

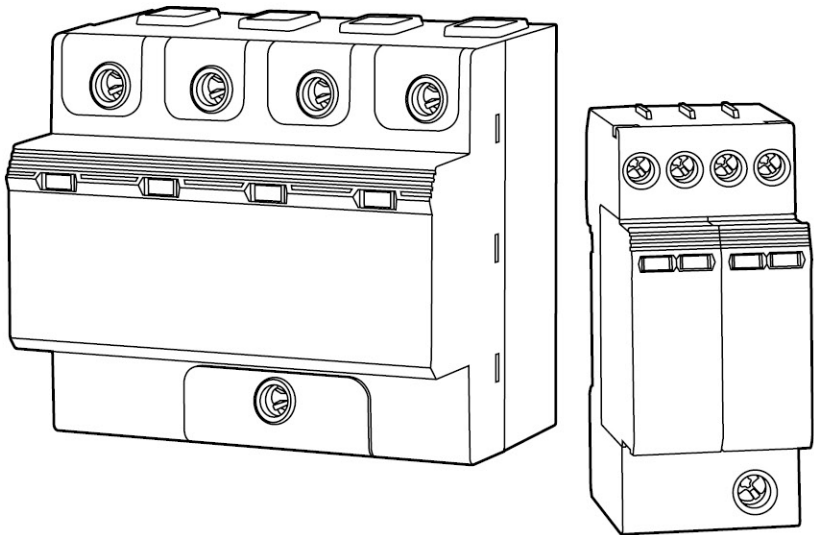
♻️ Cherish resources and treat the environment well

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- If there is any change, it will not be notified at that time. We sincerely hope that this manual will bring you convenience
- Continuous product development and technology innovation



New energy products

SURGE PROTECTION DEVICE LIGHTNING ARRESTER



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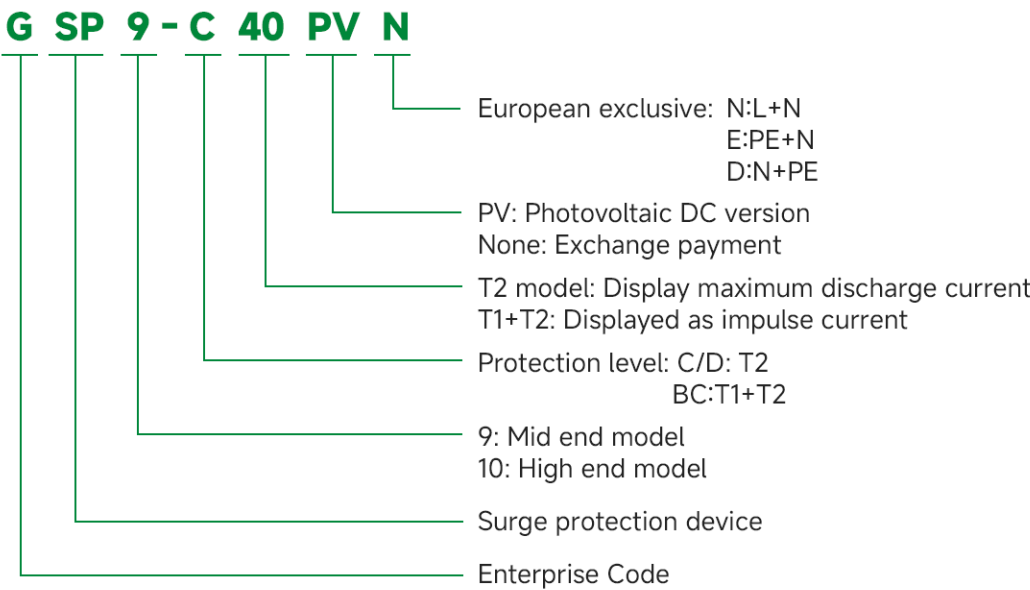
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🌐 www.geya.net



PRODUCT CATALOG

GSP9-D20、GSP9-C40	01-02
GSP9-C40PV	03-04
GSP10-C20D、GSP10-C40E	05-06
GSP10-C40N	07-08
GSP9-C60、GSP9-C80、GSP9-C100、GSP9-C160	09-10
GSP9-BC12.5	11-12



9 series can be made into high-end 10 series models
premium model
1. Higher quality pressure-sensitive chips:
2. Adopt environmentally friendly soldering materials
3. Unique tripping insulation isolation technology
(Timely and effectively cut off the arc when the surge protector fails and trips)



Surge protective devices

GSP9-D20
GSP9-C40



GSP9-D20
GSP9-C40

Summary

It is mainly used to provide T2 protection for various electronic and electrical equipment in buildings vulnerable to lightning overvoltage. Mainly used as primary protection equipment in the main distribution system.

Characteristic

Location of Use: Distribution cabinet, JP cabinet etc.	Chinese Standard: GB/T18802.11-2020
Network Systems: TN-S, TN-C, TT	IEC standard : IEC 61643-11:2011
Mode of Protection: L-PE, N-PE , L-PEN, L-N	European standard : EN 61643-11: 2012
Protective Elements: High Energy MOV	Certificates: TUV, CE, CQC

Technical Data (Type 2(T2) SPD)

Technical Data		GSP9-D20	GSP9-C40
Model number		GSP9-D20	GSP9-C40
Max Continuous Operating Voltage	Uc(V~)	275/320/385/440	275/320/385/440
Nominal discharge current	In(kA)	10	20
Maximum discharge current	I _{max} (kA)	20	40
Protection level	Up(kV)	<1.3/1.4/1.6/1.8	<1.4/1.5/1.8/2.2
Response time	(ns)	<25	<25
General parameter			
Access wire area	(mm²)	≥ 10	≥ 10
Access ground cross-sectional area	(mm²)	≥ 16	≥ 16
SPD special disconnecter	Recommend	SSD40	SSD40
Working environment		-40~+70° C,relative humidity<95% (below 25°C)	
Remote communication connection		14 11:NO, 11 12:NC	

Associated disconnectors

Thermal	disconnecter internal
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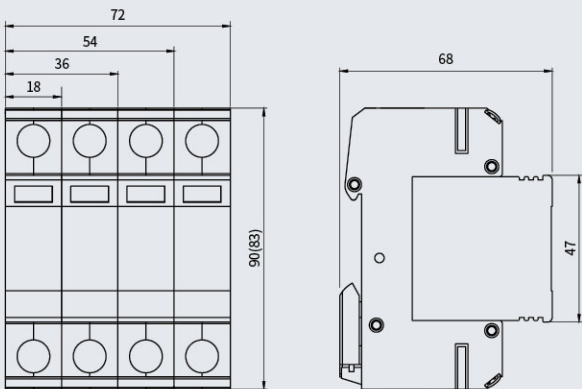
Mechanical characteristics

Connection By screw terminals	6-25 mm²
Terminal Screw Torque	2.5 Nm
Recommended Cable cross Section	≥ 16mm²
Insert wire length	15mm
Mounting DIN rail	35mm (EN60715)
Degree of Protection	IP20
Housing	PBT/PA
Flame retardant grade	UL94 V0
Operating temperature	-40°C~ +70°C
Operating relative humidity	5%-95%
Working atmospheric pressure	70kPa ~ 106kPa

