

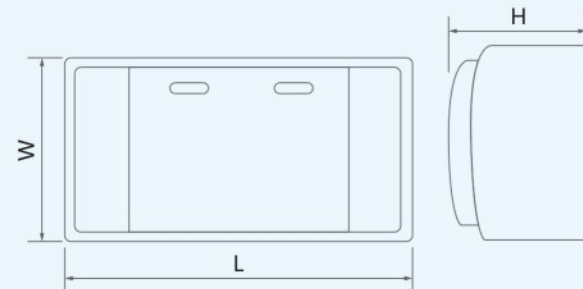
### General

HA Series lighting box is in line with IEC-493-1 standard, attractive and durable, safe and reliable, which is widely used in various places such as factory, mansion, residence, shopping center and so on.



### Features

1. Panel is the ABS material for the engineering, high strength, never change color, the transparent material is PC.
2. Cover push-type opening and closing  
Face covering of the distribution box adopts the push-type opening and closing mode, the face mask can be opened by pressing lightly, the self-locking positioning hinge structure is provided when opening.
3. Wiring design of the power distribution box  
The guide rail support plate can be lifted to the highest movable point, it is no longer limited by the narrow space when installing the wire. To install easily, the switch of the distribution box is set up with the wire groove and wire pipe exit-holes, which are easy to use for a variety of wire grooves and wire pipes.



Model	Dimension(mm)		
	L(mm)	W(mm)	H(mm)
HA-4P	140	210	100
HA-8P	215	210	100
HA-12P	300	260	140
HA-18P	410	285	140
HA-24P	415	300	140

### LYD-20 Surge Protection Device

#### General

LYD-20 series Surge Protection Device is suitable for TT, IT, TN-S, TN-C and TN-C-S, the power supply system with the rated voltage up to 230/400V and AC 50/60Hz. Its design corresponds to IEC61643-1, GB18802.1 and GB50057. The product is usually installed in the incoming line low voltage distribution box of the building, and it can release 20kA lightning stroke current.

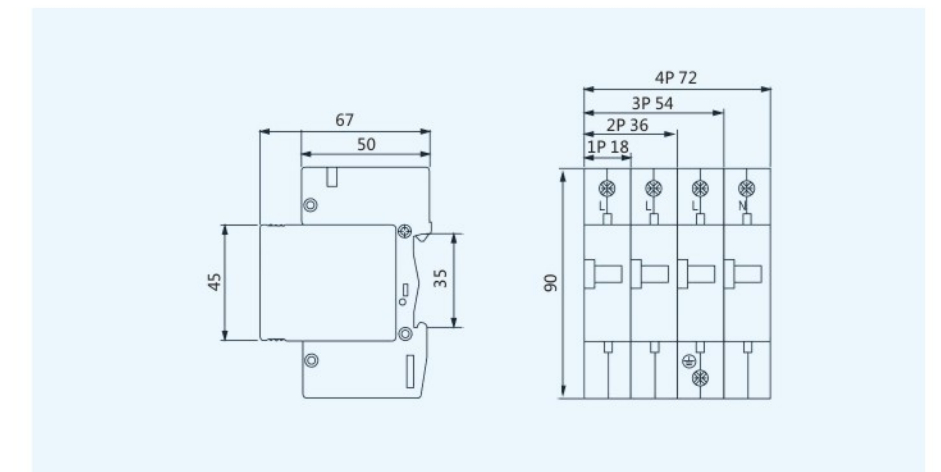
The lightning current SPD protection with protection level: III is applied to the Equipotential bonding when the lightning strike. LYD-20 Device should be installed in the boundary of LPZ1, LPZ2 and LPZn, usually in front of the residential distribution box, computer center, informational equipment, electronic equipment and controlling equipment or in the nearest socket box.



