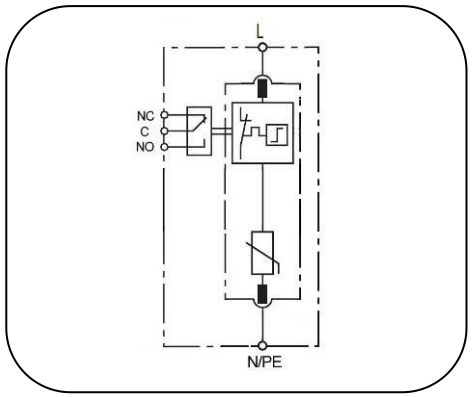
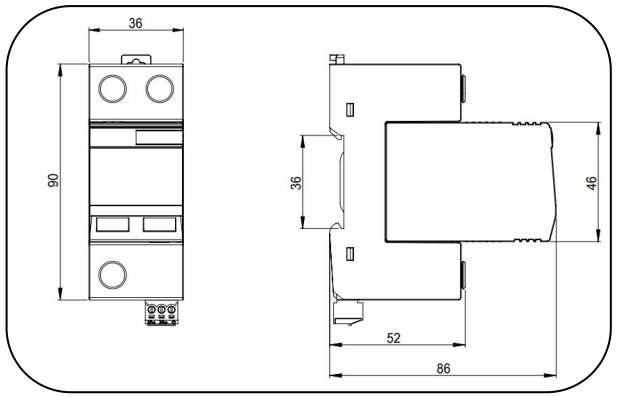
Class I + Class II (T1+T2), Single pole Surge Arrester

BP25V…



Basic circuit diagram



Dimension drawing

The BP25V is class I & class II (or T1+T2) SPD designed for low-voltage power system lightning current & surge protection, especially for location of high risk exposure or LPZ 0-2 building entrances (IEC 62305-4) to against the damage from direct or close lightning strikes.

With built in Safesurge high energy MOV, BP25V ensures remarkable lightning current discharge capacity up to 25kA 10/350μs. The unique design of thermal protection provides quick thermal response and secure disconnection. B25V series are ideal protection for environments with frequent switching operations or lightning strikes.

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 fault or one indication window 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.

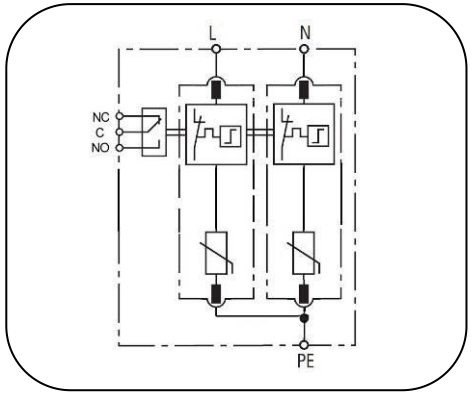
- TUV certified T1+ T2 SPD per IEC/EN 61643-11 standard.
- Single pole SPD for multi-purpose surge protection
- Unique thermal disconnector design provides quick thermal response and secure disconnection
- Dual module redundancy for one pole SPD and dual fault indication window s, with optional remote signal contact.
- 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 application in most AC power systems.
- Pluggable module for easy replacement without the need to remove system wiring.
- Wide operating temperature -40° C ~85° C
- Comply with UL1449 5th, IEEE C62.41,CSA C22.2 standards

