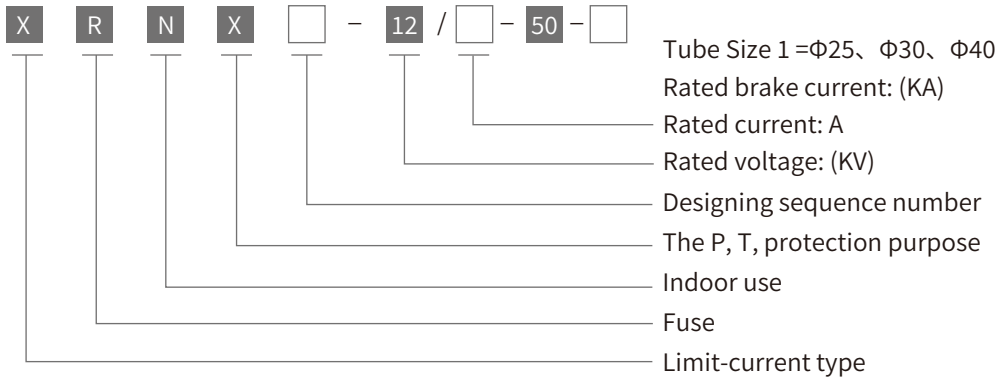
Diameter: D=51mm K=76mm
Protected object: S,A,B-transformer protection W-motor protection

High Voltage Fuse

High-voltage limit-current fuse for instruments transformer protection

This product can be used in indoor system of Ac50Hz and rated voltage of 3.6-40.5KV to protect the voltage mutual-inductor from over loading and circuit break.(tested by-inductor from overloading and circ-uit break.
(Tested by National high-voltage quality Supervising and Testing Center,in accordance with GB15166.2 and IEC282-1).

Type instruction

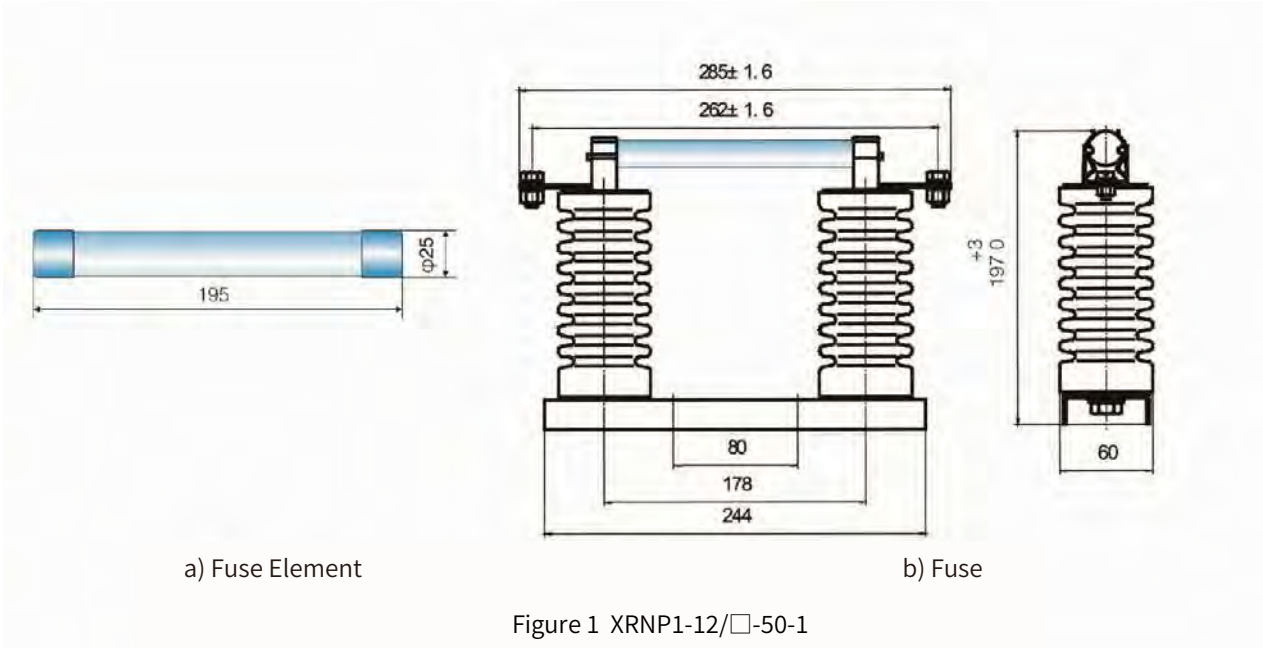


Basic parameters

See chart for the fuse of basic parameters

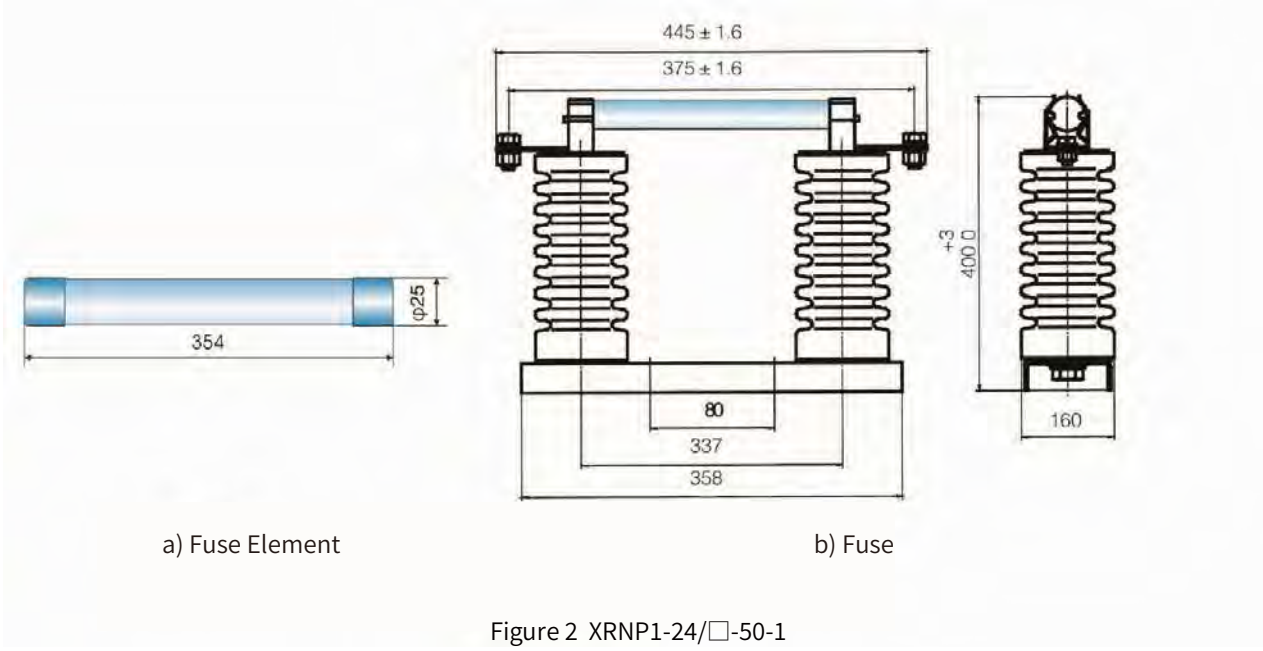
Type	Rated Voltage(KV)	Rated current(A)	Rated brake current(KA)	Overall Dimensions
XRNP1-□/□-□-1	7.2 (3.6) 12	0.2、0.3、0.5、1、2、3.15	50	See Figure 1
XRNP1-□/□-□-1	24	0.2、0.3、0.5、1、2、3.15	50	See Figure 2
XRNP1-□/□-□-2	12	2、3.15	50	See Figure 3
XRNP6-□/□-□-1		0.2、0.3、0.5、1、2、3.15		See Figure 4 (ϕ25)
XRNP6-□/□-□-3	40.5	0.2、0.3、0.5、1、2、3.15、4、5	31.5	See Figure 5 (ϕ30)
XRNP6-□/□-□-4		0.2、0.5、1、2、3.15、5、6.3		See Figure 6 (ϕ41)

Note: For 7.2 kV and 12 kV products with ϕ25 pipe diameter, three types of non-standard wiring configurations are available, see Figure 7.



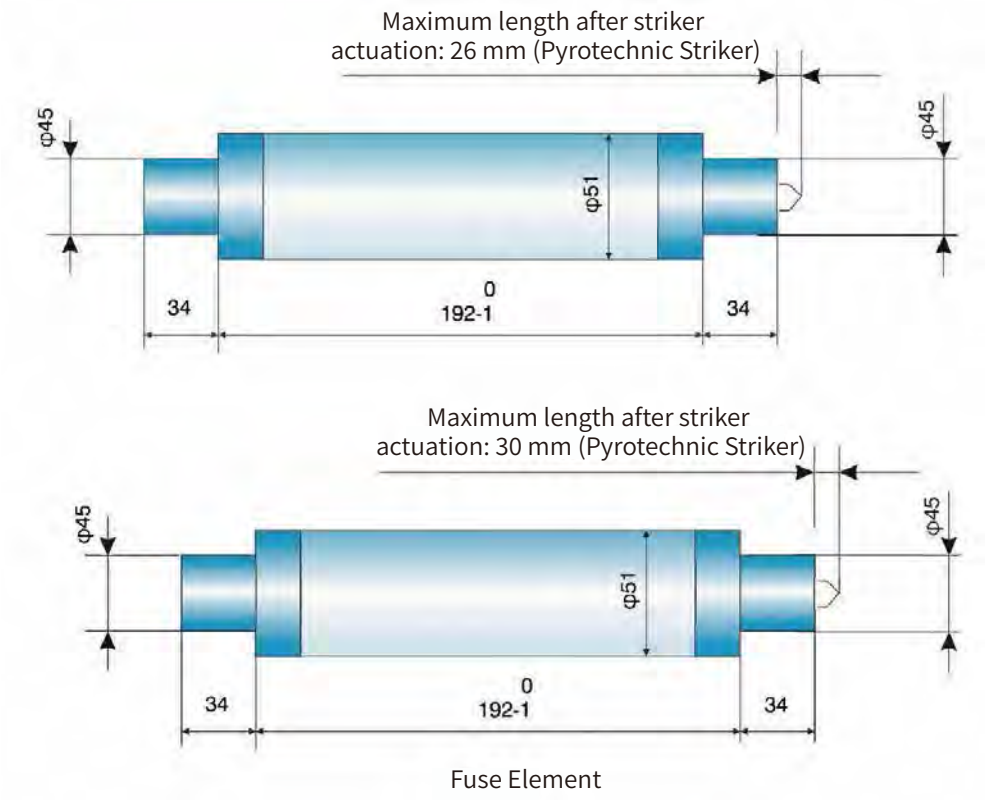
a) Fuse Element b) Fuse

Figure 1 XRNP1-12/□-50-1

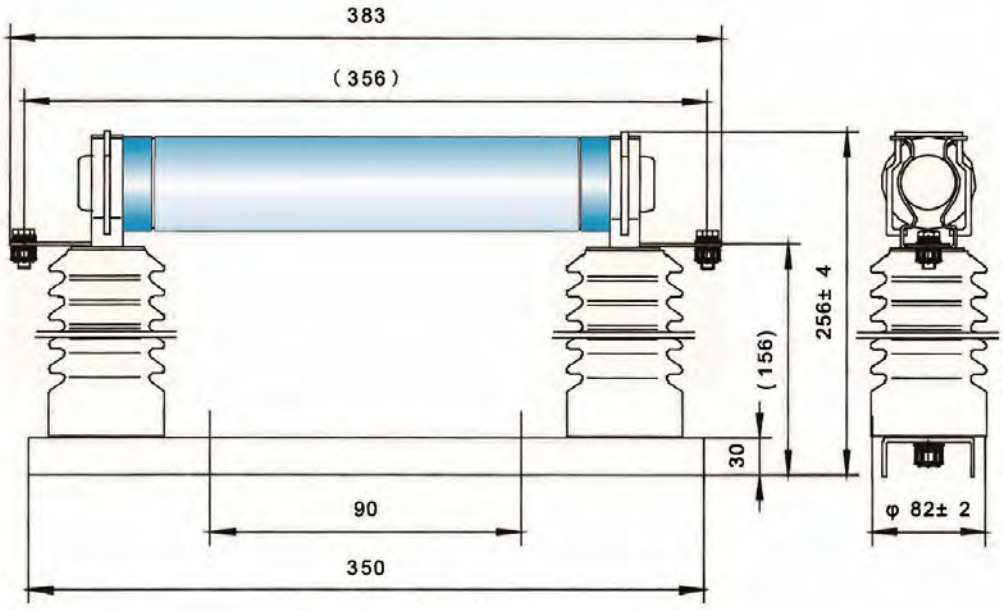


a) Fuse Element b) Fuse

Figure 2 XRNP1-24/□-50-1

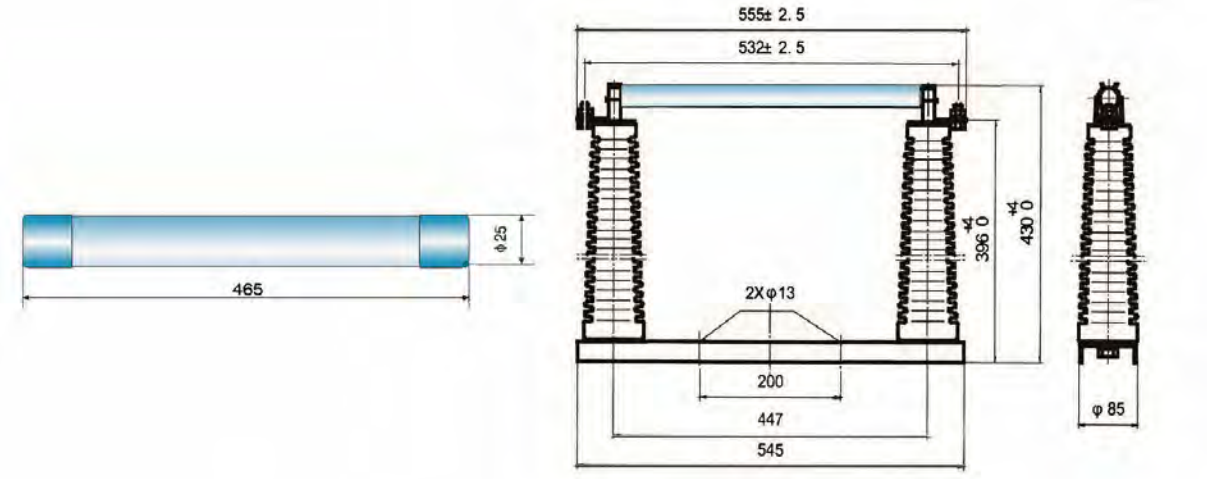


Fuse Element



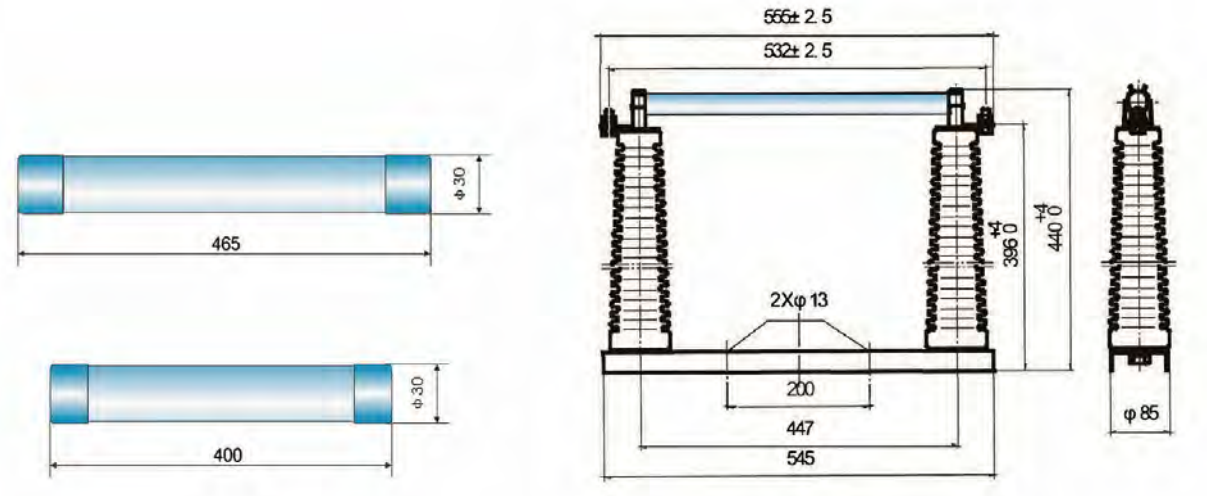
Fuse

Figure 3 XRNP1-12/□-50-2



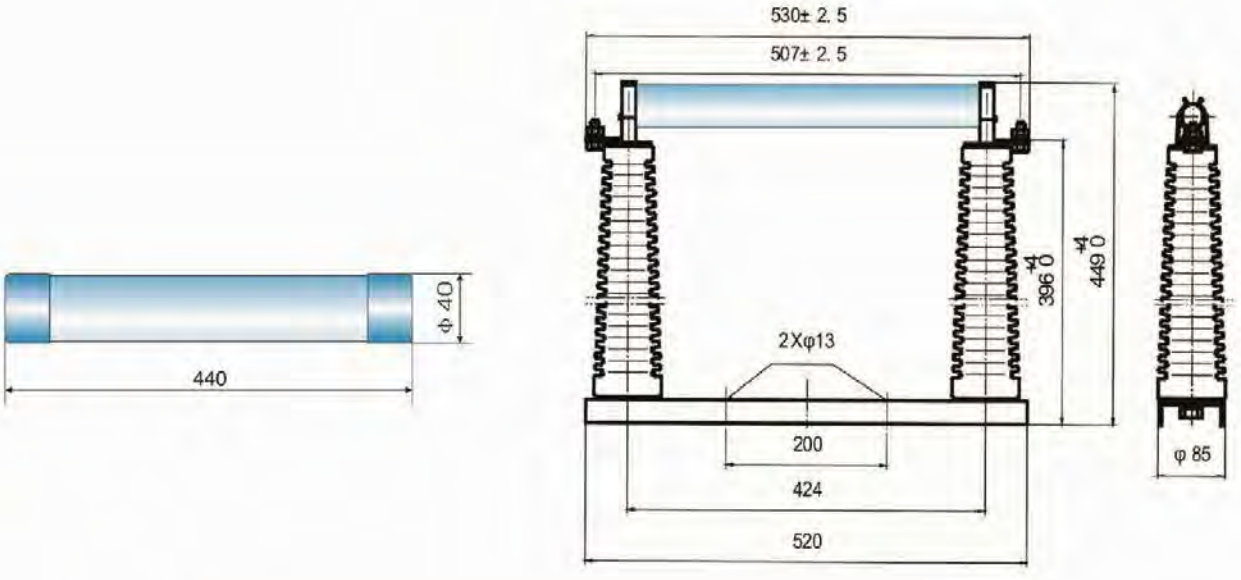
Fuse Element　　Fuse

Figure 4 XRNP6-40.5/□-31.5-1



Fuse Element　　Fuse

Figure 5 XRNP6-40.5/□-31.5-3



Fuse Element Fuse

Figure 6 XRNP6-40.5/□-31.5-4

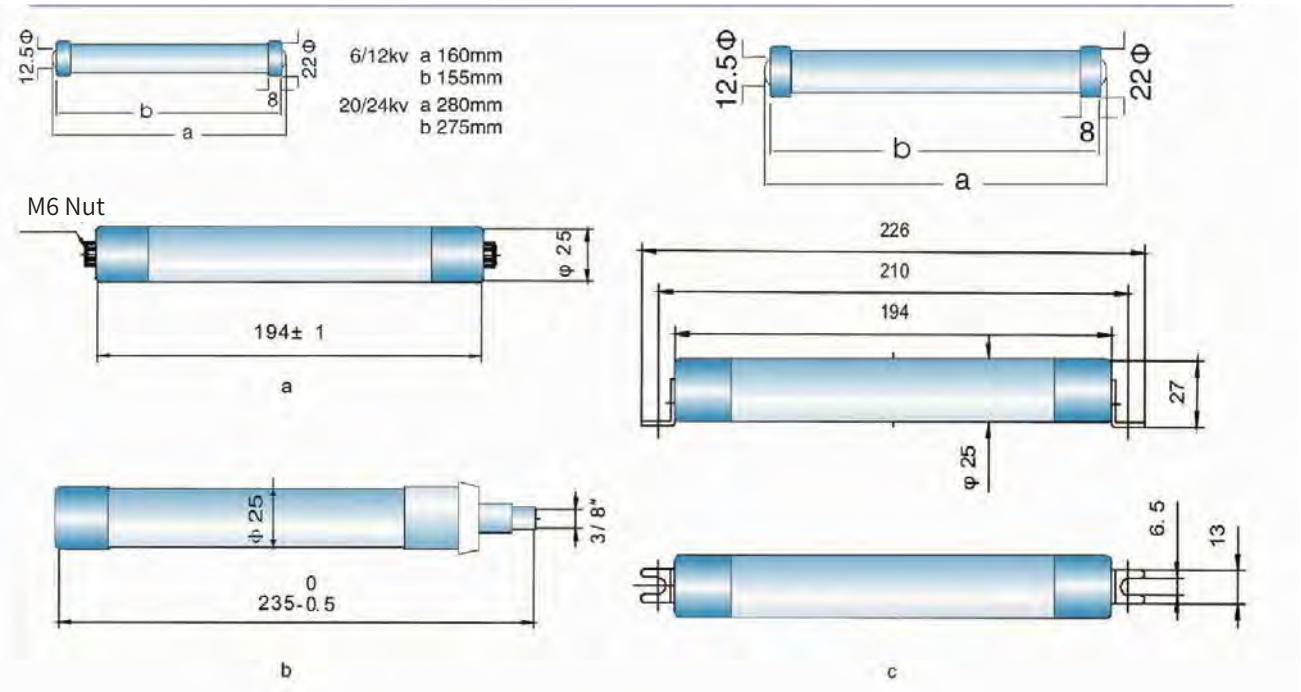
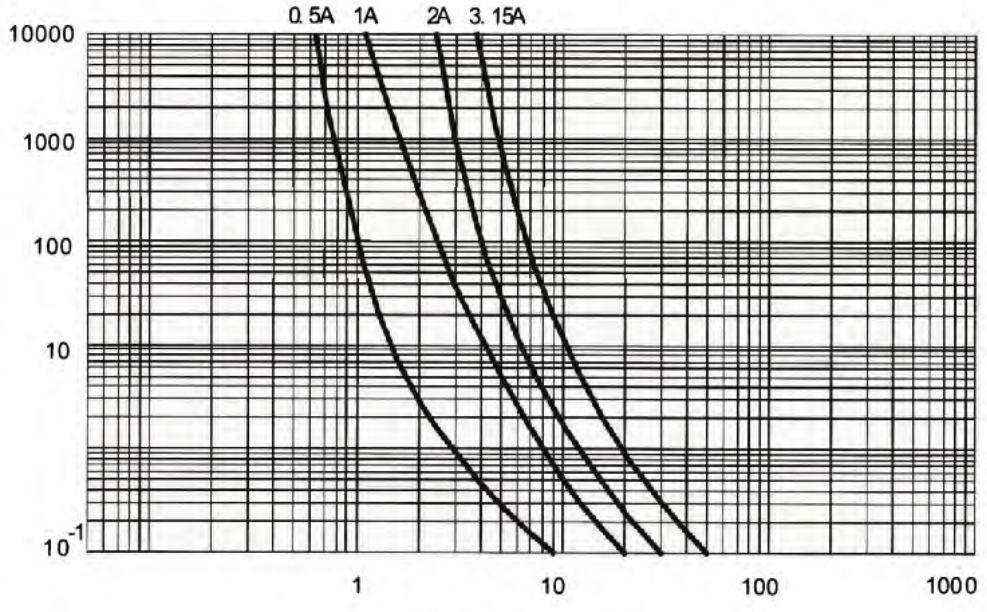


