Usage and its scope of application

RDT16 series powder filled cartridge knife type contact fuse is suitable for the industrial electric distribution device of AC 50Hz, rated voltage up to 500/690V, rated current up to 1250A, as the use of the over-load and short-circuit protection for the circuit.

Confirms to: GB13539.1-2008/IEC60269-1:2006; GB/T13539.2-2008/IEC 60269-2:2006



Model and its implication

RD T 16 -□/□

- Rated current of fuse link
- Fuse size
- Design serial No.
- Powder filled cartridge fuse (NT fuse system)
- Enterprise code





Normal operating condition and installation condition

3.1 Ambient temperature: -5C~+40C, average value within 24h does not exceed +35 ÿ, and the average value within one year should be less than this value.

3.2 Altitude of installation place does not exceed 2000m

3.3 Atmosphere condition

The air is clean, and its relative humidity does not exceed 50% when the ambient temperature is at 40 C. It is allowed relatively high humidity at the relatively low temperature, for example, the relative humidity can reach 90% when 20ÿ, and it should take consideration of the condensation produced on the surface of product that is due to the temperature variation.

3.4 Voltage

When the rated voltage is 500V, the maximum value of system voltage does not exceed 110% of fuse's rated voltage; When the rated voltage is 690V, the maximum value of system does not exceed 105% of fuse's rated voltage.

Note: the fuse link is fusing in a significantly lower than the rated voltage, the fuse indicator or fuse impactor may not act.

3.5 Installation category: III

3.6 Grade of pollution: not less than 3

3.7 Installation position

This series of fuse can be vertically, horizontally or obliquely installed at those operation occasions of without obvious shake, impact vibration.

Note: if the fuse is used in the different from the normal installation specified condition, it should be negotiated with the manufacturer.

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Scope of breaking and usage category

Breaking scope of this series fuse link is "g", the usage category is "G", which is the general use full scope of breaking capacity fuse link.

Structure characteristics

This series of fuse is consisted of the fuse link and fuse base, remove the fuse link can choose the fusion loading component/handle.

The fuse link is consisted of fuse tube, melt, filler and indicator. The variable cross-section melt of pure copper belt or wire is sealing into the high strength fuse tube, there filled into the fuse tube with the high purity of quartz sand that is processed by chemical as the arcing medium. Two ends of the melt are spot welded to be firmly electric connected with the end plate (or connecting plate), which forms the knife contact plug-in type structure. The fuse link can be with fusing indicator or impactor, it can display fusing (indicator) or convert to various signals and automatically change-over the circuit (impactor) when the melt is fusing.

The fuse base is combined with flame - retarded DMC plastic baseboard, and the wedged type static contacts, which appears open type structure. The front plate wiring terminal is to be connected with the external wire by the screw. There pre-remains two installation holes. The whole fuse holder has the advantages of good heat dissipation effect, high tensile strength, reliable contacts and convenient operation, etc.

The fusion loading component/handle is formed by the thermosetting plastic film, which is good insulation performance, simple structure and freely operate.

Main technique parameter

Table 1

Size	Rated voltage	Rated breaking capacity	Rated current A		Power factor cos ϕ
			Fuse	Fuse link	
00C	500V 660V	120kA 50kA	100	6、10、16、20、25、32、40、50、63、80、100	0.1~0.2
00			160	6、10、16、20、25、32、40、50、63、80、100、125、160	
0			160	16、20、25、32、40、50、63、80、100、125、160	
1			250	80、100、125、160、200、250	
2			400	125、160、200、250、315、400	
3			630	315、400、500、630	
4	380V	100kA	1000	800、1000	
4a			1250	1000、1250	