Technical data

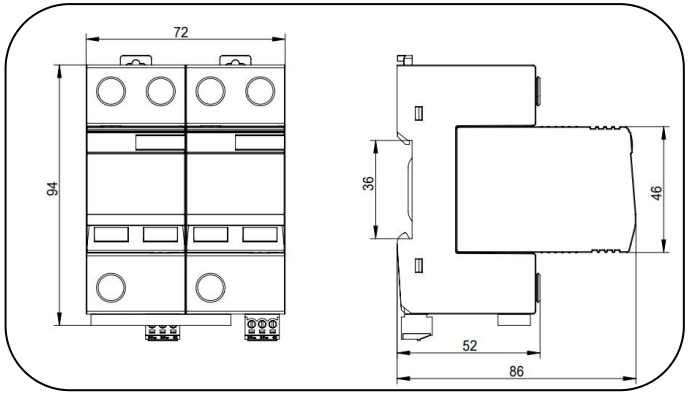
Part No.	BP25V/75(-S)	BP25V/150(-S)	BP25V/180(-S)	BP25V/275(-S)	BP25V/320(-S)	BP25V/350(-S)	BP25V/385(-S)	BP25V/440(-S)	BP25V/480(-S)	BP25V/600(-S)	BP25V/750(-S)
In accordance with	IEC/EN 61643-11:2011; UL1449 5th										
Category IEC/EU/VDE	I+ II /1+2/ B+C										
Protection mode	L-N or L-PE or N-PE										
Nominal Voltage (AC) Un	60V	120V	120V	230V	230V	277V	277V	400V	400V	480V	600V
Power frequency	50/60Hz										
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	25kA	22kA	15kA	12.5kA
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
Response time tA	≤25ns										
Temporary overvoltage TOV U_T Withstand mode	90V/5s	174V/5s	228V/5s	335V/5s	335V/5s	403V/5s	403V/5s	580V/5s	580V/5s	700V/5s	870V/5s
Follow current & interrupt rating Ifi	No										
Leakage current Ipe	<0.1mA										
Short-circuit current rating Isscr	50kArms										
Backup fuse(only required if not already provided in mains)	≤315A gL/gG										
Operating temperature range	-40ºC ~ +85ºC										
Altitude	-500m ~ +4000m										
Cross-section of connection wire (max)	Single-strand 35mm^2; multi-strand 25mm^2										
Mounting	35mm DIN-rail in accordance with EN 50022/DIN46277-3										
Enclosure material	Thermoplastic; extinguishing degree UL94 V-0										
Degree of protection	IP20										
Installation width	2 modules, DIN 43880										
Thermal disconnector	Internal Green – normal ; red - failure										
Remote alarm contact	Optional										
Approvals, Certifications	TUV, CE										
Additional data for Remote Alarm Contacts											
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										
Cross-section of remote signaling wire	Max. 1.5mm^2(or # 16AWG)										

Class I + Class II (T1+T2), Two poles Surge Arresters

BP25V…2P



Basic circuit diagram



Dimension drawing

The BP25V 2P is class I & class II (or T1+T2) prewired two poles SPD designed for low-voltage power system lightning current & surge protection, especially for location of high risk exposure or LPZ 0-2 building entrances (IEC 62305-4) to against the damage from direct or close lightning strikes.

With built in Safesurge high energy MOV, BP25V 2P ensures remarkable lightning current discharge capacity up to 25kA 10/350μs. The unique design of thermal protection provides quick thermal response and secure disconnection. B25V 2P is ideal protection for environments with frequent switching operations or lightning strikes.

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 fault or one indication window 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.

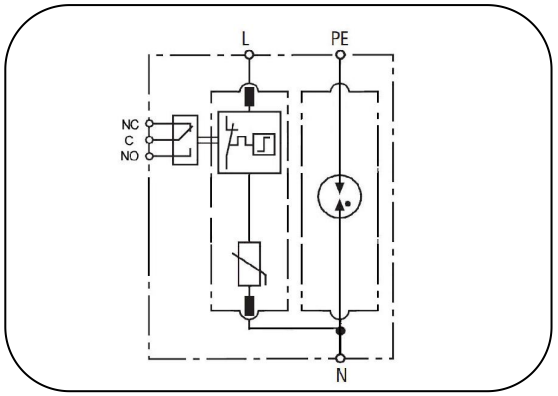
- TUV certified T1+ T2 SPD per IEC/EN 61643-11 standard.
- Prewired two poles SPD (“2+0” circuit) for use in single phase or two phase systems
- Unique thermal disconnector design provides quick thermal response and secure disconnection
- Dual module redundancy for one pole SPD and dual fault indication window s, with optional remote signal contact.
- 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 application in most AC power systems.
- Pluggable module for easy replacement without the need to remove system wiring.
- Wide operating temperature -40^{o} C ~85^{o} C
- Comply with UL1449 5th, IEEE C62.41,CSA C22.2 standards