#### Specifications

Parameters	Product Model			
	LYD-20			
Rated Operating Voltage $U_c(V\sim)$	220V	380V	220V	380V
Maximum Continuous Operating Voltage $U_c(V\sim)$	275V	385V	275V	385V
Voltage Protection Level $U_p(V\sim)kV$	$\leq 0.7$	$\leq 1.0$	$\leq 1.2$	$\leq 1.5$
Nominal Discharge Current $I_n(8/20\mu s)kA$	5		10	
Maximum Discharge Current $I_{max}(8/20\mu s)kA$	10		20	
Response Time ns	$< 25$			
Test Standard	IEC61643-1			
L/N( $mm^2$ )The Cross Section of L/N Line	2.5			
PE( $mm^2$ )The Cross Section of PE Line	6			
Fuse or Switch(A)	10A, 16A		16A, 25A	
Operating Environment $^{\circ}C$	$-40^{\circ}C\sim +85^{\circ}C$			
Relative Humidity(25 $^{\circ}C$ )	$\leq 95\%$			
Installation	Standard Rail 35mm			

#### Overall and mounting dimensions(mm)



### LYD-40 Surge Protection Device

#### General

LYD-40 series Surge Protection Device is suitable for TT, IT, TN-S, TN-C and TN-C-S the power supply system with the rated voltage up to 230/400V and AC 50/60Hz. It can work as the equipotential bonding when the lightning strike. Its design corresponds to IEC61643-1, GB18802.1 and GB50057.

The product is mainly applied to protect the low voltage electric equipment and prevent the surge causing by the thunder or switching overvoltage. As a univoltage limiting device, LYD-40 is equipped with the heavy-duty Zinc Oxide piezoresistor.

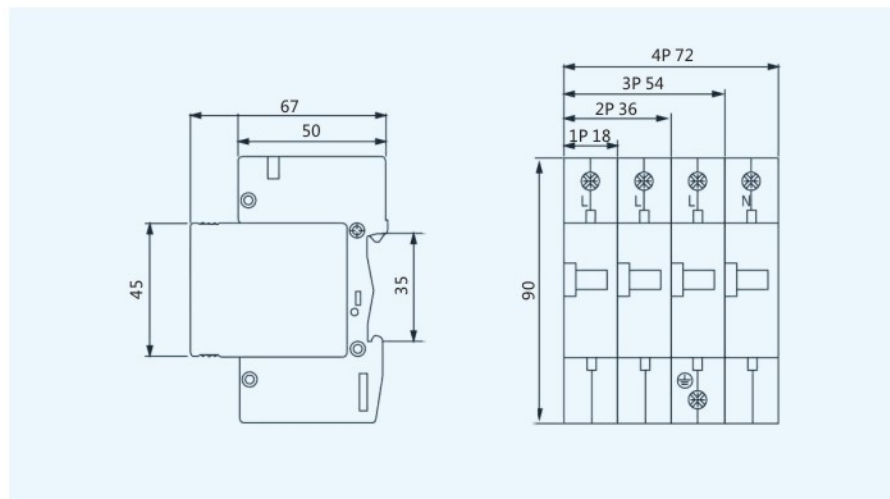
LYD-40 series (Protection level: II) Protection Device need to be installed on the up link of the equipment, connecting with outer conductor(L) or neutral conductor(N) and the earthing device. Users can install the LYD-40 in the boundary of LPZOA or LPZ1, usually in the incoming line low voltage main distribution box.



#### Specifications

Parameters	Product Model		LYD-40							
	110V	220V	380V	220V	380V	275V	320V	385V	420V	440V
Rated Operating Voltage Uc(V~)	110V	220V	380V	220V	380V	275V	320V	385V	420V	440V
Maximum Continuous Operating Voltage Uc(V~)	275V	275V	320V	385V	420V	440V	275V	320V	385V	420V
Voltage Protection Level Up(V~)kV	≤1.8	≤1.2	≤1.5	≤1.8	≤2.0	≤2.2	≤1.0	≤1.4	≤1.5	≤1.8
Nominal Discharge Current In(8/20us)kA	20		15							
Maximum Discharge Current Imax(8/20us)kA	40		30							
Response Time ns	<25									
Test Standard	IEC61643-1									
L/N(mm²)The Cross Section of L/N Line	2.5									
PE(mm²)The Cross Section of PE Line	6									
Fuse or Switch(A)	32A			25A,32A						
Operating Environment°C	-40°C~+85°C									
Relative Humidity(25°C)	≤95%									
Installation	Standard Rail 35mm									

