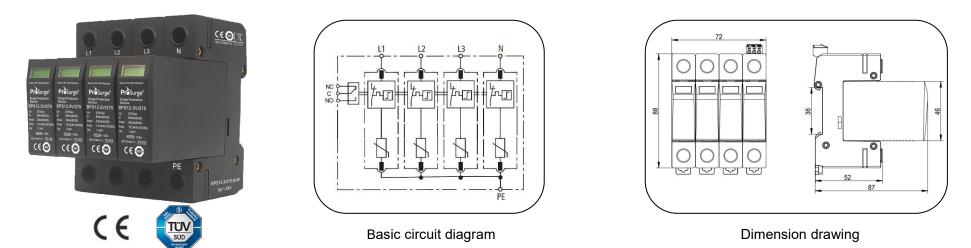
#### **POWER SUPPLY SYSTEM**



# Class I + Class II, Four poles Surge Arresters

## BPS12.5V...4P



The BPS12.5V 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 PROSURGE high energy MOV, BPS12.5V 4P ensures remarkable lightning current discharge capacity up to 12.5kA 10/350µs. The unique design of thermal protection provides quick thermal response and secure disconnection. BPS12.5V 4P is ideal protection for environments with frequent switching operations or lightning strikes.

- 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.
- 18mm narrow model design, pluggable module for easy replacement without the need to remove system wiring.
- Unique thermal disconnector design provides quick thermal response and secure disconnection
- Lightning current capacity up to 12.5kA10/350  $\mu$  s
- Surge current capability up to 80kA 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.
- Wide operating temperature -40° C ~85° C
- 35mm DIN-rail mounting
- Comply with UL1449 5<sup>th</sup>, IEEE C62.41,CSA C22.2 standards

#### www.prosurge .com



### POWER SUPPLY SYSTEM

Technical data												
Part No.	BPS12.5V/75(- S)/4P	BPS12.5V/150 (-S)/4P	BPS12.5V/180 (-S)/4P	BPS12.5V/275 (-S)/4P	BPS12.5V/320 (-S)/4P	BPS12.5V/350 (-S)/4P	BPS12.5V/385 (-S)/4P	BPS12.5V/440 (-S)/4P	BPS12.5V/480 (-S)/4P	BPS12.5V/600 (-S)/4P	BPS12.5V/75 -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	80kA	80kA	80kA	80kA	80kA	80kA	80kA	65kA	65kA	65kA	65kA	
Lightning impulse current (10/350) limp	12.5kA	12.5kA	12.5kA	12.5kA	12.5kA	12.5kA	12.5kA	8kA	8kA	6kA	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	
Response time tA						≤25 ns						
Temporary overvoltage TOV U⊤ Withstand mode	90V/5s	174V/5s	228V/5s	335V/5s	335V/5s	403V/5s	403V/5s	580V/5s	580V/5s	700V/5s	870V/5	
Follow current & interrupt rating Ifi	No											
Leakage current Ipe	<0.1mA											
Short-circuit current rating Isscr	50 kArms											
Backup fuse(only required if not already provided in mains)	≤250A gL/gG											
Operating temperature range	-40ºC ~ +85ºC											
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 module, 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 <sup>2</sup> (or # 16AWG)										