



**China·Lei Kexing**

Release the power of science and technology,  
the future is beyond imagination

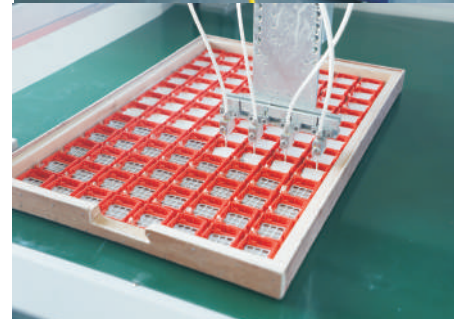
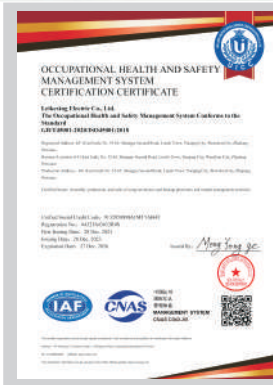
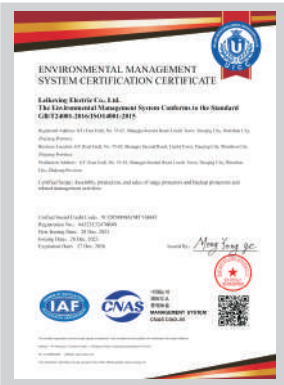


China · Lei Kexing Electric Co. Ltd  
Http://www.leikexing.com  
Service hotline: 400-999-8845

This information is for reference only, because the technology to improve  
product upgrade, please prevail in kind.  
The company has the final right to interpret

**China·Lei Kexing Electric Co. Ltd**

# CERTIFICATES



◆ GS-T1T2-AC/H PRODUCT-DETAILS

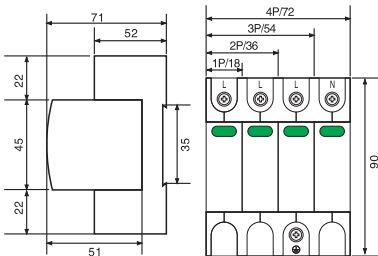
- 1. Meets both Class I (10/350μs waveform) and Class II (8/20μs waveform) SPD tests
- 2. Based on zinc oxide technology
- 3. Using 34S–H high–performance MOV,the maximum will be up to 10/350μs 8ka
- 4. No power frequency continuous flow
- 5. The operating environment temperature is –40℃~+80℃
- 6. Remote signaling function is optional.
- 7. When product fails,the green window turns to red and remote signaling provides remote alarm function



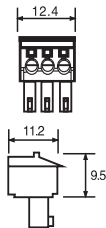
| Technical Data                               |         |                            |        |        |        |        |
|--|---------|----------------------------|--------|--------|--------|--------|
| SPD Type                                     |         | Type 1+2/Class I+II        |        |        |        |        |
| Technology                                   |         | Mov(Metal oxide varistors) |        |        |        | GDT    |
| Protection mode(s)                           |         | L-PE/N-PE                  |        |        |        | NPE    |
| Nominal voltage (a.c.)                       | [Un]    | 220V                       | 300V   | 380V   | 400V   | 255V   |
| Max.continuous operating voltage(a.c.)       | [Uc]    | 275V                       | 320V   | 385V   | 420V   | 255V   |
| Nominal discharge current(8/20µs)            | [In]    | 30kA                       |        | 30kA   |        | 30kA   |
| Max.discharge current (8/20µs)               | [Imax]  | 60kA                       |        | 60kA   |        | 60kA   |
| Lightning impulse current(10/350µs)          | [Iimp]  | 12.5kA                     |        | 9kA    |        | 12.5kA |
| Protection level                             | [Up]    | ≤1.8kV                     | ≤2.0kV | ≤2.2kV | ≤2.4kV | ≤1.5kV |
| Response time                                | [tA]    | ≤25ns                      |        |        |        |        |
| Temporary overvoltage(TOV) withstand - 5 sec | [UIt]   | 335V                       | 440V   | 440V   | 620V   | 335V   |
| Admissible short-circuit current             | [Iscrc] | 25kA                       |        |        |        |        |
| Max.backup fuse                              |         | 200A gL/Gg                 |        |        |        |        |

| Mechanical Data                           |                              |
|---|------------------------------|
| Current                                   | AC System                    |
| SPD configuration                         | Single/Three phase           |
| Plugable                                  | Available                    |
| Mounting                                  | 35mm DIN rail                |
| Material                                  | Thermoplastic,UL 94 V-O      |
| Operating temperature                     | –40℃... +80℃                 |
| Protection rating                         | IP20                         |
| Operating state /fault indication         | Green/Red                    |
| Remote Signaling                          | Optional                     |
| Wiring for remote signaling               | Max 1.5mm solid/flexible     |
| Max. Voltage/Current for remote signaling | 250V/0.1A;125V/0.2A;75V/0.5A |
| Standards compliance                      | IEC 61643-11/EN 61643-11     |
| Certificate                               | CE,TUV,RoHS,CB               |