External and installation dimension

7.1 External and installation dimension of fuse link

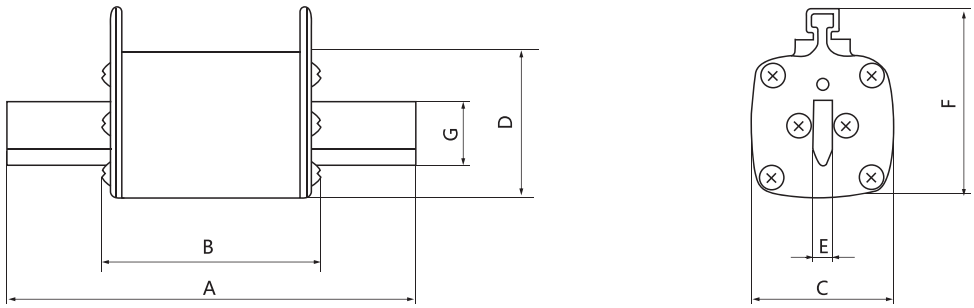


Table 2

Size	Code						
	A	B	C	D	E	F	G
00C	78.5	49	21	40.5	6	42.5	15
00	78.5	49	29	45	6	56.5	15
0	126	68	29	45	6	56.5	15
1	135	68	48	49	6	62	20
2	150	68	56	59	6	70	25
3	150	68	67	68	6	85	32
4	200/150	90	97	100	8	113	50
4A	200	90	97	100	8	113	50

7.2 External and installation dimension of fuse base

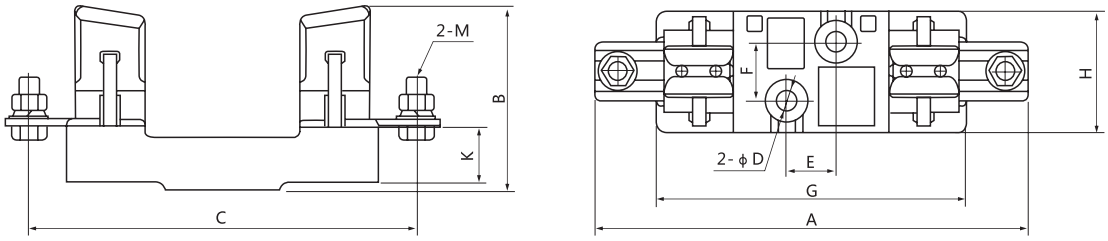
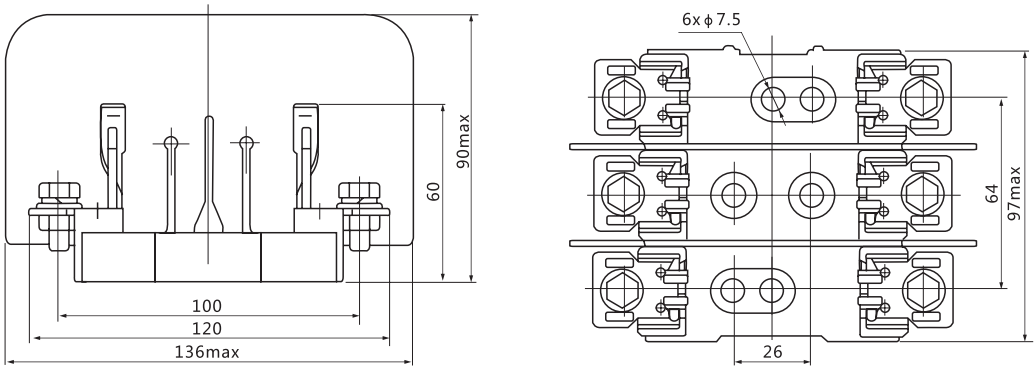


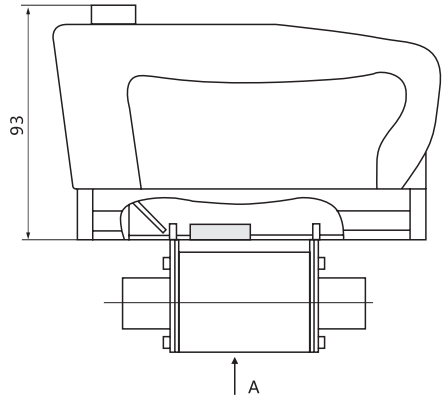
Table 3

Size	Code									
	A	B	C	D	E	F	G	H	K	M
00(sist101)	120	61	100	7.5	25	-	90	30	24	8
1(sist201)	200	80	175	10.5	25	30	142	58	30	10
2(sist401)	224	90	200	10.5	25	30	160	62	36.5	10
3(sist601)	250	105	210	10.5	25	30	160	62	36.5	12
4(sist1001)	304	145	260	13	30	45	-	96	44	12