Technical data

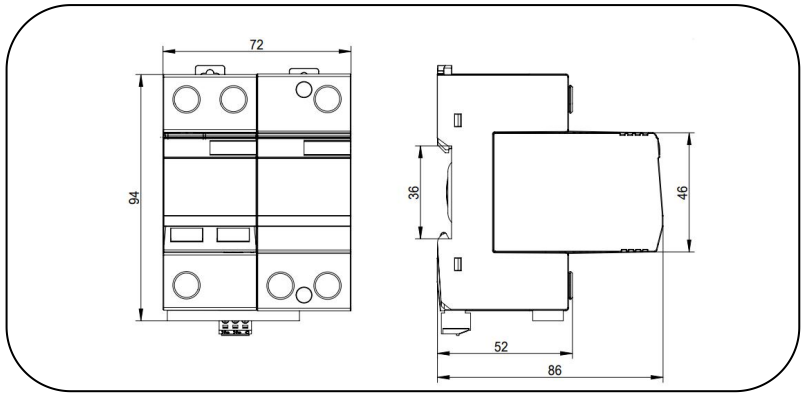
Part No.	BP25V/75(-S)/ 2P	BP25V/150(-S) /2P	BP25V/180(-S) /2P	BP25V/275(-S) /2P	BP25V/320(-S) /2P	BP25V/350(-S) /2P	BP25V/385(-S) /2P	BP25V/440(-S) /2P	BP25V/480(-S) /2P	BP25V/600(-S) /2P	BP25V/750(-S) /2P
In accordance with	IEC/EN 61643-11:2011; UL1449 5th										
Category IEC/EU/VDE	I+ II /1+2/ B+C										
Protection mode	L-PE, N-PE										
Nominal Voltage (AC) Un	60V	120V	120V	230V	230V	277V	277V	400V	400V	480V	600V
Power frequency	50/60Hz										
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	25kA	22kA	15kA	12.5kA
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
Response time tA	≤25ns										
Temporary overvoltage TOV U_T Withstand mode	90V/5s	174V/5s	228V/5s	335V/5s	335V/5s	403V/5s	403V/5s	580V/5s	580V/5s	700V/5s	870V/5s
Follow current & interrupt rating Ifi	No										
Leakage current Ipe	<0.1mA										
Short-circuit current rating Isscr	50kArms										
Backup fuse(only required if not already provided in mains)	≤315A gL/gG										
Operating temperature range	-40ºC ~ +85ºC										
Altitude	-500m ~ +4000m										
Cross-section of connection wire (max)	Single-strand 35mm^2; multi-strand 25mm^2										
Mounting	35mm DIN-rail in accordance with EN 50022/DIN46277-3										
Enclosure material	Thermoplastic; extinguishing degree UL94 V-0										
Degree of protection	IP20										
Installation width	4 modules, DIN 43880										
Thermal disconnector	Internal Green – normal ; red - failure										
Remote alarm contact	Optional										
Approvals, Certifications	TUV, CE										
Additional data for Remote Alarm Contacts											
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										
Cross-section of remote signaling wire	Max. 1.5mm^2(or # 16AWG)										

Class I + Class II (T1+T2), Two poles Surge Arresters

BP25V…PN50



Basic circuit diagram



Dimension drawing

The BP25V PN50 is class I & class II (or T1+T2) prewired two poles SPD designed for low-voltage power system lightning current & surge protection, especially for location of high risk exposure or LPZ 0-2 building entrances (IEC 62305-4) to against the damage from direct or close lightning strikes.