Size



Remote Signaling



|                      |                                      |                    |
|----------------------|--------------------------------------|--------------------|
| WR...+FS             | 05–1.5mm <sup>2</sup><br>AWG 28–16Cu | 0.2Nm<br>1.7lbs–in |
| Working Vokage       | 30V DC                               |                    |
| Working Current      | 50mA                                 |                    |
| Contactr Resistance  | ≤100mΩ                               |                    |
| Innlation Resistance | ≥100mΩ                               |                    |
| Press Force          | 30 ± 15gf                            |                    |
| Life                 | ≥1000000                             |                    |

◆ GS-T1T2-AC/N PRODUCT-DETAILS

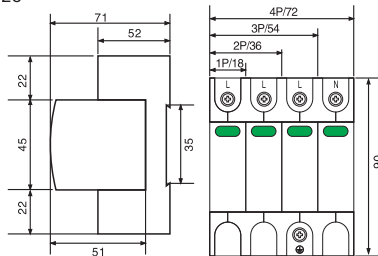
- 1. Meets both Class I (10/350 μ s waveform) and Class II (8/20 μ s waveform) SPD tests
- 2. Based on zinc oxide technology
- 3. Using 34S–H high–performance MOV,the maximum will be up to 10/350 μ s 8ka
- 4. No power frequency continuous flow
- 5. The operating environment temperature is –40℃~+80℃
- 6. Remote signaling function is optional.
- 7. When product fails,the green window turns to red and remote signaling provides remote alarm function



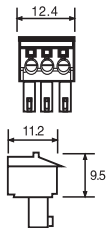
| Technical Data                               |         |                            |         |         |         |         |
|--|---------|----------------------------|---------|---------|---------|---------|
| SPD Type                                     |         | Type 1+2/Class I+II        |         |         |         |         |
| Technology                                   |         | Mov(Metal oxide varistors) |         |         |         | GDT     |
| Protection mode(s)                           |         | L–PE/N–PE                  |         |         |         | NPE     |
| Nominal voltage (a.c.)                       | [Un]    | 220V                       | 300V    | 380V    | 400V    | 255V    |
| Max.continuous operating voltage(a.c.)       | [Uc]    | 275V                       | 320V    | 385V    | 420V    | 255V    |
| Nominal discharge curpnt(8/20μs)             | [In]    | 20kA                       |         | 20kA    |         | 20kA    |
| Max.discharge current (8/20μs)               | [Imax]  | 50kA                       |         | 50kA    |         | 50kA    |
| Lightning impulse current(10/350μs)          | [Iimp]  | 7kA                        |         | 6.25kA  |         | 7kA     |
| Protection level                             | [Up]    | ≤ 1.5kV                    | ≤ 1.6kV | ≤ 1.8kV | ≤ 2.0kV | ≤ 1.5kV |
| Response time                                | [tA]    | ≤ 25ns                     |         |         |         |         |
| Temporary overvoltage(TOV) withstand - 5 sec | [UIt]   | 335V                       | 440V    | 440V    | 620V    | 335V    |
| Admissible short-circuit current             | [Iscrc] | 25kA                       |         |         |         |         |
| Max.backup fuse                              |         | 125A gL/Gg                 |         |         |         |         |

| Mechanical Data                           |                              |
|---|------------------------------|
| Current                                   | AC System                    |
| SPD configuration                         | Single/Three phase           |
| Plugable                                  | Available                    |
| Mounting                                  | 35mm DIN rail                |
| Material                                  | Thermoplastic,UL 94 V-O      |
| Operating temperature                     | –40℃... +80℃                 |
| Protection rating                         | IP20                         |
| Operating state /fault indication         | Green/Red                    |
| Remote Signaling                          | Optional                     |
| Wiring for remote signaling               | Max 1.5mm solid/flexible     |
| Max. Voltage/Current for remote signaling | 250V/0.1A;125V/0.2A;75V/0.5A |
| Standards compliance                      | IEC 61643-11/EN 61643-11     |
| Certificate                               | CE,TUV,RoHS,CB               |

Size



Remote Signaling



|                      |                                      |                    |
|----------------------|--------------------------------------|--------------------|
| WR...+FS             | 05–1.5mm <sup>2</sup><br>AWG 28–16Cu | 0.2Nm<br>1.7lbs–in |
| Working Vokage       | 30V DC                               |                    |
| Working Current      | 50mA                                 |                    |
| Contactr Resistance  | ≤100mΩ                               |                    |
| Innlation Resistance | ≥100mΩ                               |                    |
| Press Force          | 30 ± 15gf                            |                    |
| Life                 | ≥1000000                             |                    |

