

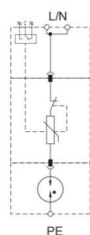


- TUV certified T1+ T2 SPD per IEC/EN 61643-11 standard
- Unique thermal disconnecter design provides quick thermal response and secure disconnection
- Dual module redundancy for one pole and dual failure indication window
- Lightning current capacity up to 25 kA10/350µs, surge current capability up to 100kA 8/20µs
- High short-circuit current rating up to 50kArms, suitable for most industry and commerce application
- Long service life because of no leakage current and follow current
- Better reliability and robustness, Higher TOV (Temporary Over-Voltage) withstanding performance
- Anti-vibration module locking system with release button
- Pluggable module for easy replacement without the need to remove system wiring

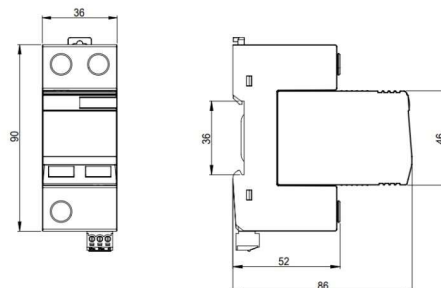
Prosurge's BP25VT series are class I and class II pluggable SPDs, designed for low-voltage power supply system lightning current & surge protection, especially for locations of high risk exposure or LPZ 0A-1 building entrances (IEC 62305-4) to against the damage from direct or close lightning strikes. With built in PROSURGE VT technology, BP25VT features No leakage current and No follow current. It can be applied in most electrical installation to provide better reliability and safety protection, and particularly suitable for system with permanent insulation monitoring. Another prominent feature of BP25VT is higher TOV (temporary over-voltage) resistibility, which makes it can withstand high mains voltage fluctuation, expanded the scope of its application. BP25VT is designed as dual module redundancy, 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.	BP25VT/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/VDE	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	0.7kV	0.8kV	1.0kV	1.2kV	1.4kV	1.6kV	1.8kV	2.0kV	2.2kV	2.5kV
Temporary overvoltage TOV-120 min Ur withstand mode	115V	228V	242V	442V	442V	528V	528V	763V	763V	915V	1145V
Short-circuit current rating Isccr	50 kArms										
Leakage current Ipe	0 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



■ Dimension drawing (mm)