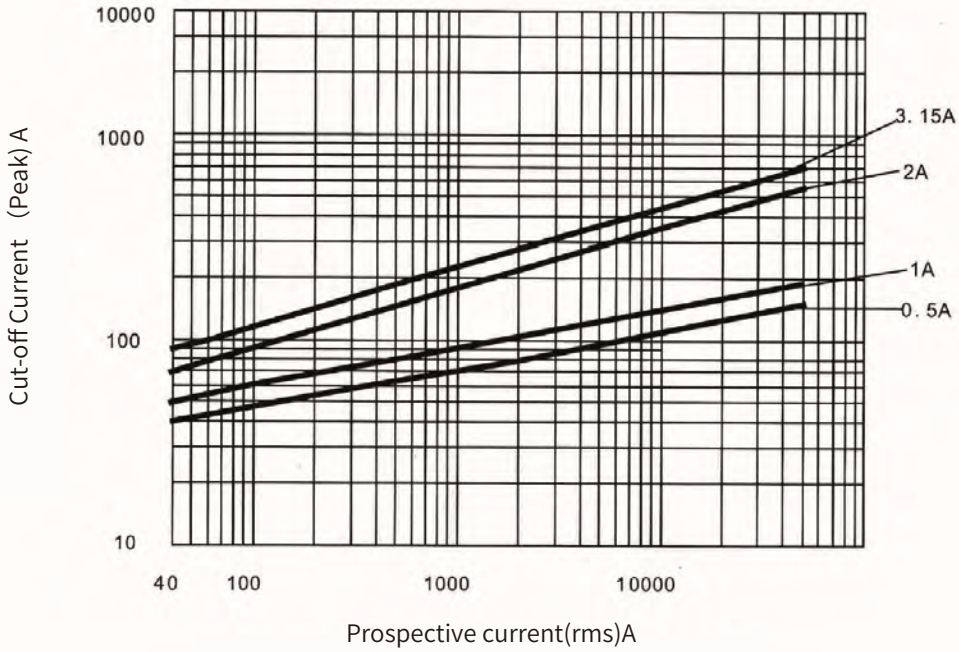
Figure 7 Non-standard Wiring Configuration for XRNP-7.2, 12 kV / 0.5A ~ 5A - 50 kV Fuse

Time-Current Characteristic Curves are as follows:



Prospective current(rms)A

Figure 8 Time-Current Characteristic of XRNP-7.2 kV



Prospective current(rms)A

Figure 9 Current-Limiting Characteristic of XRNP-7.2 kV

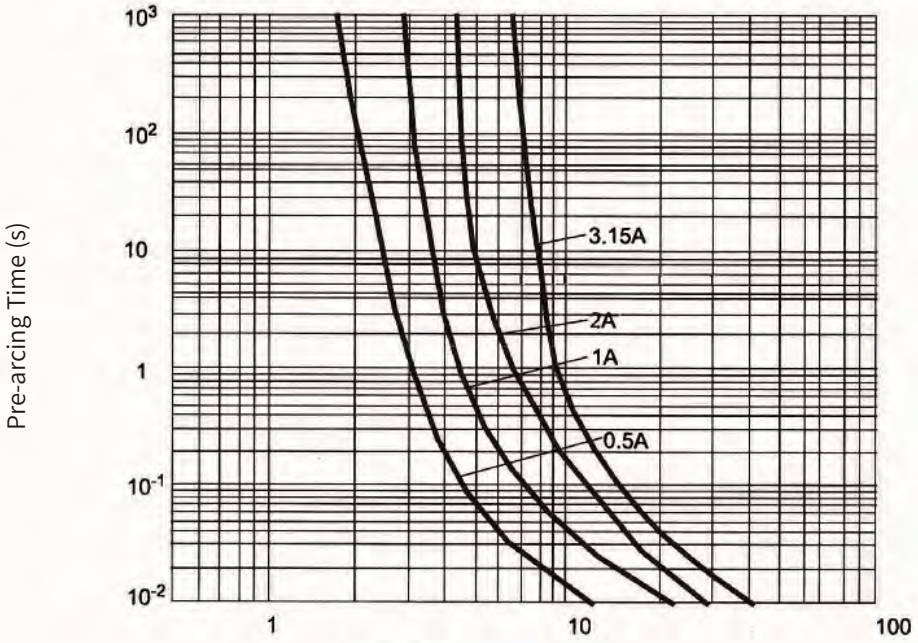


Figure 10 Time-Current Characteristic of XRNP1-12 kV

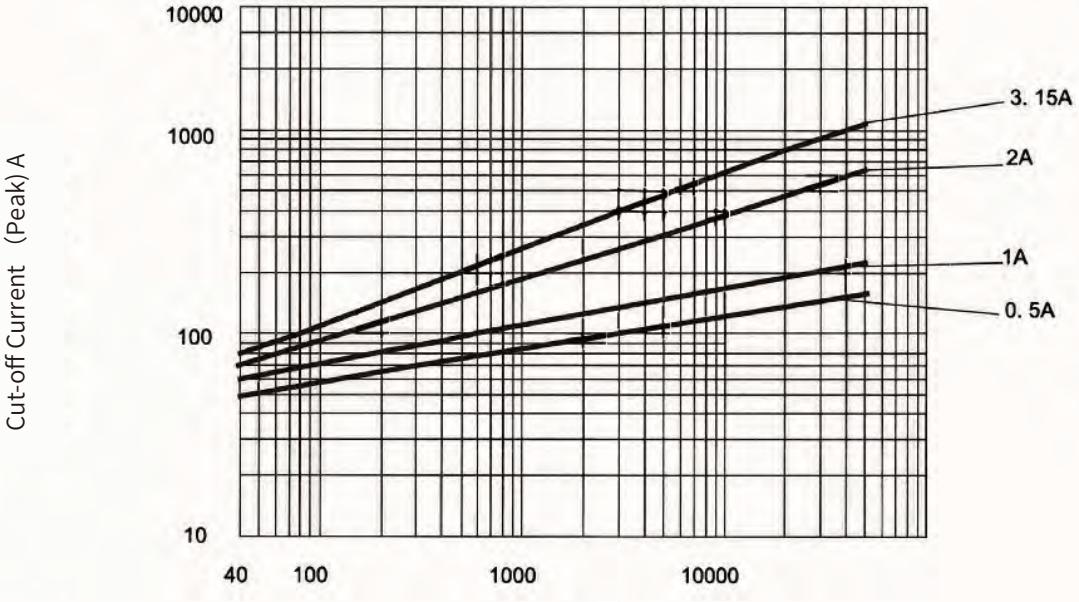


Figure 11 Current-Limiting Characteristic of XRNP1-12 kV

Property Curve Diagram

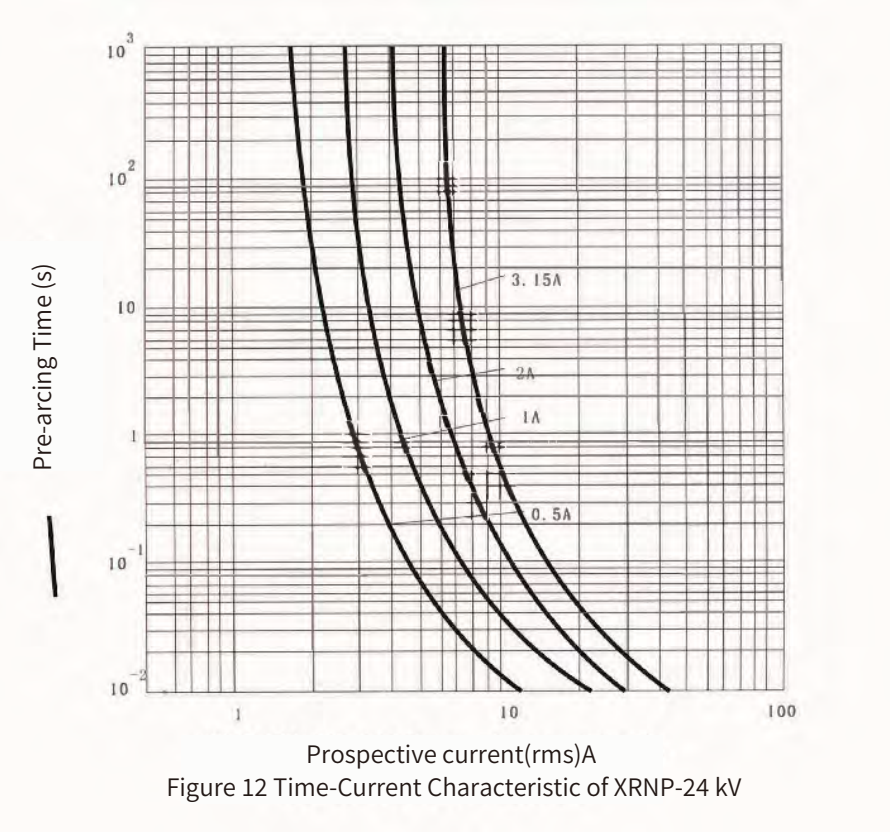


Figure 12 Time-Current Characteristic of XRNP-24 kV

Figure 3 Current-Limiting Characteristic Curve for Rated Prospective RMS Current (A): 0.5A ~ 3.15A

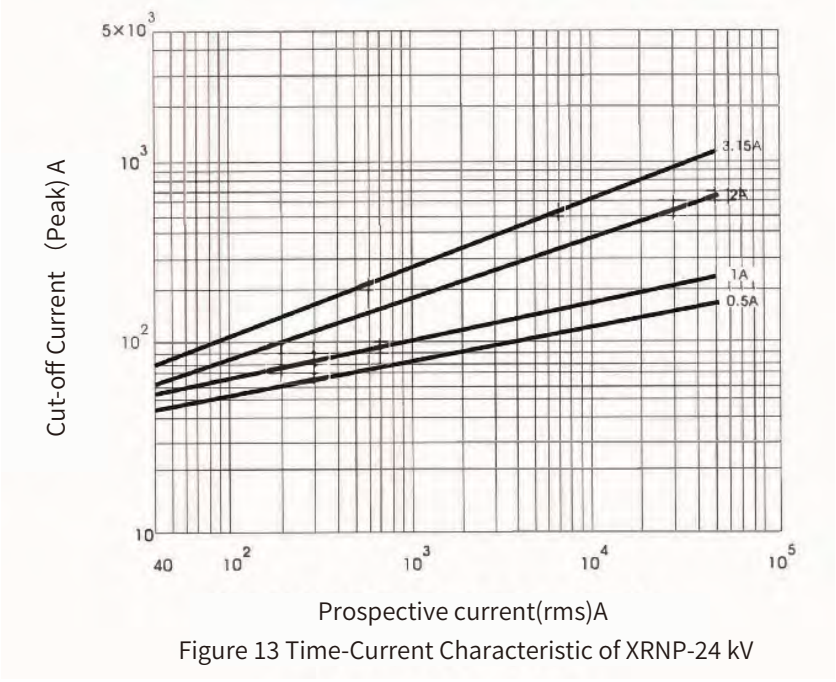


Figure 13 Time-Current Characteristic of XRNP-24 kV

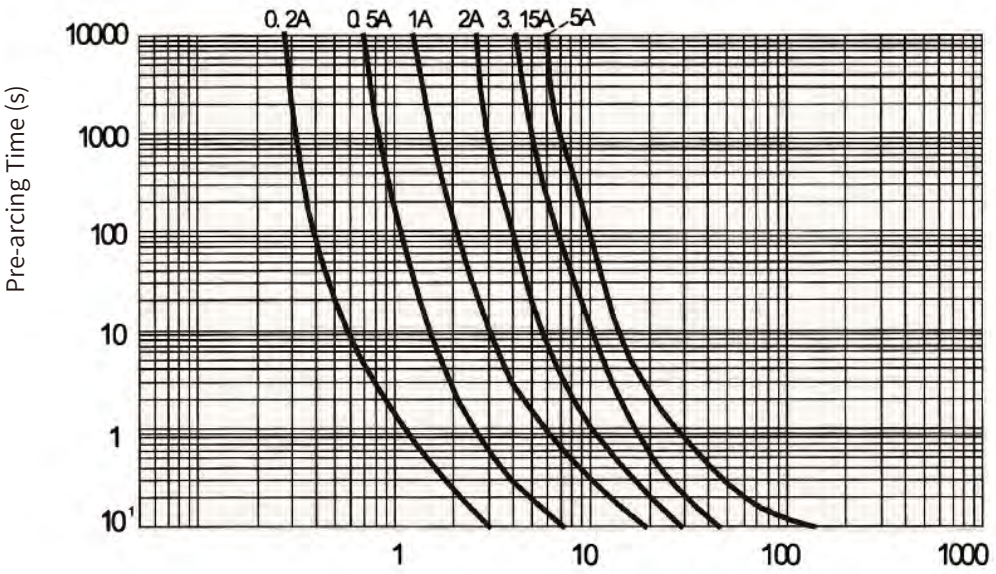


Figure 14 Time-Current Characteristic of XRNP-40.5 kV

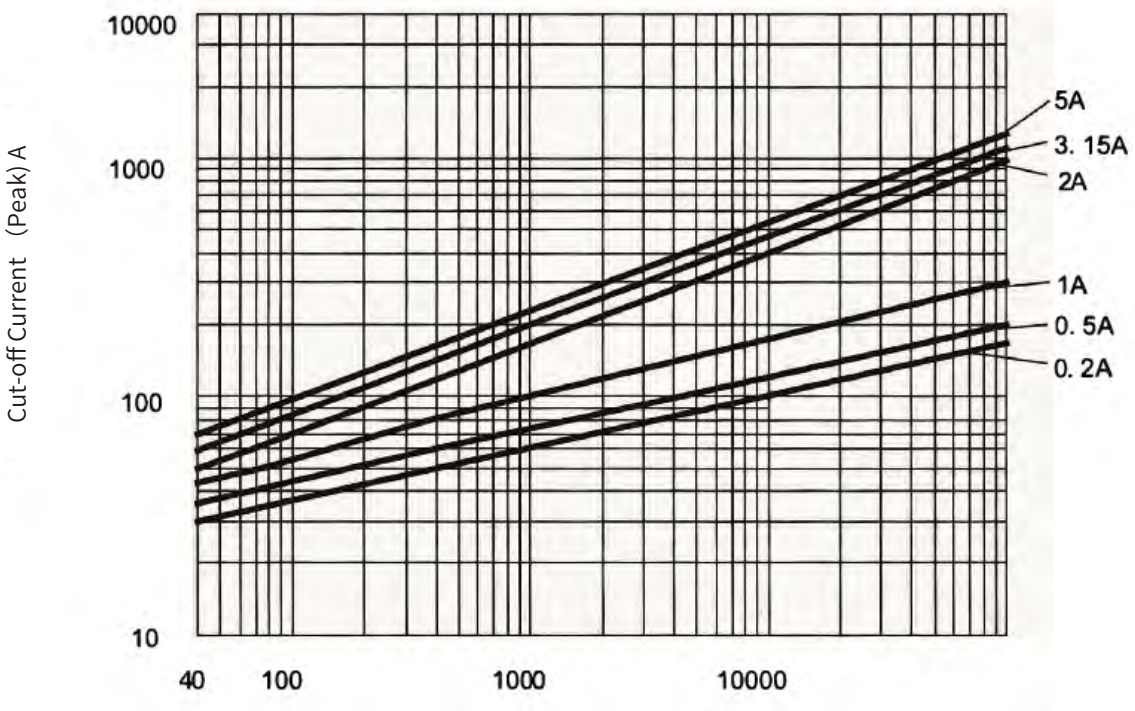


Figure 15 Time-Current Characteristic of XRNP-40.5 kV

High Voltage Fuse

High-voltage limit-current fuse for protection transformer (germany din standard)

It can be used indoor system of 50HZ and rated voltage of 3.6KV, 7.2KV, 12KV, 24KV, 40.5KV: Used together with other switch facilities such as loading swithes, vacuum contactors, it can protecti electric transformers and other electric facilities against overloading or circuit break. It is also a necessary accessory for high-voltage switch

Type instruction

X R N T □ 12

- 12 — CHINESE TYPE; rated voltage: KV(kilo-volt)
- □ — Design serial number
- T — Transformer protection
- N — Indooruse
- R — Fuse
- X — Limit current

S □ L □ J

- J — FOREIGN COUNTERPARTS; German DIN Standard Inserting Type
- □ — Impinger: N= Nine) A=Available)
- L — Fuselength:L=292mm(12KV)442mm,(24KV)537mm(40.5KV)(36KV)
- □ — Fusediameters: D= ϕ51mm, F.K= ϕ63mm, ϕ76mm, ϕ88mm
- S — Transformer protection

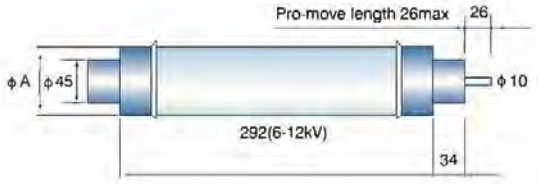
Basic parameters

Type	Counterpart	Rated voltage (KV)	Rated current of the fuse (A)	Rated current of the fuselink (A)
XRNT-12	SDLAJ	12	40	3.15、6.3、10、16、20、25、31.5、40
XRNT-12	SFLAJ	12	100	50、63、71、80、100、125
XRNT-12	SKLAJ	12	125	125、160、200、250
XRNT-24		24	200	3.15、6.3、10、16、20、25、31.5、40、50、63、80、100、125、160、200
XRNT-40.5		40.5	125	3.15、6.3、10、16、20、25、31.5、40、50、63、80、100、125

Installation Dimensios

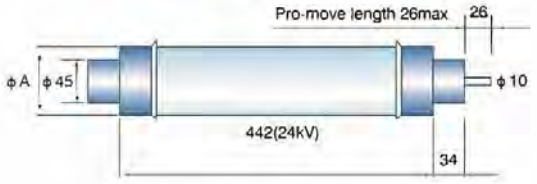
Chat1/a link XRNT□-12Kv

Note：φA：φ51mm (6.3-40A) φ63 φ76mm (50-125A) φ88mm (160-200A)



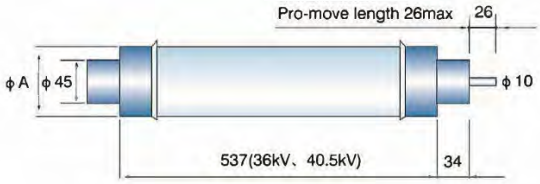
Chat2/a link XRNT□-24Kv

Note：φA：φ51mm (6.3-40A) φ63 φ76mm (50-125A) φ88mm (125-200A)



Chat3/a link XRNT□-40.5Kv

Note：φA：φ51mm (6.3-25A) φ76mm (25-40A) φ88mm (50-100A)



Chat4/b link(12KV)

