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# SURGE PRODUCT CATALOG

“Get to know everything about ADB”



**ZHEJIANG GEYA ELECTRICAL CO.LTD.**

ADD: Wenzhou Brige Industrial Zone, Beibaixiang Town, Yueqing, Zhejiang, China 325603

Tel: 0577-62771712 Fax: 0577-62711079 Tel: 13567770207

E-mail: sale@cngeya.com Web: www.geya.net.

ZHEJIANG GEYA ELECTRICAL CO.,LTD



## GPS9-12.5 Surge Protective Device

### Application

This Type 1+2 AC surge protective device is designed according to IEC / EN 61643-11 & GB 18802.11 which is for installation at LPZ 0A -2 or higher, protecting low voltage equipment against lightning and surge damages. Applied SPD Modular in Class I+II (Class B+C) for various power supply system.

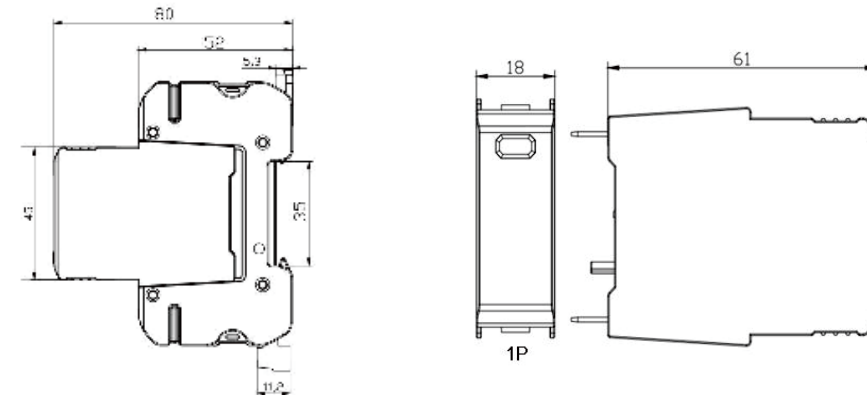
### Main Character

1. 10/350μs, 8/20μs T1+T2 protection;
2. High discharge capacity, quick response, pluggable;
3. Double thermal disconnection devices, providing more reliable protection;
4. Visual window display, green means normal, Red means defect(need to change new module);
5. Remote terminal optional;
6. Voltage can customize.

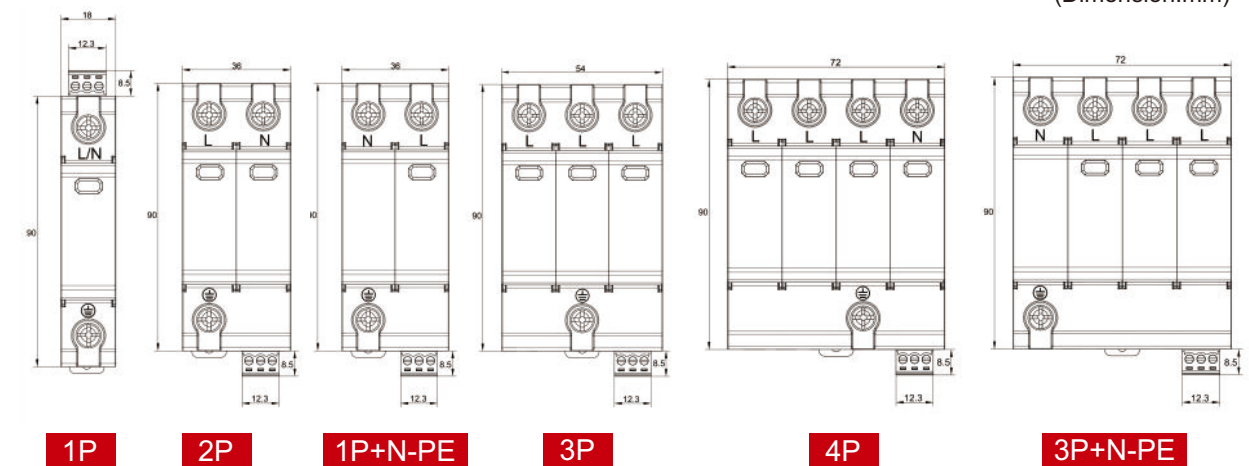
### Technical Parameter

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Model                                     | GPS9-12.5                                     |
| Test standard                             | IEC/EC 61643-11;GB18802.11                    |
| SPD type                                  | T1+T2/Class I +Class II                       |
| Max. AC operating voltage(Ue)             | 275V AC                                       |
| Nominal discharge current(8/20μs)         | 20kA                                          |
| Max. discharge current(8/20μs)            | 50kA                                          |
| Limp current(10/350μs)                    | 12.5kA                                        |
| Poles                                     | 1P;2P;3P;4P;1P+N-PE;3P+N-PE                   |
| Voltage protection level Up               | ≤1.5kV                                        |
| Response time Ta                          | ≤25ns;≤100ns                                  |
| Connection wire specification             | 6mm <sup>2</sup> (L/N);10mm <sup>2</sup> (PE) |
| Mounting                                  | 35mm Din Rail                                 |
| Matched fuse or circuit breaker           | 63A                                           |
| Type of remote sinaling contact(Optional) | C+NO:Normally open;COM:Common contact         |
| Max.Voltage/Current for remote signaling  | 1A/2A/3A 125V AC                              |
| Wiring for remote signaling               | 1.5mm <sup>2</sup> max                        |
| Operating temperaturer                    | -40°C to +85°C                                |
| Certificate                               |                                               |
| Shell material                            | UL94-V0 Fireproof material                    |