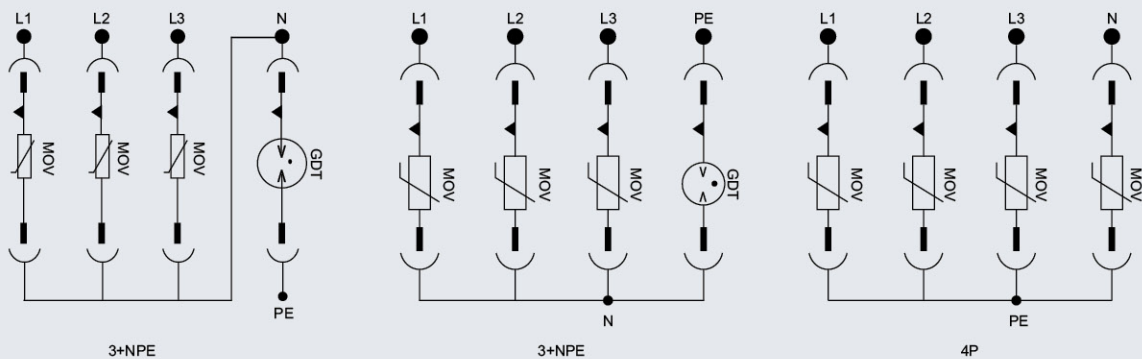
Size

Poles	1P	1+NPE	2P	3P	4P	3+NPE
Size (mm)	18×90(83)×67	36×90(83)×67	36×90(83)×67	54×90(83)×67	72×90(83)×67	72×90(83)×67
Packing	Inner box					
Delivery packaging	Carton or Pallet					

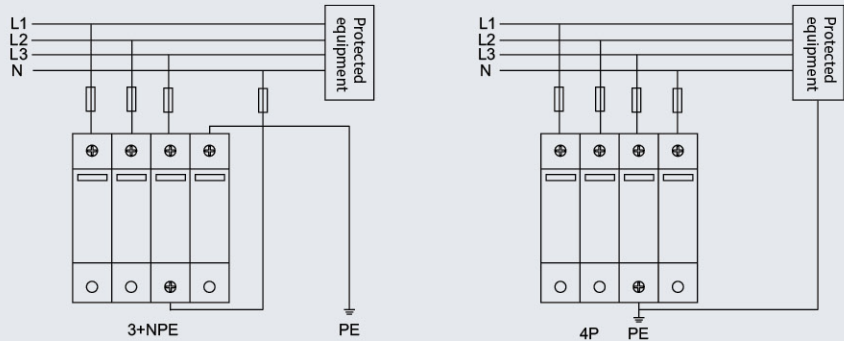
Dimensional drawing



Schematic diagram



Wiring diagram





PV Surge protective devices

GSP9-C40PV



Summary

The surge protection device belongs to the T2 photovoltaic DC system surge protector, which can be installed in the solar panel, the connection between the solar panel and the controller, between the controller and the inverter or other DC power supply end, used to release, inhibit and reduce the overcurrent and overvoltage caused by induced lightning strike or the power grid system, so as to reduce the harm to electrical equipment

Characteristic

Model No.: Type U, Type Y
Chinese Standard:GB/T 18802.31-2016
European standard :EN 50539-11:2012

Protective Elements:High Energy MOV
IEC: IEC 61643-31: 2018
Certificates :TUV、CE、CQC

Technical Data (Type 2 (T2) PV Surge protective devices 20kA-40kA)

Technical Data					
Max Continuous Operating Voltage	U_{CPV}	600VDC	1000VDC	1500VDC	2000VDC
Nominal discharge current(T2)	I_n	20kA	20kA	20kA	20kA
Maximum discharge current	I_{max}	40 kA	40 kA	40 kA	40 kA
Protection level	U_p	3.0 kV	3.5 kV	5.5 kV	6.5 kV
Admissible short-circuit current	I_{scpv}	500A			
I_{cpv} PV		0.2 mA			
Connection mode		parallel			
Response Time	t_A	25ns			
SPD Special disconnecter	Recommend	SSD40			
Remote communication		With			
Remote communication connection		14 11:NO, 11 12:NC			
Remote contact rated current		220V/0.5A			

Associated disconnectors

Thermal	disconnector internal
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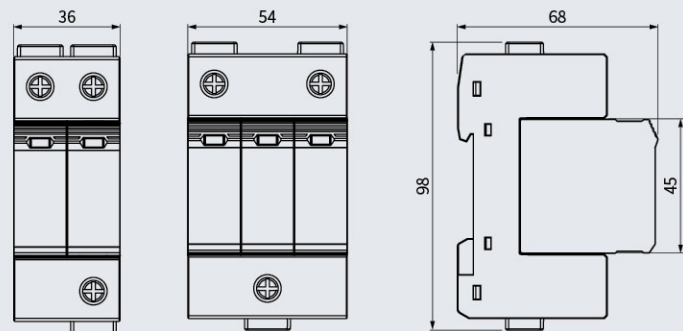
Mechanical characteristics

Connection By screw terminals	6-25mm ²
Terminal Screw Torque	2.5 Nm
Recommended Cable cross Section	≥ 10mm ²
Insert wire length	15mm
Mounting DIN rail	35mm (EN60715)
Degree of Protection	IP20
Housing	PBT/PA
Flame retardant grade	UL94 V0
Operating temperature	-40°C~ +70°C
Operating relative humidity	5%-95%
Working atmospheric pressure	70kPa ~ 106kPa

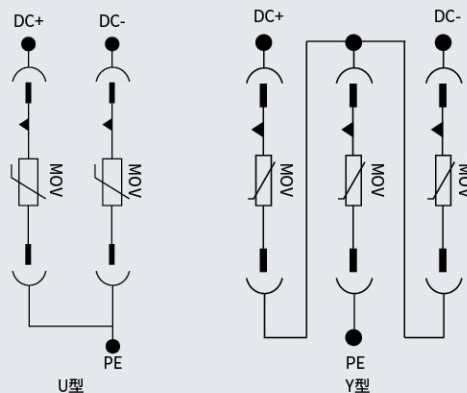
Size

Model No.	Type U	Type Y
600V Size (mm)	36×83×67, 36×90×67	54×83×67, 54×90×67
1000V Size (mm)	36×83×67, 36×90×67	54×83×67, 54×90×67
1500V 2000V Size (mm)	/	54×90×67, 81×90×67
Packing	Inner box	
Delivery packaging	Carton or Pallet	

