用途 Applications

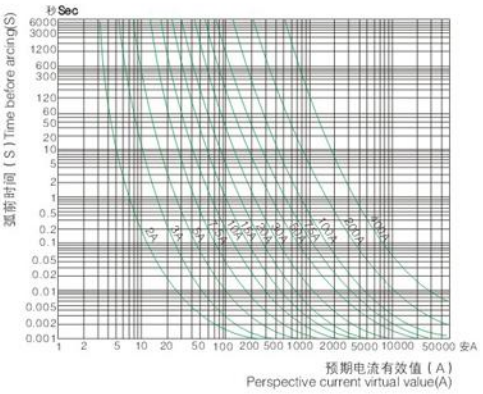
RN1型户内高压限流熔断器，用于电力线路的过载及短路保护。所谓限流就是熔断器在短路电流达到峰值之前就将其切断的功能。

RN1 type indoor H.V.Current-limiting fuse is used for protecting from overload and short circuit for power circuit. The so-called current-limiting is the function of fuse cutting off the short circuit current before it reaching the peak value.

型号含义 Model And Implication

熔断特性 Fusing characteristics

1.当通过熔断器的电流为其额定电流的1.3倍时，1小时内不熔断；
2.当通过熔断器的电流为其额定电流的2倍时，1小时内熔断；
3.熔断器的熔断特性曲线如下图示，供选择熔断器时参考。
1.When the passing current for fuse is 1.3 times of its rated current,it does not melt in 1hour.
2.When the passing current for fuse is 2 times of its rated current, it melts in 1hour.
3.Fusing characteristic curve of fuse see the following Fig. for reference of selecting fuse.



技术参数 Technical parameter

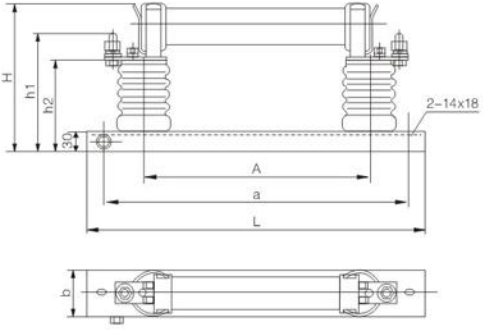
额定电压（kV） Rated voltage	6					10					35				
额定电流（A） Rated current	20	75	100	200	300	20	50	75	100	200	7.5	10	20	30	40
最大开断电流（有效值）（kA） Max breaking current（Virtual value）	20					12					3.5				
最小开断电流（以额定电流倍数表示）（kA） Min breaking current （Denoted by rated current multiple）	不规定 Not specified	1.3				不规定 Not specified	1.3				不规定 Not specified	1.3			
三相最大断流容量（MVA） Three-phase max breaking capacity	200														
开断最大短路电流时最大电流峰值（kA） Max current peak when breaking max short circuit current	5.2	14	19	25		4.5	8.6	15.5			1.5	1.6	2.8	3.6	4.2
过电压倍数 Over voltage multiple	不超过2.5倍相电压 Not exceed 2.5 times phase voltage														
重量（kg）Weight	8.5	9.6	13.6	13.6	17	10	11.5	14.5	21	21	20	20	27	27	27
熔体管重量（kg） Weight of melt tube	1.2	2	5.8	5.8	5.8	1.5	2.8	5.8	11	11	2.5	2.5	7.5	7.5	7.5

熔体管结构 Structure of melt tube

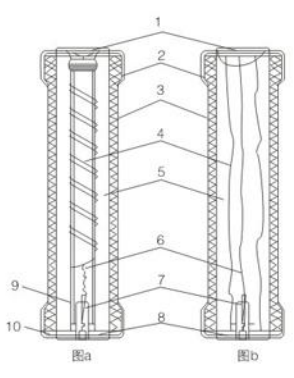
熔体管是熔断器的主要部件，它是由熔丝装在瓷管中、并在瓷管中充填石英砂、两端密封而成。额定电流在7.5A及以下及额定电压为35kV的熔管，其熔丝是绕在特制的瓷芯上，如图11.2a；额定电流在7.5A以上的熔体管，其熔丝悬挂在瓷管中，如图2.2b。

Melt tube is the main component of fuse made of fuse wire installed in porcelain tube,which is filled with quartz sand, and completed by sealing the two ends. The melt tube with rated current 7.5A and below and rated voltage of 35kV, its fuse wire is winded around purpose made porcelain core,see Fig.11.2 a;for rated current above 7.5A,its fuse wire hanging in the porcelain tube, see Fig.2.2b.