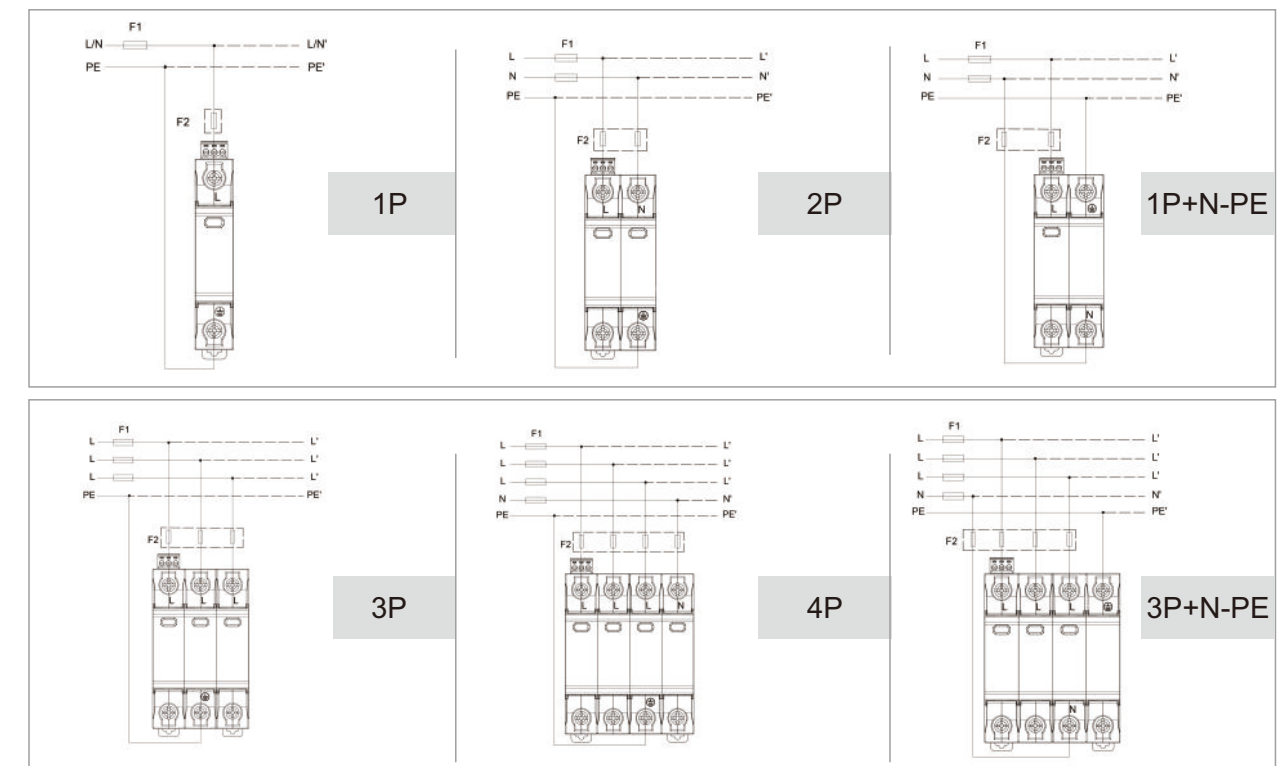
### Dimension and wiring diagram details(Remote terminal optional)



(Dimension:mm)



### Installation Diagram





## GSP9-D20

### Surge Protective Device

#### Application

This AC surge protective device is applied low voltage standard IEN 61643-11 to protect against AC power line system and other equipment from over voltage and instantaneous over voltage damage.It has advantages of large discharge current ,fast respond time and low residual voltage.

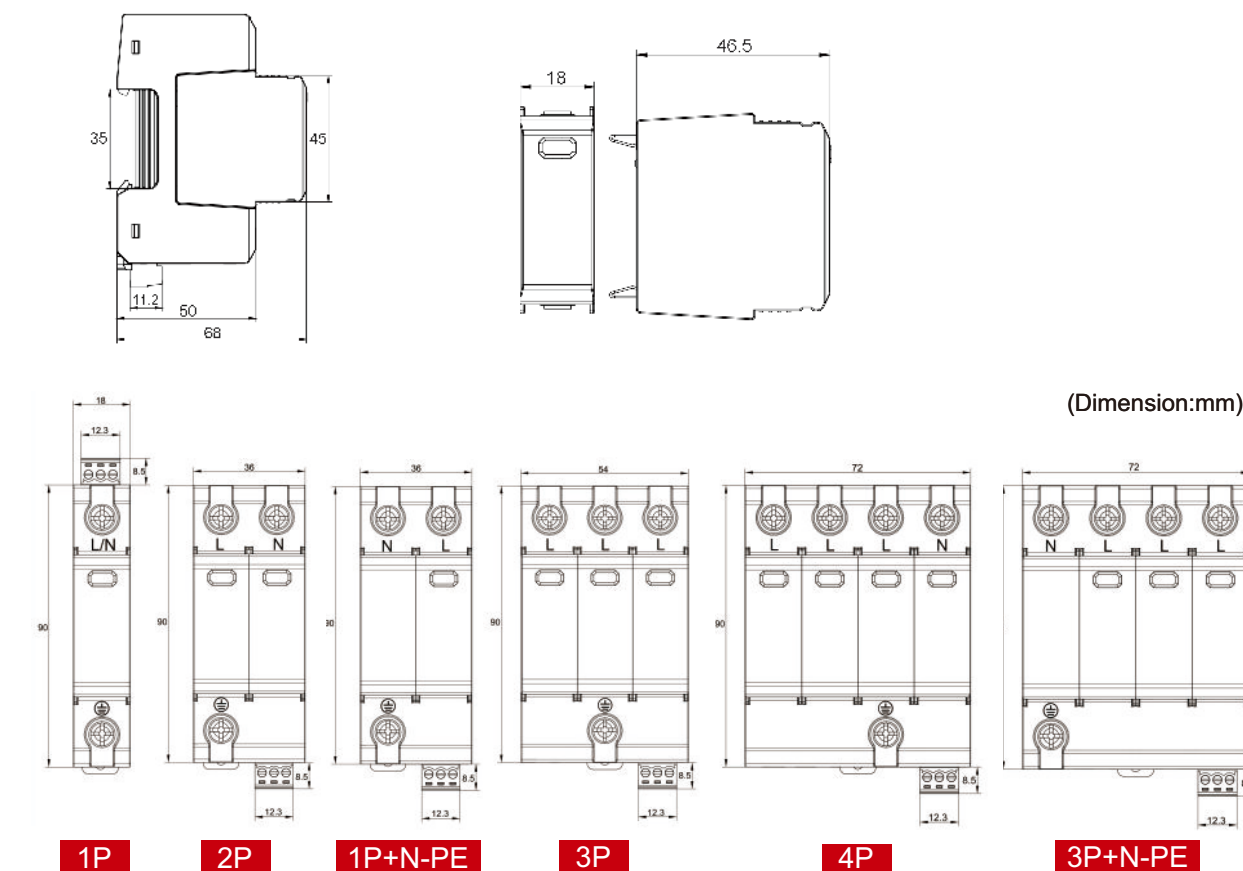
#### Main Features

1. High discharge capacity,quick response,pluggable.
2. Fast response time ,din rail installation.
3. Double thermal disconnection devices, providing more reliable protection.
4. Green window means normal ,red means defect ,need to change module.
5. Remote alarm terminal optional.
6. Voltage can be customized.
- 7.Class II type 2 surge protection.