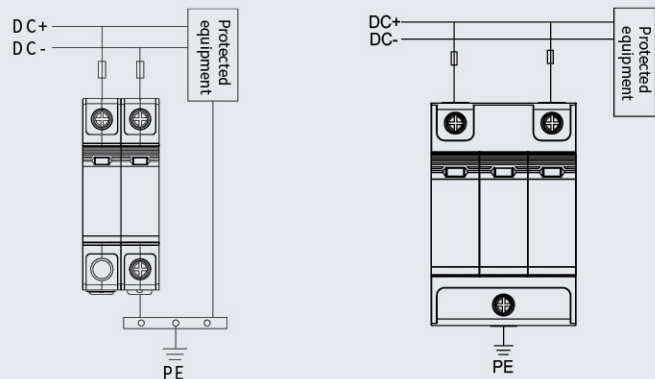
Dimensional drawing



Schematic diagram



Wiring diagram





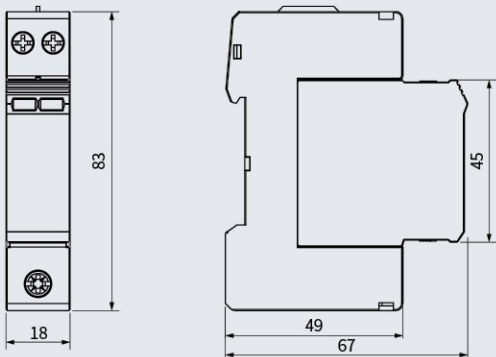
Surge protective devices

GSP10-C40D
GSP10-C40E

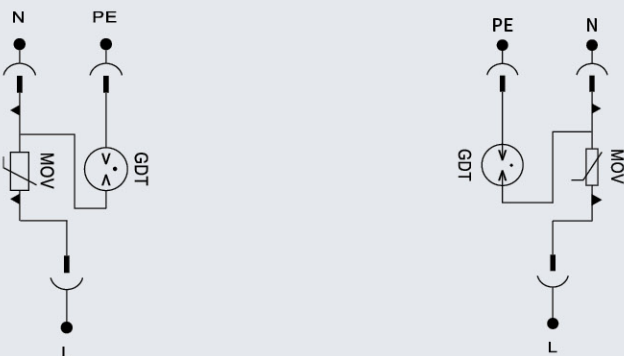


Size						
Poles	1P	1+NPE	2P	3P	4P	3+NPE
Size (mm)	/	18×83×67	/	/	/	/
Packing	Inner box					
Delivery packaging	Carton or Pallet					

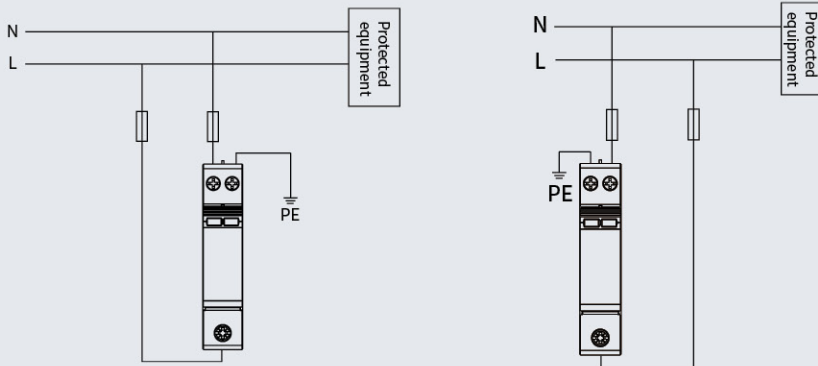
Dimensional drawing



Schematic diagram



Wiring diagram



Summary

The surge protection device belongs to T2 AC power surge protector, which is installed between the power supply network and the equipment to drain, suppress and reduce the overcurrent and overvoltage caused by induced lightning strikes or the power grid system, so as to reduce the harm to the electrical equipment

Characteristic

Location of Use:sub-distribution cabinet,JP cabinet etc.	Chinese Standard:GB/T 18802.11-2020
Network Systems:TN-S, TN-C, TT	IEC standard:IEC 61643-11: 2011
Mode of Protection:N-PE, L-N	European standard :EN 61643-11: 2012
Protective Elements:High Energy MOV、 GDT	Certificates:CE

Technical Data (Type 2 (T2) Surge protective devices 20KA-40kA)

Technical Data		
Max Continuous Operating Voltage	Uc(L-N)	275VAC
Max Continuous Operating Voltage	Uc(N-PE)	255VAC
Rated Voltage	Un	220VAC
Nominal discharge current (T2)	In	20kA
Maximum discharge current	I _{max}	40kA
Protection level	Up(L-N)	1.5kV
Protection level	Up(N-PE)	1.3kV
Follow Current Interrupt Rating	I _{fi}	100A(N-PE)
Response Time	t _A	25ns
SPD Special disconnector	Recommend	SSD40
TOV	N-PE	1200V
Residual current-Leakage current at	I _{pe}	NONE
Admissible short-circuit current	I _{sc}	25000A
Remote communication	With	
Remote communication connection	14 11:NO, 11 12:NC	
Remote contact rated current	220V/0.5A	

Associated disconnectors

Thermal	disconnector internal
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Mechanical characteristics

Connection By screw terminals	4-16 mm ²
Terminal Screw Torque	2.0 Nm
Recommended Cable cross Section	≥ 10mm ²
Insert wire length	15mm
Mounting DIN rail	35mm (EN60715)
Degree of Protection	IP20
Housing	PBT/PA
Flame retardant grade	UL94 V0
Operating temperature	-40°C~ +70°C
Operating relative humidity	5%-95%
Working atmospheric pressure	70kPa ~ 106kPa





Surge protective devices

GSP10-C40N



Summary

The surge protection device belongs to T2 AC power surge protector, which is installed between the power supply network and the equipment to drain, suppress and reduce the overcurrent and overvoltage caused by induced lightning strikes or the power grid system, so as to reduce the harm to the electrical equipment

Characteristic

Location of Use:sub-distribution cabinet,JP cabinet etc.

Network Systems: TN-S, TN-C, TT

Mode of Protection:L-PE、 N-PE、 L-N

Protective Elements:High Energy MOV

Chinese Standard:GB/T 18802.11-2020

IEC standard:IEC 61643-11: 2011

European standard :EN 61643-11: 2012

Certificates:TUV, CE

Technical Data (Type 2 (T2))

Technical Data				
Max Continuous Operating Voltage	(AC) Uc	275V	320V	385V
Rated Voltage	(AC) Un	220V	220V	220V
Nominal discharge current (T2)	In	20kA	20kA	20kA
Maximum discharge current	Imax	40kA	40kA	40kA
Protection level	Up(L-N)	1.5kV	1.5kV	1.8kV
Protection level	Up(N-PE)	1.2kV	1.2kV	1.2kV
Follow Current Interrupt Rating	I _n	100A(N-PE)		
Response Time	t _A	25ns		
SPD Special disconnecter	Recommend	SSD40		
TOV	N-PE	1200V		
Residual current-Leakage current at	I _{pe}	NONE		
Admissible short-circuit current	I _{sc}	25000A		
Remote communication		With		
Remote communication connection		14 11:NO, 11 12:NC		
Remote contact rated current		220V/0.5A		

Associated disconnectors

Thermal	disconnecter internal
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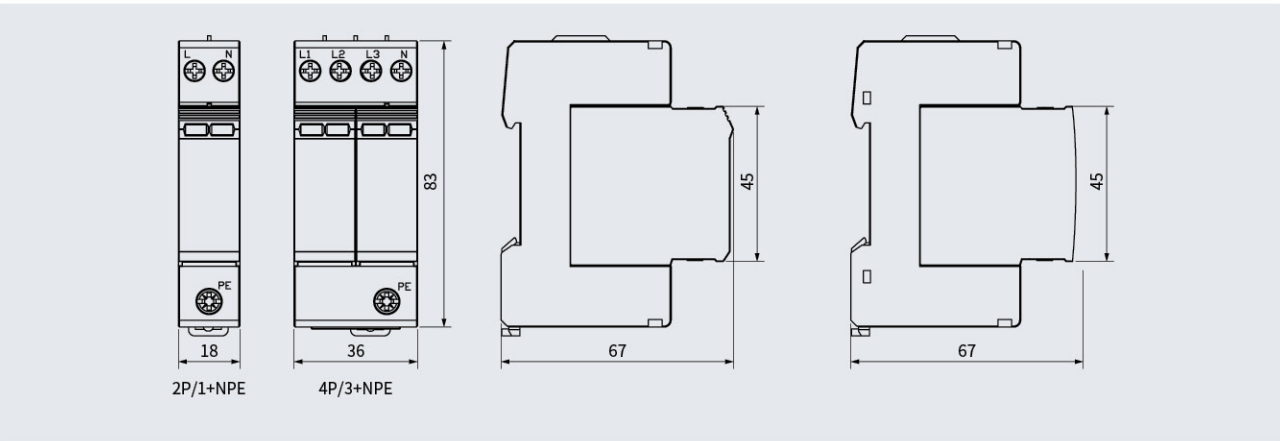
Mechanical characteristics

