

Direct Lightning (Class I) AC Surge Protector

DS250VG



Citel's model DS250VG is a heavy duty class 1 AC Surge Protection Device (SPD) for high risk, low tolerance electrical service entrance applications. The SPD provides protection against the direct and indirect effects of lightning and is particularly useful in a high lightning area where the risk of heavy surge current or even direct strike is high, i.e. buildings equipped with lightning rods.

The DS250VG is a single pole module that can be used in any protection mode (L-L, L-N, L-G, N-G) as long as the MCOV level is set sufficiently above the nominal rating of the power line.

The DS250VG is designed to withstand a 25kA lightning current impulse (10/350µs). The protection circuit is based on a specific heavy duty GDT and high energy MOV block: this technology behaves well on the AC network (no follow on current and no leakage current). and provides a superior clamping voltage when compared to other protection circuits..

The DS250VG is UL recognized and is equipped with a thermal disconnection mechanism, remote alarm, and fault indicators.

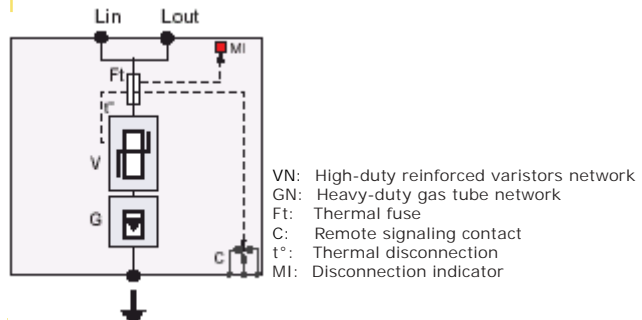
Standards & Guidelines

UL 1449 2nd Edition	USA
IEC 61643-11	International
ANSI/IEEE C62.41	USA
NFC 61740-95	France
VDE0675-6	Germany
CSA C22.2	Canada
CE Marked	European

Direct Lightning Protection Module

- 25kA transient amps protection (10/350µs)
- Dual input line terminals for improved connection to AC network
- Fault indicators and remote alarm
- 35mm DIN Rail mounting
- 10-Year warranty

Electrical Diagram



Specifications

Citel Model DS250VG	-120	-300	-400
System Voltage	120/208V 120/240V	220/380V 240/415V 240V 277/480V	277/480V 347/600V
MCOV	150V	330V	440V
SVR 500A 8/20µs	330V	600V	700V
Ipeak 10/350µs (Iimp)	25kA	25kA	25kA
Clamp V @ Iimp (Ures)	500V	800V	1000V
Leakage Current	<0.01 mA	<0.01mA	<0.01mA
Diagnostics	Fault indicator and remote alarm.		
Housing Materials	Polycarbonate UL94-5VA		
Operating Temperature	-40°C to +85°C		
Operating Altitude	13,000 ft (4,000m)		
Connection Method	Parallel, Kelvin (max. 125A)		
Protection Type	MOV-GDT based		
Connection	by screw: 2.5-50mm ² / by bus		
Protection Modes	L-N; L-G; N-G; L-L		
Dimensions	90Hx36Wx67D (in mm)		