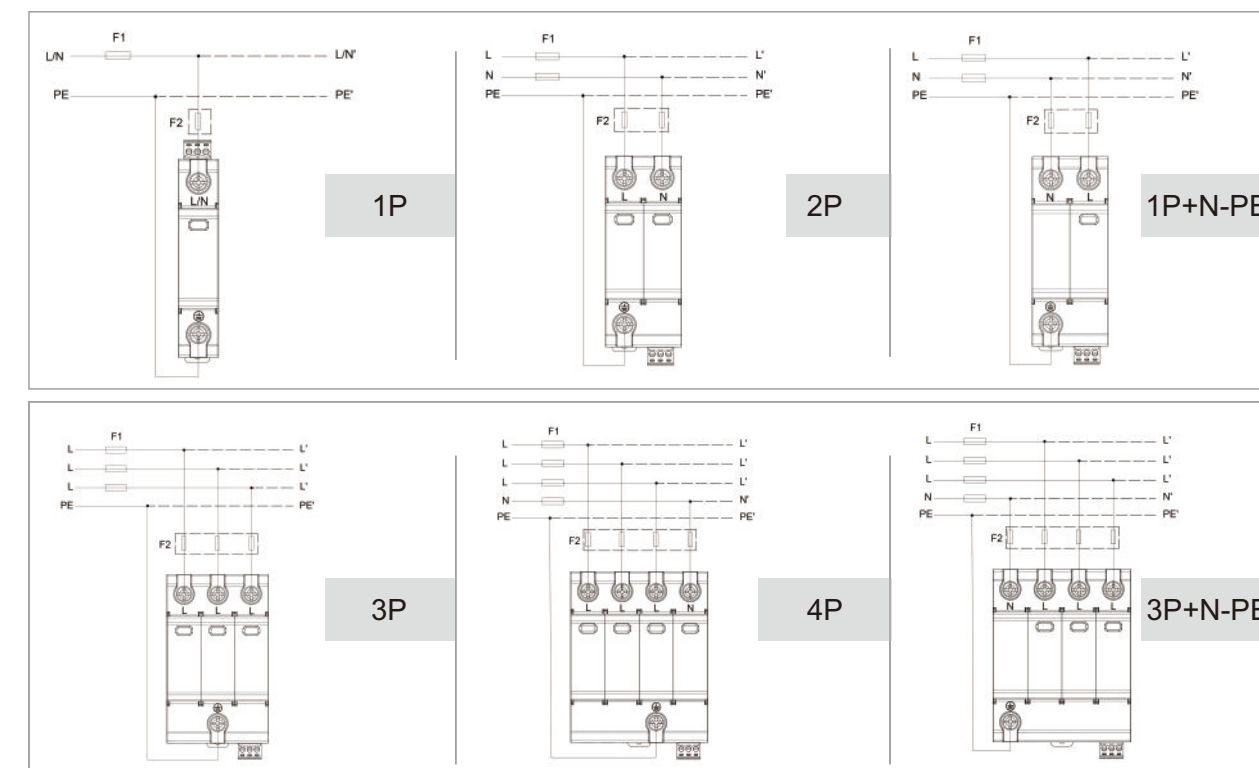
#### Technical Parameter

|                                           |                                                                |
|-------------------------------------------|----------------------------------------------------------------|
| Model                                     | GPS9-D20                                                       |
| Test standard                             | IEC/EN61643-11;GB18802.11                                      |
| SPD type                                  | T2/Class II                                                    |
| Max. AC operating voltage(Uc)             | 275V/385V AC                                                   |
| Nominal discharge current(8/20μs)         | 10kA                                                           |
| Max. discharge current(8/20μs)            | 20kA                                                           |
| Voltage protection level Up               | ≤ 1.5kV(275V AC)<br>≤ 1.8kV(385V AC)                           |
| Response time Ta                          | 25ns                                                           |
| Poles                                     | 1P 2P 3P 4P 1P+N-PE 3P+N-PE                                    |
| Matched fuse or circuit breaker           | 32A                                                            |
| Connection wire specification             | 4mm <sup>2</sup> (L/N);6mm <sup>2</sup> (PE)                   |
| Method of installation                    | 35mm Din Rail                                                  |
| Type of remotesignaling contact(Optional) | C+NC:Normally closed<br>C+NC:Normally open<br>C:Common contact |
| Max. Voltage/Current for remote signaling | 1A/2A/3A 125V AC                                               |
| Wiring for remote signaling               | 1.5mm <sup>2</sup> max.                                        |
| Operating temperature                     | -40°C to +85°C                                                 |
| Shell material                            | UL94-V0 fireproof material                                     |

#### Dimension details(Remote terminal optional)



#### Installation Diagram





## GSP9-C40

### Surge Protective Device

#### Application

This AC surge protective device is applied low voltage standard IEN/61643-11 to protect against AC power line system and other equipment from over voltage and instantaneous over voltage damage.It has advantages of large discharge current, fast respond time and low residual voltage.