With built in Safesurge high energy MOV and GDT, BP25V PN50 ensures remarkable lightning current discharge capacity up to 25kA 10/350μs (L-N) and 50kA 10/350μs (N-PE). The unique design of thermal protection provides quick thermal response and secure disconnection. B25V PN50 is ideal protection for environments with frequent switching operations or lightning strikes.

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 fault or one indication window 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.

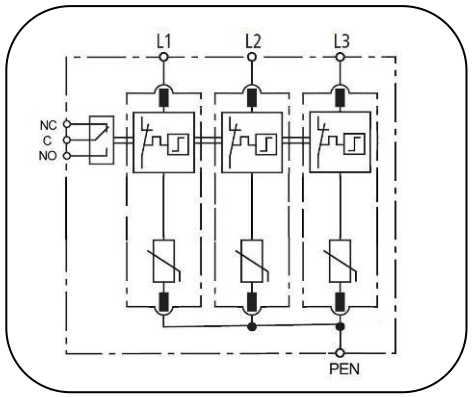
- TUV certified T1+ T2 SPD per IEC/EN 61643-11 standard
- Prewired two poles SPD (“1+1” circuit) for use in single phase
- Unique thermal disconnector design provides quick thermal response and secure disconnection
- Dual module redundancy for one pole SPD and dual fault indication windows, with optional remote signal contact.
- Lightning current capacity up to 25kA10/350μs (L-N), 50kA 10/350μs (N-PE);Surge current capability up to 100kA 8/20 μ s
- High short-circuit current rating up to 50kArms, suitable for application in most AC power systems.
- Pluggable module for easy replacement without the need to remove system wiring.
- Wide operating temperature -40° C ~85° C
- 35mm DIN-rail mounting
- Comply with UL1449 5th, IEEE C62.41,CSA C22.2 standards

Technical data

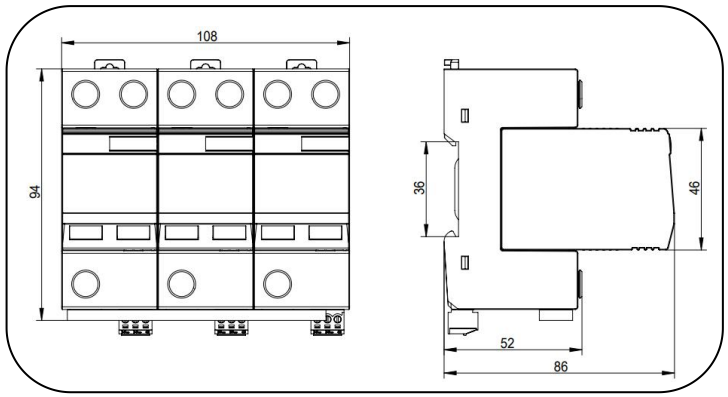
Part No.		BP25V/150(-S)/P N50	BP25V/180(-S)/P N50	BP25V/275(-S)/P N50	BP25V/320(-S)/P N50	BP25V/350(-S)/P N50	BP25V/385(-S)/P N50	BP25V/440(-S)/P N50I	BP25V/440(-S)/P N50
In accordance with		IEC/EN 61643-11:2011; UL1449 5th							
Category IEC/EU/VDE		I+ II /1+2/ B+C							
Protection mode		L-N ,N-PE							
Max. continuous operating voltage(AC) Uc	L-N	150V	180V	275V	320V	350V	385V	440V	440V
	N-PE	150V	150V	255V	255V	255V	255V	255V	440V
Nominal discharge current (8/20) In	L-N	25kA							
	N-PE	50kA							
Max. discharge current (8/20)] Imax	L-N	100kA							
	N-PE	100kA							
Lightning impulse current (10/350) Iimp	L-N	25kA	25kA	25kA	25kA	25kA	25kA	25kA	25kA
	N-PE	50kA	50kA	50kA	50kA	50kA	50kA	50kA	50kA
Voltage protection level Up	L-N	0.8kV	1.0kV	1.2kV	1.4kV	1.5kV	1.8kV	2.0kV	2.0kV
	N-PE	1.5kV	1.5kV	1.5kV	1.5kV	1.5kV	1.5kV	1.5kV	2.0kV
Response time tA		L-N≤25ns; N-PE ≤100ns							
Temporary overvoltage TOV U_T Withstand mode	L-N	174V/5s	228V/5s	335V/5s	335V/5s	403V/5s	403V/5s	580V/5s	580V/5s
	N-PE	1200V/200ms							
Follow current & interrupt rating Ifi	N-PE	100A							
Leakage current Ipe		<0.1mA							
Short-circuit current rating Isscr		50kArms							
Backup fuse(only required if not already provided in mains)		≤315A gL/gG							
Operating temperature range		-40ºC ~ +85ºC							
Altitude		-500m ~ +4000m							
Cross-section of connection wire (max)		Single-strand 35mm^2; multi-strand 25mm^2							
Mounting		35mm DIN-rail in accordance with EN 50022/DIN46277-3							
Enclosure material		Thermoplastic; extinguishing degree UL94 V-0							
Degree of protection		IP20							
Installation width		4 modules, DIN 43880							
Thermal disconnector		Internal Green – normal ; red - failure							
Remote alarm contact		Optional							
Approvals, Certifications		TUV, CE							
Additional data for Remote Alarm Contacts									
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							
Cross-section of remote signaling wire (max)		1.5mm^2(or # 16AWG)							