◆ GS-T2-AC PRODUCT-DETAILS

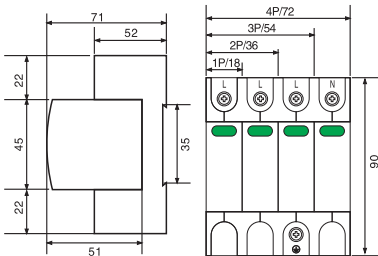
- 1. Meets Class II (8/20 μ s waveform) SPD tests
- 2. Based on zinc oxide technology
- 3. Using 34S MOV,the maximum will be up to 8/20 μ s 40ka
- 4. No power frequency continuous flow
- 5. Compact,yet high surge rated pluggable design,using minimum DIN rail width
- 6. The operating environment temperature is -40℃~+80℃
- 7. Red/Green status indication and change-over contacts standard for remote monitoring.(RS485 is Option)



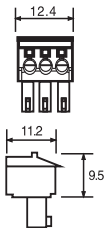
| Technical Data                               |         |                            |        |        |        |        |
|--|---------|----------------------------|--------|--------|--------|--------|
| Pole   |         | 2P/2+0                     |        |        |        |        |
| Technology                                   |         | Mov(Metal oxide varistors) |        |        |        | GDT    |
| Protection mode(s)                           |         | L-PE/N-PE                  |        |        |        | NPE    |
| Nominal voltage (a.c.)                       | [Un]    | 220V                       | 300V   | 380V   | 400V   | 255V   |
| Max.continuous operating voltage(a.c.)       | [Uc]    | 275V                       | 320V   | 385V   | 420V   | 255V   |
| Nominal discharge current(8/20µs)            | [In]    | 15kA                       |        |        |        | 20kA   |
| Max.discharge current (8/20µs)               | [Imax]  | 40kA                       |        |        |        | 40kA   |
| Protection level                             | [Up]    | ≤1.5kV                     | ≤1.6kV | ≤1.8kV | ≤2.0kV | ≤1.5kV |
| Response time                                | [tA]    | ≤25ns                      |        |        |        |        |
| Temporary overvoltage(TOV) withstand - 5 sec | [Ut]    | 335V                       | 440V   | 440V   | 620V   | 335V   |
| Admissible short-circuit current             | [Iscrr] | 25kA                       |        |        |        |        |
| Max.backup fuse                              |         | 63A gL/Gg                  |        |        |        |        |

| Mechanical Data                           |                              |
|---|------------------------------|
| Current                                   | AC System                    |
| SPD configuration                         | Single/Three phase           |
| Plugable                                  | Available                    |
| Mounting                                  | 35mm DIN rail                |
| Material                                  | Thermoplastic,UL 94 V-O      |
| Operating temperature                     | -40℃... +80℃                 |
| Protection rating                         | IP20                         |
| Operating state /fault indication         | Green/Red                    |
| Remote Signaling                          | Optional                     |
| Wiring for remote signaling               | Max 1.5mm solid/flexible     |
| Max. Voltage/Current for remote signaling | 250V/0.1A;125V/0.2A;75V/0.5A |
| Standards compliance                      | IEC 61643-11/EN 61643-11     |
| Certificate                               | CE,TUV,RoHS,CB               |

Size



Remote Signaling



|                      |                       |           |
|----------------------|-----------------------|-----------|
| WR...+FS             | 05~1.5mm <sup>2</sup> | 0.2Nm     |
|                      | AWG 28~16Cu           | 1.7lbs-in |
| Working Vokage       | 30V DC                |           |
| Working Current      | 50mA                  |           |
| Contactr Resistance  | ≤100mΩ                |           |
| Innlation Resistance | ≥100mΩ                |           |
| Press Force          | 30 ± 15gf             |           |
| Life                 | ≥1000000              |           |

◆ GS-T1T2-DC PRODUCT-DETAILS

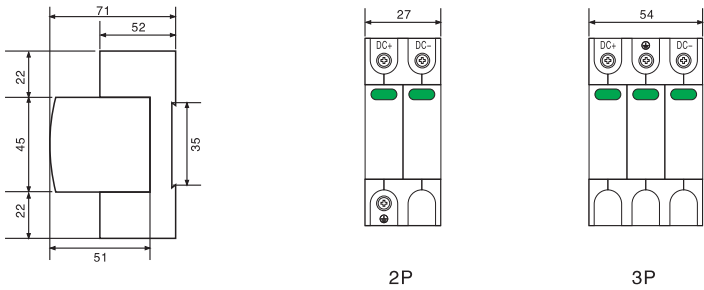
- 1. Meets both Class I (10/350 μ s waveform) and Class II(8/20 μ s waveform) SPD tests
- 2. Based on zinc oxide technology
- 3. Using 34S-H high-performance MOV, the maximum will be up to 10/350us 9kA
- 4. No power frequency continuous flow
- 5. The operating environment temperature is -40℃~+80℃
- 6. Remote signaling function is optional.
- 7. When product falls, the green window turns to red and remote signaling provides remote alarm function