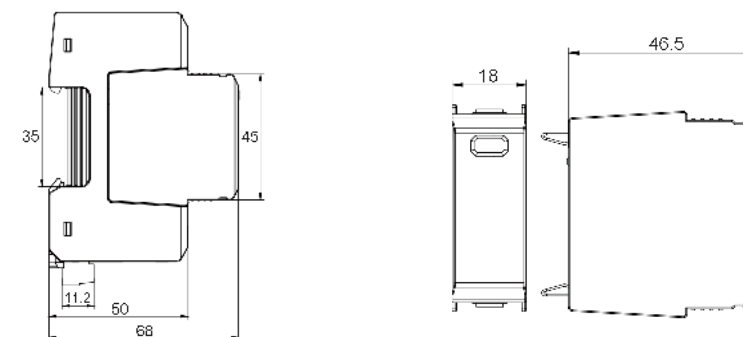
#### Main Features

1. High discharge capacity,quick response,pluggable.
2. Fast response time ,din rail installation.
3. Double thermal disconnection devices, providing more reliable protection.
4. Green window means normal ,red means defect ,need to change module.
5. Remote alarm terminal optional.
6. Voltage can be customized.

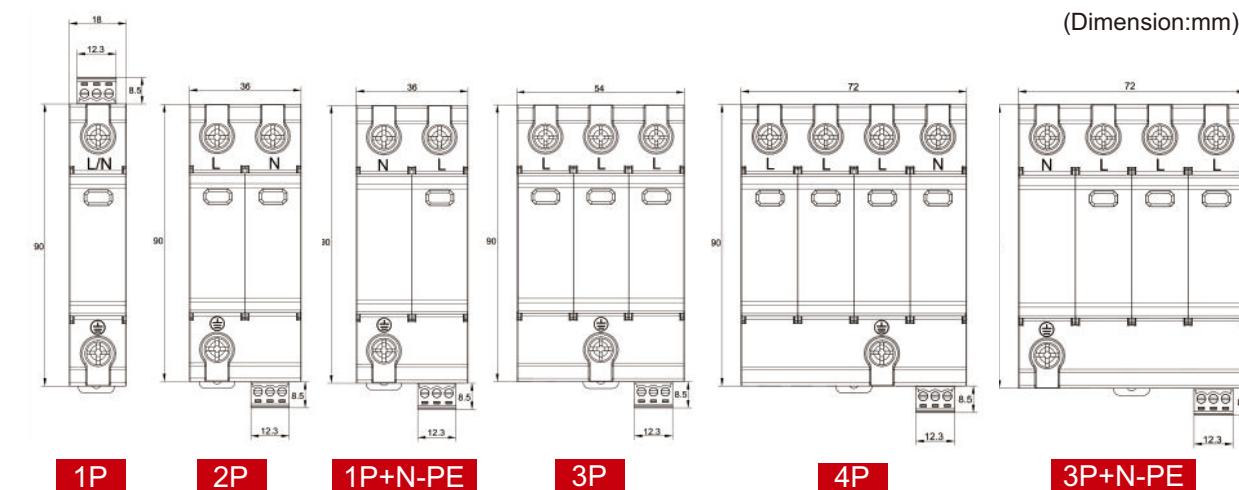
#### Technical Parameter

|                                            |                                                                |
|--------------------------------------------|----------------------------------------------------------------|
| Model                                      | GPS9-C40                                                       |
| Test standard                              | IEC/EN 61643-11;GB18802.11                                     |
| SPD type                                   | T1+T2/ClassI+ClassII                                           |
| Max. AC operating voltage(Uc)              | 275V/385V AC                                                   |
| Nominal discharge current(8/20μs)          | 20kA                                                           |
| Max. discharge current(8/20μs)             | 40kA                                                           |
| limp current(10/350μs)                     | 5kA                                                            |
| Voltage protection level Up                | ≤ 1.5kV(275V AC)<br>≤ 1.8kV(385V AC)                           |
| Response time Ta                           | 25ns                                                           |
| Poles                                      | 1P 2P 3P 4P 1P+N-PE 3P+N-PE                                    |
| Matched fuse or circuit breaker            | 32A                                                            |
| Connection wire specification              | 4mm <sup>2</sup> (L/N);6mm <sup>2</sup> (PE)                   |
| Mounting                                   | 35mm Din Rail                                                  |
| Type of remote signaling contact(Optional) | C+NC:Normally closed<br>C+NC:Normally open<br>C:Common contact |
| Max.Voltage/Current for remote signaling   | 1A/2A/3A 125V AC                                               |
| Wiring for remote signaling                | 1.5mm <sup>2</sup> max.                                        |
| Operating temperature                      | -40°C to +85°C                                                 |
| Shell material                             | UL94-V0 fireproof material                                     |

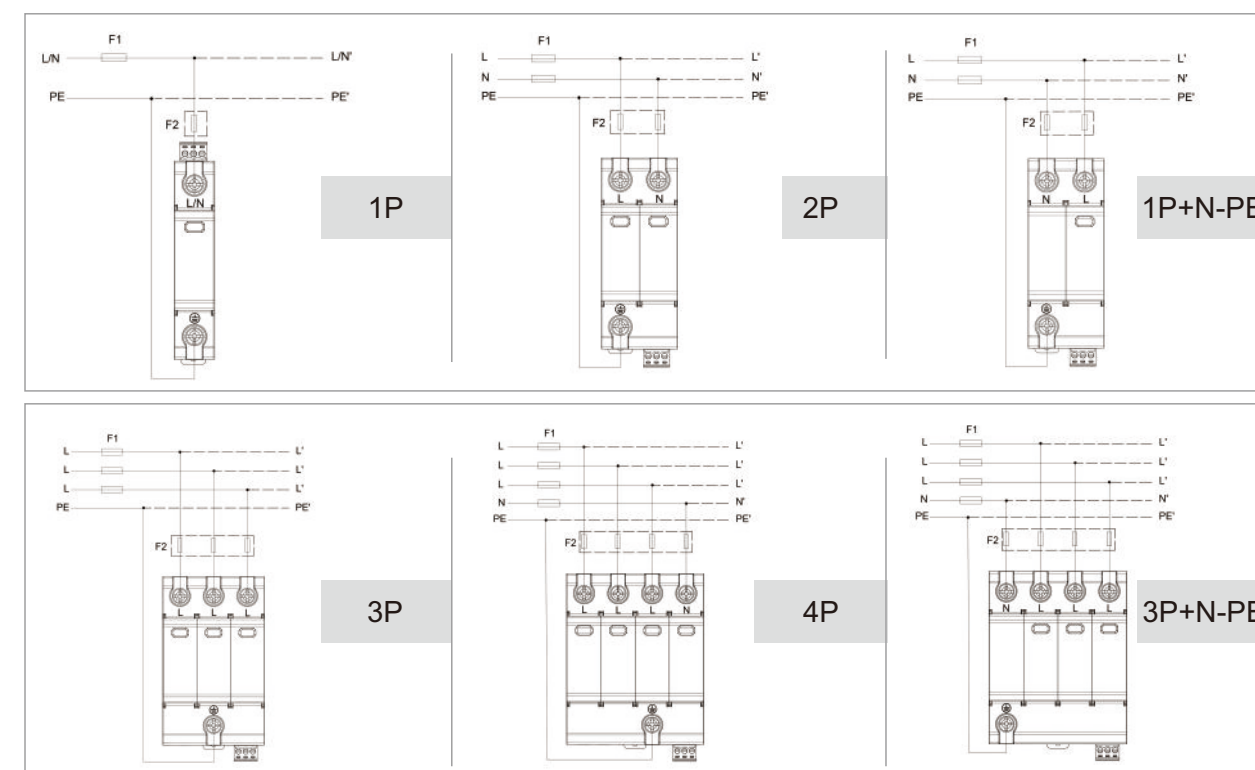
#### Dimension details(Remote terminal optional)