外形尺寸图 Outline dimensional drawing



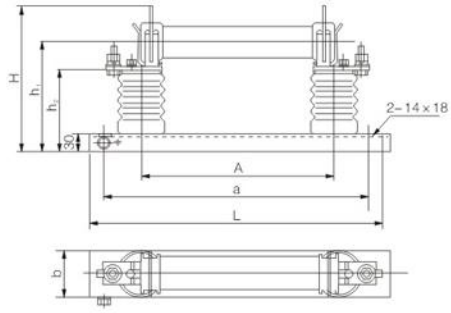
RN1-3,6,10/2-20型外形尺寸
RN1-3,6,10/2-20 Type outline dimension
图 Figure 2.1



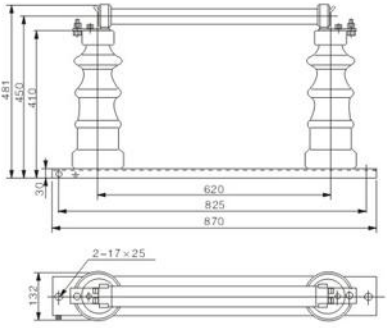
1、端盖
2、端帽
3、瓷管
4、熔丝
5、石英砂
6、指示器熔丝
7、弹簧
8、指示器头
9、瓷制芯子
10、胶垫
1、End cover
2、End cap
3、Porcelain tube
4、Fuse wire
5、Quartz sand
6、Indicator
7、Spring
8、Indicator head
9、Porcelain core
10、Cushion

RN1及RN2型熔体管剖面
Profile of RN1 and RN2 type melt tube
图 Figure 2.2

序号 No.	产品型号 Product type	额定电压（kV） Rated voltage	额定电流（A） Rated current	主要尺寸（mm）图 Fig.2.1 A	a	L	h2	h1	H	b
G0108	RN1-6/2	6	2	320	500	550	150	190	221	80
G0109	RN1-6/3		3							
G0110	RN1-6/5		5							
G0111	RN1-6/7.5		7.5							
G0112	RN1-6/10		10							
G0113	RN1-6/15		15							
G0114	RN1-6/20		20							
G0115	RN1-10/2	10	2	420	600	650	150	190	221	80
G0116	RN1-10/3		3							
G0117	RN1-10/5		5							
G0118	RN1-10/7.5		7.5							
G0119	RN1-10/10		10							
G0120	RN1-10/15		15							
G0121	RN1-10/20		20							

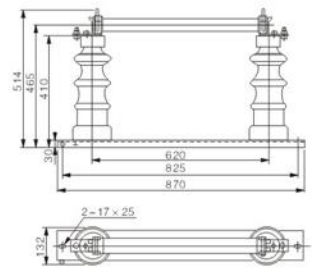


RN1-6/30~7.5,RN1-10/30~50型外形尺寸
RN1-6/30~7.5,RN1-10/30~50 Type outline dimension
图 Figure 2.3

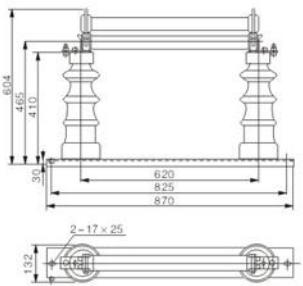


RN1-35/2~10型外形尺寸
RN1-35/2~10 Type outline dimension
图 Figure 2.4

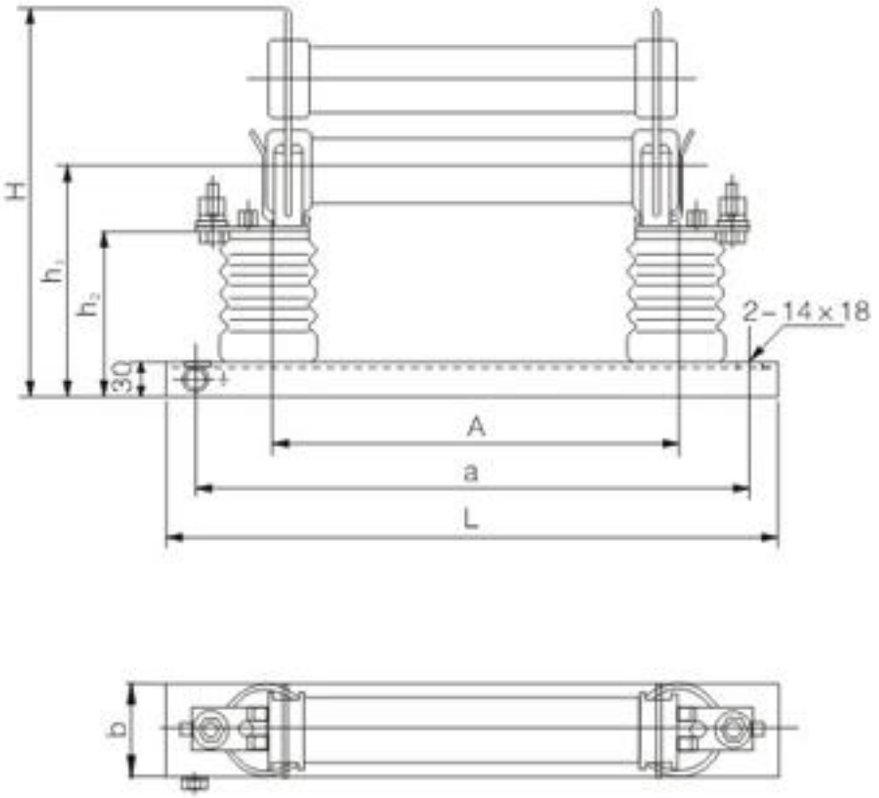
序号 No.	产品型号 Product type	额定电压（kV） Rated voltage	额定电流（A） Rated current	主要尺寸（mm）图 Fig.2.3 A	a	L	h2	h1	H	b
G0122	RN1-6/30	6	30	370	500	550	150	200	269	80
G0123	RN1-6/40		40							
G0124	RN1-6/50		50							
G0125	RN1-6/75		75							
G0126	RN1-10/30	10	30	470	600	650	150	200	269	80
G0127	RN1-10/40		40							
G0128	RN1-10/50		50							