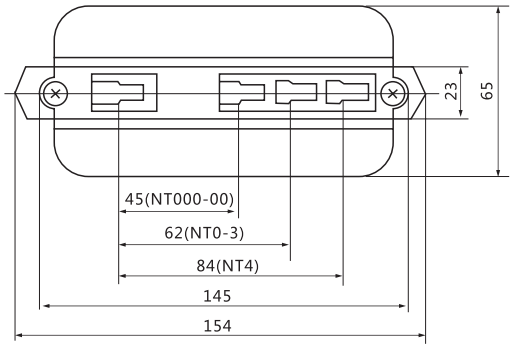
7.3 External and installation dimension for RDT16-00 3 poles

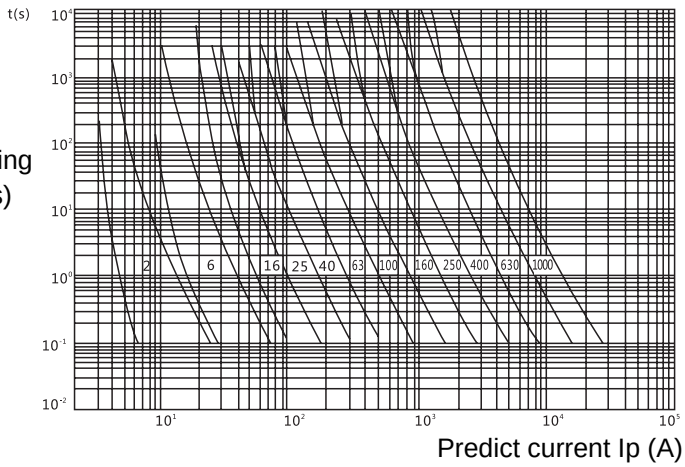


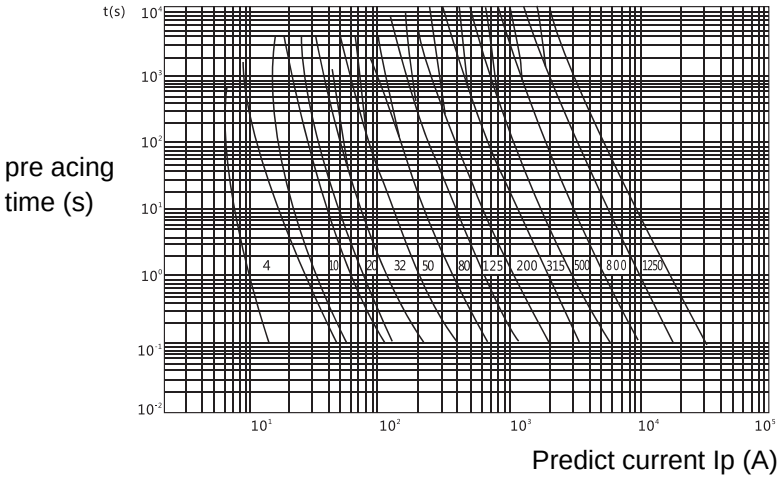
7.4 External and installation dimension for fusion loading component



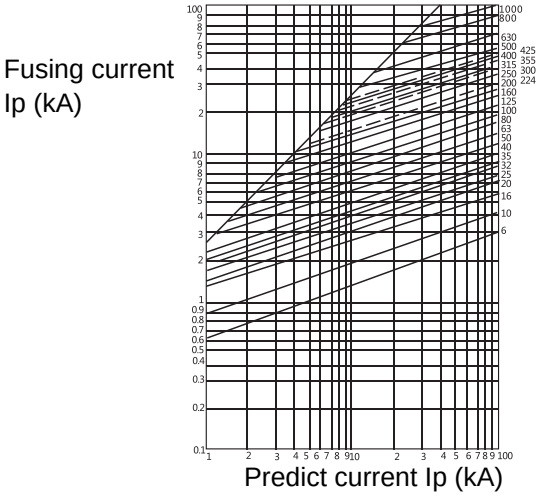
Fuse link time-current characteristics curve







Fuse cross section current characteristics curve



Ordering Notice

It required to be noted when ordering: product name and model No., voltage of fuse link, current of fuse link, and quantity, the fuse base or fuse link can also be ordered separately.
For example, 1. Fuse link RDT16-00 500V/160A, 1000 pcs, fuse base RDT16-00 1000 pcs, it can be also written as fuse RDT16-00 500V/160A 1000 sets;
2. Fuse link RDT16-1 690V/200A 8000 pcs, fuse base RDT16-1 600 pcs