Connection By screw terminals	4-16 mm ²
Terminal Screw Torque	The upper 1.2Nm, The bottom 2.0 Nm
Recommended Cable cross Section	≥ 10mm ²
Insert wire length	The upper 12mm, The bottom 15mm
Mounting DIN rail	35mm (EN60715)
Degree of Protection	IP20
Housing	PBT/PA
Flame retardant grade	UL94 V0
Operating temperature	-40°C~ +70°C
Operating relative humidity	5%-95%
Working atmospheric pressure	70kPa ~ 106kPa

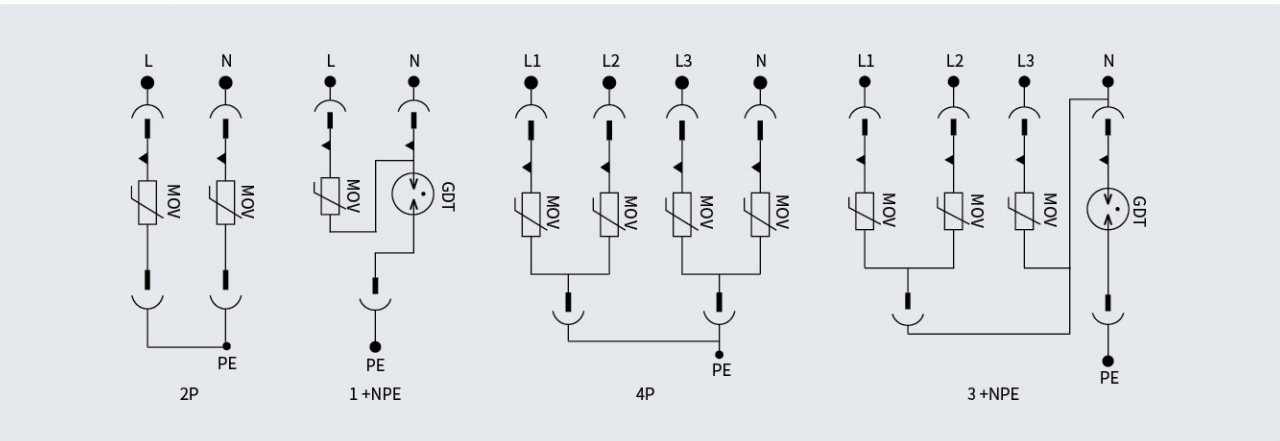
Size

Poles	2P	1+NPE	4P	3+NPE
Size (mm)	18×83×67	18×83×67	36×83×67	36×83×67
Packing	Inner box			
Delivery packaging	Carton or Pallet			

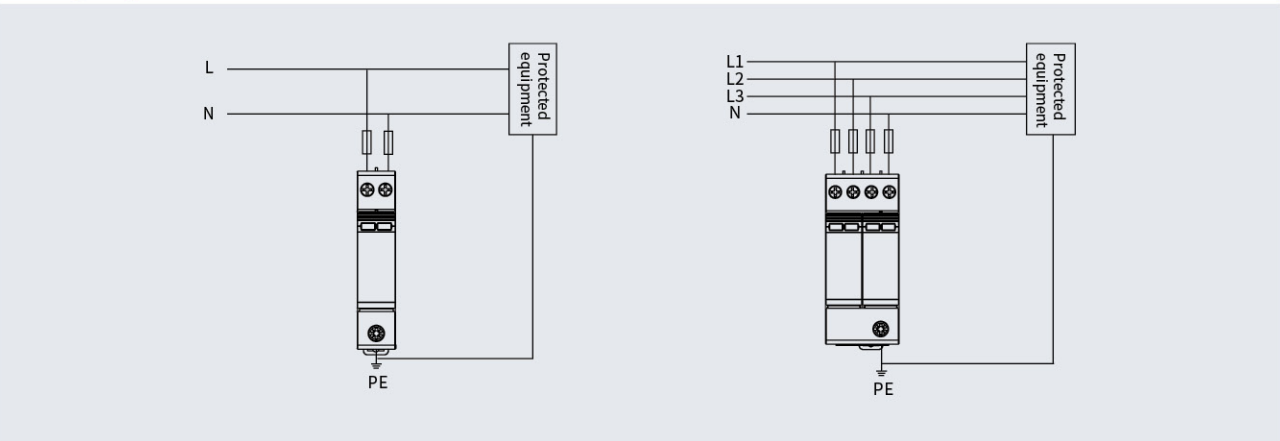
Dimensional drawing



Schematic diagram



Wiring diagram





Surge protective devices

GSP9-C60
GSP9-C80
GSP9-C100
GSP9-C160



Summary

It is mainly used to provide T2 protection for various electronic and electrical equipment in buildings vulnerable to lightning overvoltage. Mainly used as primary protection equipment in the main distribution system.

Characteristic

Location of Use: Distribution cabinet, JP cabinet etc.
Network Systems: TN-S, TN-C, TT
Mode of Protection: L-PE, N-PE , L-PE, L-N
Protective Elements: High Energy MOV

Chinese Standard : GB/T18802.11-2020
IEC standard : IEC 61643-11:2011
European standard : EN 61643-11: 2012
Certificates: TUV, CE, CQC

Technical Data (Type2 (T2) SPD)

Technical Data					
Model number		60	80	100	160
Max Continuous Operating Voltage	Uc(V~)	385/440	385/440	385/440	385/440
Nominal discharge current(8/20μs)	In(kA)	30	40	60	100
Maximum discharge current(8/20μs)	I _{max} (kA)	60	80	100	160
Protection level	Up(kV)	<2.2/2.5	<2.5/3.0	<2.5/3.0	<2.5/3.0
Response time	(ns)	<25	<25	<25	<25
General parameter					
Access wire area	(mm ²)	≥ 10	≥ 16	≥ 16	≥ 16
Access ground cross-sectional area	(mm ²)	≥ 16	≥ 16	≥ 16	≥ 16
SPD Special disconnecter	Recommend	LT-SSD 60	LT-SSD 80	LT-SSD 100	LT-SSD 160
Working environment	-40~+70° C,relative humidity<95%(below 25°C)				
Remote communication connection	14 11:NO, 11 12:NC				