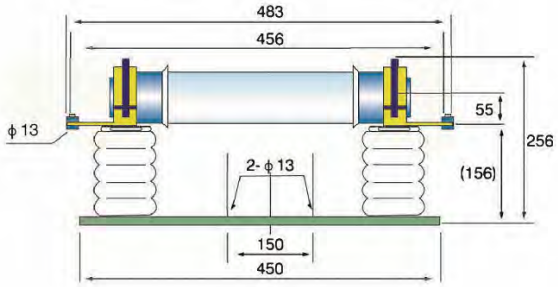


Figure 5 Inserting type fuse
XRNT□-24Kv

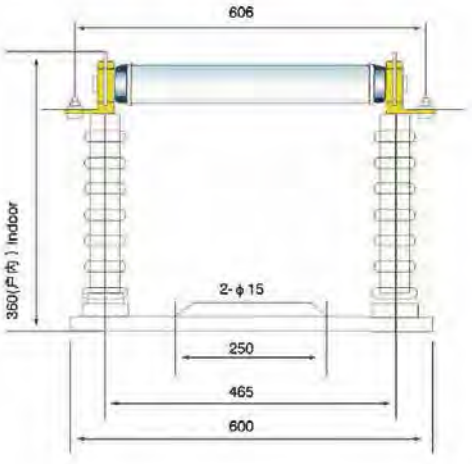
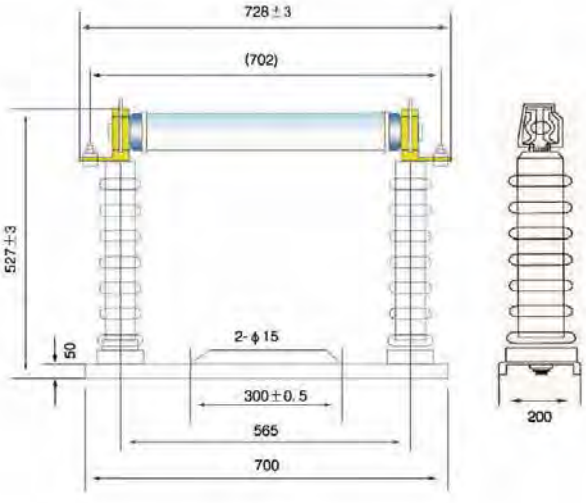
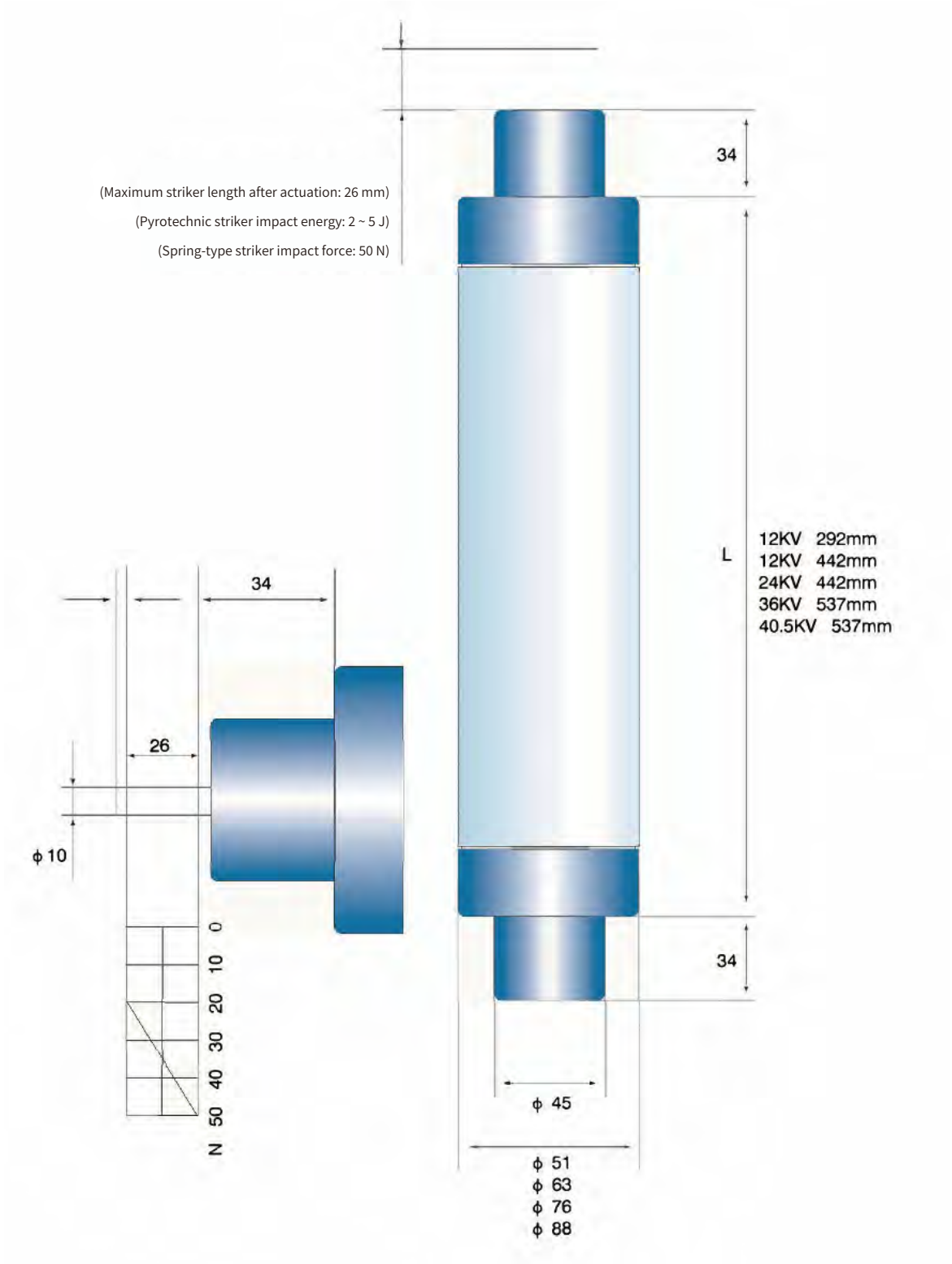


Figure 6 Inserting type fuse
XRNT□-40.5Kv



Type Fuse for 3.6 ~ 40.5 kV (Plug-in Type)

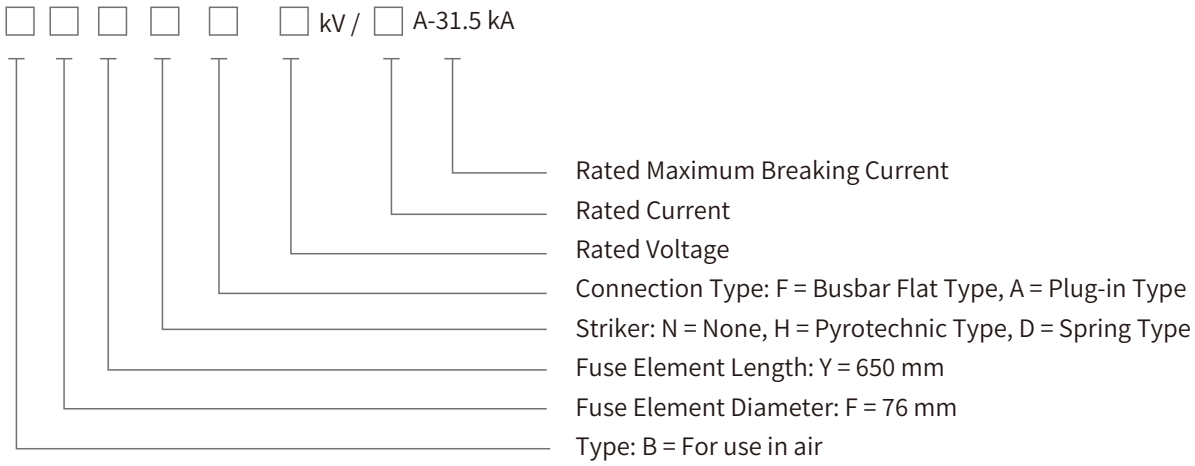


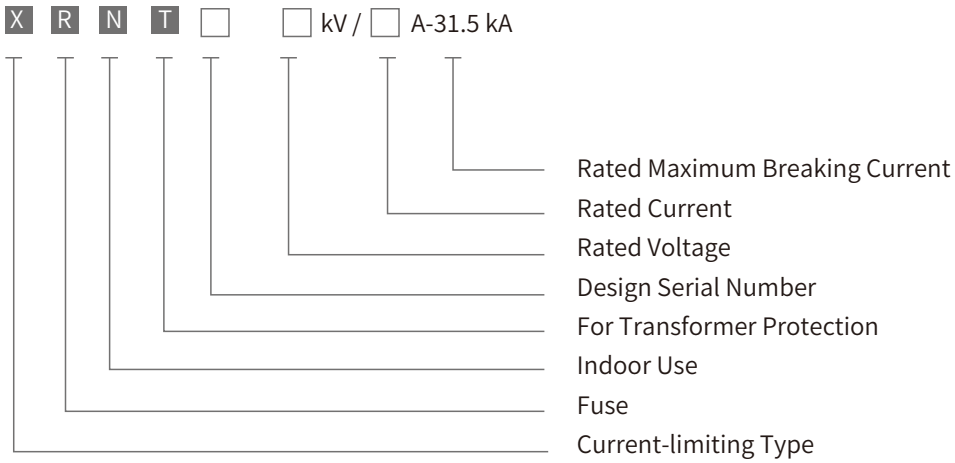
High Voltage Fuse

High-voltage limit-current fuse for protection transformer (germany din standard)

These devices are suitable for a.c.50Hz,rated voltage 40.5KV power systems and they can be used with other electric apparatus(such as load switch,vacuum contactor)as protection of transformer and other power equipment against.

Type instruction





Basic Parameters

The basic parameters of the fuse are shown in Table 1 and Table 2.

Main Technical Data

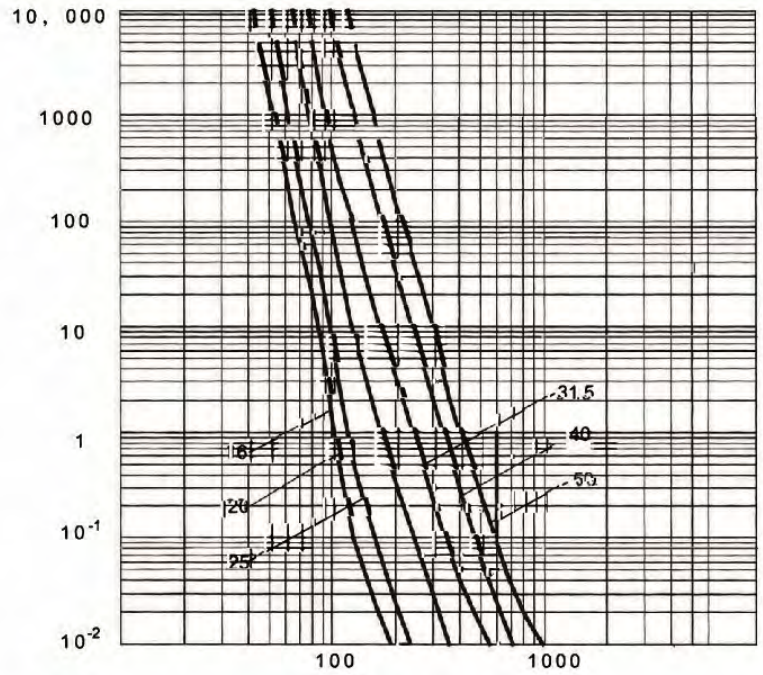
1. The fuse shall interrupt any fault current ranging from the minimum breaking current I_3 to the maximum breaking current I_1. The value of I_3 is approximately 4 times the rated current.
2.The time-current characteristic curve is shown in Figure 1; the section above the minimum breaking current I_3 is represented by a dashed line.

Overall Dimensions & Installation Dimensions

The overall dimensions and installation dimensions of the fuse are given in Figure 2, Figure 3 and Figure 4.

Table 1

Type	Rated Voltage (KV)	Rated Current of Fusible Element (A)	Main Parameters (mm)		Rated Breaking Current (kA)	Outline Dimension
			Length	Diameter		
BFY□-40.5KV/□A	40.5	3.15、6.3、10、16、20、25、31.5、40、50	650	ϕ76	31.5	Insert type See Figure 2 Busbar type See Figure 3
XRNT□-40.5 KV /□A -31.5-1		3.15、6.3、10、16、20、25、31.5、40、50				See Figure 4



BFY□-40.5
XRNT□-40.5 Time-Current Characteristic
Figure 1 Time-Current Characteristic

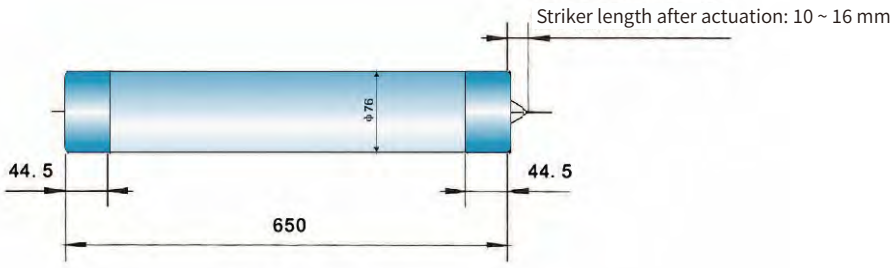


Figure 2 a) Fuse Element

Technique data

Type	UN (KV)	IN (A)	D × L (mm)	Rated Breaking
XRNT1	3.6/7.2	6.3	ϕ51 × 192 standard size	63
		10		
		16		
		20		
		25		
		31.5		
		40		
		50		
		63	ϕ76 × 192 standard size	
		80		
		100		
		125		
		160	ϕ88 × 192 standard size	50
		*200		
		*250		
		6.3	ϕ51 × 292 standard size	63
		10		
		16		
		20		
		25		
		31.5		
		40		
		50		
		63	ϕ76 × 292 standard size	
		80		
		100		
		125		
		160	ϕ88 × 292 standard size	50
		*200		
		*250		
		*315		
		*355		
		100	ϕ76 × 442	63
		125		
		160	ϕ88 × 442	50
		*200		
		*250		
		*315		
		*355		
		*400		
		*500		

Type	UN (KV)	IN (A)	D × L (mm)	Rated Breaking Current (KA)	Foreign Reference Type
XRNT1	6/12	6.3	ϕ51 × 192	63	SDLAJ
		10			
		16			
		20	ϕ76 × 192		
		25			
		31.5			
		40			
		2	ϕ51 × 292 standard size		
		3.15			
		6.3			
		10			
		20			
		31.5			
		40			
		50	ϕ63 × 292		SFLAJ
		63			
		80	ϕ76 × 292 standard size		
		100			
		125			SKLAJ
		*160	ϕ88 × 292 standard size	50	
		*200			
		6.3	ϕ51 × 442	63	High Voltage Current Limiting Fuse for High Voltage Middle Cabinet
		10			
		16			
		20			
		25			
		31.5			
		40			
		50	ϕ76 × 442 standard size		
		63			
		80			
		100			
		125			
		160	ϕ88 × 442 standard size		
		*200		50	
		*250			

High Voltage Fuse

High-voltage limit-current fuse for protection transformer (germany din standard)

Type	UN (KV)	IN (A)	D×L (mm)	Rated Breaking Current (KA)
XRNT1	20/24	6.3	ϕ53 × 442 standard size	
		10		
		16		63
		20		
		25		
		31.5		
		40		
		50	ϕ63 × 442 standard size	
		63		
		80		
		100		
		125	ϕ88 × 442 standard size	40
		160		
		200		
	36/40.5	6.3	ϕ51 × 442 standard size	31.5
		10		
		16		
		6.3	ϕ51 × 537 standard size	40
		10		
		16		
		20		
		25	ϕ76 × 537 standard size	
		31.5		
		40		
		50	ϕ88 × 537 standard size	
		63		
		80		
		160		

(*) Derating is required for application; please refer to the guidelines for proper fuse selection.

High Voltage Fuse

High-voltage limit-current fuse for protection transformer (germany din standard)

Transformer Capacity (KVA)	Transformer Primary Voltage 7.2KV	
	Fuse Rated Voltage (KV)	Fuse Rated Current (A)
100	7.2	20
125		20
160		25
200		31.5
250		40
300/315		50
400		71
500		80
630		100
750/800		140
1000		160
1250		200

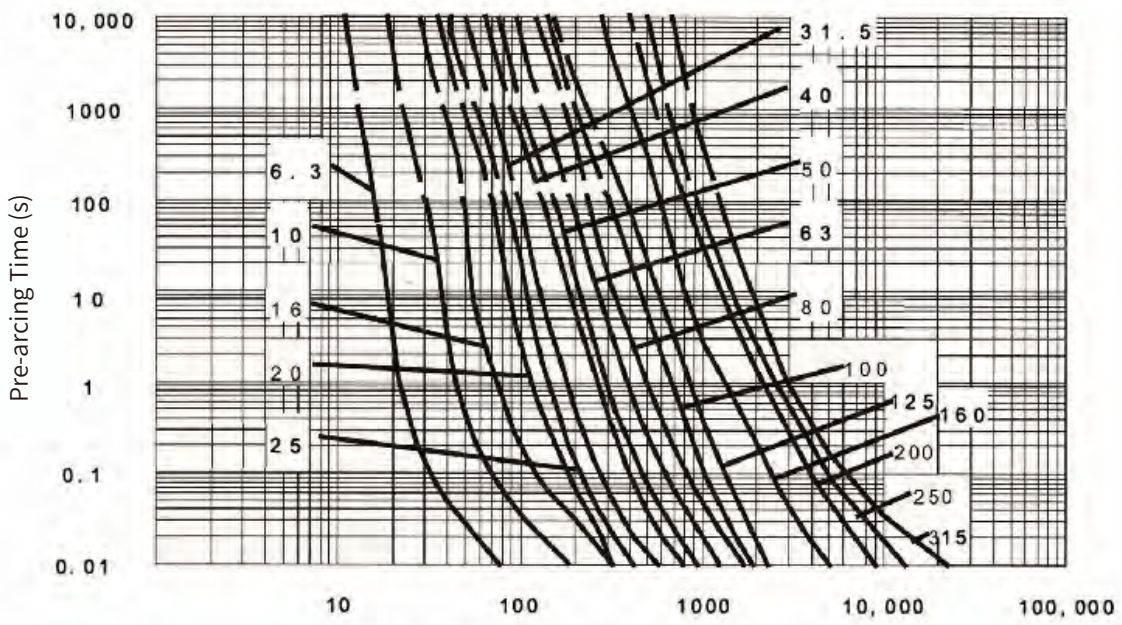
Transformer Capacity (KVA)	Transformer Primary Voltage 12kV	
	Fuse Rated Voltage (KV)	Fuse Rated Current (A)
100	12	16
125		16
160		16
200		20
250		25
300/315		31.5
400		40
500		50
630		63
750/800		80
1000		100
1250		125
1500/1600		160
2000		200

High Voltage Fuse

High-voltage limit-current fuse for protection transformer (germany din standard)

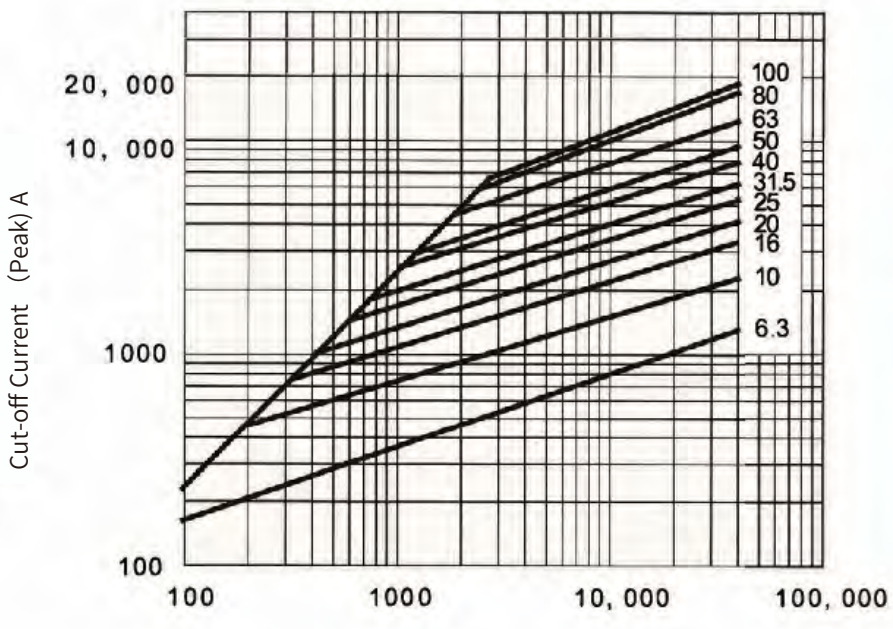
Transformer Capacity (KVA)	Transformer Primary Voltage 24kV	
	Fuse Rated Voltage (KV)	Fuse Rated Current (A)
100	24	6.3
125		6.3
160		10
200		10
250		16
300/315		16
400		20
500		25
630		31.5
750/800		40
1000		50
1250		63
1500/1600		80
2000		100
2500		125
3150		160
4000		200

Transformer Capacity (KVA)	Transformer Primary Voltage 40.5kV	
	Fuse Rated Voltage (KV)	Fuse Rated Current (A)
50	35	2
100		3.15
125		5
160		5–6.3
200		6.3
250		8–10
315		10–12
400		12–16
500		16
630		20–25
800		25–31.5
1000		31.5–40
1250		40–50
1600		50
2000		63