| Technical Data                            |          |                            |        |        |        |
|---|----------|----------------------------|--------|--------|--------|
| SPD Type                                  |          | Type 1+2/Class+II          |        |        |        |
| Technology                                |          | Mov(Metal oxide varistors) |        |        |        |
| Protection mode(s)                        |          | DC+PE.DC~/PE               |        |        |        |
| Nominal voltage (D.c.)                    | [Ucpv]   | 600V                       | 800V   | 1000V  | 1200V  |
| Nominal discharge current(8/20µs)         | [In]     | 20kA                       |        |        |        |
| Max.discharge current (8/20µs)            | [Imax]   | 50kA                       |        |        |        |
| Lightning impulse current (10/350µs)      | [Iimp]   | 6.25kA                     |        |        |        |
| Total discharae current for multipole SPD | [Itotal] | 12.5kA                     |        |        |        |
| Protection level                          | [Up]     | ≤3.2kV                     | ≤3.6kV | ≤4.0kV | ≤4.5kV |
| Response time                             | [tA]     | ≤25ns                      |        |        |        |
| Short-circuit current rating              | [Iscpv]  | 10kA                       |        |        |        |
| Max. backup fuse                          |          | 125A gL/Gg                 |        |        |        |

| Mechanical Data                           |                                |
|---|--------------------------------|
| Technology                                | MOV(Metal Oxide Varistors)+GDT |
| SPD configuration                         | DC system                      |
| Plugable                                  | Available                      |
| Mounting                                  | 35mm DIN rail                  |
| Housing material                          | Thermoplastic,UL 94 V-O        |
| Operating temperature                     | -40℃... +80℃                   |
| Protection rating                         | IP20                           |
| Operating state /fault indication         | Green/Red                      |
| Remote Signaling                          | Optional                       |
| Wiring for remote signaling               | Max 1.5mm solid/flexible       |
| Max. Voltage/Current for remote signaling | 250V/0.1A;125V/0.2A;75V/0.5A   |
| Test Standards                            | IEC 61643-31/EN 61643-31       |
| Certification                             | CE,CB,RoHS,TUV                 |

Size



◆ GS-T2-DC PRODUCT-DETAILS

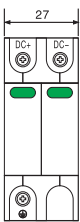
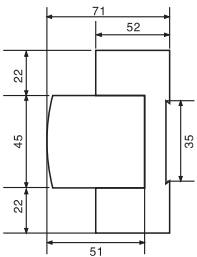
- 1. Meets Class II (8/20s waveform) SPD tests
- 2. Based on zinc oxide technology
- 3. Using 34s MOV, the maximum will be up to 8/20 μ s 40kA
- 4. No power frequency continuous flow
- 5. The operating environment temperature is -40° C~+70° C
- 6. Remote signaling function is optional.
- 7. When product falls, the green window turns to red and remote signaling provides remote alarm function



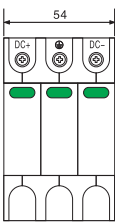
| Technical Data                                 |                |        |        |        |
|--|----------------|--------|--------|--------|
| POLE   | 2P             |        |        |        |
| SPD Type                                       | Type 2/ClassII |        |        |        |
| Technology                                     | MOV/MOV+GDT    |        |        |        |
| Protection mode(s)                             | DC+PE,DC~      |        |        |        |
| Max.continuous operating voltage (D.c.) [Ucpv] | 600V           | 800V   | 1000V  | 1200V  |
| Nominal discharge current(8/20μs) [In]         | 15kA           |        |        |        |
| Max.discharge current (8/20μs) [Imax]          | 40kA           |        |        |        |
| Protection level [Up]                          | ≤3.2kV         | ≤3.6kV | ≤4.0kV | ≤4.5kV |
| Response time [tA]                             | ≤25ns          |        |        |        |
| Short-circuit current rating [Iscpv]           | 10kA           |        |        |        |
| Max. backup fuse                               | 125A gL/Gg     |        |        |        |

| Mechanical Data                           |                              |
|---|------------------------------|
| SPD configuration                         | DC system                    |
| Plugable                                  | Available                    |
| Mounting                                  | 35mm DIN rail                |
| Housing material                          | Thermoplastic,UL 94 V-O      |
| Operating temperature                     | -40℃... +80℃                 |
| Protection rating                         | IP20                         |
| Operating state /fault indication         | Green/Red                    |
| Remote Signaling                          | Optional                     |
| Wiring for remote signaling               | Max 1.5mm solid/flexible     |
| Max. Voltage/Current for remote signaling | 250V/0.1A;125V/0.2A;75V/0.5A |
| Standards compliance                      | IEC 61643-31/EN 61643-31     |
| Certification                             | CE,CB,RoHS,TUV               |

Size



2P



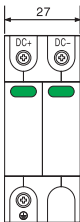
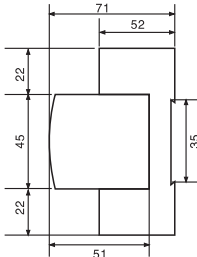
3P