Associated disconnectors

Thermal	disconnecter internal
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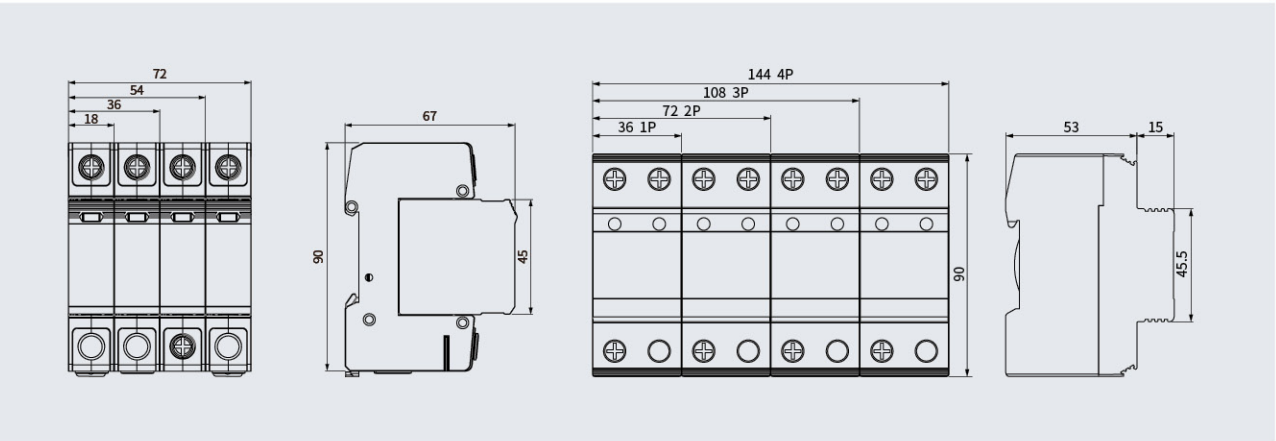
Mechanical characteristics

Connection By screw terminals	6-25 mm ²
Terminal Screw Torque	2.5 Nm
Recommended Cable cross Section	≥ 16mm ²
Insert wire length	15mm
Mounting DIN rail	35mm (EN60715)
Degree of Protection	IP20
Housing	PBT/PA
Flame retardant grade	UL94 V0
Operating temperature	-40°C~ +70°C
Operating relative humidity	5%-95%
Working atmospheric pressure	70kPa ~ 106kPa

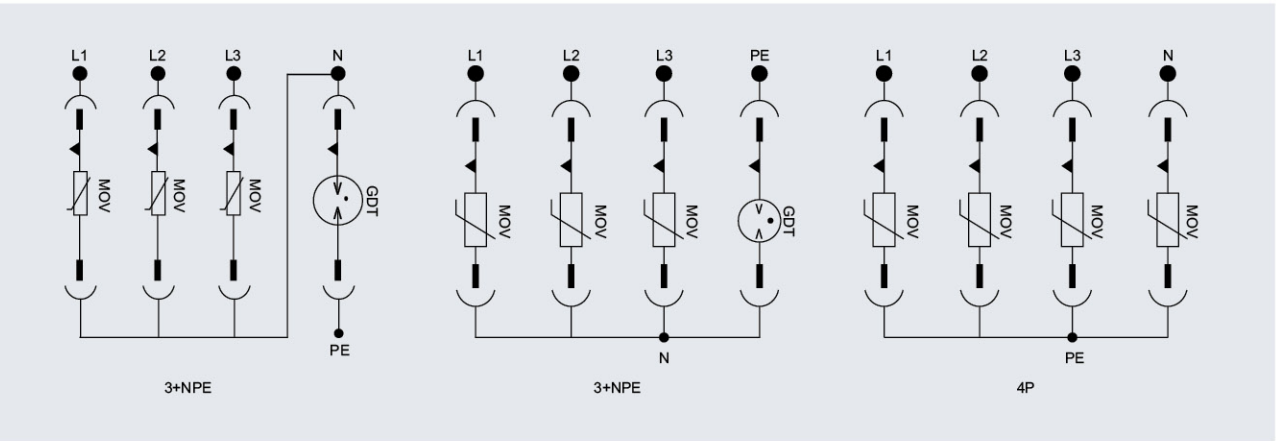
Size

Poles	1P	1+NPE	2P	3P	4P	3+NPE
LT-60 LT-80Size (mm)	18×90×67	36×90×67	36×90*67	54×90×67	72×90×67	72×90×67
LT-100 LT-160Size (mm)	36×90×68	72×90×68	72×90×68	108×90×68	144×90×68	144×90×68
Packing	Inner box					
Delivery packaging	Carton or Pallet					

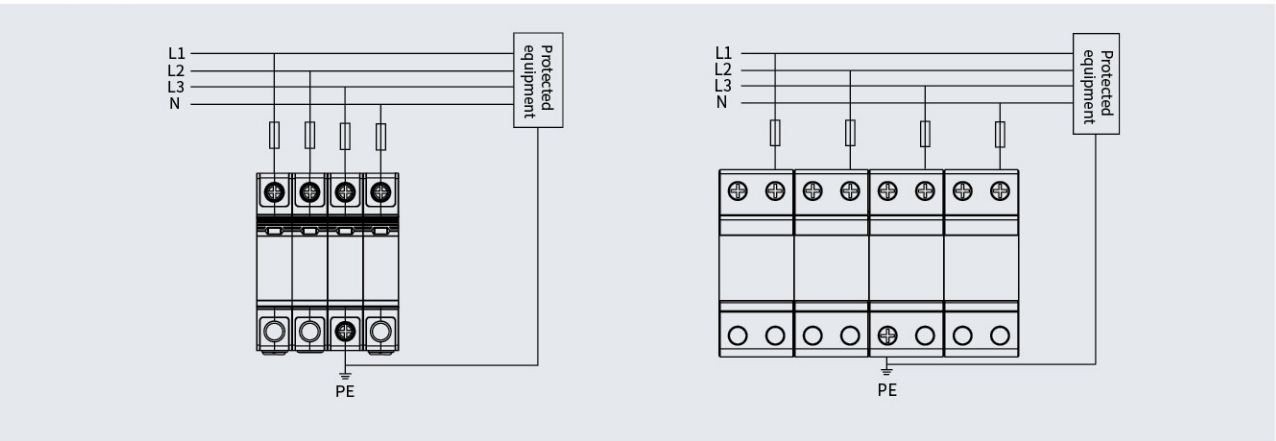
Dimensional drawing



Schematic diagram



Wiring diagram



GEYA

Surge protective devices

GSP9-BC12.5



Summary

The surge protection device belongs to T1+T2+T3 AC power surge protector, which is installed between the power supply network and the equipment, suppress and reduce the overcurrent and overvoltage caused by induced lightning strikes or the power grid system, so as to reduce the harm to the electrical equipment

Characteristic

Location of Use: sub-distribution cabinet, JP cabinet etc.
Network Systems: TN-S, TN-C, TT
Mode of Protection: L-PE, N-PE, L-PEN, L-N
Protective Elements: High Energy MOV

Chinese Standard: GB/T 18802.11-2020
IEC standard: IEC 61643-11: 2011
European standard: EN 61643-11: 2012
Certificates: CE

Technical Data (T1+T2+T3)