Class I + Class II (T1+T2), Three poles Surge Arresters

BP25V…3P



Basic circuit diagram



Dimension drawing

The BP25V 3P is class I & class II (or T1+T2) prewired three poles SPD designed for low-voltage power system lightning current & surge protection, especially for location of high risk exposure or LPZ 0-2 building entrances (IEC 62305-4) to against the damage from direct or close lightning strikes.

With built in Safesurge high energy MOV, BP25V 3P ensures remarkable lightning current discharge capacity up to 25kA 10/350μs. The unique design of thermal protection provides quick thermal response and secure disconnection. B25V 3P is ideal protection for environments with frequent switching operations or lightning strikes.

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 fault or one indication window 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.

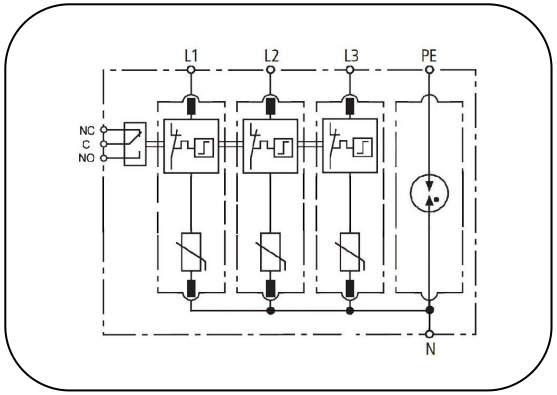
- TUV certified T1+ T2 SPD per IEC/EN 61643-11 standard.
- Prewired three poles SPD (“3+0” circuit) for use in three phase IT / TN-C systems
- Unique thermal disconnector design provides quick thermal response and secure disconnection
- Dual module redundancy for one pole SPD and dual fault indication windows, with optional remote signal contact.
- 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 application in most AC power systems.
- Degradation failure indication and optional remote signal contact.
- Pluggable module for easy replacement without the need to remove system wiring.
- Wide operating temperature -40° C ~85° C
- Comply with UL1449 5th, IEEE C62.41,CSA C22.2 standards