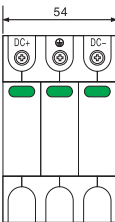
| Technical Data                                 |                                |        |        |        |
|--|--------------------------------|--------|--------|--------|
| POLE   | 3P                             |        |        |        |
| SPD Type                                       | Type 2/ClassII                 |        |        |        |
| Technology                                     | MOV(Metal Oxide Varistors)+GDT |        |        |        |
| Protection mode(s)                             | MOV/MOV+GDT                    |        |        |        |
| Max.continuous operating voltage (D.c.) [Ucpv] | 800V                           | 1000V  | 1200V  | 1500V  |
| Nominal discharge current(8/20μs) [In]         | 20kA                           |        |        |        |
| Max.discharge current (8/20μs) [Imax]          | 40kA                           |        |        |        |
| Protection level [Up]                          | ≤3.6kV                         | ≤4.0kV | ≤4.5kV | ≤5.2kV |
| Response time [tA]                             | ≤25ns                          |        |        |        |
| Short-circuit current rating [Iscpv]           | 10kA                           |        |        |        |
| Max. backup fuse                               | 125A gL/Gg                     |        |        |        |

| Mechanical Data                           |                              |
|---|------------------------------|
| SPD configuration                         | DC system                    |
| Plugable                                  | Available                    |
| Mounting                                  | 35mm DIN rail                |
| Housing material                          | Thermoplastic,UL 94 V-O      |
| Operating temperature                     | -40℃... +80℃                 |
| Protection rating                         | IP20                         |
| Operating state /fault indication         | Green/Red                    |
| Remote Signaling                          | Optional                     |
| Wiring for remote signaling               | Max 1.5mm solid/flexible     |
| Max. Voltage/Current for remote signaling | 250V/0.1A;125V/0.2A;75V/0.5A |
| Standards compliance                      | IEC 61643-31/EN 61643-31     |
| Certification                             | CE,CB,RoHS,TUV               |

Size



2P



3P

DC surge protector features:

- 1、Improve system stability: photovoltaic surge protector can quickly consume surge voltage or current to avoid system collapse, thus enhancing system stability.
- 2、Extend the life of the system: by reducing the impact of environmental factors on the system, the photovoltaic surge protector helps to improve the durability of the system and extend the service life.
- 3、Improve System Security: protect the system from surge voltage and current damage, reduce maintenance costs and risks, improve overall security.
- 4、Self-protection and fault indication function: when the protection device is old or damaged, it can disconnect from the circuit in time, and notify the user to replace it by visual or remote signal, so as to improve the reliability and security of the system.



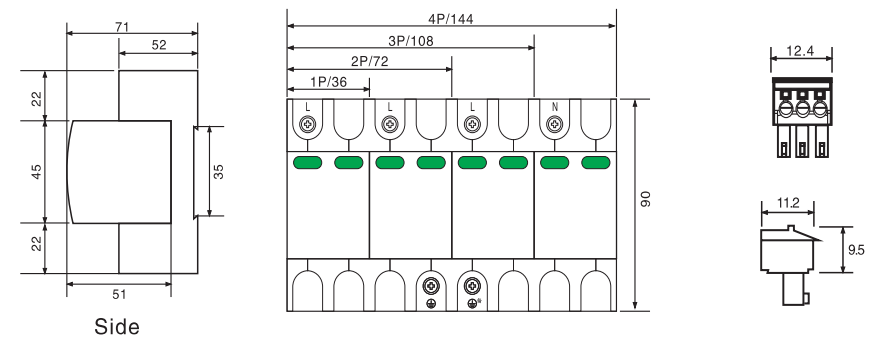
## SPD wind/energy storage high voltage surge protector