Technical Data		L-N			N-PE
Max Continuous Operating Voltage	(AC) Uc	275V	275V	275V	255V
Rated Voltage	(AC) Un	220V	220V	220V	220V
Maximum impact current(T1)	Iimp	6.25kA	8kA	12.5 kA	25kA
Nominal discharge current(T2)	In	20kA	20kA	20kA	25kA
Open circuit voltage(T3)	Uoc	20kV	20kV	20kV	20kV
Protection level	Up	1.25kV	1.25kV	1.25kV	1.5kV
Follow Current Interrupt Rating	I _n	300A	300A	300A	100A
Response Time	t _A	25ns	25ns	25ns	100ns
SPD Special disconnector	Recommend	SSD15X			
TOV	N-PE	1200V			
Residual current-Leakage current at	I _{pe}	NONE			
Remote communication		With			
Remote communication connection		14 11:NO, 11 12:NC			
Remote contact rated current		220V/0.5A			

Associated disconnectors

Thermal	disconnecter internal
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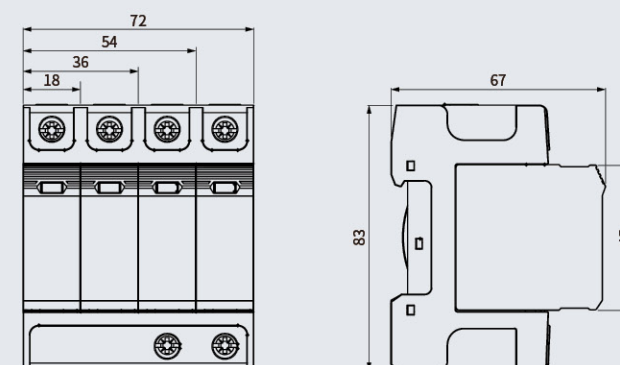
Mechanical characteristics

Connection By screw terminals	6-25 mm ²
Terminal Screw Torque	2.5 Nm
Recommended Cable cross Section	≥ 16mm ²
Insert wire length	15mm
Mounting DIN rail	35mm (EN60715)
Degree of Protection	IP20
Housing	PBT/PA
Flame retardant grade	UL94 V0
Operating temperature	-40°C ~ +70°C
Operating relative humidity	5%-95%
Working atmospheric pressure	70kPa ~ 106kPa

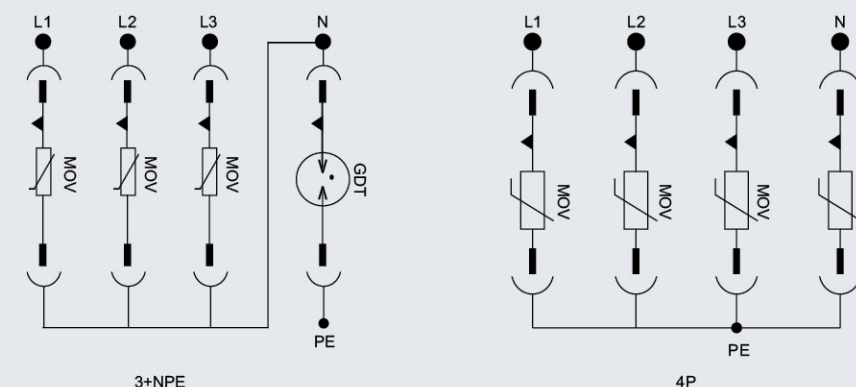
Size

Poles	1P	1+NPE	2P	3P	4P	3+NPE
Size (mm)	18×90×67	36×90×67	36×90×67	54×90×67	72×90×67	72×90×67
Packing	Inner box					
Delivery packaging	Carton or Pallet					

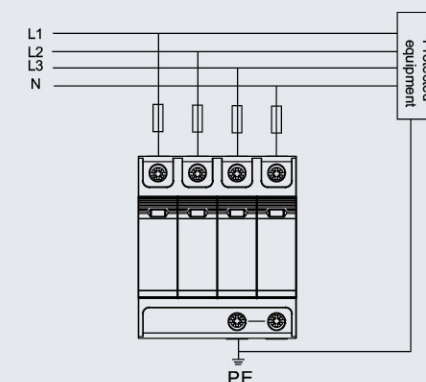
Dimensional drawing



Schematic diagram



Wiring diagram





Surge protective devices

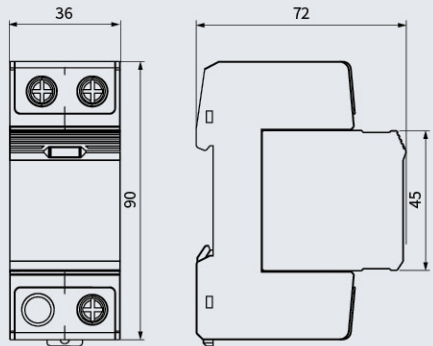
GSP9-BC25
GSP10-BC25
(275V~440V)



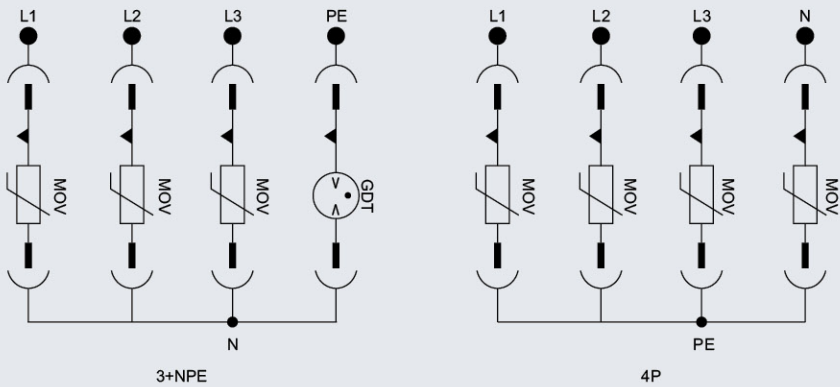
Size

Poles	1P	1+NPE	2P	3P	4P	3+NPE
Size (mm)	36×90×92	72×90×92	72×90×92	108×90×92	144×90×92	144×90×92
Packing	Inner box					
Delivery packaging	Carton or Pallet					

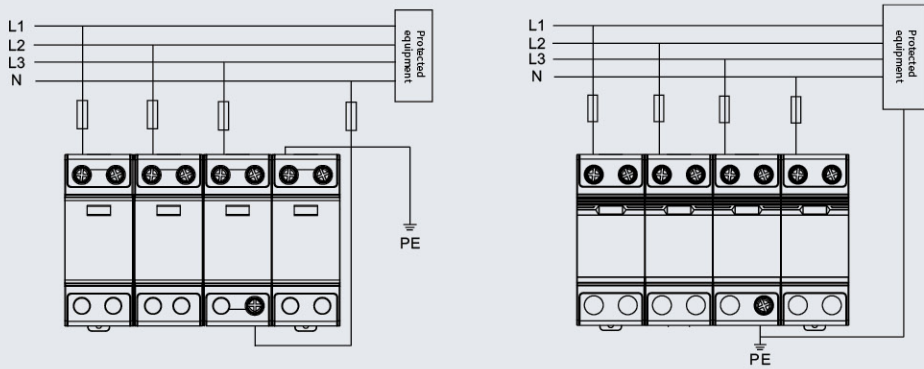
Dimensional drawing



Schematic diagram



Wiring diagram





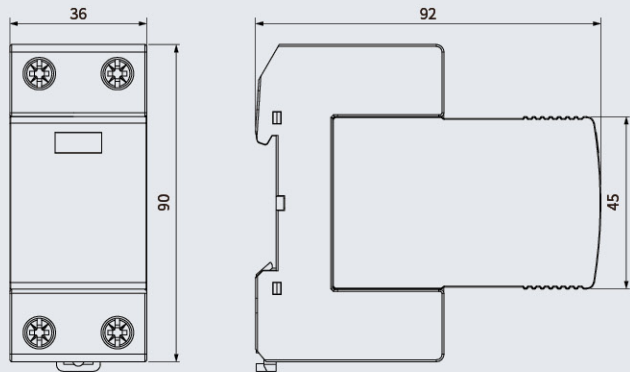
Surge protective devices

GSP9-BC25
GSP10-BC25
(690V~790V)

