



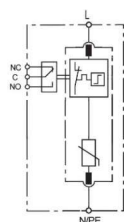
- TUV certified T1+ T2 SPD per IEC/EN 61643-11 standard
- Unique thermal disconnecter design provides quick thermal response and secure disconnection
- Dual module redundancy for one pole and dual indication window
- High lightning current discharge capacity up to 25kA 10/350µs, surge current capability up to 100kA 8/20µs
- High short-circuit current rating up to 50kArms, suitable for most industry and commerce application.
- Anti-vibration module locking system with release button
- Pluggable module for easy replacement without the need to remove system wiring Degradation failure indication and optional remote signal contact

Prosurge's BP25V series are class I and class II pluggable MOV based SPDs, designed for low-voltage power supply system lightning & surge protection, especially for locations of high risk exposure or LPZ 0A-1 building entrances (IEC 62305-4) to against the damage from direct or close lightning strikes.

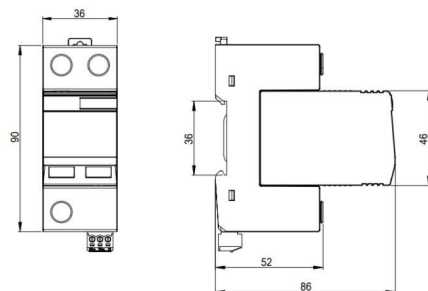
High energy MOVs are employed to provide stable lightning & surge protection service with no follow current, with a lightning current discharge capacity up to 25kA (10/350µs) and short circuit current rating as 50kArms, the BP25V is suit for the main distribution board of low-voltage power supply system. A notable feature of BP25V is dual module redundancy design, two individual MOV protection modules in parallel in one pole SPD with two indication windows, so that the SPD could keep on working in spite of one protection module fails or one indication windows turns to red. That will help to realize the uninterrupted surge protection, since user can replace the failure models according to the timing and the condition.

Part No.	BP25V/xxx(-S)										
	75	150	180	275	320	350	385	440	480	600	750
In accordance with	IEC/EN 61643-11:2011; UL1449 5th										
Category IEC/EU/DE	I+ II /1+2/ B+C										
Nominal voltage (AC) Un	60V	120V	120V	230V	230V	277V	277V	400V	400V	480V	690V
Max. continuous operating voltage(AC) Uc	75V	150V	180V	275V	320V	350V	385V	440V	480V	600V	750V
Nominal discharge current(8/20) In	25kA										
Max. discharge current(8/20) Imax	100kA										
Lightning impulse current (10/350) Iimp	25kA	25kA	25kA	25kA	25kA	25kA	25kA	22kA	22kA	15kA	4kA
Voltage protection level Up	0.6kV	0.8kV	1.0kV	1.2kV	1.4kV	1.5kV	1.8kV	2.0kV	2.2kV	2.5kV	2.8kV
Temporary overvoltage TOV-5 sec Ut withstand mode	90V	174V	228V	335V	335V	403V	403V	580V	580V	700V	870V
Short-circuit current rating Isccr	50 kArms										
Leakage current Ipe	<0.1 mA										
Backup fuse(only required if not already provided in mains)	≤315A gL/gG										
Operating temperature range	-40°C ~ +85°C										
Mounting	35mm DIN-rail										
Degree of protection	IP20										
Thermal disconnecter	Internal Green – normal ; red - failure										
Remote alarm contact type	Isolated Form C										
Switching capability Un / In	AC: 250V/0.5A DC: 250V/0.1A; 125V/0.2A; 75V/0.5A										

■ Basic circuit diagram



■ Dimension drawing (mm)





SPD for AC power supply system

Class I + Class II / Type 1 + Type 2



- TUV certified T1+ T2 SPD per IEC/EN 61643-11 standard.
- Designed for separation and protection between the N and PE conductors
- High energy gas discharge tube technology
- High lightning current discharge capacity up to 100kA 10/350 μs
- High surge current discharge capacity up to 150kA 8/20 μs
- 35mm DIN-rail mounting
- Wide operating temperature -40°C ~85°C

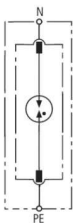


Prosurge's G50(100) NPE series are class I and class II gas discharge tube (GDT) based SPDs, designed for low-voltage power supply system lightning current & surge protection, especially for separation and protection between the N and PE conductors.