(Dimension:mm)



#### Installation Diagram





## GSP9-B60

### Surge Protective Device

#### Application

This AC surge protective device is applied low voltage standard IEC/61643-11 to protect against AC power line system and other equipment from over voltage and instantaneous over voltage damage. It has advantages of large discharge current, fast response time and low residual voltage.

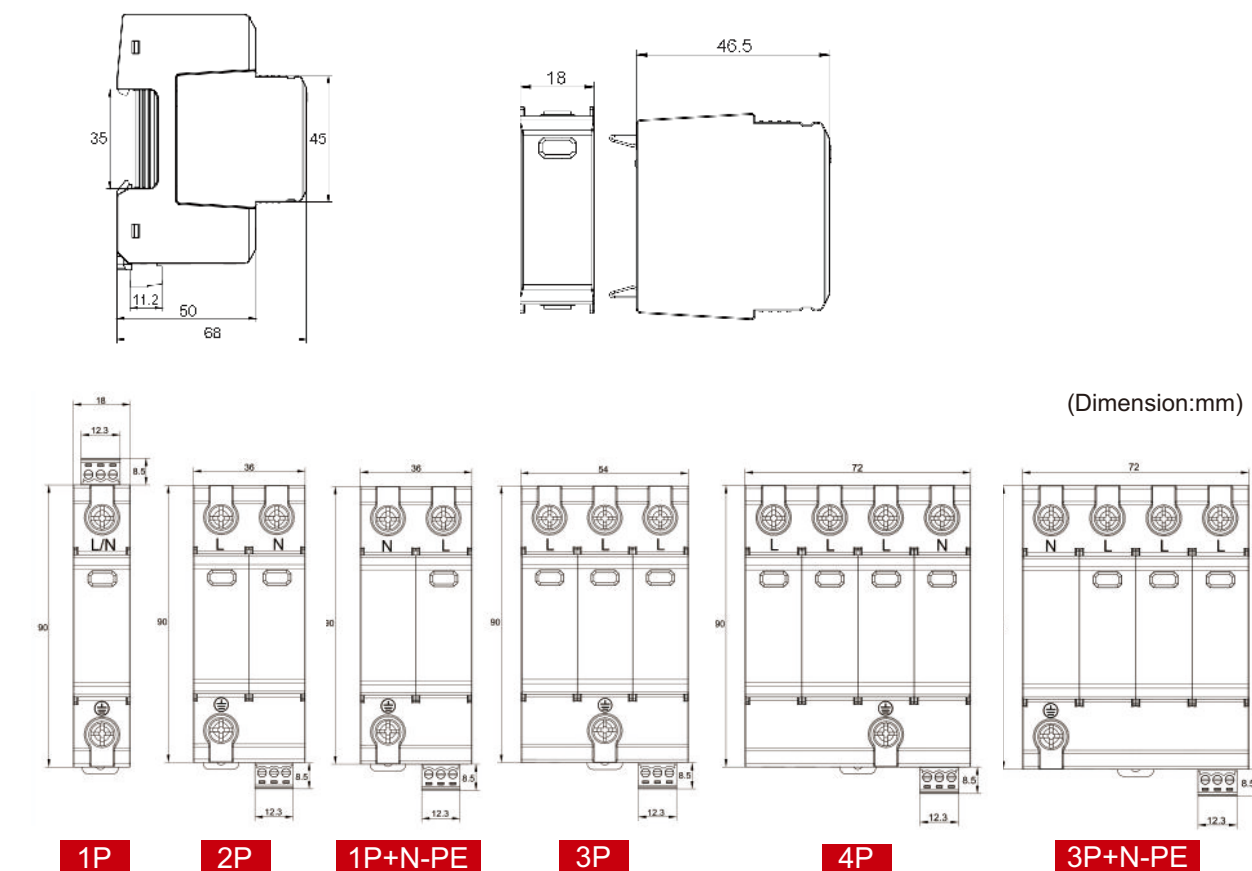
#### Main Features

1. High discharge capacity, quick response, pluggable.
2. Fast response time, DIN rail installation.
3. Double thermal disconnection devices, providing more reliable protection.
4. Green window means normal, red means defect, need to change module.
5. Remote alarm terminal optional.
6. Voltage can be customized.
7. Class II type 2 surge protection.