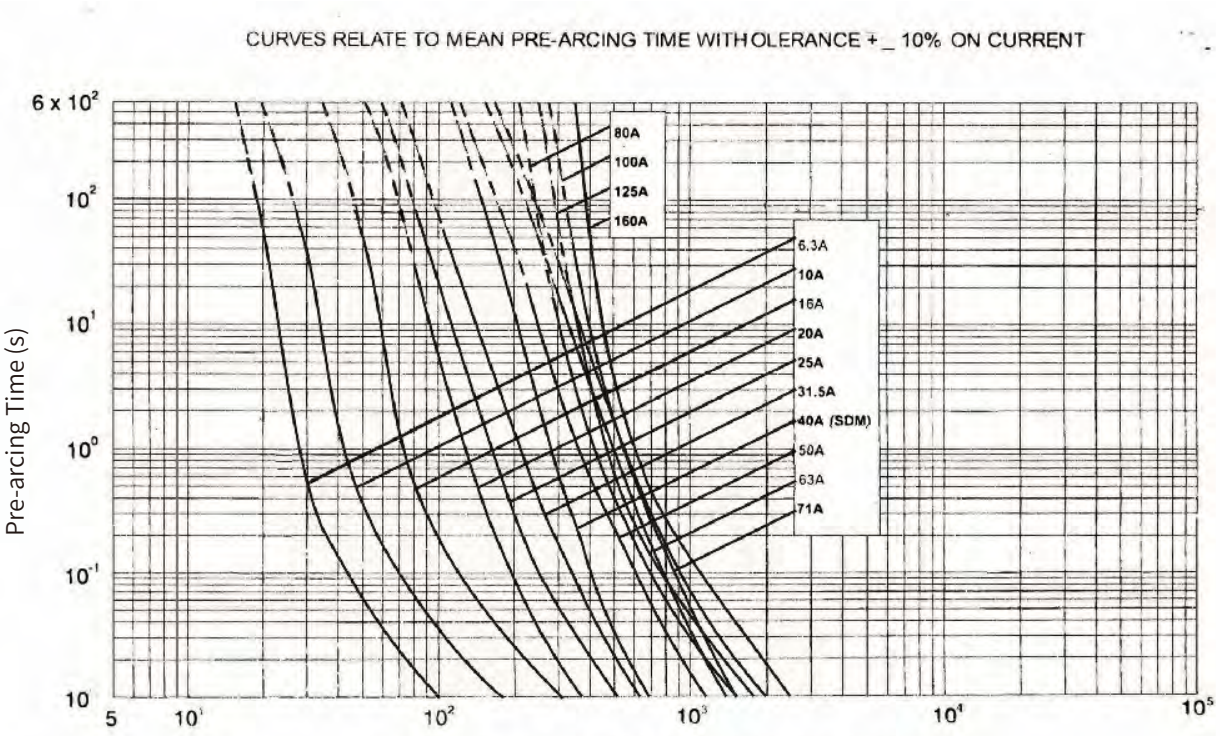
Prospective current(rms)A

Figure 1 Time-Current Characteristic
XRNT1-12kV/6.3A ~200A
XRNT□-3.6kV~7.2kV/6.3A~315A



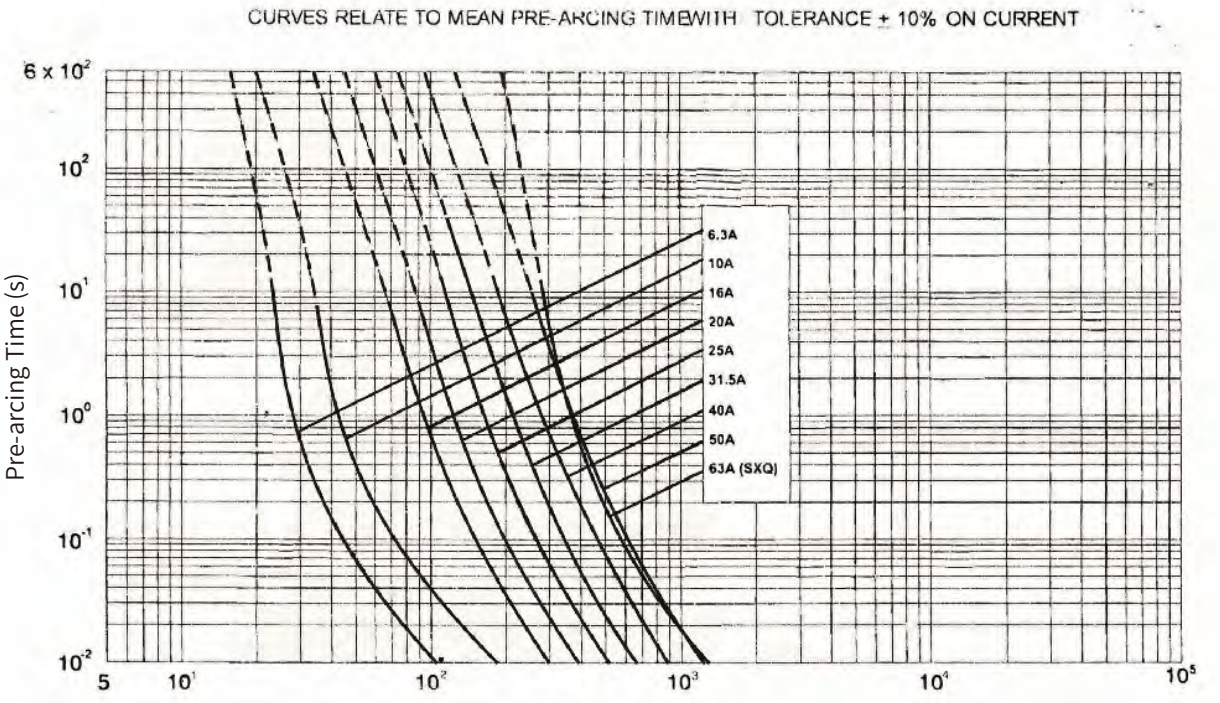
Prospective current(rms)A

Figure 2 Current-Limiting Characteristic of SDL、SFL、SSFL



RMS SYMMETICAL PROSPECTIVE CURRENT IN AMPERES

XRNT-24KV



RMS SYMMETICAL PROSPECTIVE CURRENT IN AMPERES

KRNT-36KV

XPNT-40.5KV

These devices are suitable for a.c.50Hz,rated voltage 3.6kv.7.2kv.12kv power systems and they canbe used with other protection electric apparatus (such asload switch,vacuum contactor)as protectionof transfor mer power equipment against overloads or short-circuits

Type instruction

□ □ □ □ □ □kV/ □A-50kA

- rated breaking current
- Rated current A
- rated voltage: KV(kilo—volt)
- Connection form: Busbar type F=Flat bend, C=ϕ51 hook bend, D=ϕ76 hook bend
- Striker N=None H=Powder actuated D=Spring type
- Fuselink length F=254mm G=359mm
- Fuselink diameter D=51mm F, K(High strength porcelain)=76mm X=88mm
- Type: A, B=For use in air

X R N T □ □kV/ □ A-50kA

- rated breaking current
- Rated current A
- rated voltage: KV(kilo—volt)
- Design serial number
- Transformer protection
- Indooruse
- Fuse
- Limit current

Basic parameters

See Table 1 for the basic parameters of the fuse.

Table 1

Type	Counterpart	Rated voltage (kV)	Rated current of fuselink (A)	Main parameters (mm)		Rated maximum breaking current (kA)
				C	ϕD	
XRNT□-3.6	ADF*□	3.6	6.3、10、16、20、25、31.5、40	254	ϕ51	50
	ADG*□		6.3、10、16、20、25、31.5、40、50、63、80、100	359		
XRNT□-7.2	ADF*□	7. 2	6.3、10、16、20、25、31.5、40、50、63	254		

XRNT□-7.2	BDG*□	7.2	6.3、10、16、20、25、31.5、40、50、63、80	359	ϕ51	50
	AFF*□		80、100	254	ϕ76	
	BFG*□		100	359		
	BKG*□		125、140、160	359		
XRNT□-12	BDG*□	12	6.3、10、16、20、22.4、25、31.5、35.5、40、45、50	359	ϕ51	
	BFG*□		56、63、71、80、90、100	359	ϕ76	
XRNT□-12	AKG*□	12	112、125	359		
	AKG*□		160、200	359	ϕ88	

Note:
1. The above are the rated parameters of single tube. The fuses can be connected in parallel with fixed structure according to user's needs to obtain high rated current value;
2. * represents different types of strikers.

Main Technical Data

(3) The fuse shall be capable of interrupting any fault current ranging from the minimum breaking current I3 to the rated maximum breaking current.
・ For fuse elements with rated current below 125 A (excluding 125 A), the minimum breaking current I3 is approximately 4 times the rated current.
・ For fuse elements with rated current of 125 A and above (including 125 A), the minimum breaking current I3 is approximately 7 times the rated current.
(4) The time-current characteristic curve is shown in Figure 1; the section above the minimum breaking current I3 is plotted as a dashed line.

Overall & Installation Dimensions

The overall dimensions and installation dimensions of the fuse are shown in Figure 2 ~ Figure 8

Fuse Selection

General selection criteria for fuses installed on the primary side of transformers are specified in Table 2

Table 2

Transformer Capacity (kVA)	Transformer Primary Voltage 3.6kV	
	Fuse Rated Voltage (kV)	Fuse Rated Current (A)
100	3.6	31.5
125		40
160		50
200		63
250		80
300/315		90

Transformer Capacity (kVA)	Transformer Primary Voltage 7.2kV	
	Fuse Rated Voltage (kV)	Fuse Rated Current (A)
100	7.2	20
125		20
160		25
200		31.5
250		40
300/315		50
400		71
500		80
630		100
750/800		140
1000		160

Transformer Capacity (kVA)	Transformer Primary Voltage 12kV	
	Fuse Rated Voltage (kV)	Fuse Rated Current (A)
100	12	16
125		16
160		16
200		20
250		25
300/315		31.5
400		40
500		50
630		63
750/800		71
1000		90
1250		112
1500/1600		125

For selection under special transformer conditions and matching selection for other power equipment, please contact the manufacturer.

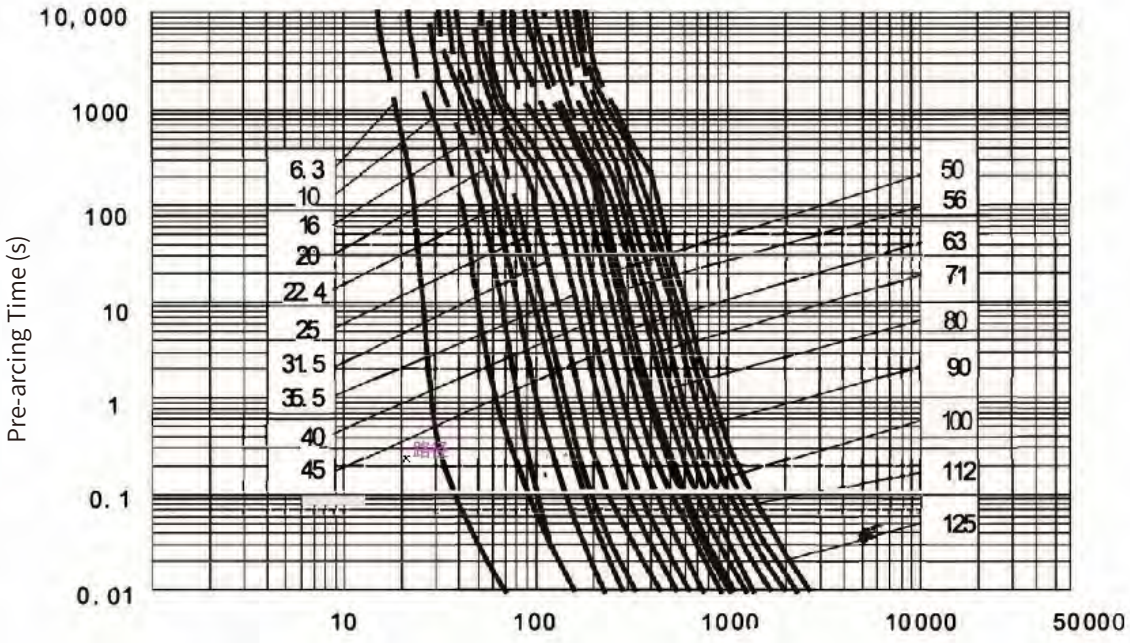


Figure 1 Time-Current Characteristic of

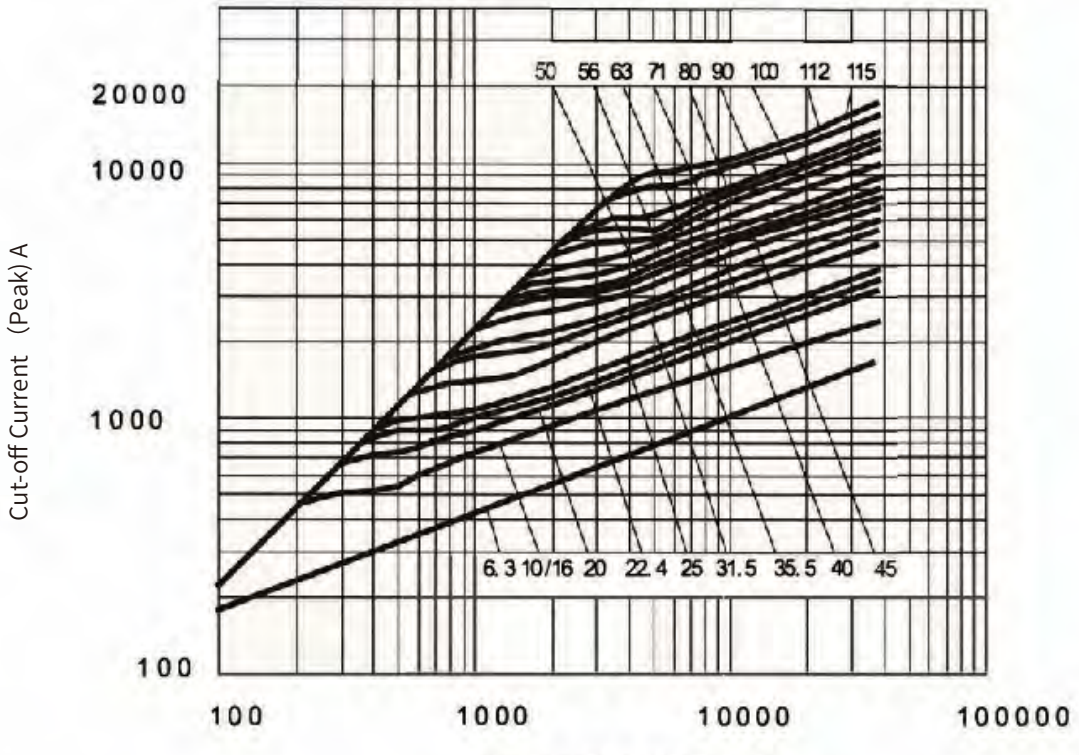


Figure 2 Current-Limiting Characteristic of BDG、BFG、 AKG

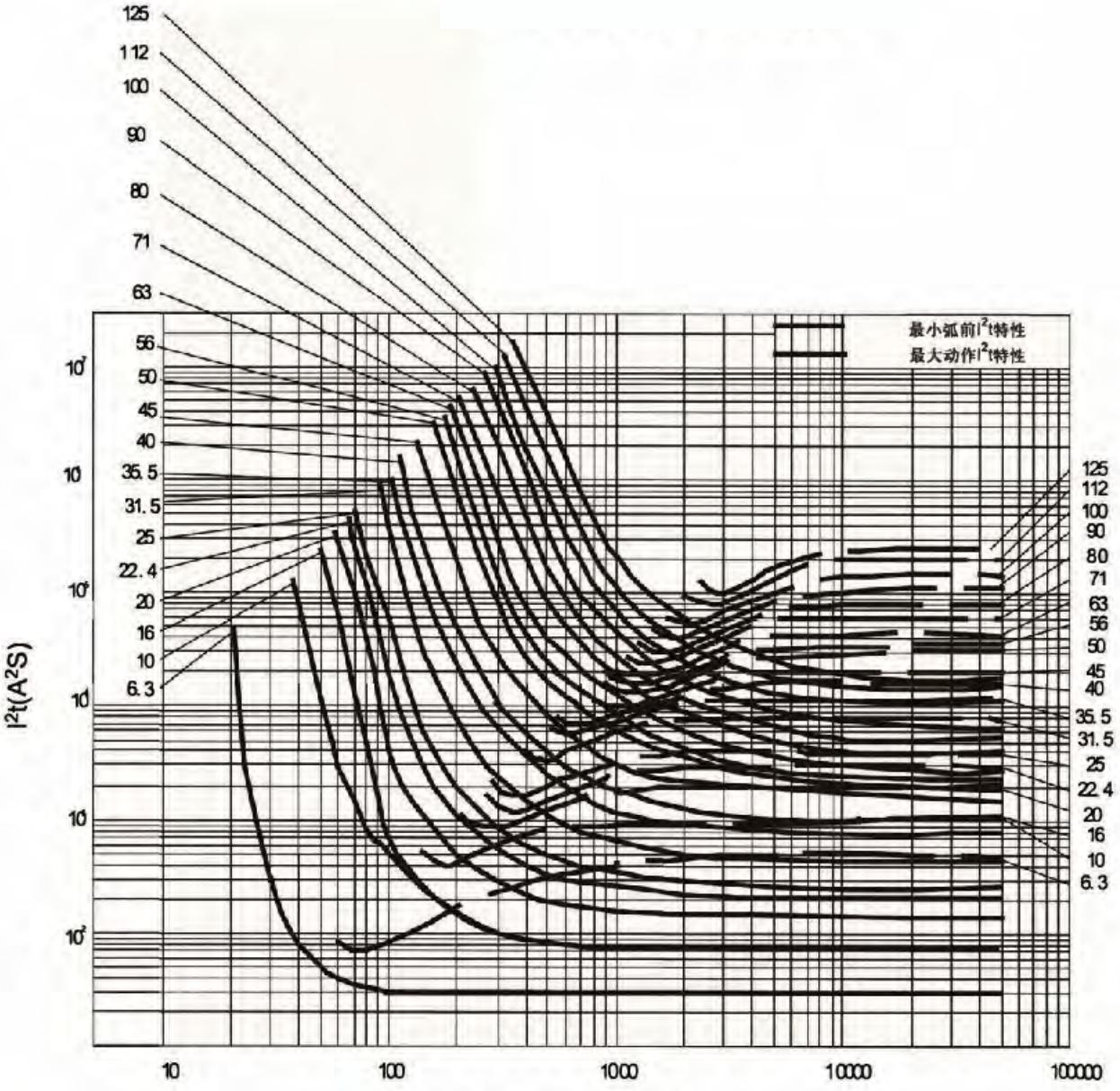


Figure 3 Current-Limiting Characteristic of BDG、BFG、 ALG、 I²t

High Voltage Fuse

High-voltage limit-current fuse for protection transformer (germany din standard)

Type	A	B	C	φD
ADFHC	356	314	254	51
ADGHC	461	419	359	51
BDGHC	461	419	359	51
AFFHD	356	314	254	76
BFGHD	461	419	359	76
A(B)KGHD	461	419	359	76

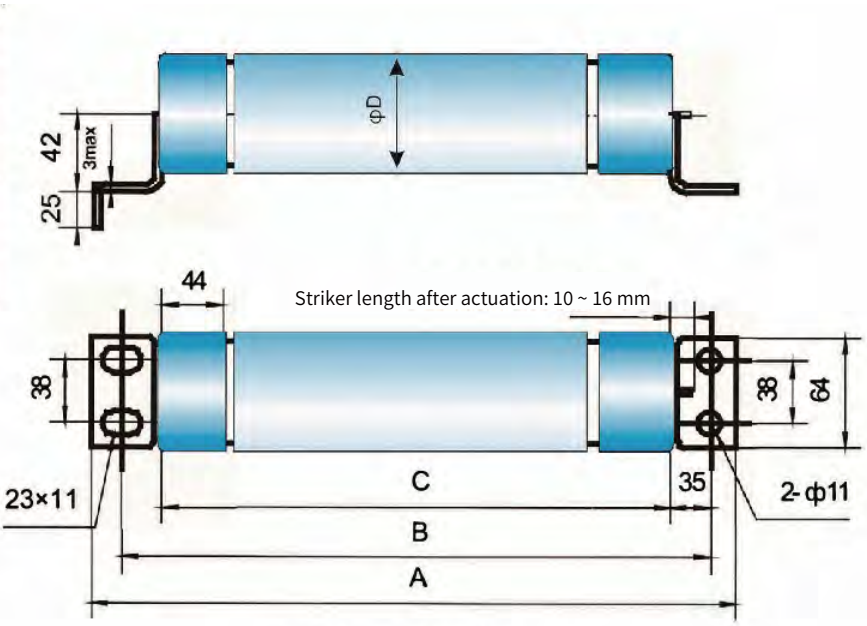


Figure 4 a) Single-tube fuse with bent hook

Type	A	B	C	φ D
ADFHF	356	314	254	51
ADGHF	461	419	359	51
BDGHF	461	419	359	76
AFFHF	356	314	254	51
BFGHF	461	419	359	76
A(B)KGHF	461	419	359	76

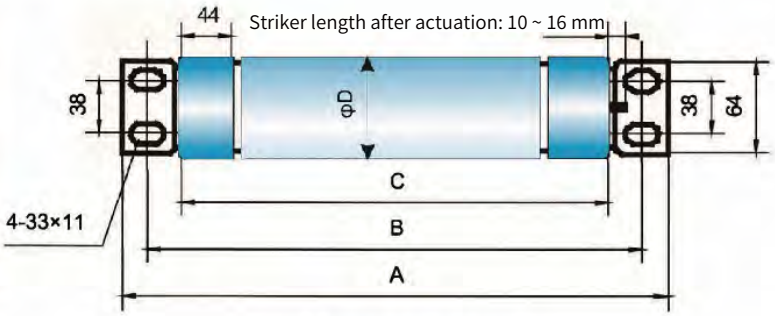
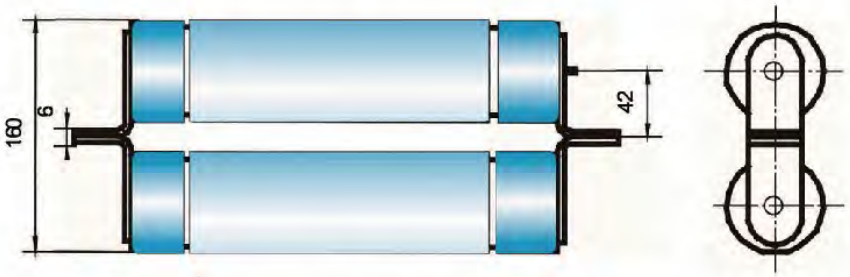


