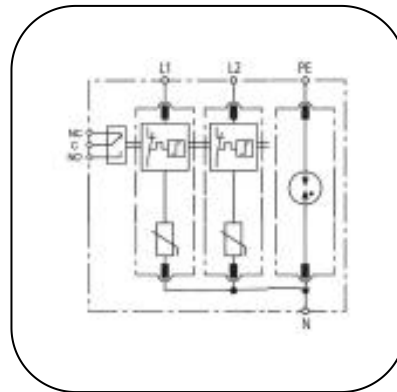
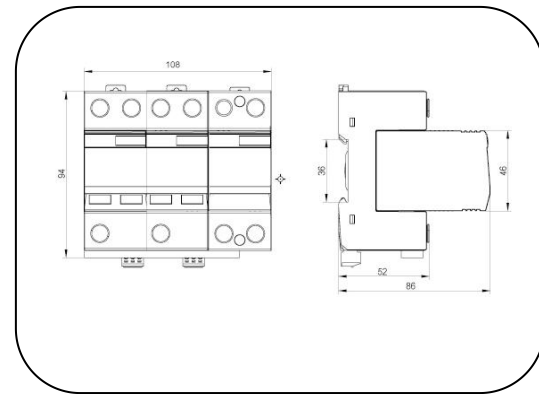


Class I + Class II, Two poles Surge Arresters
BP25V/...-PN50


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

- TUV certified T1+ T2 SPD per IEC/EN 61643-11 standard
- Unique thermal disconnecter design provides quick thermal response and secure disconnection
- Lightning current capacity up to 25kA10/350 μ s(L-N), 50kA 10/350 μ s(N-PE)
- Surge current capability up to 100kA 8/20 μ s
- Low voltage protection level
- 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
- 35mm DIN-rail mounting
- Comply with UL1449 5th, IEEE C62.41,CSA C22.2 standards

POWER SUPPLY SYSTEM

Technical data

Part No.		BP25V/180-S/2PN50	
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	
Nominal Voltage (AC) U_n		115V/230V	
Power frequency		50/60Hz	
Max. continuous operating voltage(AC) U_c	L-N	180V	
	N-PE	150V	
Nominal discharge current(8/20) I_n	L-N	25kA	
	N-PE	50kA	
Max. discharge current(8/20) I_{max}		100kA	
Lightning impulse current (10/350) I_{imp}	L-N	25kA	
	N-PE	50kA	
Voltage protection level U_p	L-N	1.0kV	
	N-PE	1.5kV	
Response time t_A	L-N	≤ 25 ns	
	N-PE	≤ 100 ns	
Temporary overvoltage TOV U_T Withstand mode	L-N	228V/5s	
	N-PE	1200V/200ms	
Follow current & interrupt rating I_{fi}		N-PE 100A	
Leakage current I_{pe}		< 0.1 mA	
Short-circuit current rating I_{sscr}		50kArms	
Backup fuse(only required if not already provided in mains)		≤ 315 A gL/gG	
Operating temperature range		$-40^\circ\text{C} \sim +85^\circ\text{C}$	
Altitude		$-500\text{m} \sim +4000\text{m}$	
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 module, 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 ² (or # 16AWG)	