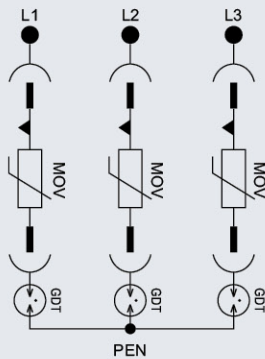


Size				
Poles	1P	2P	3P	4P
Size (mm)	36×90×92	72×90×92	108×90×92	144×90×92
Packing	Inner box			
Delivery packaging	Carton or Pallet			

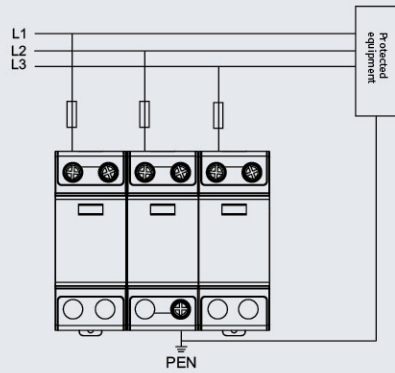
Dimensional drawing



Schematic diagram



Wiring diagram



Summary

The surge protection device belongs to T1+T2 AC power surge protector, which is installed between the power supply network and the equipment, suppress and reduce the overcurrent and overvoltage caused by induced lightning strikes or the power grid system, so as to reduce the harm to the electrical equipment

Characteristic

Location of Use:Main distribution Cabinet, JP cabinet etc.	Chinese Standard:GB/T18802.11-2020
Network Systems:TN-S, TN-C, TT	IEC : IEC 61643-11: 2011
Mode of Protection:L-PE, N-PE , L-PEN, L-N	European standard :EN 61643-11: 2012
Protective Elements:High Energy MOV , Gas Discharge tube	Certificates:CE

Technical Data (Type1+Type 2 (T1+T2))

Technical Data			
Max Continuous Operating Voltage	(AC) Uc	690V	760V
Rated Voltage	(AC) Un	220V	220V
Maximum impact current(T1)	Iimp	25kA	25kA
Nominal discharge current(T2)	In	25/50kA	25/50kA
Maximum discharge current	Imax	50/120kA	50/120kA
Protection level	Up	2.0kV	2.0kV
Response Time	tA	100ns	
SPD Special disconnecter	Recommend	SSD50X	
Residual current-Leakage current at	Ipe	NONE	
Admissible short-circuit current	Iscrr	50000A	
Remote communication		With	
Remote communication connection		14 11:NO, 11 12:NC	
Remote contact rated current		220V/0.5A	

Associated disconnectors	
Thermal	disconnecter internal

Mechanical characteristics	
Connection By screw terminals	6-35 mm ²
Terminal Screw Torque	2.5 Nm
Recommended Cable cross Section	≥ 16mm ²
Insert wire length	15mm
Mounting DIN rail	35mm (EN60715)
Degree of Protection	IP20
Housing	PBT
Flame retardant grade	UL94 V0
Operating temperature	-40°C~ +70°C
Operating relative humidity	5%-95%
Working atmospheric pressure	70kPa ~ 106kPa





Surge protective devices

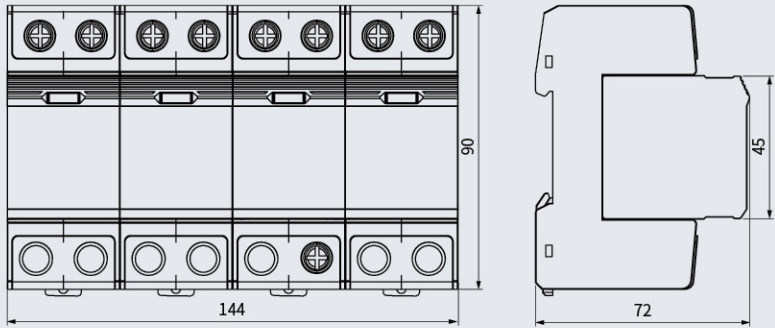
GSP10-B25



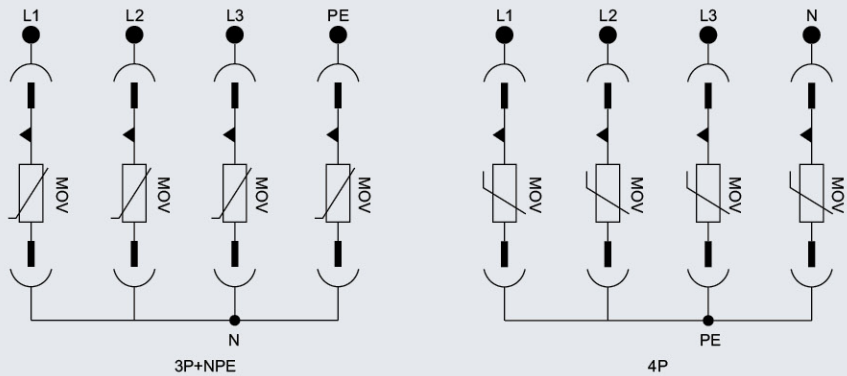
Size

Poles	1P	1+NPE	2P	3P	4P	3+NPE
Size (mm)	36×90×72	72×90×72	72×90×72	108×90×72	144×90×72	144×90×72
Packing	Inner box					
Delivery packaging	Carton or Pallet					

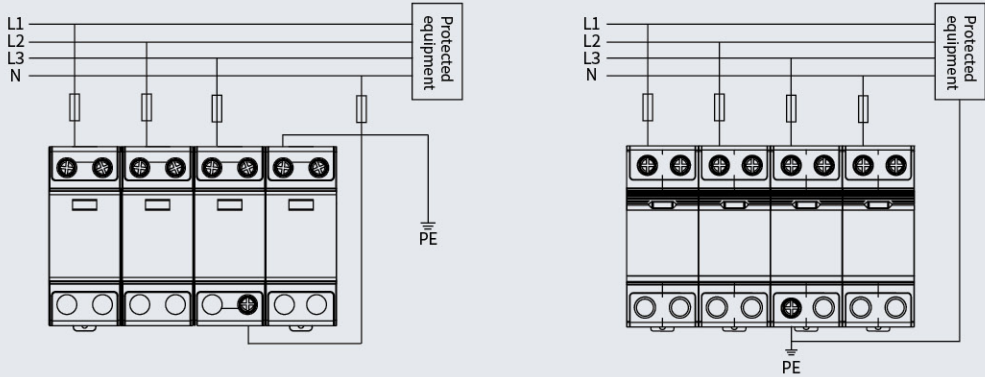
Dimensional drawing



Schematic diagram



Wiring diagram



Summary

The surge protection device belongs to T1 AC power surge protector, which is installed between the power supply network and the equipment, suppress and reduce the overcurrent and overvoltage caused by induced lightning strikes or the power grid system, so as to reduce the harm to the electrical equipment