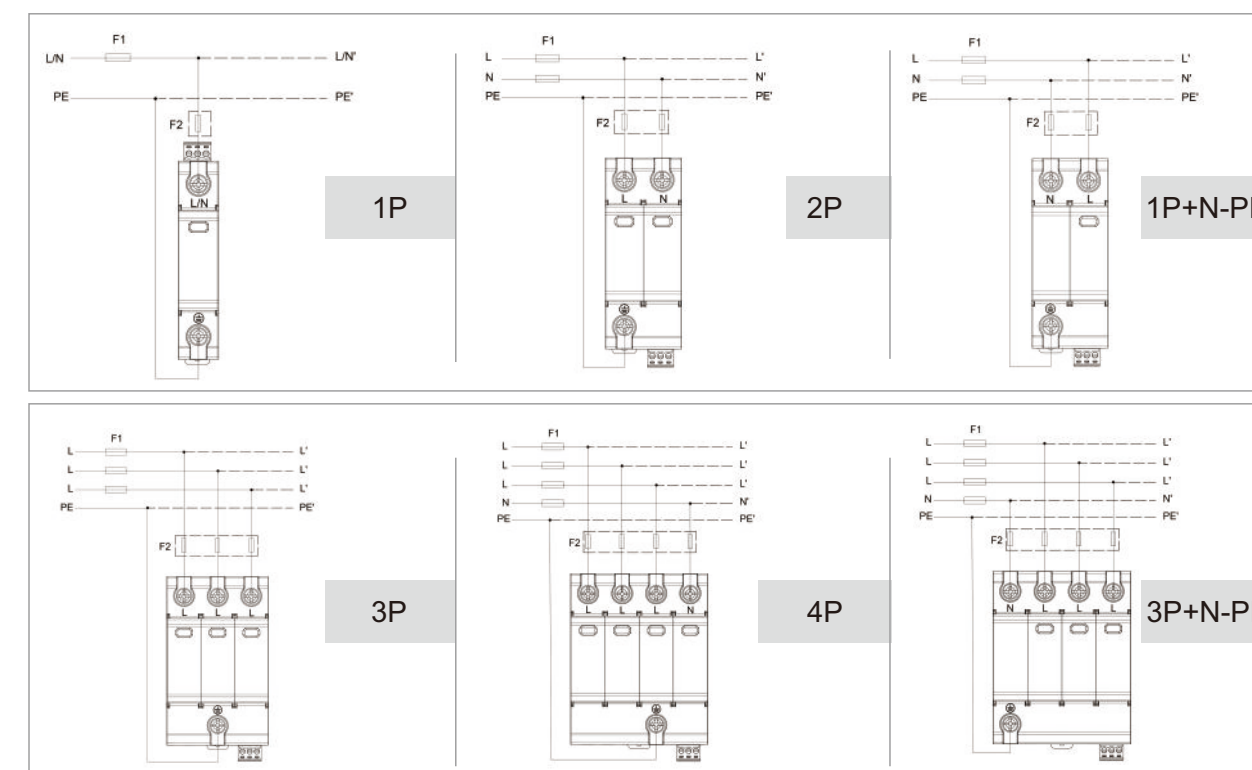
#### Technical Parameter

|                                                |                                               |
|------------------------------------------------|-----------------------------------------------|
| Model                                          | GSP9-B60                                      |
| Test standard                                  | IEC/EN 61643-11; GB18802.11                   |
| SPD type                                       | T2/Class II                                   |
| Max. AC operating voltage(Uc)                  | 275V/385V AC                                  |
| Nominal discharge current(8/20μs)              | 30kA                                          |
| Max. discharge current(8/20μs)                 | 60kA                                          |
| Voltage protection level Up                    | ≤ 1.5kV(275V AC)<br>≤ 1.8kV(385V AC)          |
| Response time Ta                               | 25ns                                          |
| Poles                                          | 1P 2P 3P 4P 1P+N-PE 3P+N-PE                   |
| Matched fuse or circuit breaker                | 32A                                           |
| Connection wire specification                  | 4mm <sup>2</sup> (L/N); 6mm <sup>2</sup> (PE) |
| Mounting                                       | 35mm Din Rail                                 |
| Mounting                                       | C+NC: Normally closed                         |
| Type of remote signaling contact(Optional)     | C+NC: Normally open<br>C: Common contact      |
| Max. Voltage/Current for remote signaling      | 1A/2A/3A 125V AC                              |
| Cross-sectional area for remote signal contact | 1.5mm <sup>2</sup> max.                       |
| Operating temperature range                    | -40°C to +85°C                                |
| Shell material                                 | UL94-V0 fireproof material                    |

#### Dimension details(Remote terminal optional)



#### Installation Diagram





## GSP9-C40PV

### 600V 1000V DC

### Surge Protective Device

#### Application

This DC surge protective device is applied low voltage standard IEC/EN 61643-11 to protect against DC power line system and other equipment from over voltage and instantaneous over voltage damage. Widely used in photovoltaic combi box, power inverter, DC distribution cabinet etc. It has advantages of large discharge current, fast respond time, low residual voltage. Max. PV voltage up to UCPV ≤1000V dc.

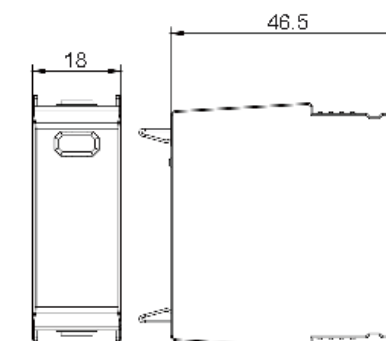
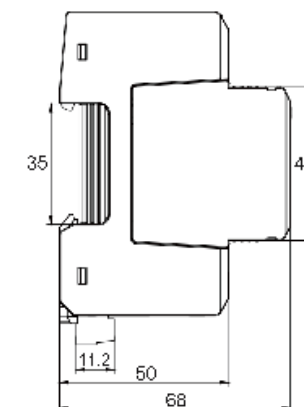
#### Main Features

1. High discharge capacity, quick response, module pluggable;
2. Fast response time, din rail installation;
3. Double thermal disconnection devices, provide more reliable protection;
4. Green window means normal, red means defect, need to change module;
5. Remote alarm terminal optional.
6. T1+T2 surge protection.

