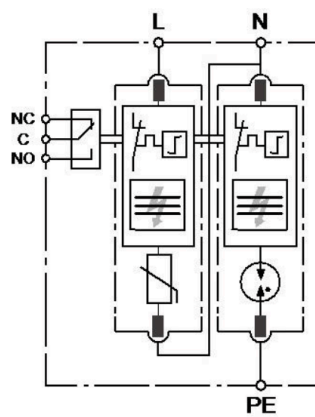


**Class I + Class II (T1+T2), Two-poles Surge Arresters
DS50/ 275-(V+T)-S**

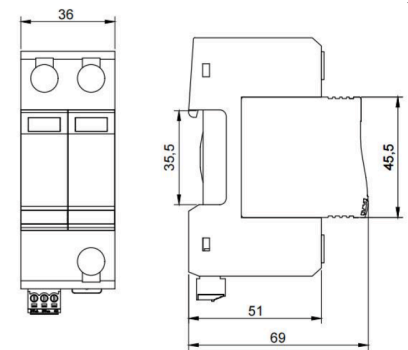
The DS50 V+T is class I & class II (or T1+T2) prewired two poles SPD designed for low-voltage power system lightning current and surge protection, used at the boundaries from lightning protection zone $O_b -2$ and higher.

With built in PROSURGE high energy MOV and GDT, DS50 V+T ensures remarkable lightning current discharge capacity up to 7.5kA 10/350 μ s (L-N), 12.5kA 10/350 μ s (N-PE) and high reliability.

The unique design of thermal protection provides quick thermal response and secure disconnection.



Basic Circuit Diagram



Dimension Drawing

- 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 disconnecter design provides quick thermal response and secure disconnection
- Lightning current capacity up to 7.5kA 10/350 μ s (L-N), 12.5kA 10/350 μ s (N-PE)
- Surge current capability up to 50kA 8/20 μ s
- Low voltage protection level
- High short-circuit current rating up to 25kArms, suitable for application in most AC power system.
- Degradation failure indication and optional remote signal contact.
- Pluggable module for easy replacement without the need to remove system wiring.
- Wide operating temperature -40 $^{\circ}$ C ~85 $^{\circ}$ C
- 35mm DIN-rail mounting
- Comply with UL1449 5th Edition, IEEE C62.41, CSA C22.2 standards

**Class I + Class II (T1+T2), Two-poles Surge Arresters
DS50/ 275-(V+T)-S**

Technical Data

Part No.	DS50/275-(V+T) -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 ,N-PE	
Max. continuous operating voltage(AC) Uc	L-N	275V
	N-PE	255V
Nominal discharge current (8/20) In	20kA	
Max. discharge current (8/20) Imax	50kA	
Lightning impulse current (10/350) Iimp	L-N	7.5kA
	N-PE	12.5kA
Voltage protection level Up	L-N	1.2kV
	N-PE	1.5kV
Response time tA	L-N	≤25ns
	N-PE	≤100ns
Temporary overvoltage TOV U _T Withstand mode	L-N	335V/5s
	N-PE	1200V/200ms
Follow current & interrupt rating Ifi	N-PE	100A
Leakage current Ipe	<0.1mA	
Short-circuit current rating I _{sscr}	25kArms	
Backup fuse(only required if not already provided in mains)	≤125A gL/gG	
Operating temperature range	-40°C ~ +85°C	
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 module, DIN 43880	
Thermal disconnecter	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)	