

Tripping device

There's tripping device designed on the modular of the protector. When the protector is over heat or shocked, the tripping device can automatically separate it from the electric net, at the same time showing the indication signal. It's green when the protector is normal, red when tripping.

Remote signaling contact

The products can be produced available with the accessory of remote signaling contact. If one or more of modular of the protector is in malfuction, the contact will be closed, and sending the malfunction signal.

Principal parameters

Maximum continuous operating voltage: Uc 75 150 275 320 385 440 660V~

Test grade:II

Voltage protect level: Up < 350 550 1000 1250 1500 1750 2500V

Maximum discharge current: (8/20µS) Imax 40kA Nominal discharge currrent: (8/20µS) In 10 15 20kA

Remote communication terminal parameter

Type of remote communication terminal		Active		
Terminal normal power	UNAN	AC: 250V/0.5A DC: 250V/0.1A, 125V/0.2A, 75V/0.5A Maximum single line: 1.5mm ²		
Conductor section	BY10-40/4-150			

Main Structure and Operating Principle

In three-phase four-line system, three phase lines and one zero line are connected protective device to the earth cable . (figure 1) . In normal situation , the protective device is high resistance, when the over voltage brings for electric network shocked by thunder or other reasons, the protective device will rapidly transmit in ns, then lead the voltage into earth and protect the electric equipment . As the surge voltage through the protective device and after disappear it will recover to high resistance and not influence the normal operating.

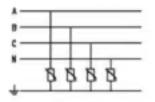
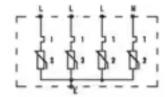


Fig.1 380V net graph



Note: 1. thermal malfunction tripping device 2. voltage dependent resistance

Technical Parameters

	75	150	275	320	440	600		
Uc	75V~110V~	50V-200V-	275V-350V-	20V-420V-	440V~585V~	600V~1600V-		
In	10	15	20	15	15	15		
Imax	40	40	40	40	40	40		
5kA	≤350V	≤550V	≤1KV	s1250V	≤1750V	s2.5kV		
In	≤450V	≤750V	£1,5kV	≤1750V	≤2250V	≤3KV		
			16	25ns				
		125AgL/Gg				100AgL/Gg		
it current intensity		50kA/50Hz			25kA/50Hz			
		40C -+ 80C						
Conductor section Min 1.5			in 1.5mm?sibgle lead, max. 35mm multi-twisting lead/35mm single laed					
	35mm rail							
	red hot shrink material							
	IP20							
	one stnadard module width							
	In Imax 5kA	Uc 75V~110V~ In 10 Imax 40 5kA ≤350V In ≤450V	Uc 75V~110V~ 50V~200V~ In 10 15 Imax 40 40 5kA ≤350V ≤550V In ≤450V ≤750V	Uc 75V~110V~ 50V~200V~ 275V~350V~ In 10 15 20 Imax 40 40 40 5kA ≤350V ≤550V ≤1kV In ≤450V ≤750V ≤1.5kV ≤ 125AgL/Gg 50kA/50Hz 40C Min 1.5mm?sibgle lead. max. 35mr red hot sh	Uc 75V~110V~ 50V~200V~ 275V~350V~ 20V~420V~ In 10 15 20 15 Imax 40 40 40 40 40 5kA ≤350V ≤550V ≤1kV ≤1250V In ≤450V ×750V ×1.5kV ×1750V ×25ns 125AgL/Gg 50kA/50Hz 40C ~+ 80C Min 1.5mm?sibgle lead. max. 35mm multi-twisti 35mm rail red hot shrink material IP20	Uc 75V~110V~ 50V~200V~ 275V~350V~ 20V~420V~ 440V~585V~ In 10 15 20 15 15 15		

Installation

- 1. It is installed by standard 35 mm rail.
- 2. The earth cable should choose the double color wire 4mm?whose length is not longer than 500 mm.
- 3. To avoid the influence to the electric net after the protector is in malfuction, the protector connected to L line should be in series connect with a fuse. The appearance and installation dimension refer to the Fig. 3.

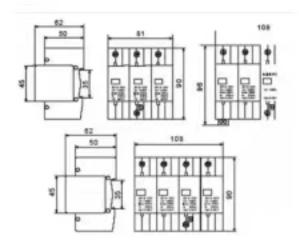


BY10-65/3



Installation position and application

- 1. SPD class B, functioning as an equi-potential connection in case of lightning.
- 2. Installed at the joint of the LPZOA, LZPOB and LPZ1 zones.
- It is usually installed in low voltage main distribution cabinet connected to the incoming end of the buildings.
- It adopts 35 mm DIN rail.
- 5. It is linked by 6 --- 35 mm2 copper wire
- The cable should choose double color wire which is longer than 6 mm²
- 7.. In order to guarantee electrical network's normal operating after protective device losing efficiency, the protective device which linked to the phase line must be connected a fuse box whose current is higher than 63A or a circuit breaker. Appearance and Installation Dimension





BY10-40/4

Usage and application scope

Usage and application scopeBY10 type surge protective device (short name "SPD") is suitable for AC 50/60 Hz,380V and the following electric power systems, such as TT, IT, TN-S, TN-C, TN-C-S. It protects the electric network shocked by the thunder or over voltage.

Working condition:

- 1.Height: not more than 2000m
- Operating temperature : normal -5~+40C Enlarge range: -40~+80C
- 3. Relative humidity: on condition that room temperature 30%~90%
- 4. Installed at no notability shocked and virated place
- Don't be contained in explosion medium, the medium such as air and dust (including conduction dust) shouldn't come to the degree that can corrode metal or damage insulation.

Model and meaning