SPD for AC power supply system

Class I + Class II / Type 1 + Type 2



Prewired multi-pole SPDs

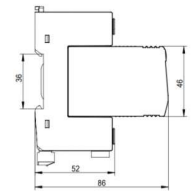
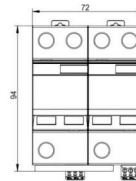
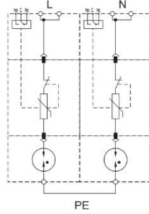
Part No.	Pole	Protection circuit	Max. operating Voltage	Lightning impulse current(10/350us)	Max.discharge current(8/20 us)	Nominal discharge current(8/20 us)	Voltage protection level	Short-circuit current rating	Diagram
			Uc	Iimp	Imax	In	Up	Iscsr	
BP25VT/75(-S)/2P	2	2+0	75Vac	25kA	100kA	25kA	0.6kV	50kA	1
BP25VT/150(-S)/2P	2	2+0	150Vac	25kA	100kA	25kA	0.7kV	50kA	1
BP25VT/180(-S)/2P	2	2+0	180Vac	25kA	100kA	25kA	0.8kV	50kA	1
BP25VT/275(-S)/2P	2	2+0	275Vac	25kA	100kA	25kA	1.0kV	50kA	1
BP25VT/320(-S)/2P	2	2+0	320Vac	25kA	100kA	25kA	1.2kV	50kA	1
BP25VT/350(-S)/2P	2	2+0	350Vac	25kA	100kA	25kA	1.4kV	50kA	1
BP25VT/385(-S)/2P	2	2+0	385Vac	25kA	100kA	25kA	1.6kV	50kA	1
BP25VT/440(-S)/2P	2	2+0	440Vac	22kA	100kA	25kA	1.8kV	50kA	1
BP25VT/480(-S)/2P	2	2+0	480Vac	22kA	100kA	25kA	2.0kV	50kA	1
BP25VT/600(-S)/2P	2	2+0	600Vac	15kA	100kA	25kA	2.2kV	50kA	1
BP25VT/750(-S)/2P	2	2+0	750Vac	4kA	100kA	25kA	2.5kV	50kA	1
BP25VT/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: 0.7kV N-PE:1.5kV	50kA	2
BP25VT/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: 0.8kV N-PE:1.5kV	50kA	2
BP25VT/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: 1.0kV N-PE:1.5kV	50kA	2
BP25VT/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: 1.2kV N-PE:1.5kV	50kA	2
BP25VT/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: 1.4kV N-PE:1.5kV	50kA	2
BP25VT/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: 1.6kV N-PE:1.5kV	50kA	2
BP25VT/75(-S)/3P	3	3+0	75Vac	25kA	100kA	25kA	0.6kV	50kA	3
BP25VT/150(-S)/3P	3	3+0	150Vac	25kA	100kA	25kA	0.7kV	50kA	3
BP25VT/180(-S)/3P	3	3+0	180Vac	25kA	100kA	25kA	0.8kV	50kA	3
BP25VT/275(-S)/3P	3	3+0	275Vac	25kA	100kA	25kA	1.0kV	50kA	3
BP25VT/320(-S)/3P	3	3+0	320Vac	25kA	100kA	25kA	1.2kV	50kA	3
BP25VT/350(-S)/3P	3	3+0	350Vac	25kA	100kA	25kA	1.4kV	50kA	3
BP25VT/385(-S)/3P	3	3+0	385Vac	25kA	100kA	25kA	1.6kV	50kA	3
BP25VT/440(-S)/3P	3	3+0	440Vac	22kA	100kA	25kA	1.8kV	50kA	3
BP25VT/480(-S)/3P	3	3+0	480Vac	22kA	100kA	25kA	2.0kV	50kA	3
BP25VT/600(-S)/3P	3	3+0	600Vac	15kA	100kA	25kA	2.2kV	50kA	3
BP25VT/750(-S)/3P	3	3+0	750Vac	4kA	100kA	25kA	2.5kV	50kA	3
BP25VT/75(-S)/4P	4	4+0	75Vac	25kA	100kA	25kA	0.6kV	50kA	4
BP25VT/150(-S)/4P	4	4+0	150Vac	25kA	100kA	25kA	0.7kV	50kA	4
BP25VT/180(-S)/4P	4	4+0	180Vac	25kA	100kA	25kA	0.8kV	50kA	4
BP25VT/275(-S)/4P	4	4+0	275Vac	25kA	100kA	25kA	1.0kV	50kA	4
BP25VT/320(-S)/4P	4	4+0	320Vac	25kA	100kA	25kA	1.2kV	50kA	4
BP25VT/350(-S)/4P	4	4+0	350Vac	25kA	100kA	25kA	1.4kV	50kA	4
BP25VT/385(-S)/4P	4	4+0	385Vac	25kA	100kA	25kA	1.6kV	50kA	4
BP25VT/440(-S)/4P	4	4+0	440Vac	22kA	100kA	25kA	1.8kV	50kA	4
BP25VT/480(-S)/4P	4	4+0	480Vac	22kA	100kA	25kA	2.0kV	50kA	4
BP25VT/600(-S)/4P	4	4+0	600Vac	15kA	100kA	25kA	2.2kV	50kA	4
BP25VT/750(-S)/4P	4	4+0	750Vac	4kA	100kA	25kA	2.5kV	50kA	4
BP25VT/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: 0.7kV N-PE:1.5kV	50kA	5

Prewired multi-pole SPDs

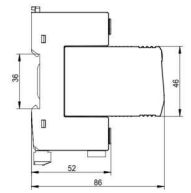
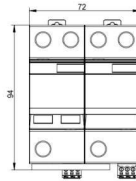
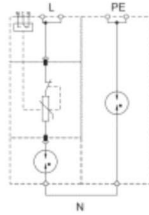
Part No.	Pole	Protection circuit	Max. operating Voltage	Lightning impulse current(10/350us)	Max. discharge current(8/20 us)	Nominal discharge current(8/20 us)	Voltage protection level	Short-circuit current rating	Diagram
			Uc	Iimp	I _{max}	I _n	U _p	I _{sc}	
BP25VT/180(-S)3PN100	4	3+1	L-N:180Vac N-PE:150Vac	L-N:25kA N-PE:100kA	L-N:100kA N-PE:150kA	L-N:25kA N-PE:100kA	L-N: 0.8kV N-PE:1.5kV	50kA	5
BP25VT/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: 1.0kV N-PE:1.5kV	50kA	5
BP25VT/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: 1.2kV N-PE:1.5kV	50kA	5
BP25VT/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: 1.4kV N-PE:1.5kV	50kA	5
BP25VT/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: 1.6kV N-PE:1.5kV	50kA	5

Diagram	Basic circuit diagram	Dimension drawing
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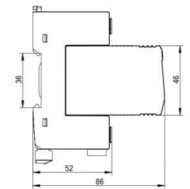
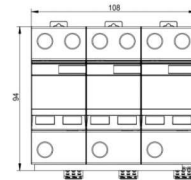
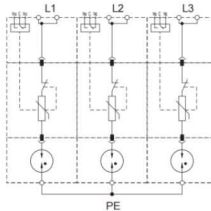
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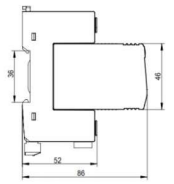
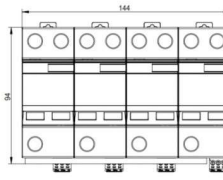
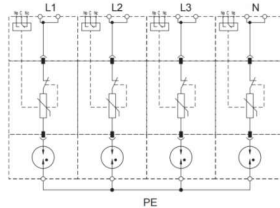
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3)3+0



4)4+0



5)3+1