PROFESSIONAL SURGE  
MANUFACTURERS

| IEC, GB/T standards                          | 690V   | 750V   | 850V  | 1140V  | 1200V | 1500V |
|--|--|--------|-------|--------|-------|-------|
| Uo/Un(50/60Hz)                               | 690V   | 750V   | 850V  | 1140V  | 1200V | 1500V |
| Uc(AC)                                       | 720V   | 850V   | 1050V | 1220V  | 1350V | 1600V |
| In(8/20 μ S)                                 | 20kA   | 20kA   | 40kA  | 60kA   | 60kA  | 80kA  |
| I <sub>max</sub> (8/20 μ S)                  | 40kA   | 40kA   | 80kA  | 100kA  | 100kA | 120kA |
| I <sub>imp</sub> (10/350 μ S)                | 6.25kA   | 6.25kA | 7.5kA | 12.5kA | 15kA  | 15kA  |
| Up   | 2500V  | 3500V  | 4500V | 5000V  | 5500V | 6500V |
| Response time                                | <25s   |        |       |        |       |       |
| Maximum backup fuse(max)                     | 125A/ gL/gG  |        |       |        |       |       |
| ISCCR(AC)                                    | 25kA/50kA  |        |       |        |       |       |
| Mechanical and environmental characteristics |  |        |       |        |       |       |
| Operating temperature range                  | -40° F to+158° F(-40℃ to+70℃)  |        |       |        |       |       |
| Allowed working humidity                     | 5%...95%   |        |       |        |       |       |
| Atmospheric pressure and altitude            | 80k Pa... 106k Pa/-500m...2000m  |        |       |        |       |       |
| Terminal screw torque                        | 39.9 lbf.in [ 4.5Nm ]  |        |       |        |       |       |
| Maximum Traverse section area(max)           | 2AWG ( Multi-ply thread ) /4AWG ( Flexible Cord )<br>35mm <sup>2</sup> ( Multi-ply thread ) /25mm <sup>2</sup> ( Flexible Cord ) |        |       |        |       |       |
| Installation                                 | 35mmDIN guideway, according to En60715   |        |       |        |       |       |
| Protection level                             | IP20   |        |       |        |       |       |
| Shell material                               | Fire Thermoplastic UL94V-0   |        |       |        |       |       |
| Thermal protection                           | Yes  |        |       |        |       |       |
| Working status/failure indication            | Green/red  |        |       |        |       |       |
| Remote contact(RC)                           | Optional   |        |       |        |       |       |
| AC and DC switching capability               | AC:250V/0.5A;DC:250V/0.1A;125V/0.2A;75V/0.5A   |        |       |        |       |       |
| Color of appearance                          | Module White/base royal blue   |        |       |        |       |       |

### ◆ Shape and dimension drawing



## ◆ Product scope of application

SPD special external disconnector is connected in series on the SPD circuit, using the internal current sorting channel device to realize the power frequency small current quick cut off; To achieve low current SPD fire protection, lightning SPD continuous protection role; SCB products are limited to use in SPD circuit over-current protection, or backup current protection do not use other occasions.

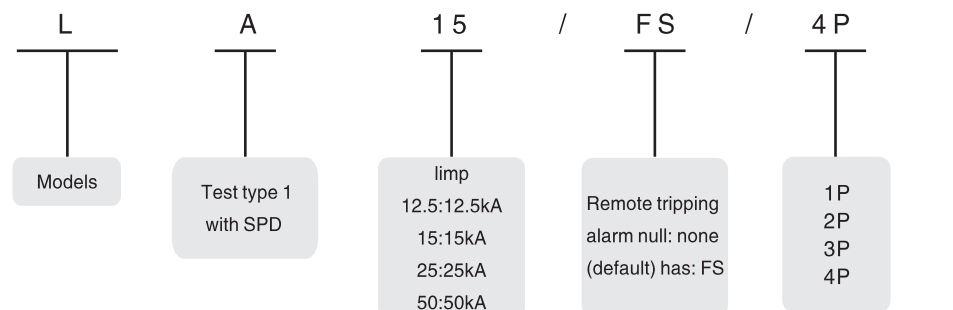
According to the standards of GB18802.1, GB50057 and Q/thqb001 –2003, the front end of SPD circuit must be connected in series with the over-current protector required by the factory. Because the current fuses and miniature circuit breakers can not coordinate with SPD, when the power supply is abnormal or SPD deteriorates and fails, the fire and equipment are damaged by lightning. Has seriously affected the normal operation of production!

At present, a large number of miniature circuit breakers used with SPD can not be matched with the following four points:

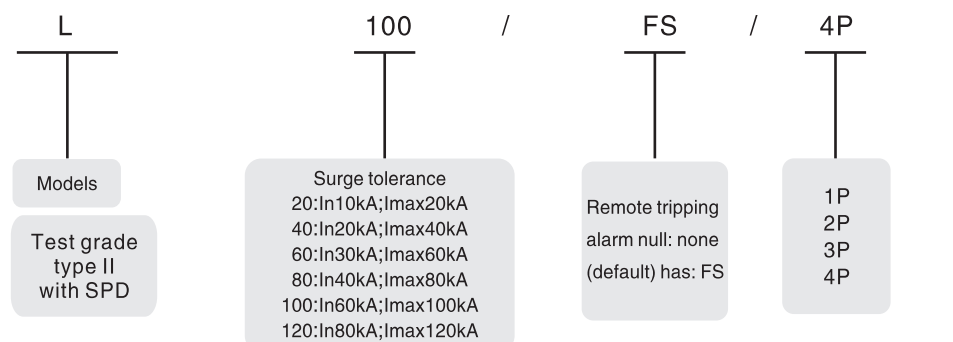
- 1、Lightning current impact is very easy to damage —— lightning arrester failure;
- 2、The residual voltage of lightning impulse current is high —— the reliability of equipment lightning protection is reduced;
- 3、Power frequency continuous current not tripping——power abnormal SPD fire;
- 4、Accidental tripping of lightning impulse —— failure of lightning protection.