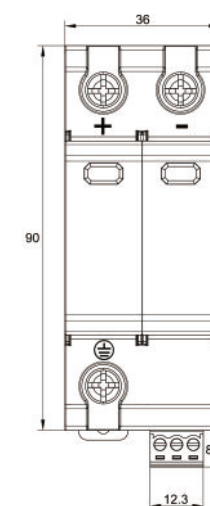
#### Technical Parameter

|                                            |                                                                |
|--------------------------------------------|----------------------------------------------------------------|
| Model                                      | GSP9-C40PV                                                     |
| Test standard                              | IEC/EN 61643-11;GB18802.11                                     |
| SPD type                                   | T1+T2/I+IIC                                                    |
| Max. PV operating voltage(Uc)              | 600V DC 1000V DC                                               |
| Nominal discharge current (8/20μs)         | 20kA                                                           |
| Max. discharge current(8/20μs)             | 40kA                                                           |
| Iimp current(10/350μs)                     | 6.25kA                                                         |
| Poles                                      | 2P 2P/3P                                                       |
| Voltage protection level Up pv             | ≤2.6kV ≤3.6kV                                                  |
| Response time Ta                           | 25ns                                                           |
| Connection wire specification              | 4mm <sup>2</sup> (L/N);6mm <sup>2</sup> (PE)                   |
| Mounting                                   | 35mm Din Rail                                                  |
| Matched fuse or circuit breaker            | 32A                                                            |
| Type of remote signaling contact(Optional) | C+NC:Normally closed<br>C+NO:Normally open<br>C:Common contact |
| Max.Voltage/Current for remote signaling   | 1A/2A/3A 125V AC                                               |
| Wiring for remote signaling                | 1.5mm <sup>2</sup> max.                                        |
| Operating temperature                      | -40°C to +85°C                                                 |

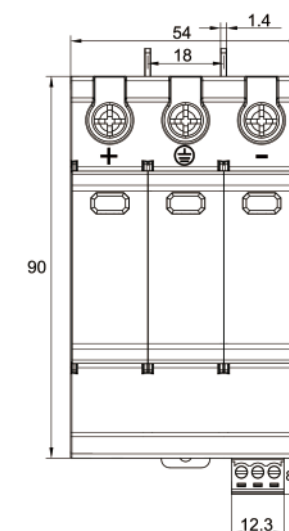
#### Dimension details unit: mm(Remote terminal optional)



(Dimension:mm)

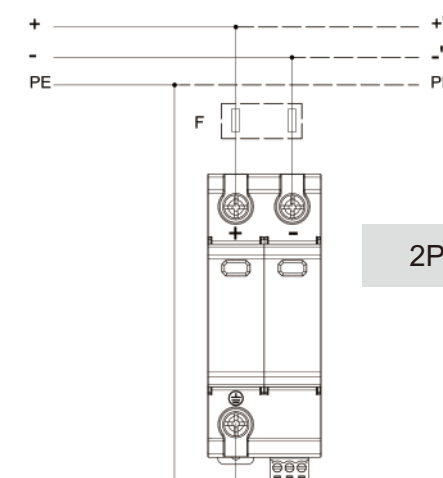


2P

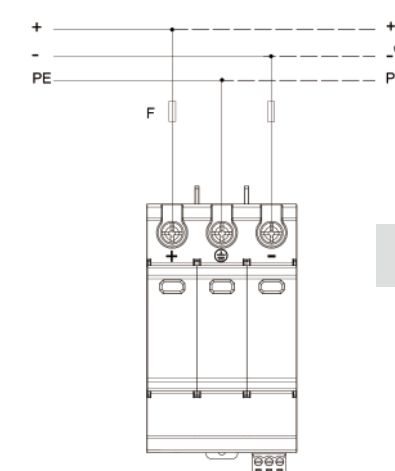


3P

#### Wiring diagram(2P&3P)



2P



3P



# GSP9-C40PV

## 1500V DC

### Surge Protective Device

#### Application

This DC surge protective device is applied low voltage standard IEC/EN 61643-11 to protect against DC power line system and other equipment from over voltage and instantaneous over voltage damage. Widely used in photovoltaic comber box, power inverter, DC distribution cabinet etc. It has advantages of large discharge current, fast respond time, low residual voltage. Max. PV voltage up to UCPV ≤1500V DC.

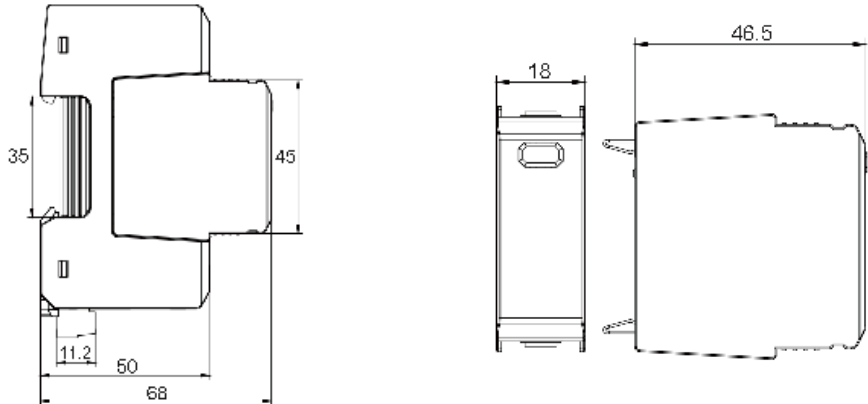
#### Main Features

1. High discharge capacity, quick response, module pluggable;
2. Fast response time, din rail installation;
3. Double thermal disconnection devices, provide more reliable protection;
4. Green window means normal, red means defect, need to change module;
5. Remote alarm terminal optional.
6. T1+T2 surge protection.