Technical data

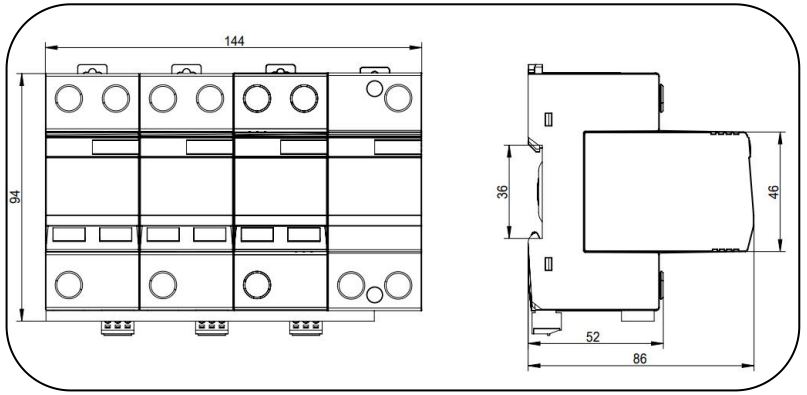
Part No.	BP25V/75(-S)/ 3P	BP25V/150(-S) /3P	BP25V/180(-S) /3P	BP25V/275(-S) /3P	BP25V/320(-S) /3P	BP25V/350(-S) /3P	BP25V/385 (-S) /3P	BP25V/440(-S) /3P	BP25V/480(-S) /3P	BP25V/600(-S) /3P	BP25V/750(-S) /3P
In accordance with	IEC/EN 61643-11:2011; UL1449 5th										
Category IEC/EU/VDE	I+ II /1+2/ B+C										
Protection mode	L-PE										
Nominal Voltage (AC) Un	60V	120V	120V	230V	230V	277V	277V	400V	400V	480V	600V
Power frequency	50/60Hz										
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	25kA	22kA	15kA	12.5kA
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
Response time tA	≤25ns										
Temporary overvoltage TOV U_T Withstand mode	90V/5s	174V/5s	228V/5s	335V/5s	335V/5s	403V/5s	403V/5s	580V/5s	580V/5s	700V/5s	870V/5s
Follow current & interrupt rating Ifi	No										
Leakage current Ipe	<0.1mA										
Short-circuit current rating Isscr	50kArms										
Backup fuse(only required if not already provided in mains)	≤315A gL/gG										
Operating temperature range	-40ºC ~ +85ºC										
Altitude	-500m ~ +4000m										
Cross-section of connection wire (max)	Single-strand 35mm^2; multi-strand 25mm^2										
Mounting	35mm DIN-rail in accordance with EN 50022/DIN46277-3										
Enclosure material	Thermoplastic; extinguishing degree UL94 V-0										
Degree of protection	IP20										
Installation width	6 modules, DIN 43880										
Thermal disconnector	Internal Green – normal ; red - failure										
Remote alarm contact	Optional										
Approvals, Certifications	TUV, CE										
Additional data for Remote Alarm Contacts											
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										
Cross-section of remote signaling wire	Max. 1.5mm^2(or # 16AWG)										

Class I + Class II (T1+T2), Four poles Surge Arresters

BP25V…3PN100



Basic circuit diagram



Dimension drawing

The BP25V 3PN100 is class I & class II (or T1+T2) prewired four poles SPD designed for low-voltage power system lightning current & surge protection, especially for location of high risk exposure or LPZ 0-2 building entrances (IEC 62305-4) to against the damage from direct or close lightning strikes.

With built in Safesurge high energy MOV and GDT, BP25V 3PN100 ensures remarkable lightning current discharge capacity up to 25kA 10/350μs (L-N) and 100kA 10/350μs (N-PE).

The unique design of thermal protection provides quick thermal response and secure disconnection. B25V 3PN100 is ideal protection for environments with frequent switching operations or lightning strikes.

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 fault or one indication window 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