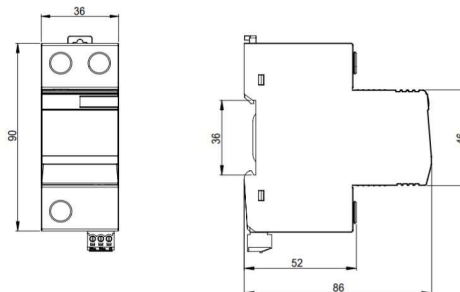
With a lightning discharge capacity up to 50/100kA (10/350μs) and surge discharge capacity up 150kA (8/20μs), G50(100) NPE module fulfill the total discharge current requirement for installation in "1+1" or "3+1" circuit according to standards IEC 60364-4-53/IEC 62305.

Part No.	G50/150NPE	G50/255NPE	G100/150NPE	G100/255NPE
In accordance with	IEC/EN 61643-11:2011; UL1449 5th			
Category IEC/EU/VDE	I+ II /1+2/ B+C			
Max. continuous operating voltage(AC) Uc	150V	255V	150V	255V
Nominal discharge current(8/20) In	50kA		100kA	
Max. discharge current(8/20) I _{max}	100kA		150kA	
Lightning impulse current (10/350) I _{imp}	50kA		100kA	
Voltage protection level Up	1.5kV	1.5kV	1.5kV	1.5kV
Temporary overvoltage TOV-200ms U _T withstand mode	1200V	1200V	1200V	1200V
Follow current & interrupt rating I _{fi}	100Arms			
Operating temperature range	-40 °C ~ +85 °C			
Mounting	35mm DIN-rail			
Enclosure material	Thermoplastic; extinguishing degree UL94 V-0			
Degree of protection	IP20			
Approvals, certifications	TUV, CE			

Basic circuit diagram



Dimension drawing (mm)