#### Overall and mounting dimensions(mm)



### LYD-60 Surge Protection Device

#### General

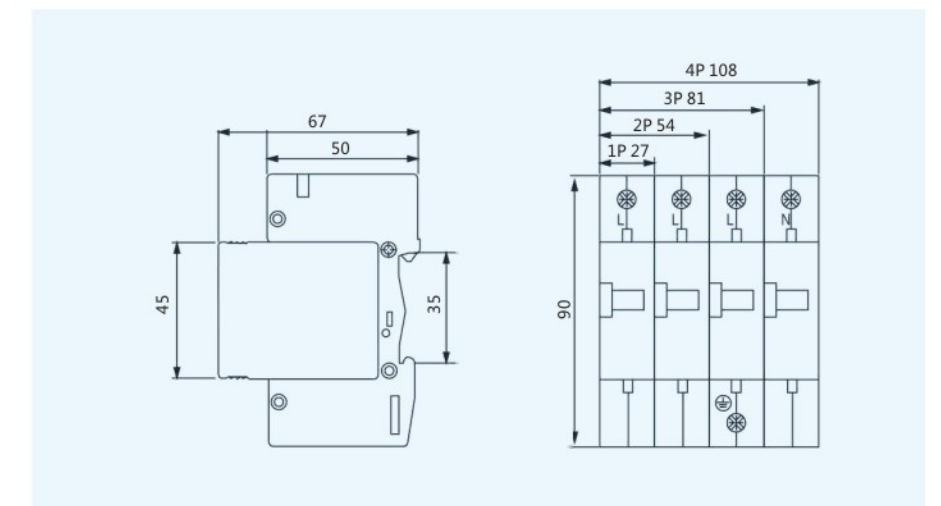
YCS6-B series Surge Protection Device is suitable for TT, IT, TN-S, TN-C and TN-C-S, the power supply system with the rated voltage up to 230/400V and AC 50/60Hz. Its design corresponds to IEC61643-1, GB18802.1 and GB50057. The product is usually installed in the incoming line low voltage distribution box of the building, and it can release 100kA lightning stroke current.



#### Specifications

Parameters	Product Model		LYD-60							
	220V	380V	220V	380V	220V	380V	275V	385V	420V	
Rated Operating Voltage Uc(V~)	220V	380V	220V	380V	220V	380V	275V	385V	420V	
Maximum Continuous Operating Voltage Uc(V~)	275V	385V	420V	275V	385V	420V	275V	385V	420V	
Voltage Protection Level Up(V~)kV	≤1.8	≤2.0	≤2.2	≤2.0	≤2.2	≤2.4	≤2.2	≤2.5	≤2.5	
Nominal Discharge Current In(8/20us)kA	30		40		60					
Maximum Discharge Current Imax(8/20us)kA	60		80		100					
Response Time ns	<25									
L/N(mm²)The Cross Section of L/N Line	6									
PE(mm²)The Cross Section of PE Line	10									
Fuse or Switch(A)	63A									
Operating Environment°C	-40°C~+85°C									
Relative Humidity(25°C)	≤95%									
Installation	Standard Rail 35mm									

#### Overall and mounting dimensions(mm)





### LYD-80 Surge Protection Device

#### General

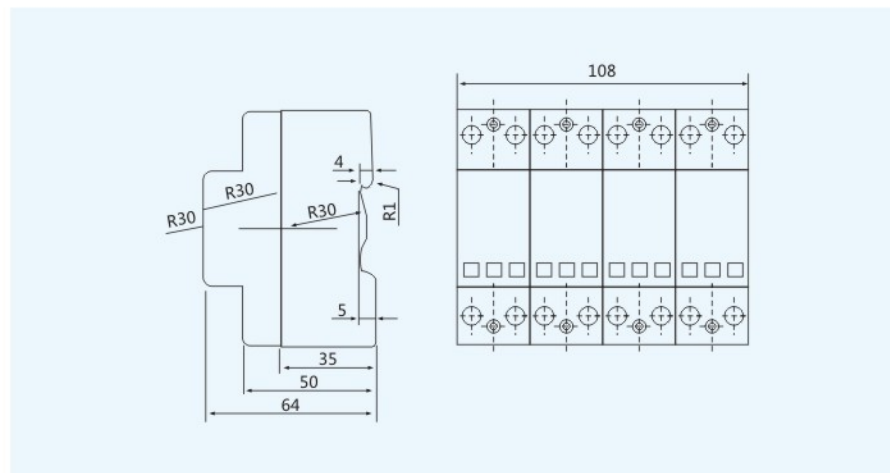
LYD-80 series Surge Protection Device is suitable for TT, IT, TN-S, TN-C and TN-C-S, the power supply system with the rated voltage up to 230/400V and AC 50/60Hz. Its design corresponds to IEC61643-1, GB18802.1 and GB50057. The product is usually installed in the incoming line low voltage distribution box of the building, and it can release 20kA lightning stroke current.