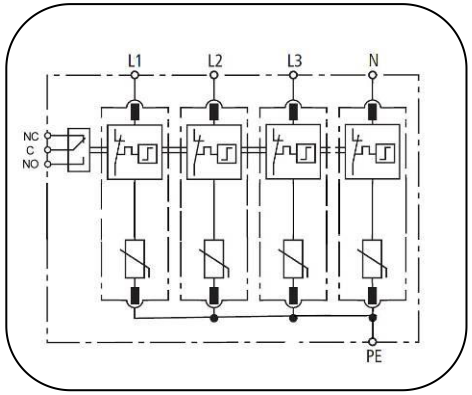
- TUV certified T1+ T2 SPD per IEC/EN 61643-11 standard
- Prewired four poles SPD (“3+1” circuit) for use in three phase TN/TT systems
- Unique thermal disconnector design provides quick thermal response and secure disconnection
- Dual module redundancy for one pole SPD and dual fault indication windows, with optional remote signal contact.
- Lightning current capacity up to 25kA10/350μs (L-N), 100kA 10/350μs (N-PE); Surge current capability up to 100kA 8/20μs (L-N), 150kA 8/20μs (N-PE)
- High short-circuit current rating up to 50kArms, suitable for application in most AC power systems.
- Pluggable module for easy replacement without the need to remove system wiring.
- Wide operating temperature -40° C ~85° C
- 35mm DIN-rail mounting
- Comply with UL1449 5th, IEEE C62.41,CSA C22.2 standards

Technical data

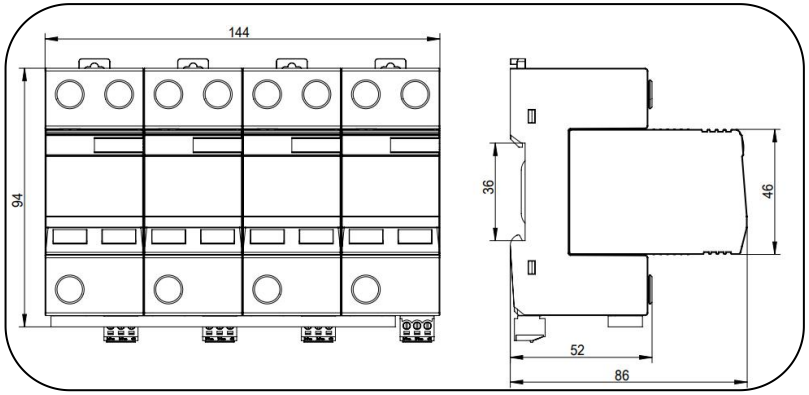
Part No.		BP25V/150(-S)/3 PN100	BP25V/180(-S)/3 PN100	BP25V/275(-S)/3 PN100	BP25V/320(-S)/3 PN100	BP25V/350(-S)/3 PN100	BP25V/385(-S)/3 PN100	BP25V/440(-S)/3 PN100I	BP25V/440(-S)/3P N100
In accordance with		IEC/EN 61643-11:2011; UL1449 5th							
Category IEC/EU/VDE		I+ II /1+2/ B+C							
Protection mode		L-N ,N-PE							
Max. continuous operating voltage(AC) Uc	L-N	150V	180V	275V	320V	350V	385V	440V	440V
	N-PE	150V	150V	255V	255V	255V	255V	255V	440V
Nominal discharge current (8/20) In	L-N	25kA							
	N-PE	100kA							
Max. discharge current (8/20) Imax	L-N	100kA							
	N-PE	150kA							
Lightning impulse current (10/350) Iimp	L-N	25kA	25kA	25kA	25kA	25kA	25kA	25kA	25kA
	N-PE	100kA	100kA	100kA	100kA	100kA	100kA	100kA	100kA
Voltage protection level Up	L-N	0.8kV	1.0kV	1.2kV	1.4kV	1.5kV	1.8kV	2.0kV	2.0kV
	N-PE	1.5kV	1.5kV	1.5kV	1.5kV	1.5kV	1.5kV	1.5kV	2.0kV
Response time tA		L-N≤25ns; N-PE ≤100ns							
Temporary overvoltage TOV U_T Withstand mode	L-N	174V/5s	228V/5s	335V/5s	335V/5s	403V/5s	403V/5s	580V/5s	580V/5s
	N-PE	1200V/200ms							
Follow current & interrupt rating Ifi	N-PE	100A							
Leakage current Ipe		<0.1mA							
Short-circuit current rating Isscr		50kArms							
Backup fuse(only required if not already provided in mains)		≤315A gL/gG							
Operating temperature range		-40ºC ~ +85ºC							
Altitude		-500m ~ +4000m							
Cross-section of connection wire (max)		Single-strand 35mm^2; multi-strand 25mm^2							
Mounting		35mm DIN-rail in accordance with EN 50022/DIN46277-3							
Enclosure material		Thermoplastic; extinguishing degree UL94 V-0							
Degree of protection		IP20							
Installation width		8 modules, DIN 43880							
Thermal disconnector		Internal Green – normal ; red - failure							
Remote alarm contact		Optional							
Approvals, Certifications		TUV, CE							
Additional data for Remote Alarm Contacts									
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							
Cross-section of remote signaling wire (max)		1.5mm^2(or # 16AWG)							