Prewired multi-pole SPDs

Part No.	Pole	Protection circuit	Max. operating Voltage	Lightning impulse current(10/350us)	Max. discharge current(8/20 us)	Nominal discharge current(8/20 us)	Voltage protection level	Short-circuit current rating	Diagram
			Uc	Iimp	Imax	In	Up	Iscrr	
BP25V/75(-S)/2P	2	2+0	75Vac	25kA	100kA	25kA	0.6kV	50kA	1
BP25V/150(-S)/2P	2	2+0	150Vac	25kA	100kA	25kA	0.8kV	50kA	1
BP25V/180(-S)/2P	2	2+0	180Vac	25kA	100kA	25kA	1.0kV	50kA	1
BP25V/275(-S)/2P	2	2+0	275Vac	25kA	100kA	25kA	1.2kV	50kA	1
BP25V/320(-S)/2P	2	2+0	320Vac	25kA	100kA	25kA	1.4kV	50kA	1
BP25V/350(-S)/2P	2	2+0	350Vac	25kA	100kA	25kA	1.5kV	50kA	1
BP25V/385(-S)/2P	2	2+0	385Vac	25kA	100kA	25kA	1.8kV	50kA	1
BP25V/440(-S)/2P	2	2+0	440Vac	22kA	100kA	25kA	2.0kV	50kA	1
BP25V/480(-S)/2P	2	2+0	480Vac	22kA	100kA	25kA	2.2kV	50kA	1
BP25V/600(-S)/2P	2	2+0	600Vac	15kA	100kA	25kA	2.5kV	50kA	1
BP25V/750(-S)/2P	2	2+0	750Vac	4kA	100kA	25kA	2.8kV	50kA	1
BP25V/150(-S)/PN50	2	1+1	L-N:150Vac N-PE:150Vac	L-N:25kA N-PE:50kA	L-N:100kA N-PE:100kA	L-N:25kA N-PE:50kA	L-N: 0.8kV N-PE:1.5kV	50kA	2
BP25V/180(-S)/PN50	2	1+1	L-N:180Vac N-PE:150Vac	L-N:25kA N-PE:50kA	L-N:100kA N-PE:100kA	L-N:25kA N-PE:50kA	L-N: 1.0kV N-PE:1.5kV	50kA	2
BP25V/275(-S)/PN50	2	1+1	L-N:275Vac N-PE:255Vac	L-N:25kA N-PE:50kA	L-N:100kA N-PE:100kA	L-N:25kA N-PE:50kA	L-N: 1.2kV N-PE:1.5kV	50kA	2
BP25V/320(-S)/PN50	2	1+1	L-N:320Vac N-PE:255Vac	L-N:25kA N-PE:50kA	L-N:100kA N-PE:100kA	L-N:25kA N-PE:50kA	L-N: 1.4kV N-PE:1.5kV	50kA	2
BP25V/350(-S)/PN50	2	1+1	L-N:350Vac N-PE:255Vac	L-N:25kA N-PE:50kA	L-N:100kA N-PE:100kA	L-N:25kA N-PE:50kA	L-N: 1.5kV N-PE:1.5kV	50kA	2
BP25V/385(-S)/PN50	2	1+1	L-N:385Vac N-PE:255Vac	L-N:25kA N-PE:50kA	L-N:100kA N-PE:100kA	L-N:25kA N-PE:50kA	L-N: 1.8kV N-PE:1.5kV	50kA	2
BP25V/75(-S)/3P	3	3+0	75Vac	25kA	100kA	25kA	0.6kV	50kA	3
BP25V/150(-S)/3P	3	3+0	150Vac	25kA	100kA	25kA	0.8kV	50kA	3
BP25V/180(-S)/3P	3	3+0	180Vac	25kA	100kA	25kA	1.0kV	50kA	3
BP25V/275(-S)/3P	3	3+0	275Vac	25kA	100kA	25kA	1.2kV	50kA	3
BP25V/320(-S)/3P	3	3+0	320Vac	25kA	100kA	25kA	1.4kV	50kA	3
BP25V/350(-S)/3P	3	3+0	350Vac	25kA	100kA	25kA	1.5kV	50kA	3
BP25V/385(-S)/3P	3	3+0	385Vac	25kA	100kA	25kA	1.8kV	50kA	3
BP25V/440(-S)/3P	3	3+0	440Vac	22kA	100kA	25kA	2.0kV	50kA	3
BP25V/480(-S)/3P	3	3+0	480Vac	22kA	100kA	25kA	2.2kV	50kA	3
BP25V/600(-S)/3P	3	3+0	600Vac	15kA	100kA	25kA	2.5kV	50kA	3
BP25V/750(-S)/3P	3	3+0	750Vac	4kA	100kA	25kA	2.8kV	50kA	3
BP25V/75(-S)/4P	4	4+0	75Vac	25kA	100kA	25kA	0.6kV	50kA	4
BP25V/150(-S)/4P	4	4+0	150Vac	25kA	100kA	25kA	0.8kV	50kA	4
BP25V/180(-S)/4P	4	4+0	180Vac	25kA	100kA	25kA	1.0kV	50kA	4
BP25V/275(-S)/4P	4	4+0	275Vac	25kA	100kA	25kA	1.2kV	50kA	4
BP25V/320(-S)/4P	4	4+0	320Vac	25kA	100kA	25kA	1.4kV	50kA	4
BP25V/350(-S)/4P	4	4+0	350Vac	25kA	100kA	25kA	1.5kV	50kA	4
BP25V/385(-S)/4P	4	4+0	385Vac	25kA	100kA	25kA	1.8kV	50kA	4
BP25V/440(-S)/4P	4	4+0	440Vac	22kA	100kA	25kA	2.0kV	50kA	4
BP25V/480(-S)/4P	4	4+0	480Vac	22kA	100kA	25kA	2.2kV	50kA	4
BP25V/600(-S)/4P	4	4+0	600Vac	15kA	100kA	25kA	2.5kV	50kA	4
BP25V/750(-S)/4P	4	4+0	750Vac	4kA	100kA	25kA	2.8kV	50kA	4
BP25V/150(-S)/3PN100	4	3+1	L-N:150Vac N-PE:150Vac	L-N:25kA N-PE:100kA	L-N:100kA N-PE:150kA	L-N:25kA N-PE:100kA	L-N: 0.8kV N-PE:1.5kV	50kA	5