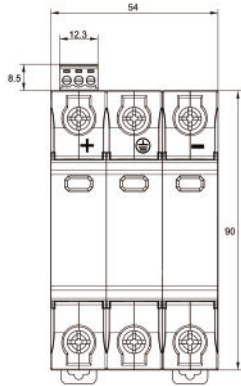
#### Technical Parameter

|                                            |                                                                |
|--------------------------------------------|----------------------------------------------------------------|
| Model                                      | GSP9-C40PV                                                     |
| Test standard                              | IEC/EN 61643-11;GB18802.11                                     |
| SPD type                                   | T1+T2/ClassI+II                                                |
| Max. PV operating voltage(Uc)              | 1500VDC                                                        |
| Nominal discharge current(8/20μs)          | 20kA                                                           |
| Max.dischargecurrent(8/20μs)               | 40kA                                                           |
| limp current(10/350μs)                     | 6.25kA                                                         |
| Poles                                      | 3P                                                             |
| Voltage protection level Up pv             | ≤5.6kV                                                         |
| Response time Ta                           | 25ns                                                           |
| Connection wire specification              | 4mm <sup>2</sup> (L/N);6mm <sup>2</sup> (PE)                   |
| Mounting                                   | 35mm Din Rail                                                  |
| Matched fuse or circuit breaker            | 32A                                                            |
| Type of remote signaling contact(Optional) | C+NC:Normally closed<br>C+NO:Normally open<br>C:Common contact |
| Max.Voltage/Current for remote signaling   | 1A/2A/3A 125V/ AC                                              |
| Wiring for remote signaling                | 1.5mm <sup>2</sup> max.                                        |
| Operatingtemperaturerange                  | -40℃ to+ 85℃                                                   |

#### Dimension details(Remote terminal optional)

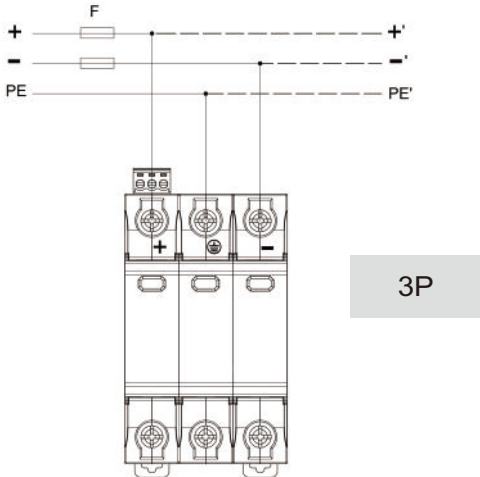


(Dimension:mm)



3P

#### Wiring diagram: 3P





## GSP9-DP Surge Protective Device

### Application

This AC Surge protective device is applied low voltage standard IEC/EN 61643-11 to protect against AC power line system and other equipment from over voltage and instant aneous over voltage damage. It has advantages of large discharge current ,fast respond time and low residual voltage.

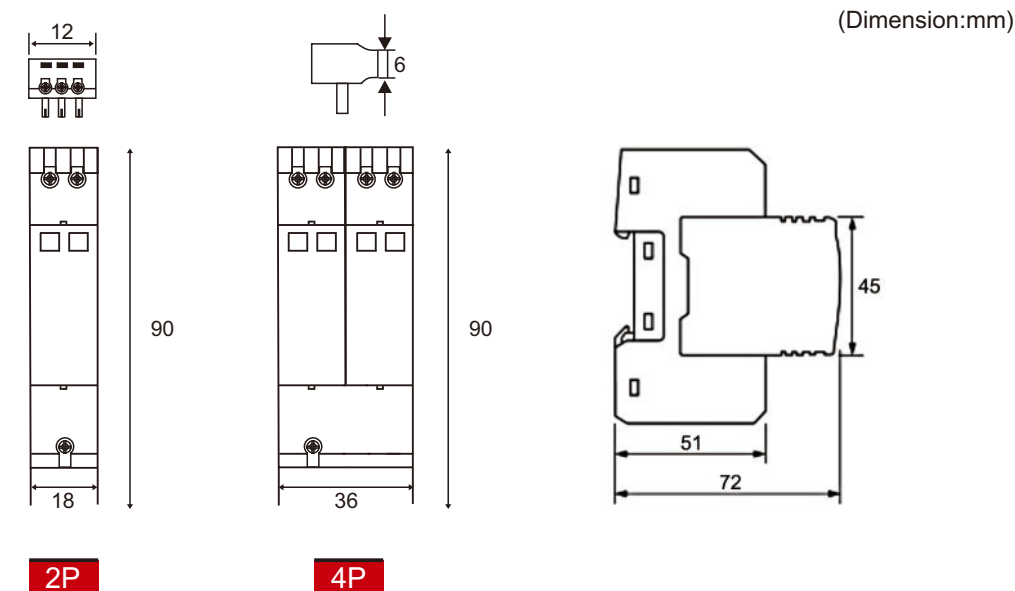
### Main Features

1. High discharge capacity,quick response,pluggable.
2. Fast response time ,din rail installation.
3. Double thermal disconnection devices, providing more reliable protection.
4. Green window means normal ,red means defect ,need to change module.
5. Remote alarm terminal optional.
6. Voltage can be customized.

### Technical Parameter

|                                                |                                                                |
|------------------------------------------------|----------------------------------------------------------------|
| Model                                          | GPS9-DP40                                                      |
| Test standard                                  | IEC 61643-11;GB18802.11                                        |
| SPD type                                       | T2/Class II                                                    |
| Maximum continuous operating voltage Uc        | 275V AC                                                        |
| Nominal discharge current(8/20μs)              | 20kA                                                           |
| Max.dischargecurrent(8/20μs)                   | 40kA                                                           |
| Voltage protection level Up                    | ≤1.5kV                                                         |
| Response time Ta                               | 25ns                                                           |
| Poles                                          | 2P,4P,1P+N-PE,3P+N-PE                                          |
| Matched fuse or circuitbreaker                 | 32A                                                            |
| Connection wire specification                  | 4mm <sup>2</sup> (L/N);6mm <sup>2</sup> (PE)                   |
| Mounting                                       | 35mm Din Rail                                                  |
| Type of remote signaling contact(Optional)     | C+NC:Normally closed<br>C+NC:Normally open<br>C:Common contact |
| Switching capacity                             | AC:250V/0.5A DC:250V/0.1A, 125V/0.2A,75V/0.5A                  |
| Cross-sectional area for remote signal contact | Max.1.5mm <sup>2</sup> solid / flexible                        |
| Operatingtemperaturerange                      | -40°C to+85°C                                                  |
| Shell material                                 | UL94-V0 fireproof material                                     |

### Dimension details(Remote terminal optional)



### Wiring diagram

