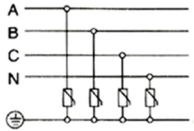
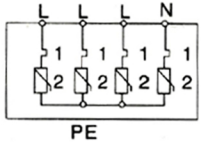


table1 380V network diagram



1 thermal disconnector

table2

2 Voltage Dependent Resistor

4、install

4.1 protector with standard 35mm track mounting;

4.2 The protector is connected with copper wires ranging from 4 to 35mm, and there are two methods of wiring:

a)Wire from the power supply switch to the protector, and then from the protector to the load side. This method is used for distribution boxes with a load current of less than 100A. The cross-sectional area of the wire used should be selected according to the load current (see Figure 3).

b)Wire from the power supply switch to the protector, and also wire from the power supply switch directly to the load end. This method is used for distribution boxes with a load current of more than 100A. The wire connected to the protector is not affected by the load current, but the length should not be too long, and the total length of the wire connected to the protector and the grounding wire should not exceed 500mm (see Figure 4).

The protector connected to phase L should be connected in series with a circuit breaker or fuse: the circuit breaker or fuse should be selected and installed based on the In rating of the surge protection device.

4.5 wiring method

Product Dimensions and Wiring Schematic Diagram(4P module)

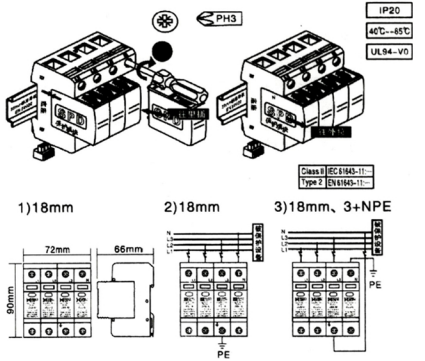
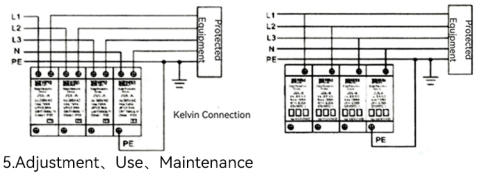


table 2 HYLI series(10/350us)parameter

Model	ZDL-A/15	ZDL-A/25	ZDL-A/12.5	ZDL-A/50
rated voltage	220V~380V(50Hz-60Hz)			
maximum continuous operating power	275\320\385\420\440V			
insulation resistance	>100Mohm			
Impulse current (10/350)) imp	15KA	25KA	12.5KA	50KA
Nominal discharge current(8/20)us	15KA	25KA	12.5KA	50KA
Voltage Protection Level	≤2.0KV/≤2.5KV			
response time	≤100ns			
operating temperature	-40℃~+80℃			
enclosure material	insulating shell material PBT/PA66			
protection level	IP20			
with front-mounted fuse	125A			
installation type	35mm DIN rail			

3、main structure and working principle

In a three-phase four-wire system, three phase lines and one neutral line are each connected to a grounding line with a protector (see Figure 1). Under normal conditions, the protector is in a high-resistance state. When the power grid experiences surge overvoltages due to lightning strikes or other reasons, the protector will immediately switch to a low-resistance state within nanoseconds, diverting the surge voltage to the ground, thereby protecting the electrical equipment on the grid. Once the surge voltage passes through the protector and disappears, the protector reverts to a high-resistance state, thus not affecting the normal operation of the power grid. The electrical schematic of the surge protector is shown in Figure 2.



5.Adjustment、Use、Maintenance

5.1 The protector does not require adjustment after being installed as required;

5.2 The protector will automatically protect the power grid as long as it is installed correctly;

5.3 During operation, regularly check whether the module label turns red, and observe whether the fuse's indicator red light is on, replacing any failed components in a timely manner;

When placing an order, please specify the model and the quantity of units.

Example: HYLI-60/40/385/4P 100unit

Before installing and using the product, please read the instruction manual carefully.

2.2 Surge Protective Devices Technical Characteristics

table 1 HYLI series (8/20)

Model Specification	Rated Operating Voltage (Un)	maximum continuous operating voltageUc(V)	protection level Up(kV)	Maximum Discharge Current Imax(kA)	nominal discharge current In(kA)	response time(ns)	work environment (℃)
ZDL-D/20	220/380V (50/60Hz)	275/320 385/420 440V	1.6	20	10	≤25	-40℃ ~ +85℃
ZDL-C/40			1.8	40	20		
ZDL-B/60			2.0	60	30		
ZDL-B/80			2.2	80	40		
ZDL-B/100			2.5	100	60		
ZDL-B/120			2.8	120	80		
ZDL-B/150			3.0	150	100		

2.3 Fail-safe device

The protector's module is equipped with a fail-safe device that automatically disconnects it from the power grid when the protector fails due to overheating or breakdown, while also providing an indicator signal. The label on the module displays green when the protector is functioning normally and turns red after the fail-safe disconnection.

2.4 Remote contact point

The protector can be manufactured with a remote signal contact, which is a normally open contact. If one or more modules of the protector fail, the contact will close, sending out a fault signal. The rating of the remote signal contact is AC36V、1A

Certificate of Conformity

Product name:	Surge Protective Device
Model :	HYLI
inspection :	检03
Manufacture Date :	

This product has passed inspection and is approved for release.

1、Purpose and Scope of Application

The HYLI surge protective decive (hereinafter referred to as the protector) is suitable for AC 50/60Hz, 380V and below TT, IT, TN-S, TN-C, TN-C-S and other power supply systems, providing protection against overvoltage caused by lightning strikes or surges.

1.1 The normal operating conditions of the protector" is the English translation for

1.2 The altitude does not exceed 2000 meters;

1.3 Ambient air temperature: Normal range: -5℃ to 40℃; Extended range: -40℃ to +85℃.

1.4 Relative humidity: 30% to 90% at indoor temperature conditions.

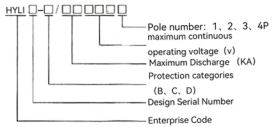
1.5 The tilt angle with respect to the vertical plane does not exceed 5°

1.6 Places without significant swaying and impact vibration.

1.7 In an environment free of explosive media, and without gases and dust (including conductive dust) that are corrosive to metal and damaging to insulation.

2、Model、Specification、Technical Parameters

2.1 Model and its specifications



HYLI Series

Surge Protective Device

Instruction Manual