Figure 5 b) Single-tube fuse with flat bent terminal



Type	C	φ D
ADFHA	254	51
ADGHA	359	51
BDGHA	359	51
AFFHA	254	76
BFGHA	359	76
A(B)KGHA	359	76

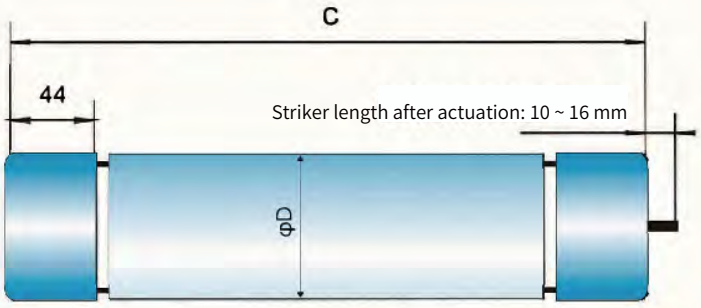


Figure 6 c) Plug-in fuse

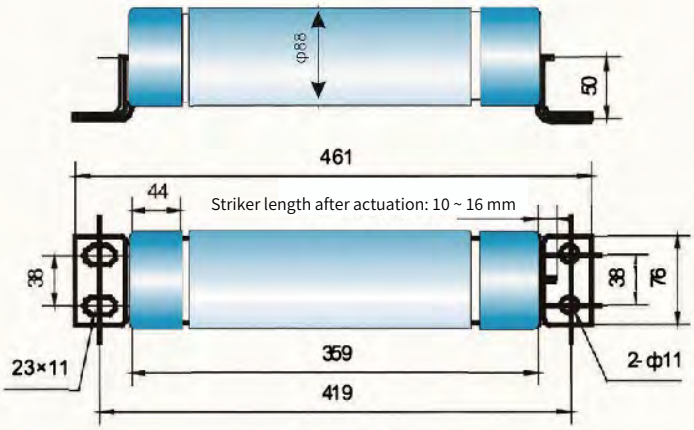


Figure 7 Single-tube fuse

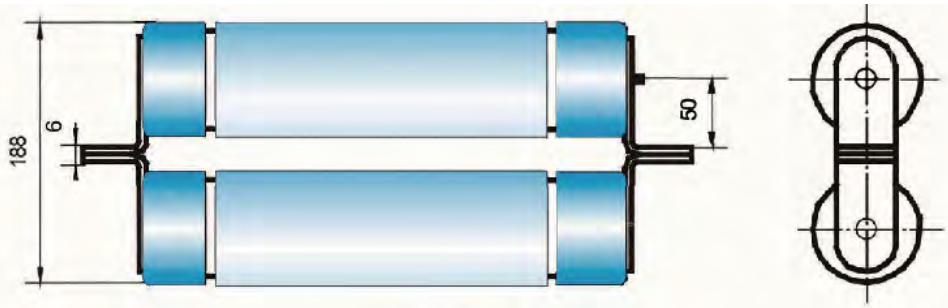


Figure 8 a) Dual parallel fuse

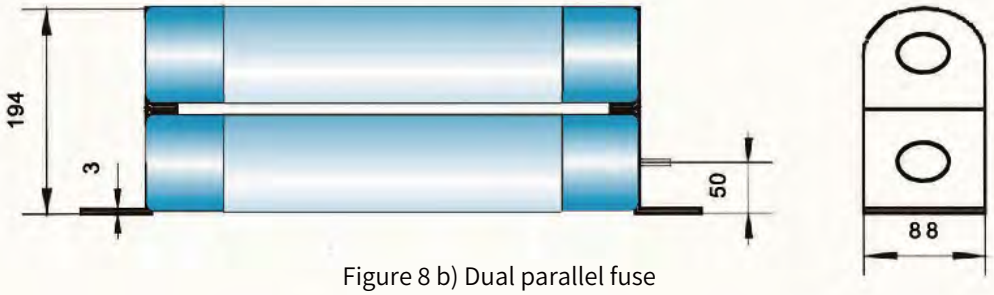


Figure 8 b) Dual parallel fuse

High Voltage Fuse

High-voltage limit-current fuse for Wholly-scope protection trans former

This product can be used in indoor system of 50Hz and rated voltage 12kv. It can break any problem current between the fuse melting current and the rated break, it has also the non-current limit fuse of small current protection. an overall break protection can be achieved.

Overview

X R N T 1 – 12 / □ – 50

- 50 — CHINESE TYPE; Rated break current KA
- □ — Rated current for the fuse link A
- 12 — Rated voltage KV
- 1 — Design serial number
- T — Trans former protection
- N — Indoor use
- R — Fuse
- X — Limit type current

F F L □ J

- J — FOREIGN COUNTERPARTS; German DIN Standard Inserting Type
- □ — Impinger: N=None A=Available
- L — Fuse length:L=292mm(12KV)442mm,(24KV)537mm(35KV)
- F — Fusediameters: D= ϕ50mm F.K= ϕ63mm, ϕ76mm
- F — Transformer protection

Basic parameters

CHART 1

Rated voltage	Rated current of the fuse (A)	Rated current of the fuselink(A)	Rated break current KA
12	63	10、16、20、25、25、31.5、40、50、63	50

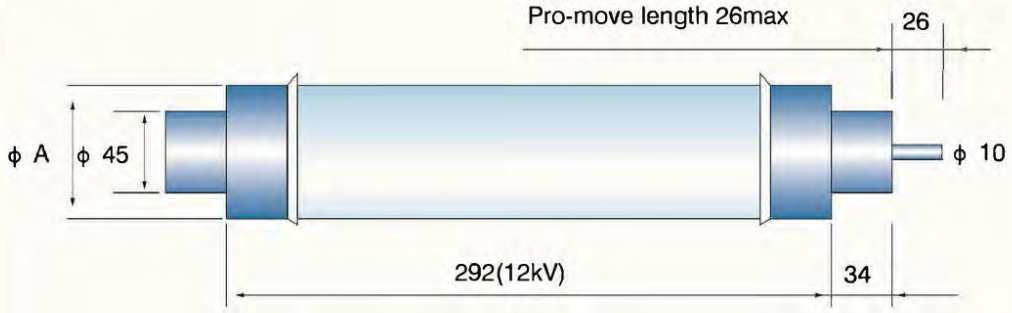
Selecting principles

primary voltage of the transformer 12KV		
Transformer capacity KVA	Fuse rated current (A)	Fuse type
⩽125	10	
160	16	
200-250	20	
315	25	
400	31.5	
500	40	
630	50	
800	63	

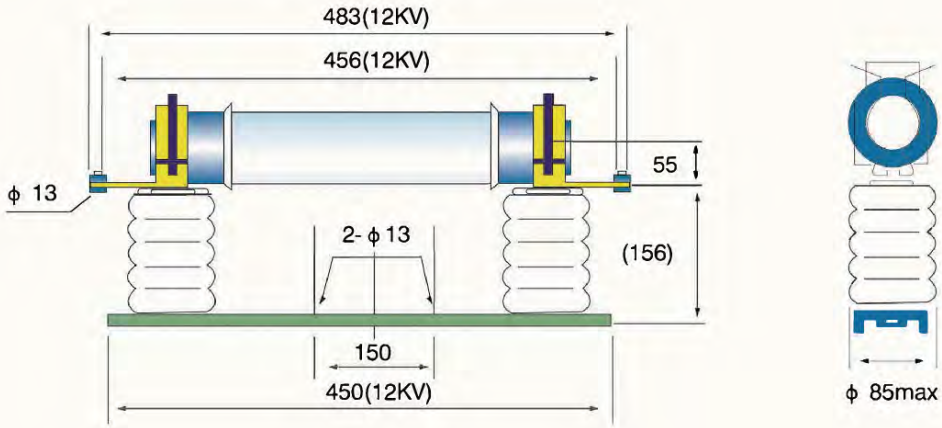
Installation Dimensios

Chat1/a link

note: ϕ A: ϕ 76mm 10 ~ 63A
ϕ 88mm 80 ~ 100A

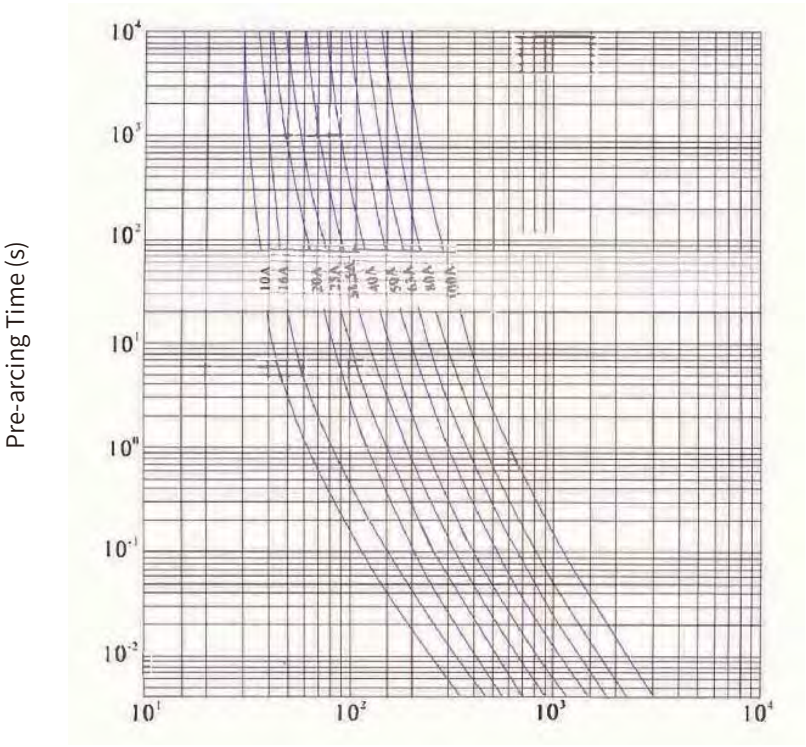


Chat1/b link(12KV)

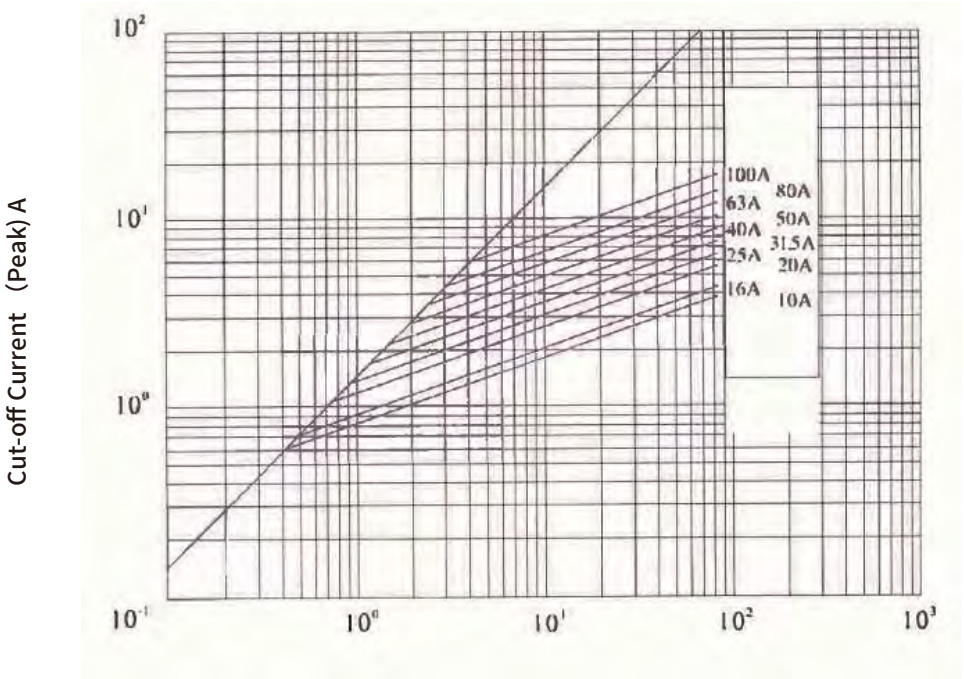


Type	U_N (KV)	I_N (A)	Diameter d (mm)	Foreign Reference Type
XRNT□	12	10	76	FFLAJ
		16		
		20		
		31.5		
		40		
		50		
		63		
		80	88	
		100		

Property Curve Diagram



Prospective current(rms)A
10A-100A Time-Current Characteristic



Prospective current(rms)A
10A-100A Current-Limiting Characteristic

High Voltage Fuse

High-voltage limit-current fuse for protection electrical motor (england bs standard)

The product can be used in indoor Ac system of 50Hz and rated voltage 3.6kV and 7.2KV 12Kv. When used together with other protection facillites(such as switches and vacuum contactors), it works to protect high-voltage motor and other electric facilities from overloading and circrit break.

Type instruction

X R N T 1 – 12 / □ – 50

- CHINESE TYPE
- Rated break current KA
- Rated current for the fuse link A
- Rated voltage KV
- Design serial number
- Motor protection
- Indoor use
- Fuse
- Limiting current

W □ □ □ □

- FOREIGN COUNTERPARTS
- Connecting mode:0=single pipe 02=pieces paraller connected 03=pieces paraller connected
- Impinger: N=None H=available
- Length of the fuse:F=254mm N=403mm
- Diameter of the fuse: D= ϕ51mm F.K= ϕ76mm
- For motor protection

Basic parameters

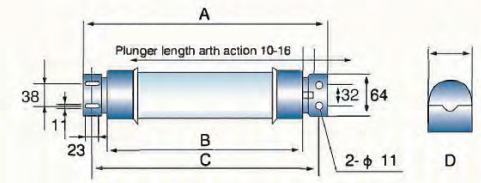
Model	Foreign TYPE	Rated voltage KV	Rated break current KA	Rated current of the fuse (A)	Rated current of the fuse link (A)	Major dimensions			
						A	B	C	D
XRNM1 -3.6	WDF.0	3.6	50	125	50, 63, 100, 125	337 (390)	254 (312)	305 (340)	51
	WFF.0			200	125 , 160, 200				76
	WKF.0			400	250, 315, 355, 400				
XRNM1 -7.2	WFF.0	7.2		160	25 , 31.5, 40, 50, 63, 80, 100, 125, 160	486 (500)	403 (461)	454 (150)	76
	WKN.0	12		315	200 , 224, 250, 315				

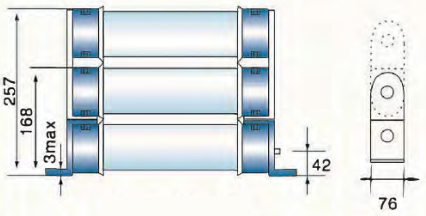
Note:1.The aboveid rated parameters for single pipe,the fuses can be parallel connected by fixed structure to geta high rated current.

2.Sizes in the bracket are for inserting fuses.

Installation Dimensios

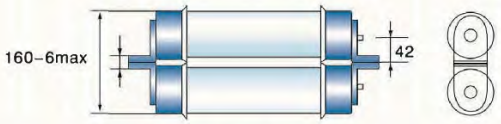
Chat1 Busbar fuse Installation Dimensions





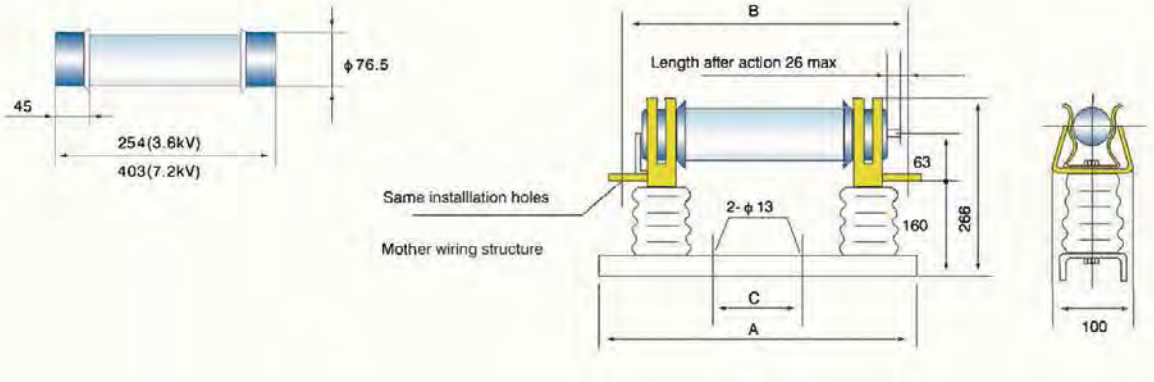
(C) Triple Parallel Fuse

(A) Single Fuse



(B) Dual Parallel Fuse

Chat2 Inserting fuse Installation Dimensions



Main technical characteristics

1.In required working conditions,the fuse can break any fault current between the minimum break current 1.6-3 and the rated break current.
2.See Chart 3 for time-current property.The section above the minimum break current is by dotted line.
3.See Chart 4 for current limit property.
4.See Chart 5 for I^2t property.

Basic parameters

Type	UN (KV)	IN (A)	D×L (mm)	A (mm)	C (mm)	Rated Breaking Current KA	Foreign Reference Model
XRNM1	3.6	50	ϕ51 × 254 standard size	337	305	63	WDFHO
		63					
		80					
		100					
		125					
		160	ϕ76 × 254 standard size				WKFHO
		200					
		224				50	
		250					
		315					
		355					
		400					
	7.2	25	ϕ76 × 403 standard size	486	454	63	WFNHO
		31.5					
		40					
		50					
		63					
		80					
		100					
		125					
		160					
		200				50	WKNHO
		224					
		250	ϕ76 × 403				
		315	ϕ88 × 403				
	12	25	ϕ76 × 403 standard size	486	454	63	
		31.5					
		40					
		50					
		63					
		80					
		100					
		125					
		160				50	
		200					
		224					

