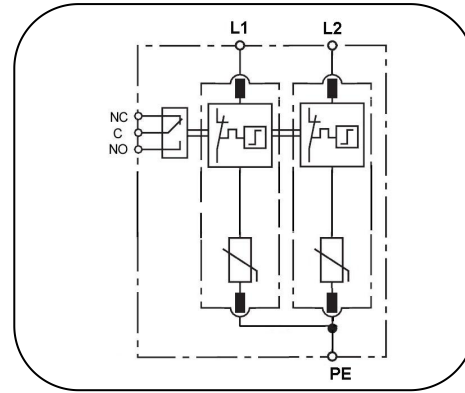
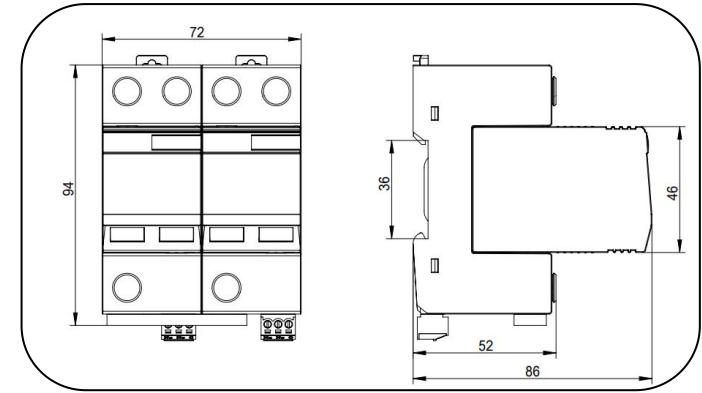


**Class I + Class II (T1+T2), Two poles Surge Arresters**

**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 PROSURGE 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 disconnecter 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 5<sup>th</sup>, IEEE C62.41,CSA C22.2 standards

## POWER SUPPLY SYSTEM

### Technical data

Part No.	<b>BP25V/180-S/2P</b>
In accordance with	IEC/EN 61643-11:2011; UL1449 5 <sup>th</sup>
Category IEC/EU/VDE	I+ II /1+2/ B+C
Protection mode	L-PE, N-PE
Nominal Voltage (AC) $U_n$	120V
Power frequency	50/60Hz
Max. continuous operating voltage(AC) $U_c$	180V
Nominal discharge current (8/20) $I_n$	25kA
Max. discharge current (8/20) $I_{max}$	100kA
Lightning impulse current (10/350) $I_{imp}$	25kA
Voltage protection level $U_p$	1.0kV
Response time $t_A$	$\leq 25ns$
Temporary overvoltage TOV $U_T$ Withstand mode	228V/5s
Follow current & interrupt rating $I_{fi}$	No
Leakage current $I_{pe}$	$< 0.1mA$
Short-circuit current rating $I_{sscr}$	50kArms
Backup fuse(only required if not already provided in mains)	$\leq 315A$ gL/gG
Operating temperature range	-40°C ~ +85°C
Altitude	-500m ~ +4000m
Cross-section of connection wire (max)	Single-strand 35mm <sup>2</sup> ; multi-strand 25mm <sup>2</sup>
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 disconnecter	Internal Green – normal ; red - failure
Remote alarm contact	Yes
Approvals, Certifications	TUV, CE
Additional data for Remote Alarm Contacts	
Remote alarm contact type	Isolated Form C
Switching capability $U_n/I_n$	AC: 250V/0.5A DC: 250V/0.1A; 125V/0.2A; 75V/0.5A
Cross-section of remote signaling wire	Max. 1.5mm <sup>2</sup> (or # 16AWG)