## ◆ Product selection

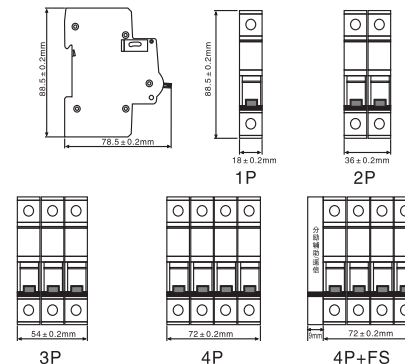
### T1Class10/350 μ S



### T2Class8/20 μ S

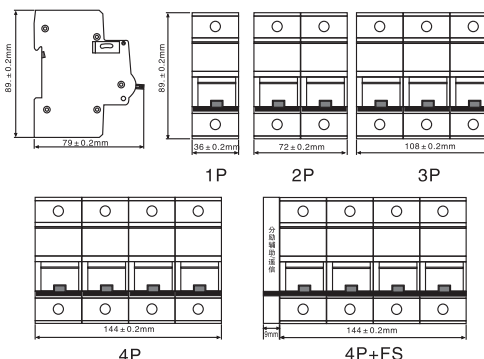


## ◆ T2 series main technical parameters



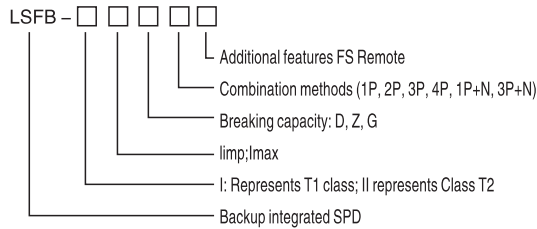
| Model                        | T2(1P/2P/3P/4P)   | With SPD test type is accurate | Class II                         |
|------------------------------|-------------------|--------------------------------|----------------------------------|
| Meet the criteria            | NB/T 42150–2021   | Fit SPD model                  | LKX–C40(1P/2P/3P/4P)             |
| Rated working voltage        | 230V/400V/690V AC | Remote indication function     | IOF attachments can be installed |
| Operating frequency          | 50/60Hz           | Rated torque                   | 3.5N · m                         |
| Limp(10/350 μ S)             | /                 | Wiring capacity                | 2.5~25mm <sup>2</sup>            |
| Imax(8/20 μ S)               | 40kA              | Entry mode                     | 2.5~35mm <sup>2</sup>            |
| In(8/20 μ S)                 | 20kA              | Operating temperature          | In and out or in and out         |
| Rated short circuit capacity | 25kA              | Electrical life                | 10000times                       |
| Minimum delay action current | 3A                |                                |                                  |
| Protection level             | IP20              |                                |                                  |

## ◆ T1 series main technical parameters



| Model                        | T1(1P/2P/3P/4P)   | With SPD test type is accurate | Class II                         |
|------------------------------|-------------------|--------------------------------|----------------------------------|
| Meet the criteria            | NB/T 42150–2021   | Fit SPD model                  | LKX–A15(1P/2P/3P/4P)             |
| Rated working voltage        | 230V/400V/690V AC | Remote indication function     | IOF attachments can be installed |
| Operating frequency          | 50/60Hz           | Rated torque                   | 3.5N · m                         |
| Limp(10/350 μ S)             | 15kA              | Wiring capacity                | 2.5~25mm <sup>2</sup>            |
| Imax(8/20 μ S)               | 50kA              | Entry mode                     | 2.5~35mm <sup>2</sup>            |
| In(8/20 μ S)                 | 15kA              | Operating temperature          | In and out or in and out         |
| Rated short circuit capacity | 100kA             | Electrical life                | 10000times                       |
| Minimum delay action current | 3A                |                                |                                  |
| Protection level             | IP20              |                                |                                  |

## ◆ Product selection



## ◆ Performance characteristics

1. Large flow capacity, low residual voltage, and fast response time;
2. Low leakage current and rate of change;
3. Adopting the latest thermal separation technology to completely avoid fires;
4. Adopting special impact melting plates, with high reliability;
5. Equipped with work fault indication and remote signaling alarm function;
6. Adopting temperature control protection circuit, built-in thermal protection, and automatic disconnection device for short circuit faults;
7. Adopting standard modular design, easy installation and easy maintenance;
8. The core components adopt internationally renowned brands, with excellent performance and stable and reliable operation;
9. Rigorous structure, easy installation, and simple maintenance;
10. Crafted with exquisite craftsmanship, it can work for a long time in harsh environments such as acid, alkali, dust, salt spray, and humidity.