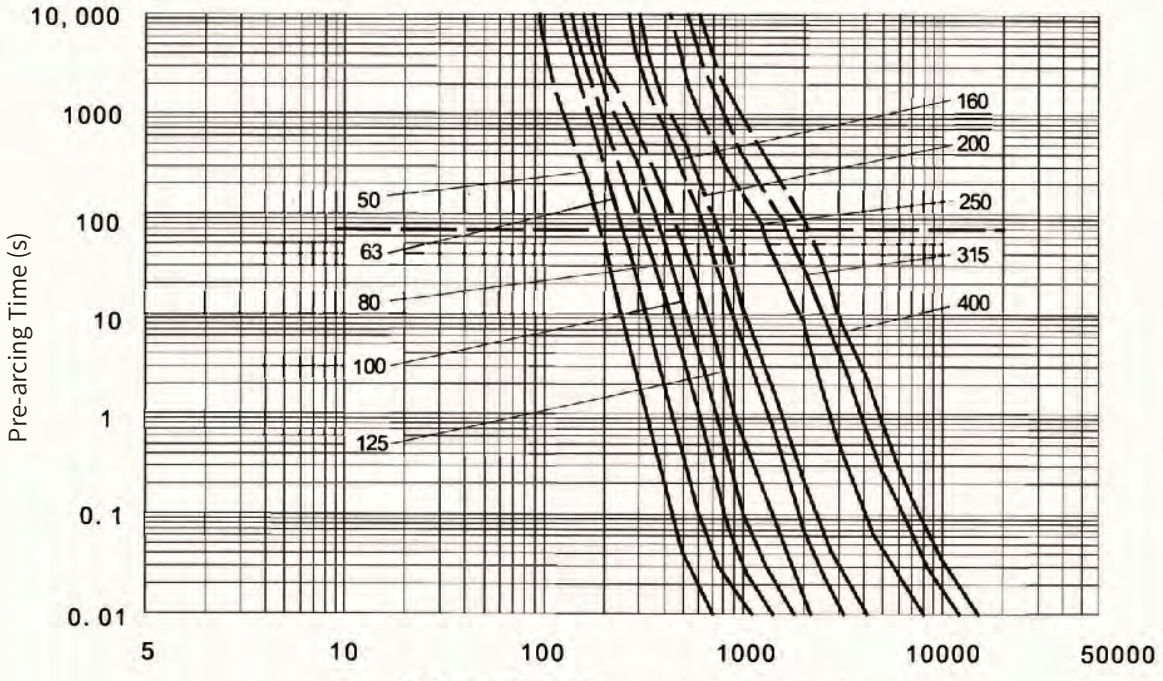


Figure 1 a) Time-Current Characteristic of WDF WFF WKF

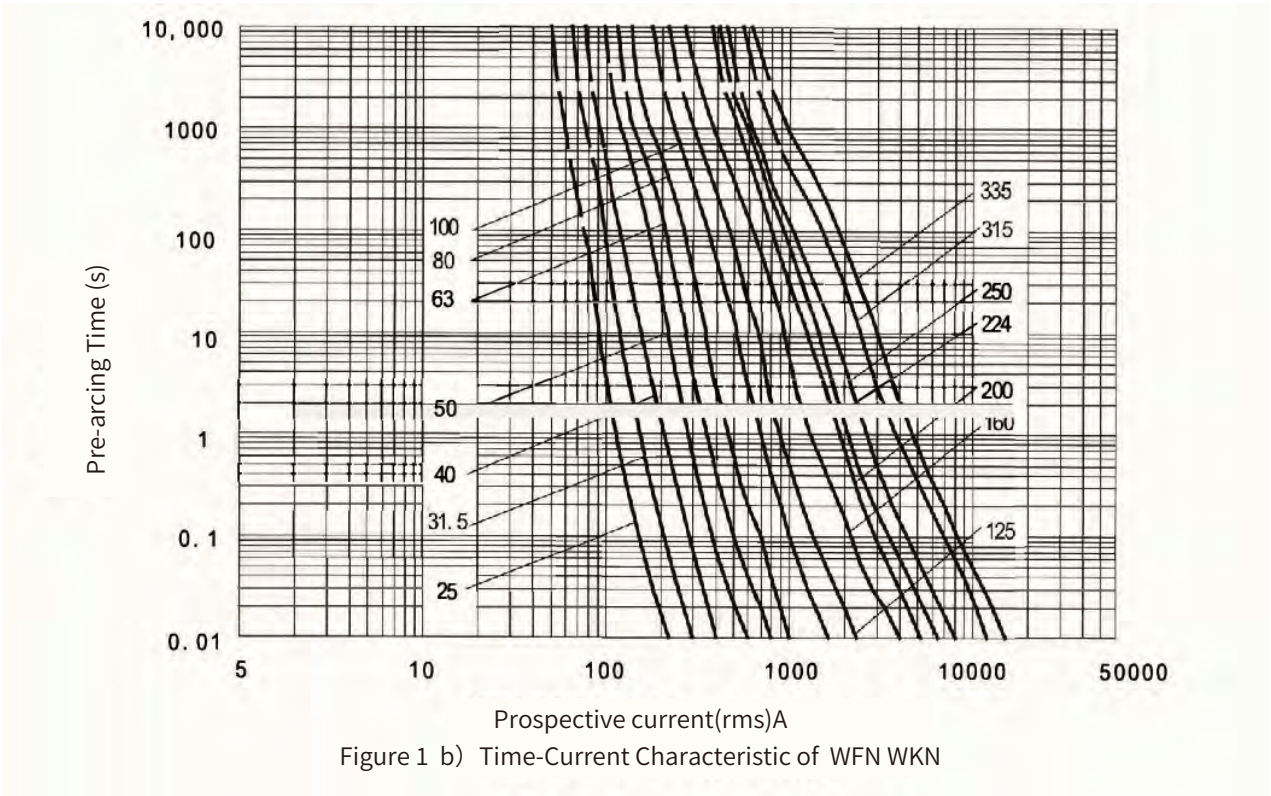
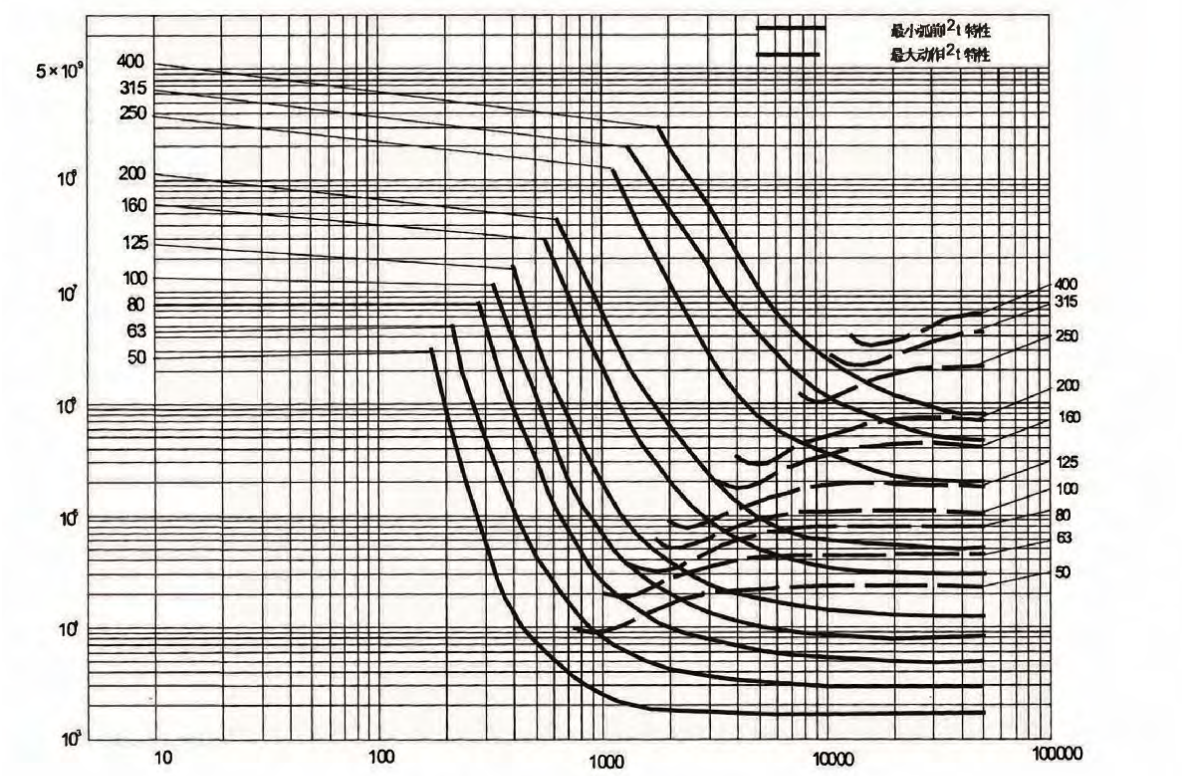
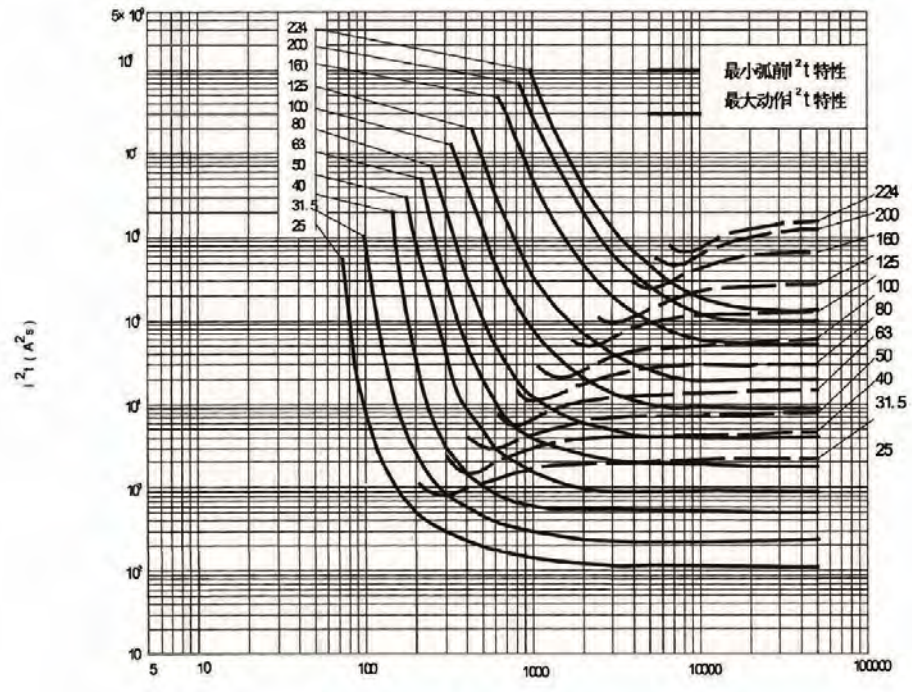


Figure 1 b) Time-Current Characteristic of WFN WKN



Prospective current(rms)A

WDF, WFF, WKF I^2t Characteristic



Prospective current(rms)A

Figure 3 WFN, WKN , I^2t Characteristic

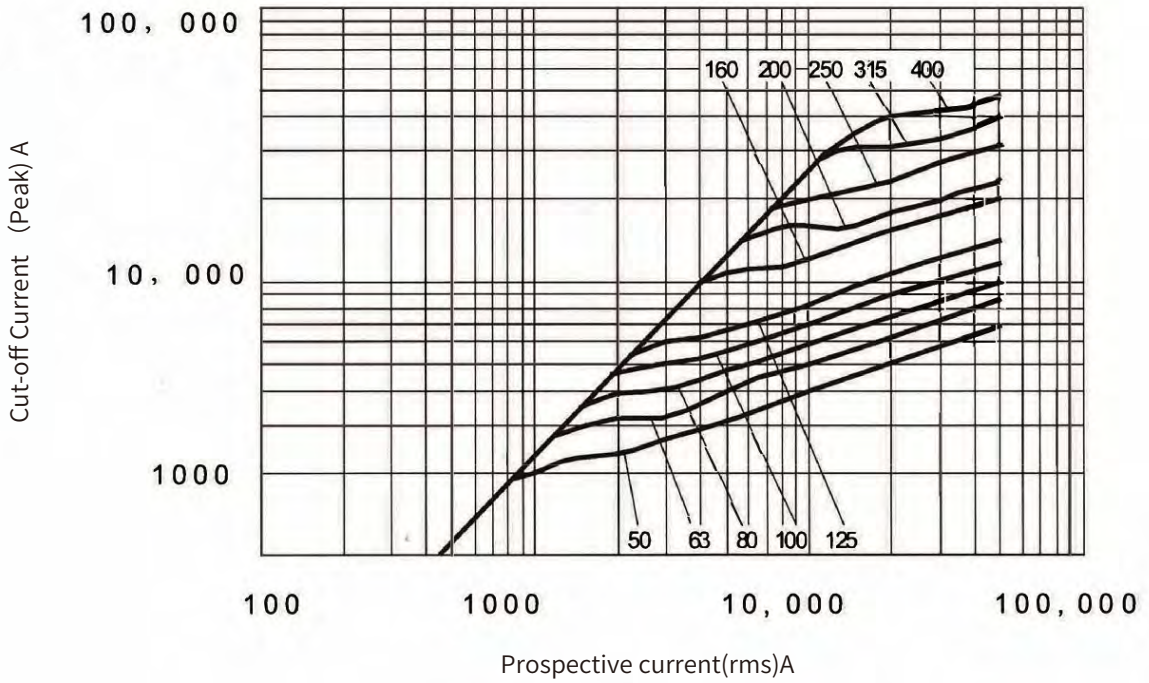


Figure 2 a) Current-Limiting Characteristic of WDF, WFF, WKF

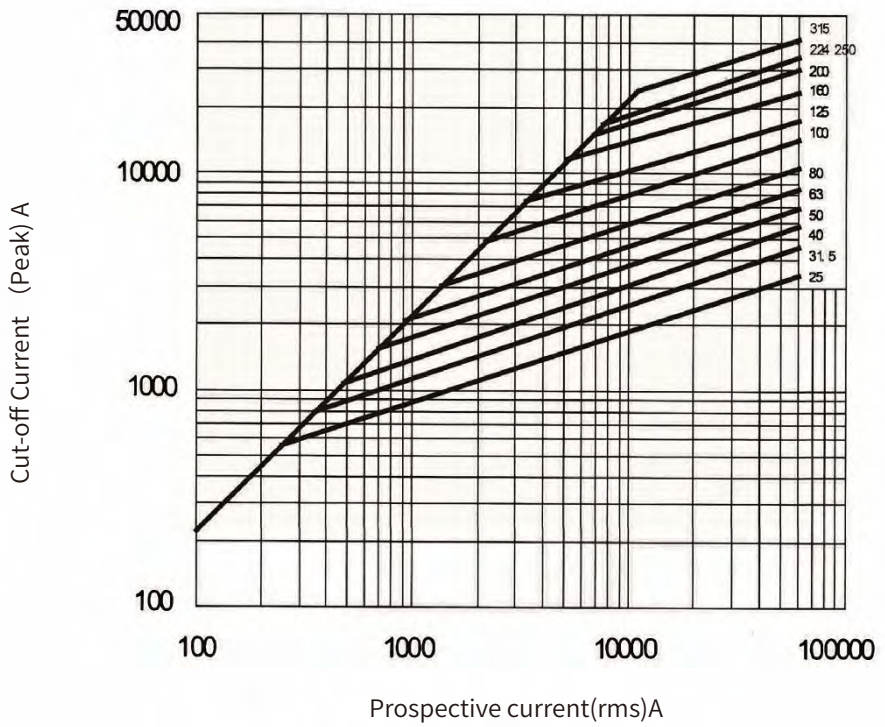


Figure 2 b) Current-Limiting Characteristic of WFN ,WKN

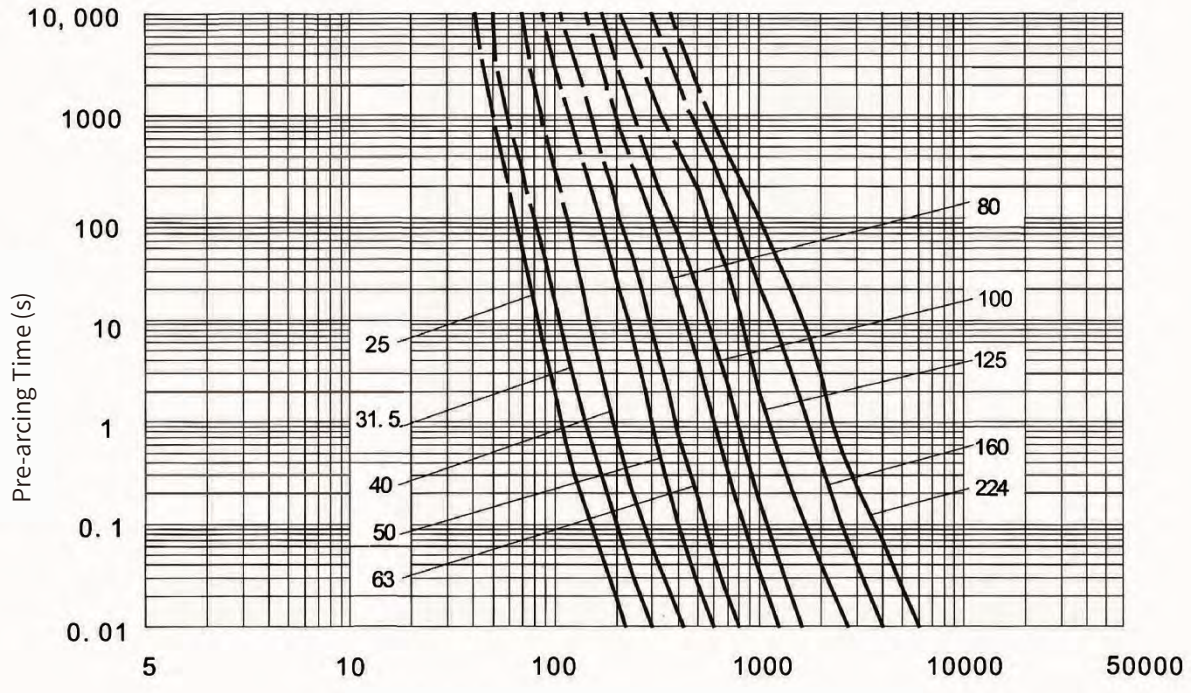


Figure 1 Time-Current Characteristic of XRNM-12

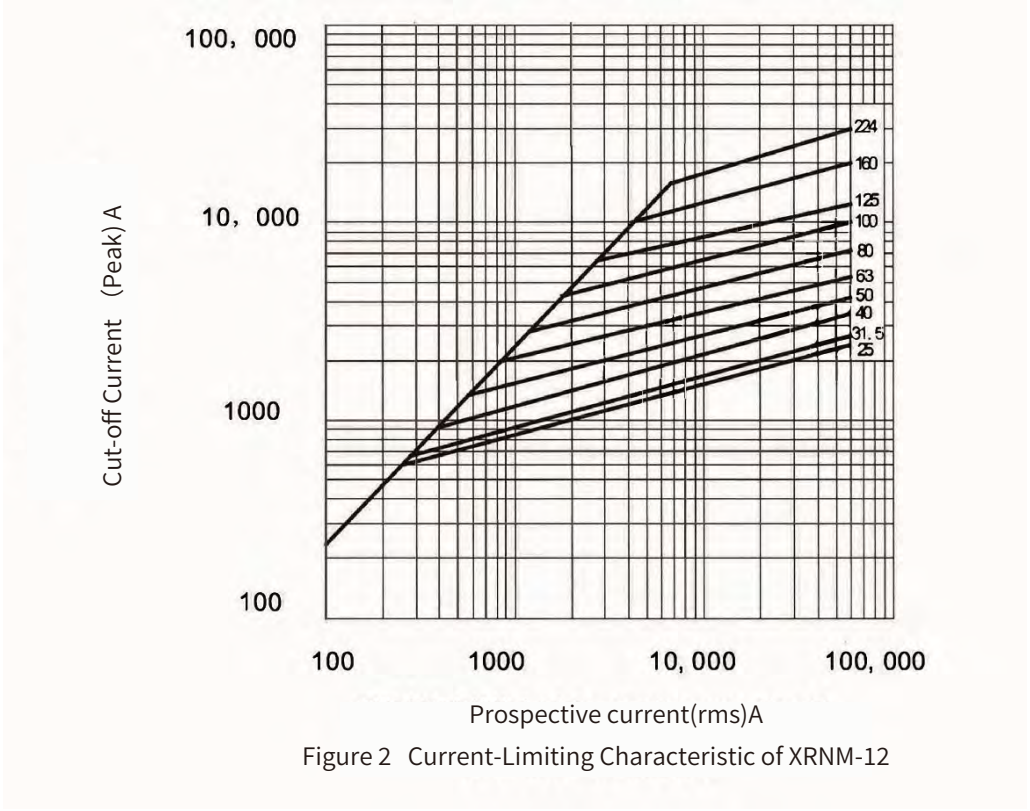


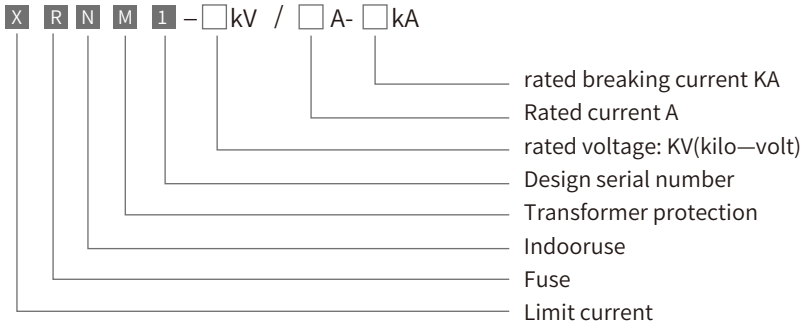
Figure 2 Current-Limiting Characteristic of XRNM-12

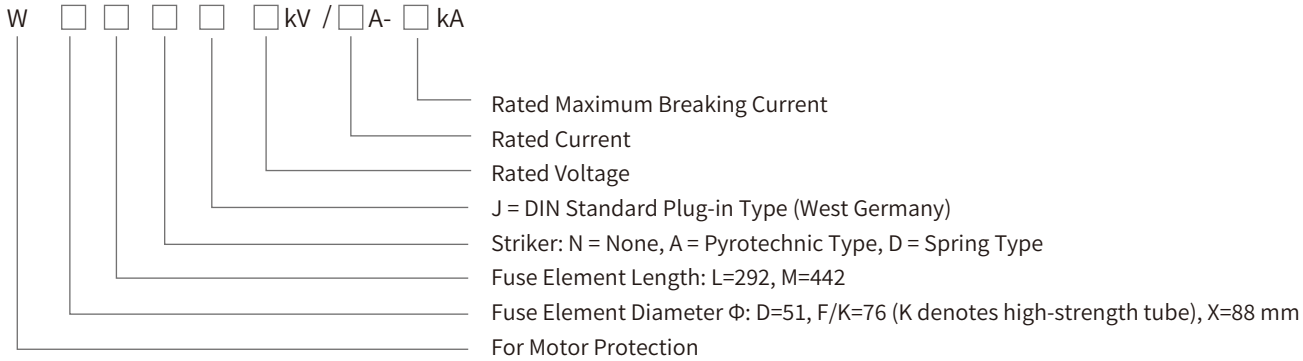
High Voltage Fuse

High-voltage limit-current fuse for protection electrical motor (england bs standard)

This devices is suitable for 50Hz,Max.voltage 3.6kv.7.2kv.12kv a.c.systems and it can be used with other protectionelectric apparatus(such as oad switch,vacuum contactor)as portion of motor and other power equipment against overloads or short-circuits.