The lightning current SPD protection with protection level: III is applied to the Equipotential bonding when the lightning strike. LYD-80 Device should be installed in the boundary of LPZ1, LPZ2 and LPZn, usually in front of the residential distribution box, computer center, informational equipment, electronic equipment and controlling equipment or in the nearest socket box.

#### Main technical parameters

Model	LYD-80
Rated working voltage	220/380V
Maximum continuous operating voltage	385V
Nominal discharge current	40
Maximum discharge current	80
Voltage protection level	≤2.2
Response time	<25
Minimum cross-sectional area of access wire(mm <sup>2</sup> )	4
Minimum cross-sectional area of access grounding wire(mm <sup>2</sup> )	6
Selection of fuse or circuit breaker	63
Install	35mm Standard guide rail
Shell material UL94-V0	UL94-V0 grade flame retardant plastics

#### Overall and mounting dimensions(mm)



### LYD-100 Surge Protection Device

#### General

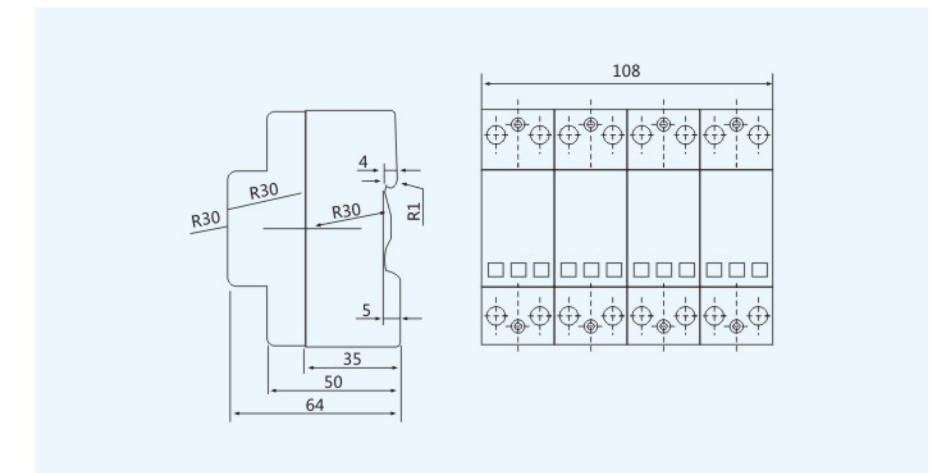
LYD-100 series Surge Protection Device is suitable for TT, IT, TN-S, TN-C and TN-C-S, the power supply system with the rated voltage up to 230/400V and AC 50/60Hz. Its design corresponds to IEC61643-1, GB18802.1 and GB50057. The product is usually installed in the incoming line low voltage distribution box of the building, and it can release 20kA lightning stroke current.

The lightning current SPD protection with protection level: III is applied to the Equipotential bonding when the lightning strike. LYD-100 Device should be installed in the boundary of LPZ1, LPZ2 and LPZn, usually in front of the residential distribution box, computer center, informational equipment, electronic equipment and controlling equipment or in the nearest socket box.