## ◆ Technical parameters

| Model                                       |       | LSFB-II-20               | LSFB-II-40 | LSFB-II-60 | LSFB-II-80 | LSFB-I-12.5 | LSFB-I-15 |
|---|-------|--------------------------|------------|------------|------------|-------------|-----------|
| category                                    |       | T2 class                 |            |            |            | T1 class    |           |
| Uc(V)                                       |       | 275V/385V//420V          |            |            |            |             |           |
| In(8/20 μ S)(kA)                            |       | 10                       | 20         | 30         | 40         | 30          | 40        |
| Imax(8/20 μ S)(kA)                          |       | 20                       | 40         | 60         | 80         | 60          | 80        |
| Iimp(10/350 μ S)(kA)                        |       | /                        | /          | /          | /          | 12.5        | 15        |
| Up(kV)                                      |       | 1.2                      | 1.6        | 1.8        | 2.0        | 1.8         | 2.0       |
| Isc   | D(kA) | 15                       | 15         | 25         | 25         | 25          | 25        |
|   | Z(kA) | 25                       | 25         | 35         | 35         | 35          | 35        |
|   | G(kA) | 35                       | 35         | 50         | 50         | 50          | 50        |
| Ue(V)                                       |       | 230V/400V                |            |            |            |             |           |
| It(A)                                       |       | ≤ 3A                     |            |            |            |             |           |
| response time(ns)                           |       | ≤ 25ns                   |            |            |            |             |           |
| Maximum terminal connection(mm²)            |       | 25                       |            |            |            |             |           |
| Maximum remote signal connection(mm²)       |       | 1.5                      |            |            |            |             |           |
| degrees of protection provided by enclosure |       | IP20                     |            |            |            |             |           |
| Ambient Temperature(℃)                      |       | 45~85                    |            |            |            |             |           |
| Working environment humidity(%)             |       | 95                       |            |            |            |             |           |
| altitude(m)                                 |       | 4000                     |            |            |            |             |           |
| Installation method                         |       | 35mm safety installation |            |            |            |             |           |

## ◆ Dimensional drawing (unit: mm)

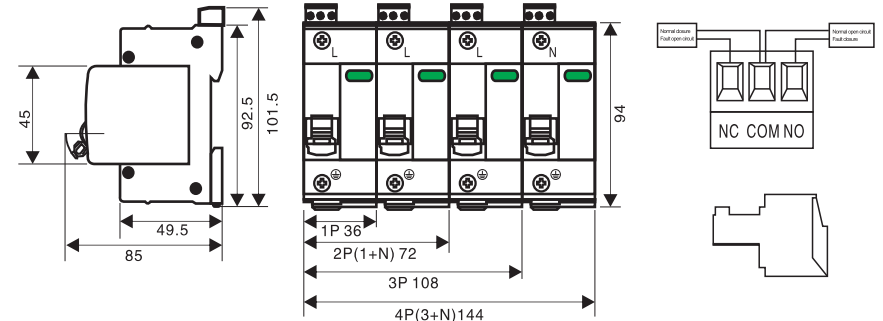


Figure 1

Figure 2

## ◆ Installation and wiring

1. The lightning arrester is installed with 35mm guide rails and installed inside the distribution box and cabinet, paying attention to waterproofing and moisture-proof measures;
2. It is recommended to use the V-shaped wiring method as shown in Figure 5 for the installation of lightning arresters. When wiring according to Figure 5, the power supply line does not require additional fuses or backup protectors;
3. When it is not possible to use Figure 5 wiring on site, the parallel wiring method shown in the figure can also be used. When connecting in parallel, the total length of the wiring should be controlled within 0.5 meters, and it should be short and straight to minimize the lightning current path as much as possible;
4. When connecting in parallel, there is no need to use fuse F2 on the lead wire of the power lightning arrester. This product comes with an SPD dedicated pre protection switch to prevent power supply system failures caused by lightning arrester failures.
5. When remote alarm is required, depending on the different alarm systems, open circuit alarm ports or short circuit alarm ports can be selected;
6. After the product wiring is completed, check that the wiring is correct and firm. Once everything is normal, it can be powered on and put into operation.

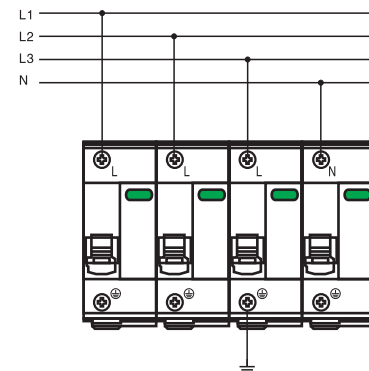


Figure 3: Parallel Connection Method

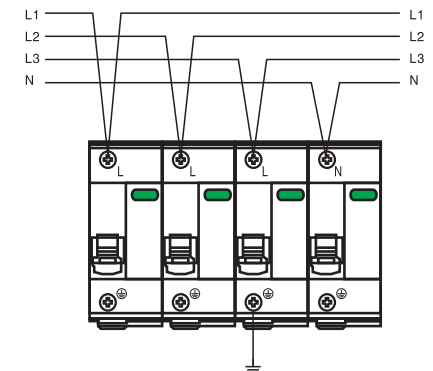


Figure 4: V-shaped wiring method