Type:





Basic Parameters: Table 1, Table 2

Table 1

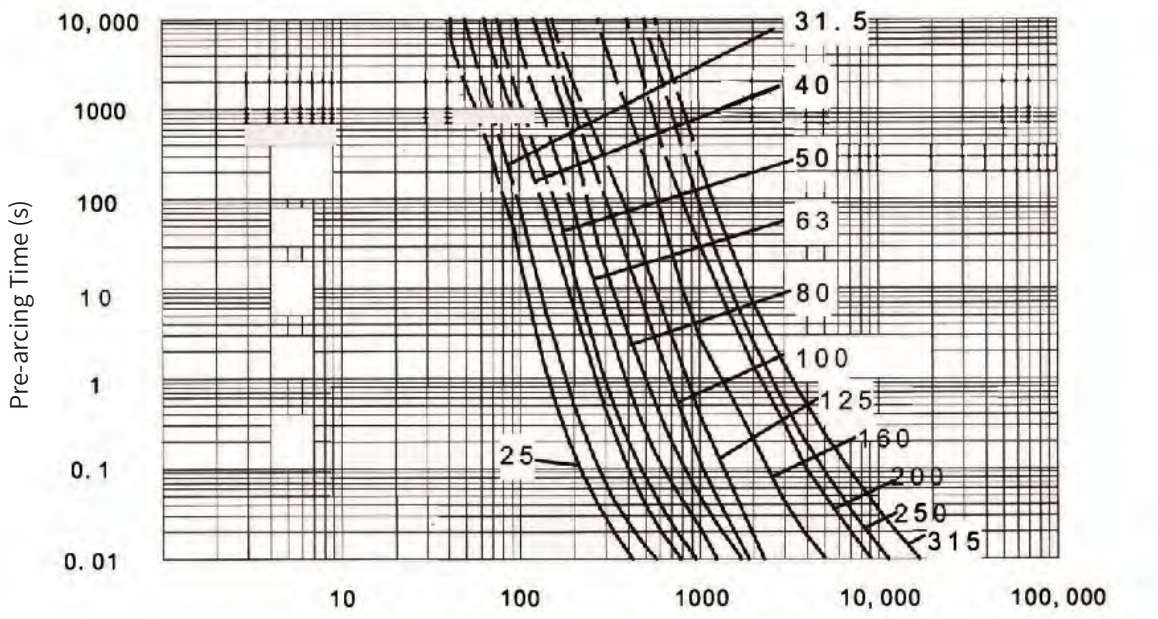
Model	Rated voltage (kV)	Rated current of fuselink (A)	Rated maximum breaking current (kA)
WDL*J	7.2	25 31.5 40 50 63	50
	12		
WFL*J	7.2	50 63 80 100	
	12		
WKL*J	7.2	125、160	
	12		
WXL*J	7.2	160 200 224 250 315	
	12	160 200	

Table 2

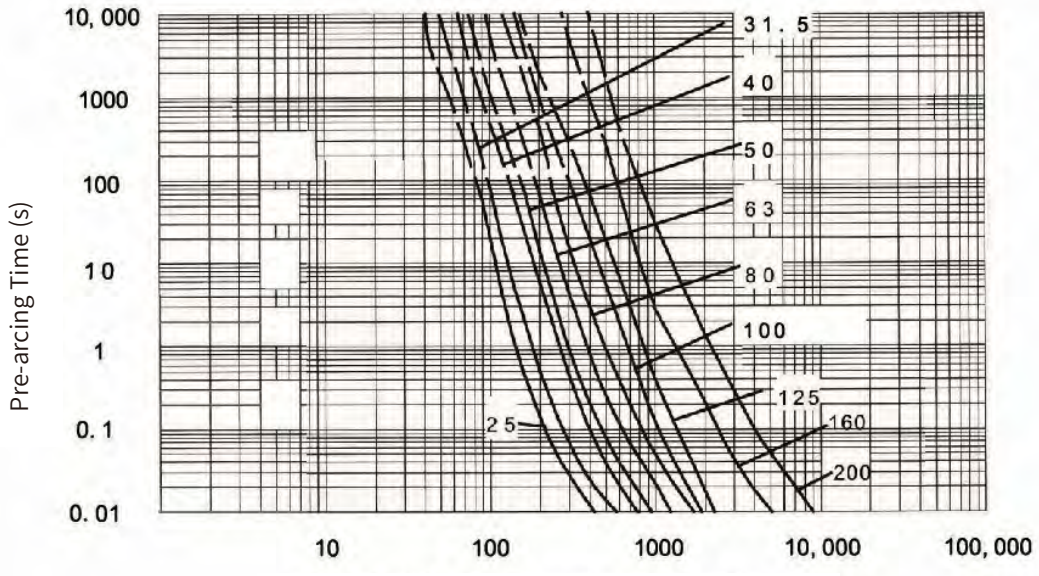
Model	Rated voltage (kV)	Rated current of fuselink (A)	Rated maximum breaking current (kA)
WFM*J	7.2	25 31.5 40 50 63 80 100 125 160	50
	12	25 31.5 40 50 63 80 100	
WKM*J	7.2	200 224 250 315	
	12	125 160	
WXM*J	7.2		
	12	200 224	

Main Technical Data

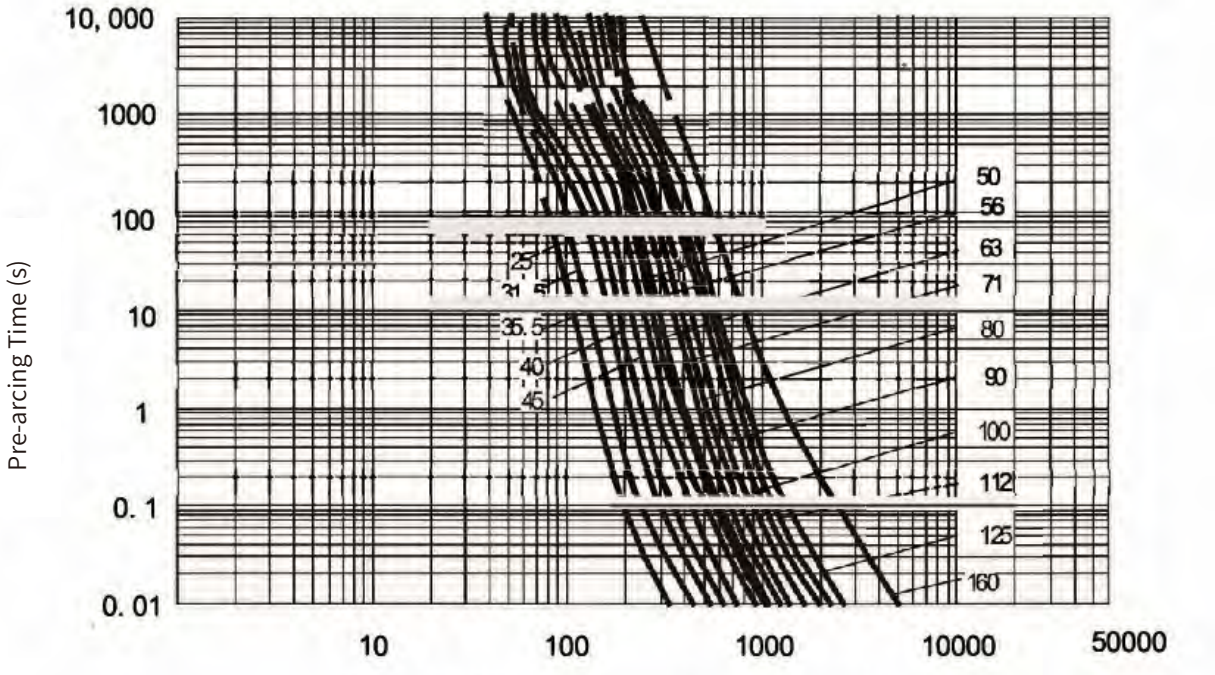
Under specified operating conditions, the fuse can reliably interrupt any fault current between the minimum breaking current I_3 and the rated maximum breaking current I_1.
For fuses with rated current below 125 A (excluding 125 A), I_3 is approximately 4 times the rated current In; for fuses with rated current of 125 A and above, I_3 is approximately 7 times the rated current In.
The time-current characteristic curve is shown in the figure below.



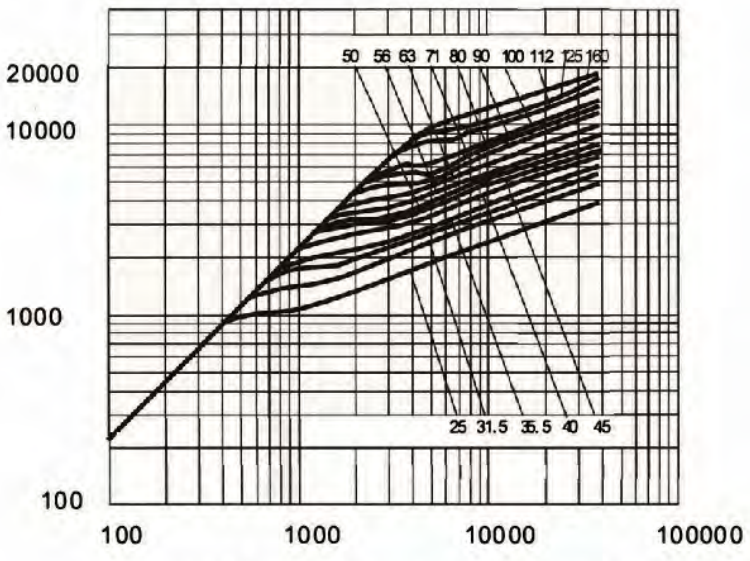
Time-Current Characteristic of WDF,WFL,WKL-7.2



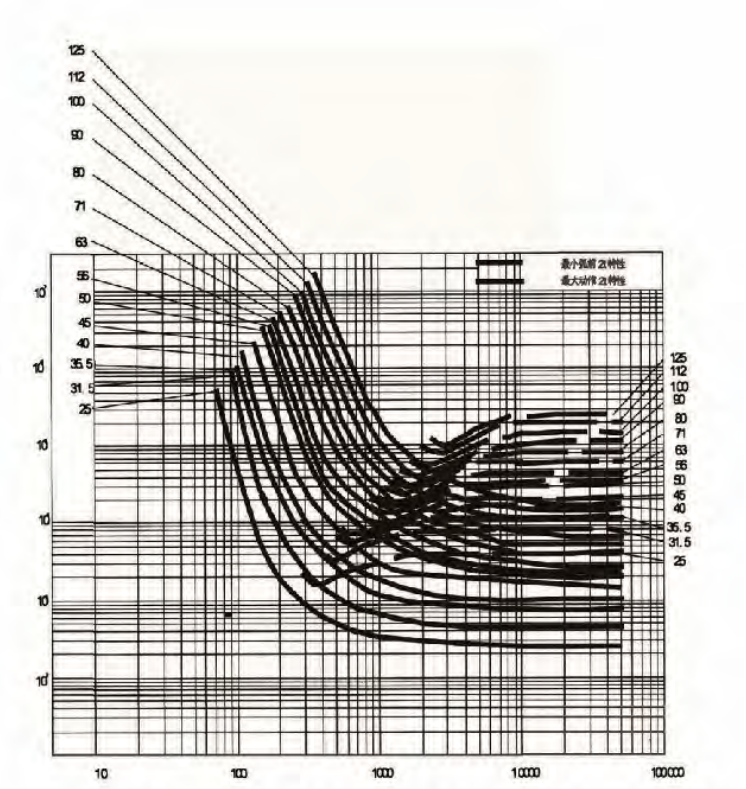
Time-Current Characteristic of WDL,WFL,WKL,WXL-12



Prospective current(rms)A
Time-Current Characteristic of WFM-12,WKM-12

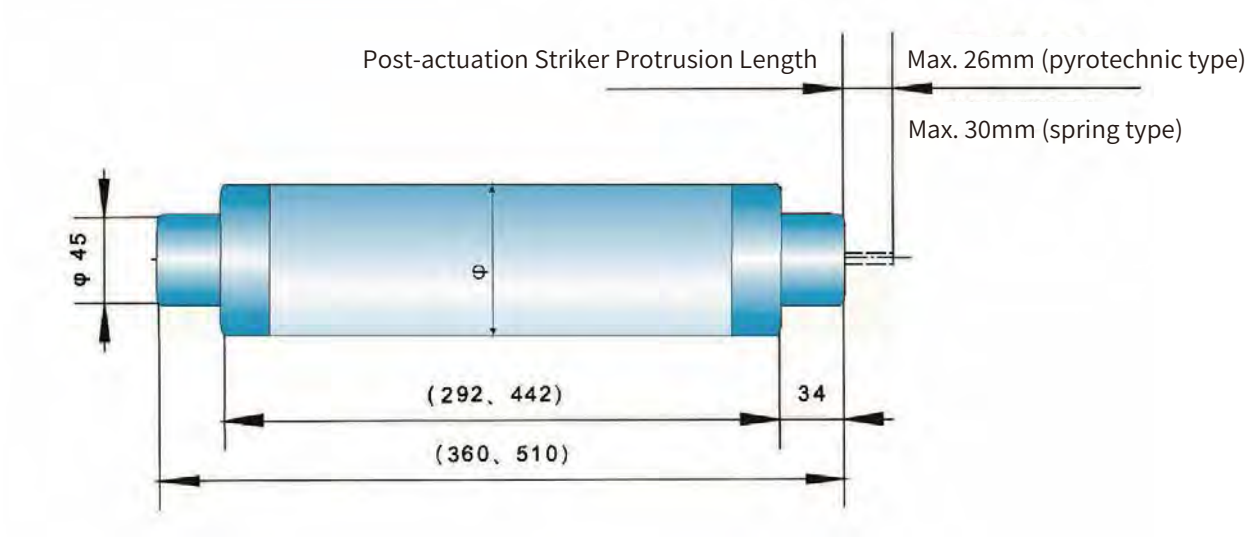


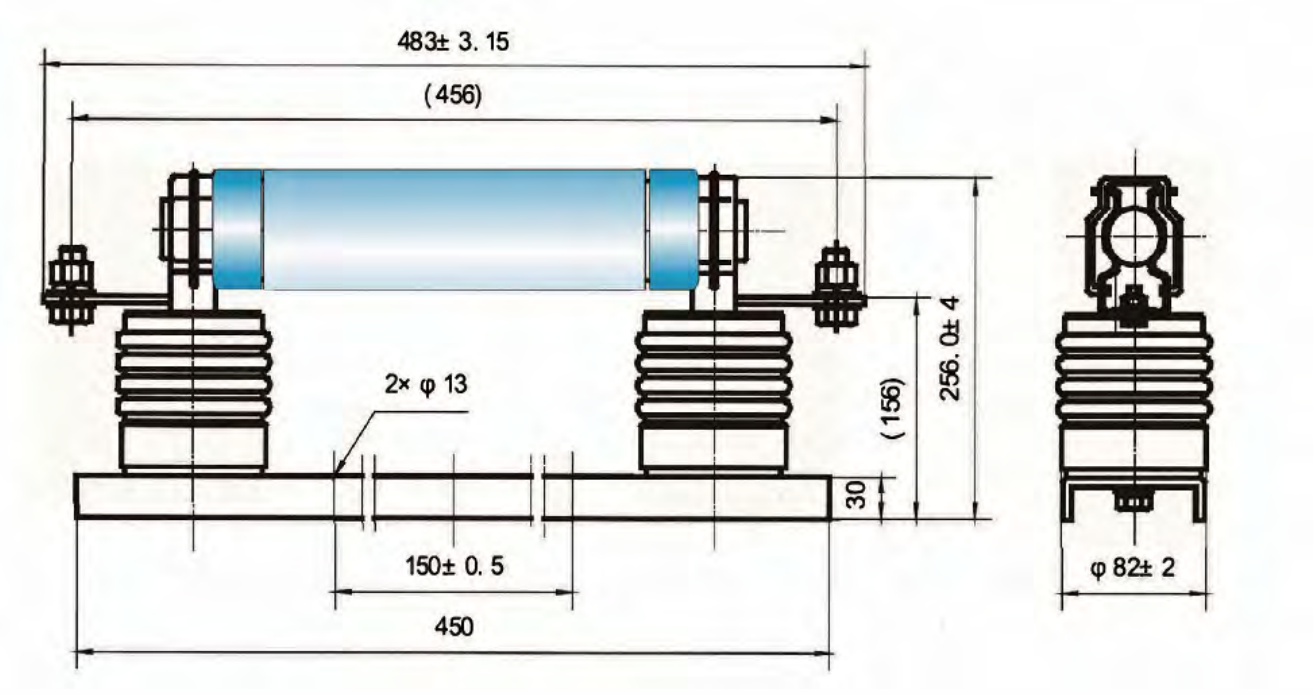
Prospective current(rms)A
Current-Limiting Characteristic of WFM-12,WKM-12



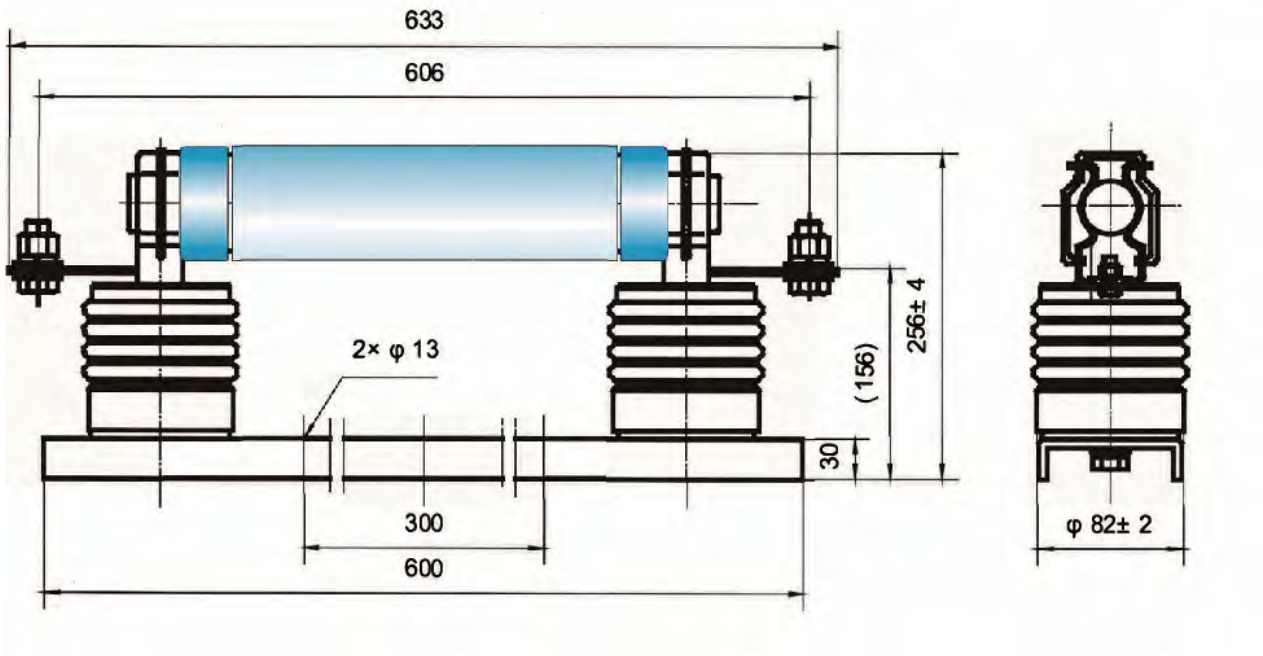
Prospective current(rms)A
WFM-12,WKM-12, I^2t Characteristic

Fuse Element Outline and Mounting Dimensions





Outline and Mounting Dimensions of Φ76×292 Fuse



Outline and Mounting Dimensions of Φ76×442 Fuse

Application

This device is is applide to 3.6KV~40.5KV indoor high-voltage fuse (with striker),such as XRNT、XRNM etc.After action of fuse,the striker would eject compressed target-head,which drives insulates core sxis move to low-volt loop.and open I-nching switch,for proving alarm and insulation function.

Installation size and operation debugging

1.This device could be installed in any direction on the premise of being up to insulated distance,its size refers to diagram1.
2.provided the striker of fuse belongs to spring type,it is suggesed to move(like diagram2),provided the striker of fuse belongs to porder type,it is suggested to move target-head to certain position with more-than-3 mm distance away from axes of striker,meanwhile,adjust push-loop to certaion with 5mmdistance away from inching rod.

Installation Dimensios

图1

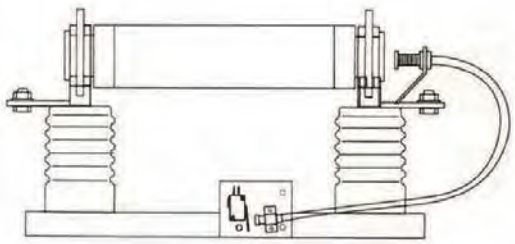


图2

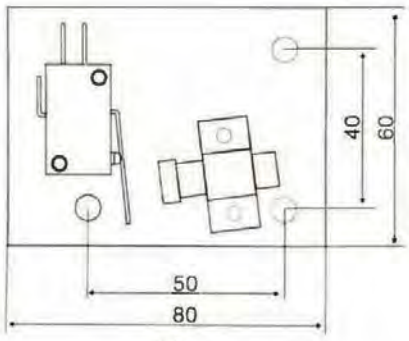


图3

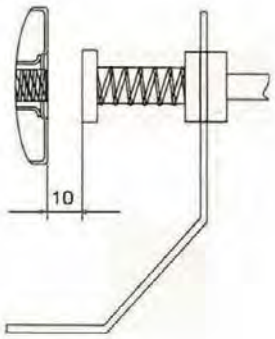


图4

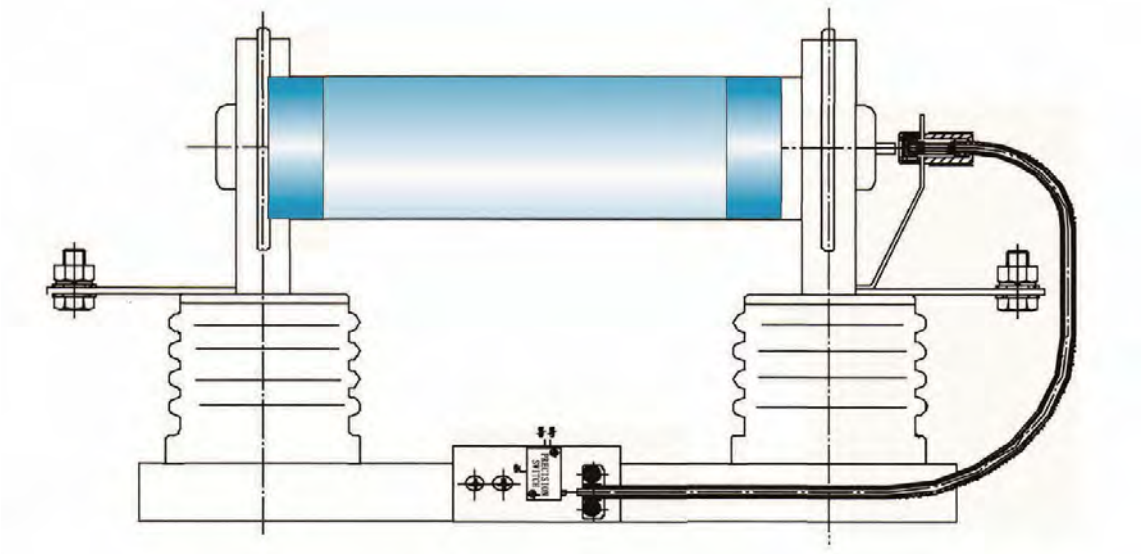
High Voltage Fuse

High-voltage limit-current fuse for protection electrical motor (british standard)

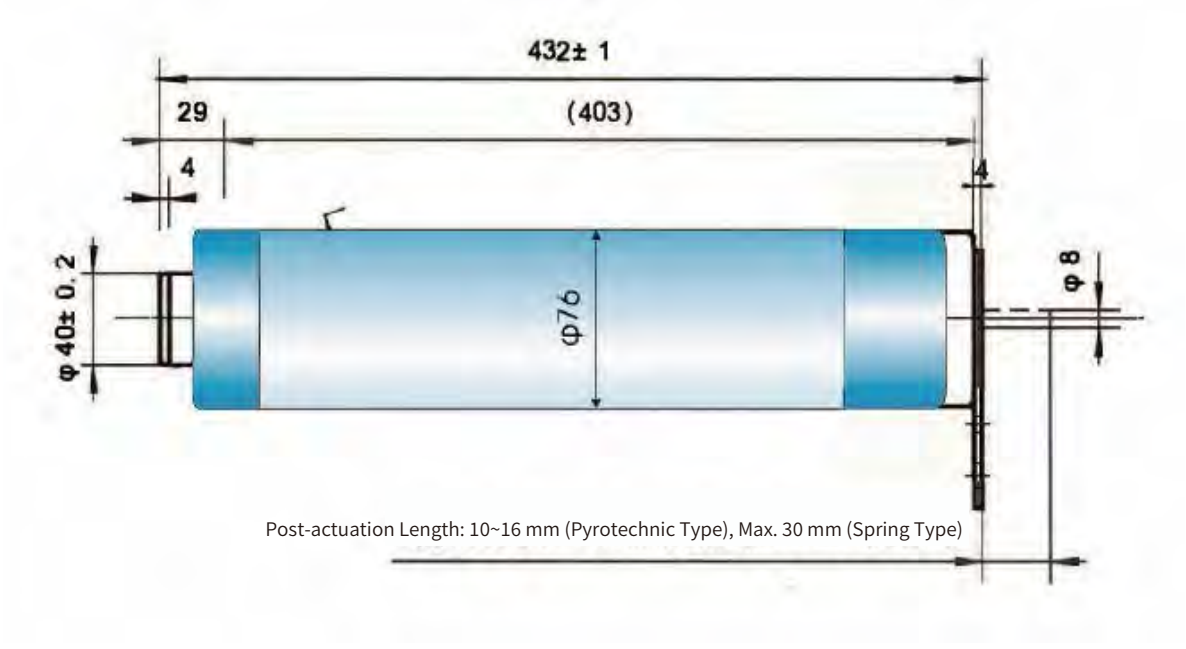
This high-voltage fuse signal indicator device connects to the high-voltage fuse, and its built-in microswitch monitors the operating status of the fuse.An insulated flexible bendable transmission mechanism transfers the motion of the fuse striker to the microswitch. The microswitch is equipped with a single-pole double-throw contact rated at AC 250V/5A (one normally open, one normally closed).