Characteristic

Location of Use: Main distribution Cabinet, JP cabinet etc.
Network Systems: TN-S, TN-C, TT
Mode of Protection: L-PE, N-PE, L-PEN, L-N
Protective Elements: High Energy MOV

Chinese Standard: GB/T18802.11-2020
IEC : IEC 61643-11: 2011
European standard : EN 61643-11: 2012
Certificates: CE

Technical Data (Type1)

Technical Data					
Max Continuous Operating Voltage	(AC) Uc	275V	320V	385V	440V
Rated Voltage	(AC) Un	220V	220V	220V	220V
Maximum impact current(T1)	Iimp	25kA	25kA	25kA	25kA
Protection level	Up (L-N)	1.4kV	1.6kV	1.8kV	2.0kV
Protection level	(N-PE)	1.6kV	1.6kV	1.6kV	1.6kV
Follow Current Interrupt Rating	I _n	100A(N-PE)			
Response Time	t _A	25ns			
SPD Special disconnector	Recommend	SSD50X			
TOV	N-PE	1200V			
Residual current-Leakage current at	I _{pe}	NONE			
Admissible short-circuit current	I _{sc}	50000A			
Remote communication		With			
Remote communication connection		14 11:NO, 11 12:NC			
Remote contact rated current		220V/0.5A			

Associated disconnectors

Thermal	disconnecter internal
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Mechanical characteristics

Connection By screw terminals	6-35 mm ²
Terminal Screw Torque	2.5 Nm
Recommended Cable cross Section	≥ 16mm ²
Insert wire length	15mm
Mounting DIN rail	35mm (EN60715)
Degree of Protection	IP20
Housing	PBT/PA
Flame retardant grade	UL94 V0
Operating temperature	-40°C~ +70°C
Operating relative humidity	5%-95%
Working atmospheric pressure	70kPa ~ 106kPa

Intelligent remote lightning protection

Schematic diagram of online monitoring system



Usually, accident analysis is mostly based on expert experience. Leitai Lightning Protection takes you into intelligent lightning protection, allowing for remote online monitoring anytime, anywhere.

Through installing terminals, it is possible to accurately collect: front-end SD (or MCB or fuse) status SPD status, lightning strike frequency, lightning strike time, lightning strike peak, grounding resistance value, grounding status, environmental parameters, etc. It can also be remotely controlled.

At the same time, the unique innovative linkage mechanism of Leitai Lightning Protection can introduce the working status of other electrical equipment into the lightning protection monitoring platform, such as smoke alarms, to achieve linkage control.

For example, after installing lightning salt testing terminals on transmission lines and substations, once the lines and substations are invaded by lightning strikes, the system returns the lightning strike data to the monitoring center as soon as possible. After the monitoring center receives the lightning strike information, operation and maintenance personnel can quickly inspect the lightning arresters, insulators, grounding down conductors, and related electrical equipment at the lightning strike location, analyze the causes and hidden dangers of lightning damage, Ensure that power facilities are safer and more effective in subsequent operations.



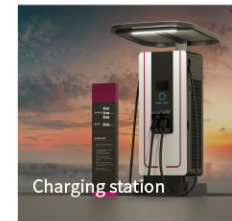
Intelligent community
high-rise buildings



school
Enterprise unit



wind power
Photovoltaic power
generation



Charging station



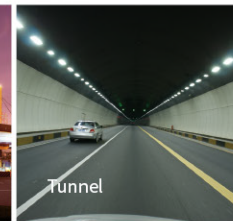
Oil production
Storage



Gas station



Toll station



Tunnel



Service area

SSD Interpretation

- Current situation 1:** Using a circuit breaker, internal inductance causing a significant increase in system residual voltage during lightning strikes. Using circuit breakers or fuses. The rated value is small, and the open circuit system will lose protection during lightning strikes.
- Current situation 2:** Using circuit breakers or fuses. High rated value, continuous opening of low power frequency current, causing fire.

SSD



LT series SSD: surge protector dedicated external (front) disconnecter

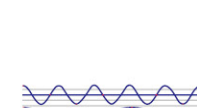
T1 class maximum non tripping impulse current 50kA
T2 maximum non tripping discharge current 160kA
No inductance design, making the residual voltage of the entire protection circuit very low, improving protection performance. When the power frequency tripping current is 3A, the tripping time is less than 0.5s
Remote alarm, which sends a signal immediately after tripping to prompt for closing operation or replacement (optional)

SSD



data transmission

iSPD

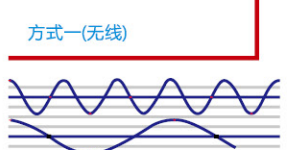


SPD

On site protection

The failure or failure of on-site lightning protection devices, lightning strike frequency, front-end SSD status, grounding peak value, grounding resistance value, temperature, voltage, current and other working parameters, or other on-site electrical equipment voltage, current, pressure, water level, smoke alarms, etc., are collected and transmitted to the upper computer or to the cloud platform through a 4G/5G network

- fast acquisition
- More access
- Extreme speed alarm
- Intelligent push
- statistic analysis



data acquisition

data acquisition

data processing



LAN monitoring



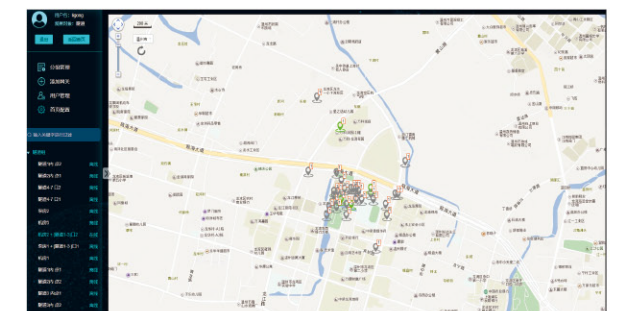
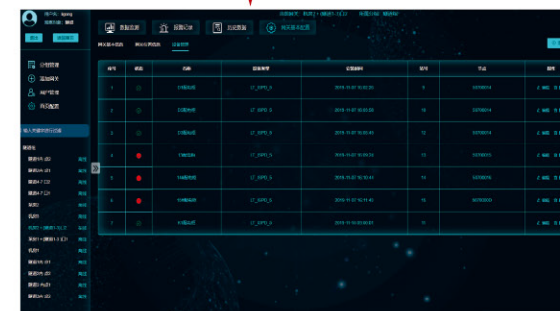
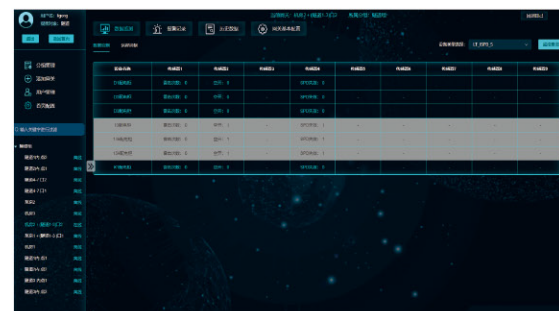
Cloud platform monitoring

4G/5G network gateway



WiFi receive

data processing



client software