Class I + Class II (T1+T2), Four poles Surge Arresters

BP25V…4P



Basic circuit diagram



Dimension drawing

The BP25V 4P is class I & class II (or T1+T2) prewired four poles SPD designed for low-voltage power system lightning current & surge protection, especially for location of high risk exposure or LPZ 0-2 building entrances (IEC 62305-4) to against the damage from direct or close lightning strikes.

With built in Safesurge high energy MOV, BP25V 4P ensures remarkable lightning current discharge capacity up to 25kA 10/350μs. The unique design of thermal protection provides quick thermal response and secure disconnection. B25V 4P is ideal protection for environments with frequent switching operations or lightning strikes.

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 fault or one indication window 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.

- TUV certified T1+ T2 SPD per IEC/EN 61643-11 standard.
- Prewired three poles SPD (“4+0” circuit) for use in three phase TN / TT systems.
- Unique thermal disconnector design provides quick thermal response and secure disconnection
- Dual module redundancy for one pole SPD and dual fault indication window s, with optional remote signal contact.
- 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 application in most AC power systems.
- Pluggable module for easy replacement without the need to remove system wiring.
- Wide operating temperature -40° C ~85° C
- Comply with UL1449 5th, IEEE C62.41,CSA C22.2 standards

Technical data

Part No.	BP25V/75(-S)/4P	BP25V/150(-S)/4P	BP25V/180(-S)/4P	BP25V/275(-S)/4P	BP25V/320(-S)/4P	BP25V/350(-S)/4P	BP25V/385(-S)/4P	BP25V/440(-S)/4P	BP25V/480(-S)/4P	BP25V/600(-S)/4P	BP25V/750(-S)/4P
In accordance with	IEC/EN 61643-11:2011; UL1449 5th										
Category IEC/EU/VDE	I+ II /1+2/ B+C										
Protection mode	L-PE, N-PE										
Nominal Voltage (AC) Un	60V	120V	120V	230V	230V	277V	277V	400V	400V	480V	600V
Power frequency	50/60Hz										
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	25kA	22kA	15kA	12.5kA
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
Response time tA	≤25ns										
Temporary overvoltage TOV U_T Withstand mode	90V/5s	174V/5s	228V/5s	335V/5s	335V/5s	403V/5s	403V/5s	580V/5s	580V/5s	700V/5s	870V/5s
Follow current & interrupt rating Ifi	No										
Leakage current Ipe	<0.1mA										
Short-circuit current rating Isscr	50kArms										
Backup fuse(only required if not already provided in mains)	≤315A gL/gG										
Operating temperature range	-40ºC ~ +85ºC										
Altitude	-500m ~ +4000m										
Cross-section of connection wire (max)	Single-strand 35mm^2; multi-strand 25mm^2										
Mounting	35mm DIN-rail in accordance with EN 50022/DIN46277-3										
Enclosure material	Thermoplastic; extinguishing degree UL94 V-0										
Degree of protection	IP20										
Installation width	8 modules, DIN 43880										
Thermal disconnector	Internal Green – normal ; red - failure										
Remote alarm contact	Optional										
Approvals, Certifications	TUV, CE										
Additional data for Remote Alarm Contacts											
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										
Cross-section of remote signaling wire	Max. 1.5mm^2(or # 16AWG)										