#### Main technical parameters

Model	LYD-100
Rated working voltage	220/380V
Maximum continuous operating voltage	385V
Nominal discharge current	60
Maximum discharge current	100
Voltage protection level	≤2.5
Response time	<25
Minimum cross-sectional area of access wire(mm <sup>2</sup> )	4
Minimum cross-sectional area of access grounding wire(mm <sup>2</sup> )	6
Selection of fuse or circuit breaker	63
Install	35mm Standard guide rail
Shell material UL94-V0	UL94-V0 grade flame retardant plastics

#### Overall and mounting dimensions(mm)





### LYD-120 Surge Protection Device

#### General

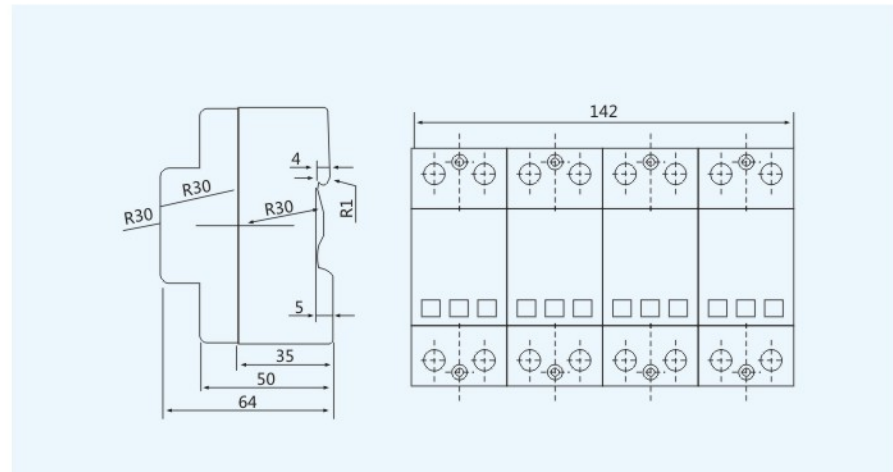
LYD-120 series Surge Protection Device is suitable for TT, IT, TN-S, TN-C and TN-C-S, the power supply system with the rated voltage up to 230/400V and AC 50/60Hz. Its design corresponds to IEC61643-1, GB18802.1 and GB50057. The product is usually installed in the incoming line low voltage distribution box of the building, and it can release 20kA lightning stroke current.

The lightning current SPD protection with protection level: III is applied to the Equipotential bonding when the lightning strike. LYD-120 Device should be installed in the boundary of LPZ1, LPZ2 and LPZn, usually in front of the residential distribution box, computer center, informational equipment, electronic equipment and controlling equipment or in the nearest socket box.

#### Main technical parameters

Model	LYD-120
Rated working voltage	220/380V
Maximum continuous operating voltage	385V
Nominal discharge current	60
Maximum discharge current	150
Voltage protection level	≤2.5
Response time	<25
Minimum cross-sectional area of access wire(mm <sup>2</sup> )	6
Minimum cross-sectional area of access grounding wire(mm <sup>2</sup> )	10
Selection of fuse or circuit breaker	100
Install	Standard guide rail
Shell material UL94-V0	UL94-V0 grade flame retardant plastics

#### Overall and mounting dimensions(mm)



### LYD-150 Surge Protection Device

#### General

LYD-150 series Surge Protection Device is suitable for TT, IT, TN-S, TN-C and TN-C-S, the power supply system with the rated voltage up to 230/400V and AC 50/60Hz. Its design corresponds to IEC61643-1, GB18802.1 and GB50057. The product is usually installed in the incoming line low voltage distribution box of the building, and it can release 20kA lightning stroke current.

The lightning current SPD protection with protection level: III is applied to the Equipotential bonding when the lightning strike. LYD-150 Device should be installed in the boundary of LPZ1, LPZ2 and LPZn, usually in front of the residential distribution box, computer center, informational equipment, electronic equipment and controlling equipment or in the nearest socket box.

#### Main technical parameters

Model	LYD-150
Rated working voltage	220/380V
Maximum continuous operating voltage	385V
Nominal discharge current	80
Maximum discharge current	150
Voltage protection level	≤3.2
Response time	<25
Minimum cross-sectional area of access wire(mm <sup>2</sup> )	6
Minimum cross-sectional area of access grounding wire(mm <sup>2</sup> )	10
Selection of fuse or circuit breaker	100
Install	Standard guide rail
Shell material UL94-V0	UL94-V0 grade flame retardant plastics

#### Overall and mounting dimensions(mm)