The striker side of this device can be mounted to high-voltage spring clip contacts via Connection Plate 1. The threaded holes on this accessory perfectly match the threaded holes of the high-voltage fuse spring clip contacts, eliminating extra drilling work.Connection Plate 2 is also available; no modification to the high-voltage fuse is required, and it can be directly matched with both plug-in and busbar wiring types.

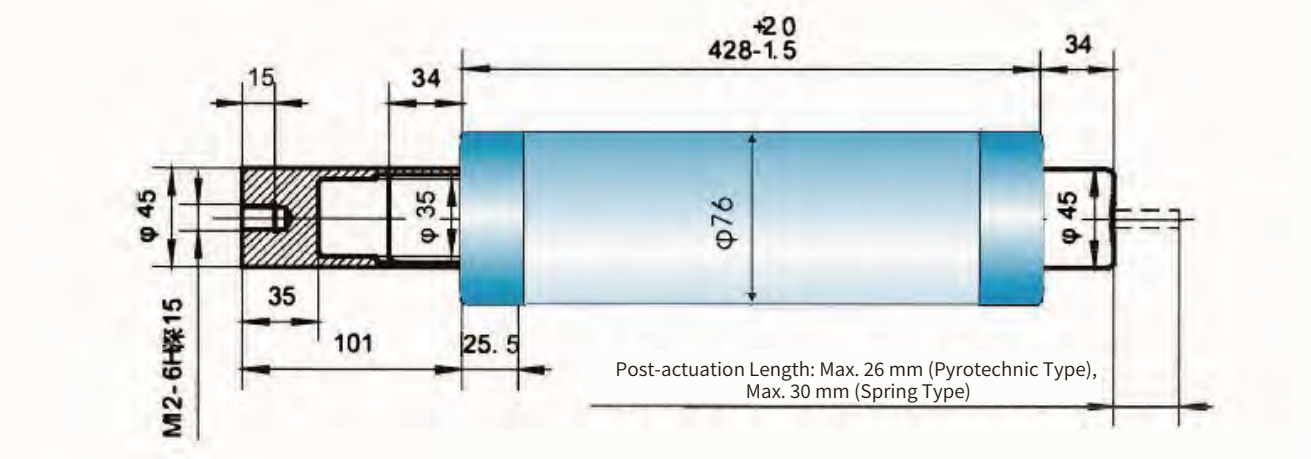
As for the microswitch side, depending on the supply voltage of the high-voltage fuse, it can be installed at a maximum distance of 500 mm from the fuse. Only two M5 mounting threaded holes need to be prefabricated on the base plate or other mounting surfaces.

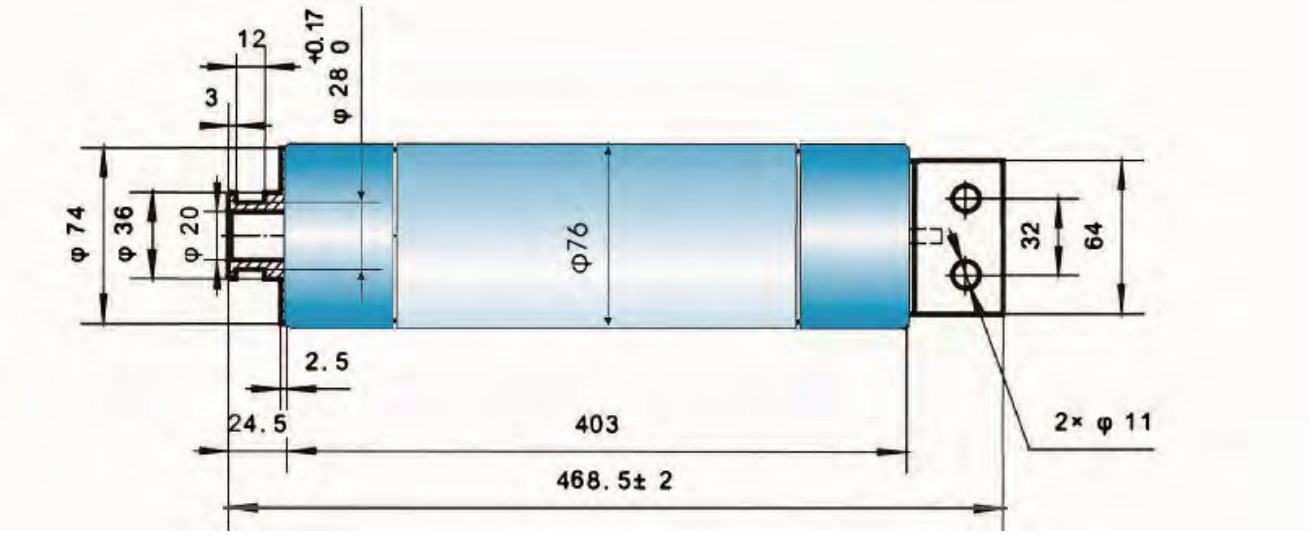


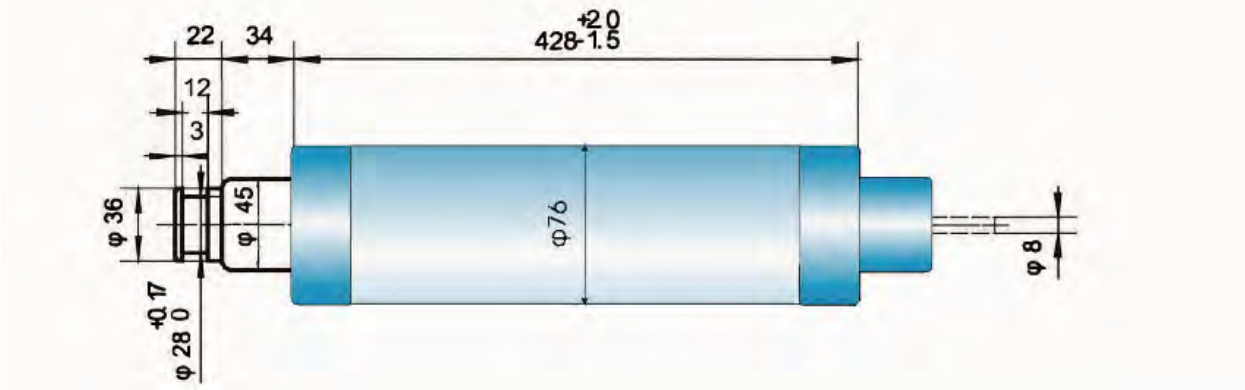
Alternative Wiring Configurations Available Upon Customer Request



Post-actuation Length: 10~16 mm (Pyrotechnic Type), Max. 30 mm (Spring Type)


+2 0
428-1.5
34
15
34
φ 45
φ 35
φ76
φ 45
35
101
25. 5
M2-6H深15
Post-actuation Length: Max. 26 mm (Pyrotechnic Type),
Max. 30 mm (Spring Type)


12
+0.17
φ 28 0
3
φ 74
φ 36
φ 20
φ76
32
64
2. 5
24. 5
403
2× φ 11
468. 5± 2


22
34
+2 0
428-1.5
12
3
φ 36
φ 45
φ76
φ 8
+0.17
φ 28 0

High Voltage Fuse

High-voltage limit-current fuse for protection electrical motor (british standard)

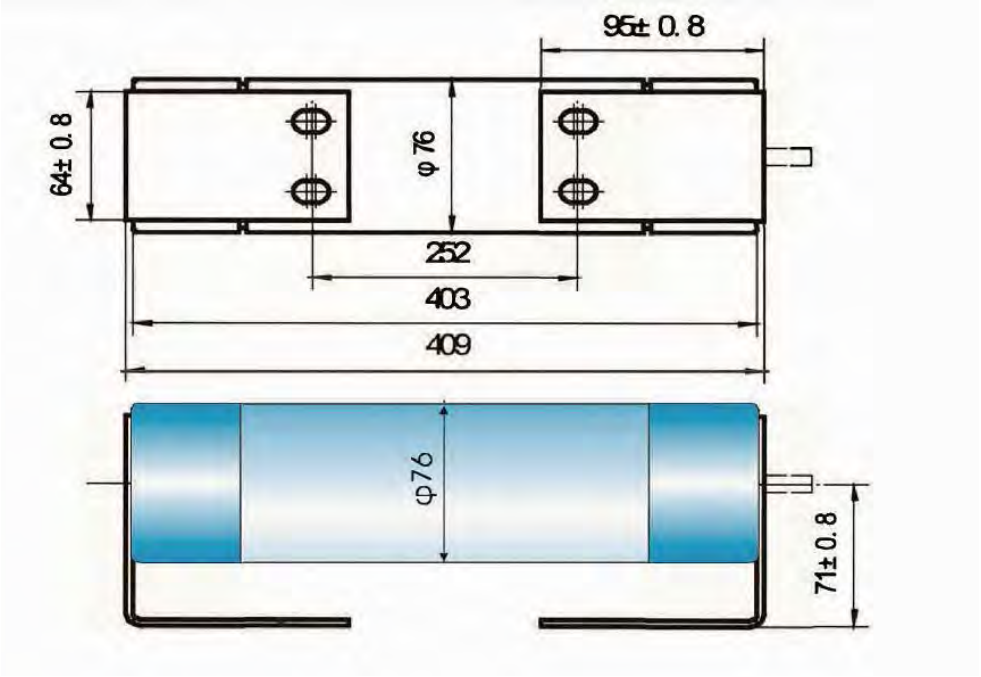


Table 1

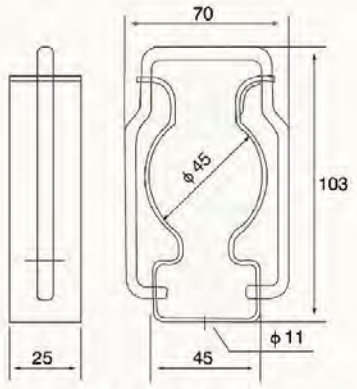
Model	Rated voltage (kV)	Rated current of fuselink (A)	Rated maximum breaking current (kA)
WFN*J	7.2	25 31.5 40 50 63 80 100 125 160	50
	12	25 31.5 40 50 63 80 100	
WKN*J	7.2	200 224 250 315	
	12	125 160	
WXN*J	7.2		
	12	200	

Table 2

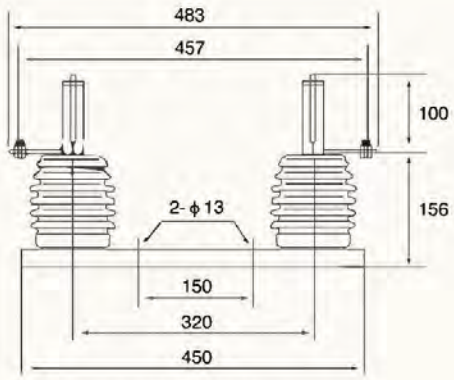
Model	Rated voltage (kV)	Rated current of fuselink (A)	Rated maximum breaking current (kA)
WFZ*J	7.2	25 31.5 40 50 63 80 100 125 160	50
	12	25 31.5 40 50 63 80 100	
WKZ*J	7.2	200 224 250 315	
	12	125 160	
WXZ*J	7.2		
	12	200	

Single-fastener and suppont basedate

The demonstrated diagram of Germany DIN standard fuse's ingle-fastener and base(fuse's length L=292mm)

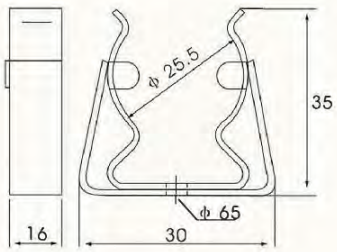


ϕ45 Single-fastener

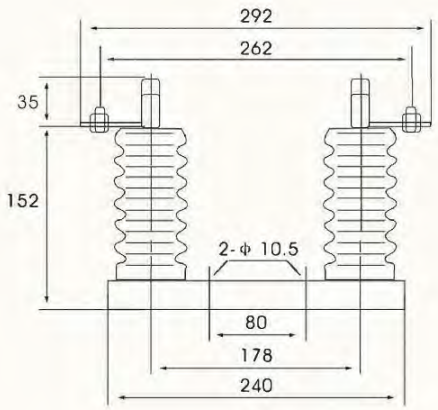


Base(ϕ45)

The demonstrated diagram of XRNP1-12 fuse's ingle fastener and base



ϕ25 Single-fastener



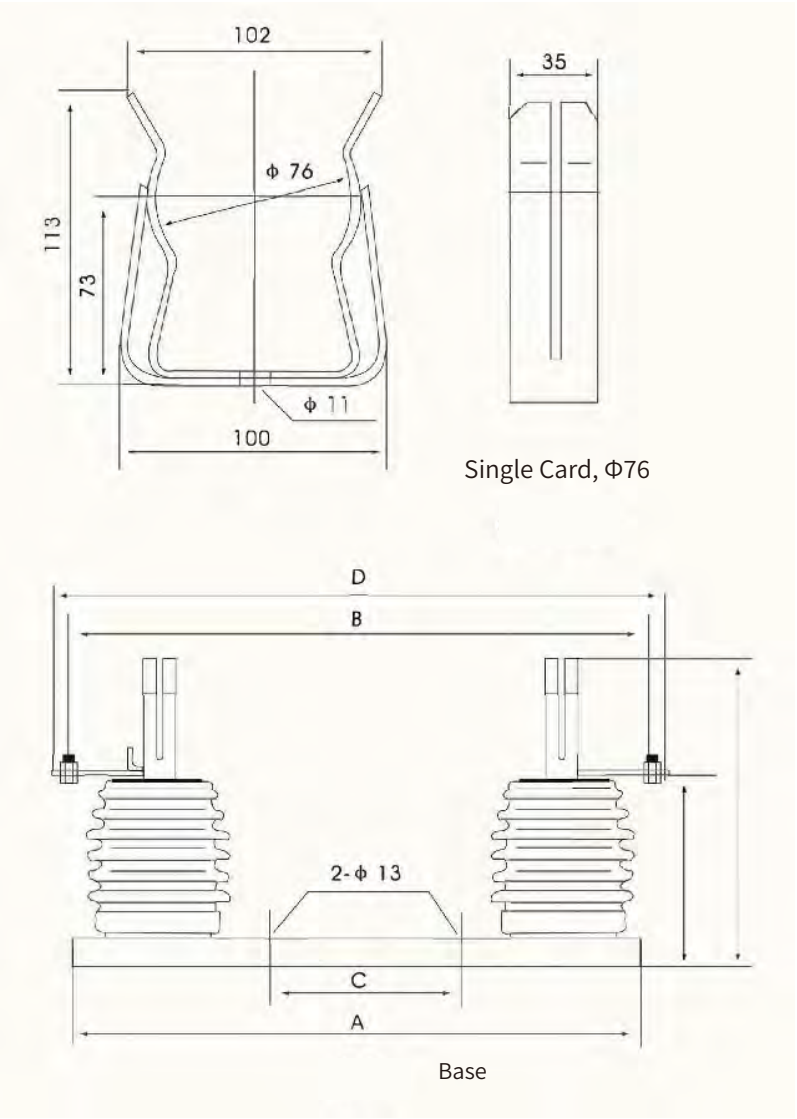
Base

Single-fastener and suppont basedate

Serial NO	Name/specification(mm)	Remarks
1	ϕ25 Single-fastener	Applied to fuse protecting voltge transformer
2	ϕ45 Single-fastener	Applied to fuse protecting volt power transformer、transformer and motor
3	ϕ76 Single-fastener	Applied to fuse protecting vol tntransformer and motor
4	ϕ25 Single-fastener	Applied to fuse protecting volt transformer
5	ϕ45 Single-fastener	Applied to fuse protecting volt power transformer、transformer and motor
6	ϕ76 Single-fastener	Applied to fuse protecting tntransformer and motor

Single-fastener and suppont basedate

Single Card and Base for BS Standard Fuses (UK Standard)



Single Card, Φ76

Base

The parameter form of single–fastener and base

Dimension (mm) / Size Code / Model	A	B	C	D
XRNM₁-3.6(WFF、WKF)	390	312	340	344
XRNM₁-7.2(WFN、WKN)	500	461	150	493
XRNM₁-12(BFG、AKG)	455	417	150	449

Upper Fuse Holder U-type Connector

Upper Fuse Holder

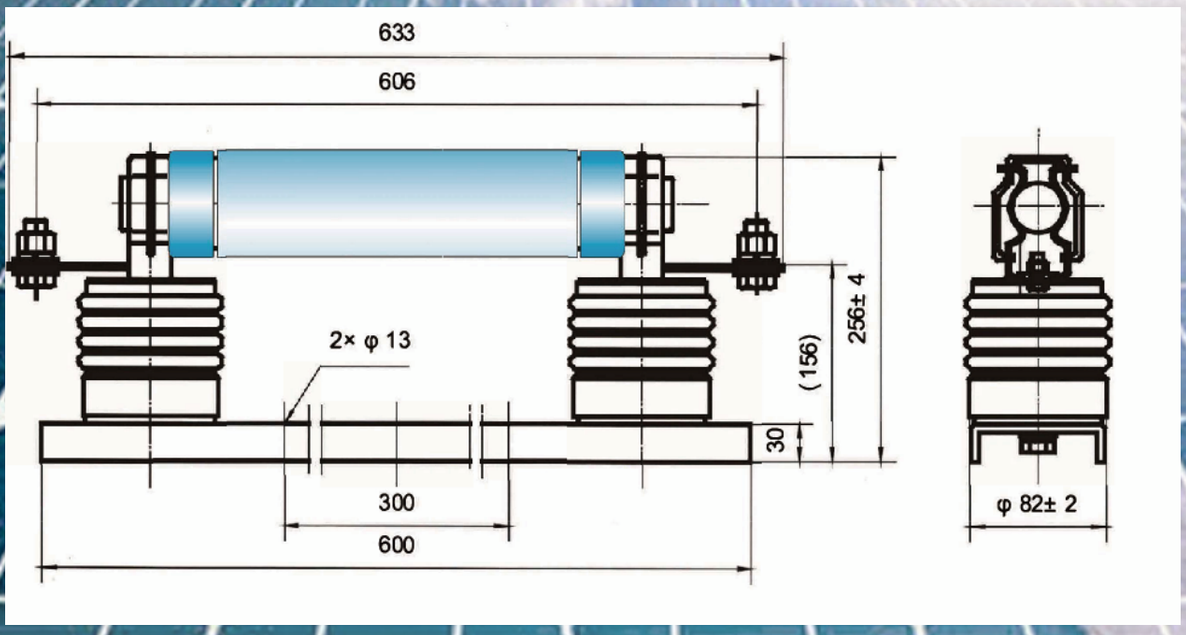
Lower Fuse Holder

Lower Fuse Holder

Holder Arc Plate

Plum Blossom Holder (Long & Short Types Available)

HV Fuse Base (Holder) 3.6/7.2kV for Fuse Link 125A 3.6/7.2kV 63kA Ø76x292 mm



CONTACT :

GECO®

PT. GENERAL ELECTRICAL COMPONENTS TECHNOLOGIES

Head office :
Kota Wisata Sentra Eropa Blok SED-57
Desa Ciangsana, Kec. Gunung Putri
Bogor 16968

Marketing office :
The Mansion Bougenville, Fontana Tower 29th Floor #BF-29K2
Jl. Trembesi Blok D, Bandar Baru Komplek Kemayoran
Jakarta Utara 14410

Tel. : 021-22646700, 22646716
Fax. : 021-26693001
Mobile : 087855180777

Email : info@geco.co.id
Website : www.geco.co.id