SPD for AC power supply system

Class I + Class II / Type 1 + Type 2

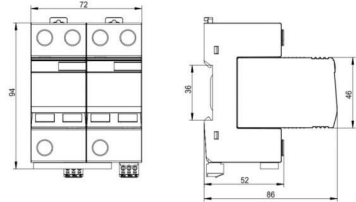
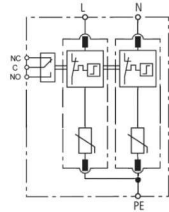


Prewired multi-pole SPDs

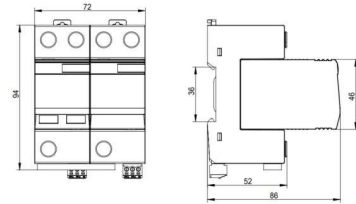
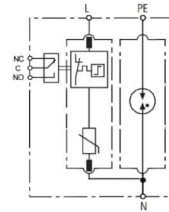
Part No.	Pole	Protection circuit	Max. operating Voltage	Lightning impulse current(10/350us)	Max.discharge current(8/20 us)	Nominal discharge current(8/20 us)	Voltage protection level	Short-circuit current rating	Diagram
			Uc	Iimp	Imax	In	Up	Iscrr	
BP25V/180(-S)3PN100	4	3+1	L-N:180Vac N-PE:150Vac	L-N:25kA N-PE:100kA	L-N:100kA N-PE:150kA	L-N:25kA N-PE:100kA	L-N: 1.0kV N-PE:1.5kV	50kA	5
BP25V/275(-S)3PN100	4	3+1	L-N:275Vac N-PE:255Vac	L-N:25kA N-PE:100kA	L-N:100kA N-PE:150kA	L-N:25kA N-PE:100kA	L-N: 1.2kV N-PE:1.5kV	50kA	5
BP25V/320(-S)3PN100	4	3+1	L-N:320Vac N-PE:255Vac	L-N:25kA N-PE:100kA	L-N:100kA N-PE:150kA	L-N:25kA N-PE:100kA	L-N: 1.4kV N-PE:1.5kV	50kA	5
BP25V/350(-S)3PN100	4	3+1	L-N:350Vac N-PE:255Vac	L-N:25kA N-PE:100kA	L-N:100kA N-PE:150kA	L-N:25kA N-PE:100kA	L-N: 1.5kV N-PE:1.5kV	50kA	5
BP25V/385(-S)3PN100	4	3+1	L-N:385Vac N-PE:255Vac	L-N:25kA N-PE:100kA	L-N:100kA N-PE:150kA	L-N:25kA N-PE:100kA	L-N: 1.8kV N-PE:1.5kV	50kA	5

Diagram	Basic circuit diagram	Dimension drawing
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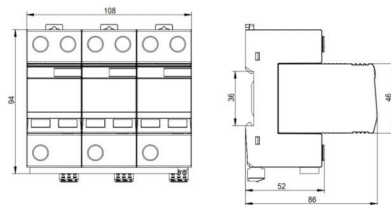
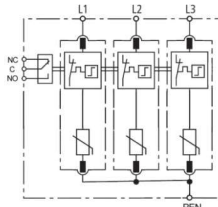
1)2+0



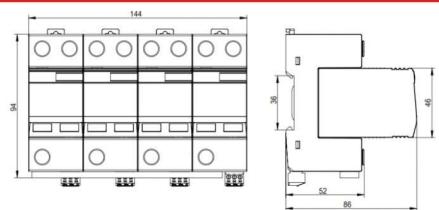
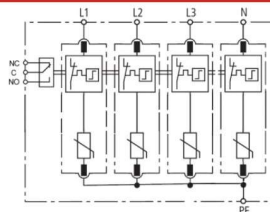
2)1+1



3)3+0



4)4+0



5)3+1