RN1-35/15型外形尺寸
RN1-35/15 Type outline dimension
图 Figure 2.5

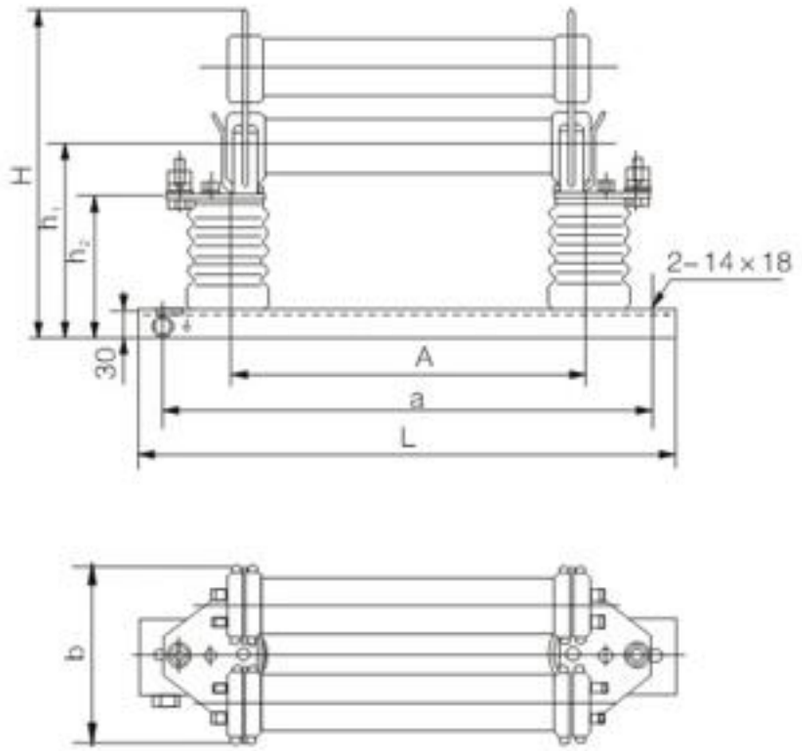


RN1-35/20~40型外形尺寸
RN1-35/20~40 Type outline dimension
图 Figure 2.6



RN1-6/100~200，RN1-10/75~100型外形尺寸
RN1-6/100~200，RN1-10/75~100 Type outline dimension

图 Figure 2.7



RN1-6/100~300，RN1-10/150~200型外形尺寸
RN1-6/100~300，RN1-10/150~200 Type outline dimension

图 Figure 2.8

序号 No.	产品型号 Product type	额定电压（kV） Rated voltage	额定电流（A） Rated current	主要尺寸（mm）图Figure 2.7						
				A	a	L	h_2	h_1	H	b
G0129	RN1-6/100	6	100	470	600	650	150	200	353	80
G0130	RN1-6/150		150							
G0131	RN1-6/200		200							
G0132	RN1-10/75	10	75	470	600	650	150	200	353	80
G0133	RN1-10/100		100							

序号 No.	产品型号 Product type	额定电压（kV） Rated voltage	额定电流（A） Rated current	主要尺寸（mm）图Figure 2.8						
				A	a	L	h_2	h_1	H	b
G0134	RN1-6/300	6	300	370	500	550	156	202	344	180
G0135	RN1-10/150	10	150	470	600	650	156	202	344	180
G0136	RN1-10/200		200							